



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 5, 2026 – 10:17 AM EDT

PDB ID : 4V88 / pdb_00004v88
Title : The structure of the eukaryotic ribosome at 3.0 Å resolution.
Authors : Ben-Shem, A.; Garreau de Loubresse, N.; Melnikov, S.; Jenner, L.; Yusupova, G.; Yusupov, M.
Deposited on : 2011-10-11
Resolution : 3.00 Å (reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

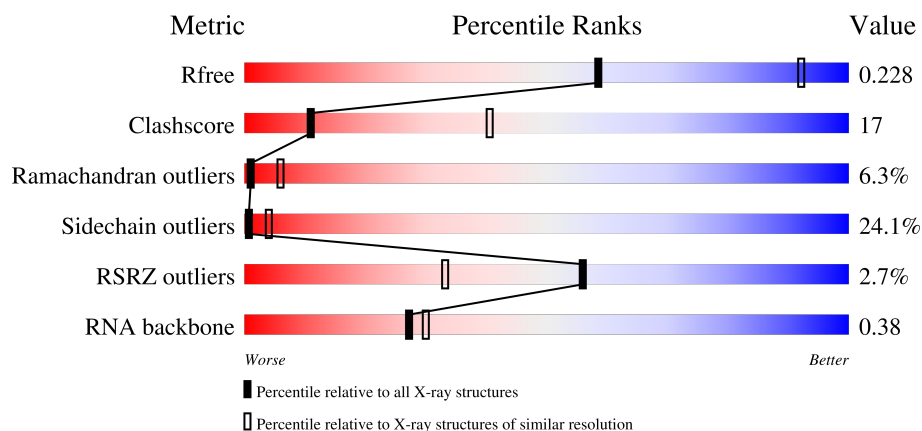
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

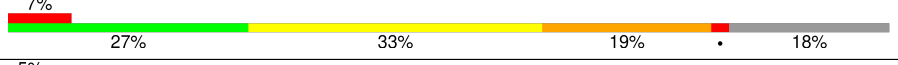
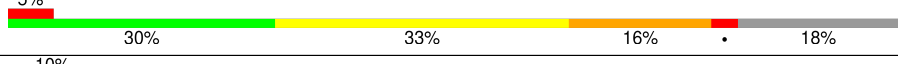
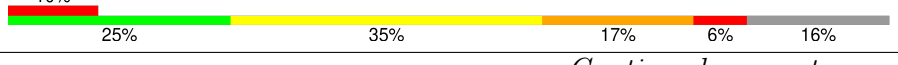
The reported resolution of this entry is 3.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)
RNA backbone	3983	1109 (3.20-2.80)

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

Mol	Chain	Length	Quality of chain
1	A2	1800	
2	AA	252	
2	CA	252	
3	AB	255	

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Mol	Chain	Length	Quality of chain
3	CB	255	
4	AC	254	
4	CC	254	
5	AD	240	
5	CD	240	
6	AE	261	
6	CE	261	
7	AF	225	
7	CF	225	
8	AG	236	
8	CG	236	
9	AH	190	
9	CH	190	
10	AI	200	
10	CI	200	
11	AJ	197	
11	CJ	197	
12	AK	105	
12	CK	105	
13	AL	156	
13	CL	156	
14	AM	143	
14	CM	143	
15	AN	151	
15	CN	151	

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Mol	Chain	Length	Quality of chain
16	AO	137	
16	CO	137	
17	AP	142	
17	CP	142	
18	AQ	143	
18	CQ	143	
19	AR	136	
19	CR	136	
20	AS	146	
20	CS	146	
21	AT	144	
21	CT	144	
22	AU	121	
22	CU	121	
23	AV	87	
23	CV	87	
24	AW	130	
24	CW	130	
25	AX	145	
25	CX	145	
26	AY	135	
26	CY	135	
27	AZ	108	
27	CZ	108	
28	Aa	119	

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Mol	Chain	Length	Quality of chain
28	Ca	119	
29	Ab	82	
29	Cb	82	
30	Ac	67	
30	Cc	67	
31	Ad	56	
31	Cd	56	
32	Ae	63	
32	Ce	63	
33	Af	152	
33	Cf	152	
34	Ag	319	
34	Cg	319	
35	Ah	273	
36	A1	3396	
36	A5	3396	
37	A3	121	
37	A7	121	
38	A4	158	
38	A8	158	
39	BA	254	
39	DA	254	
40	BB	387	
40	DB	387	
41	BC	362	

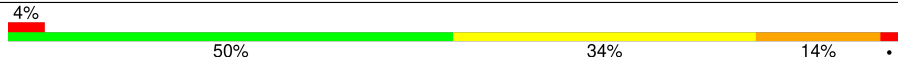
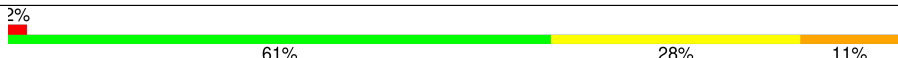
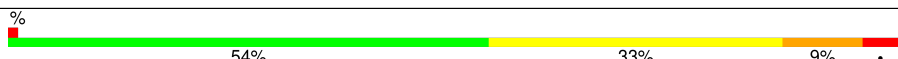
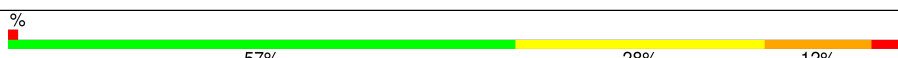
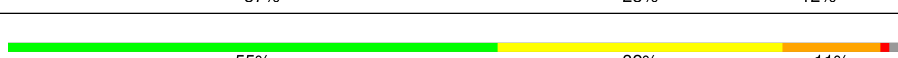
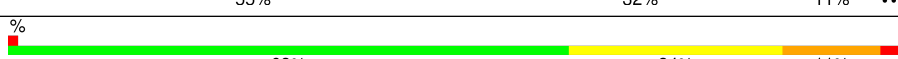
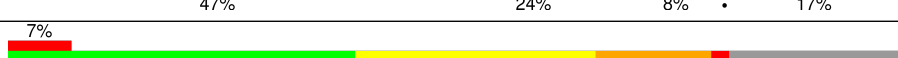
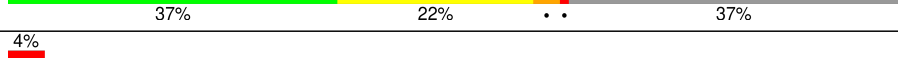
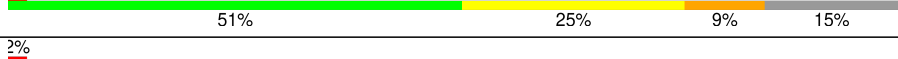
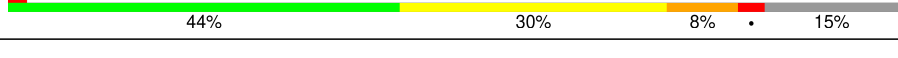
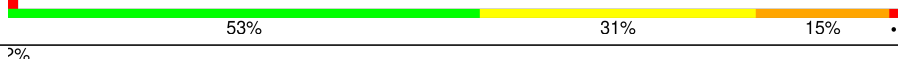
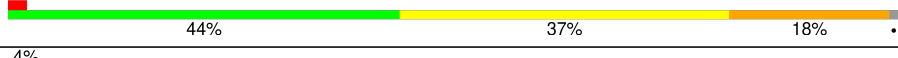
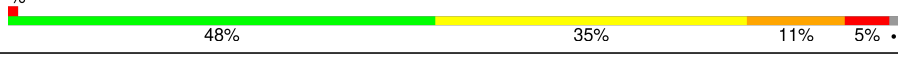
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Mol	Chain	Length	Quality of chain
41	DC	362	
42	BD	297	
42	DD	297	
43	BE	176	
43	DE	176	
44	BF	244	
44	DF	244	
45	BG	256	
45	DG	256	
46	BH	191	
46	DH	191	
47	BI	221	
47	DI	221	
48	BJ	174	
48	DJ	174	
49	BL	199	
49	DL	199	
50	BM	138	
50	DM	138	
51	BN	204	
51	DN	204	
52	BO	219	
52	DO	219	
53	BP	184	
53	DP	184	

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Mol	Chain	Length	Quality of chain
54	BQ	186	
54	DQ	186	
55	BR	189	
55	DR	189	
56	BS	172	
56	DS	172	
57	BT	160	
57	DT	160	
58	BU	121	
58	DU	121	
59	BV	137	
59	DV	137	
60	BW	155	
60	DW	155	
61	BX	142	
61	DX	142	
62	BY	127	
62	DY	127	
63	BZ	136	
63	DZ	136	
64	Ba	149	
64	Da	149	
65	Bb	59	
65	Db	59	
66	Bc	105	

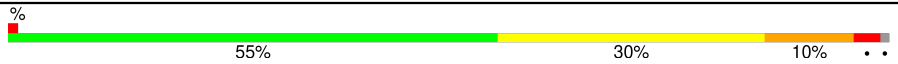
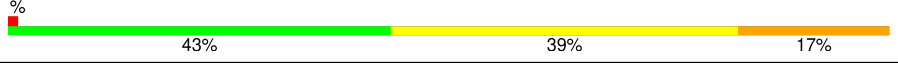
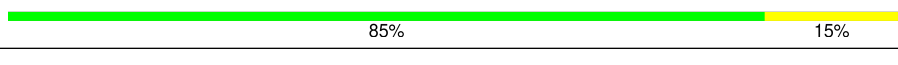
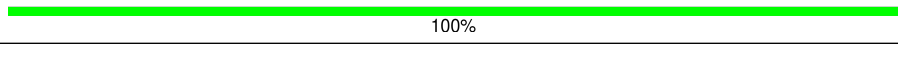
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Mol	Chain	Length	Quality of chain
66	Dc	105	
67	Bd	113	
67	Dd	113	
68	Be	130	
68	De	130	
69	Bf	107	
69	Df	107	
70	Bg	121	
70	Dg	121	
71	Bh	120	
71	Dh	120	
72	Bi	100	
72	Di	100	
73	Bj	88	
73	Dj	88	
74	Bk	78	
74	Dk	78	
75	Bl	51	
75	Dl	51	
76	Bm	128	
76	Dm	128	
77	Bn	25	
77	Dn	25	
78	Bo	106	
78	Do	106	

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Mol	Chain	Length	Quality of chain
79	Bp	92	
79	Dp	92	
80	A6	1800	
81	Ch	273	
82	DK	155	
83	Dq	312	
84	Dr	47	
85	Ds	46	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	A1	3414	-	-	X	-
86	OHX	A1	3432	-	-	X	-
86	OHX	A1	3439	-	-	X	-
86	OHX	A1	3452	-	-	X	-
86	OHX	A1	3457	-	-	X	-
86	OHX	A1	3458	-	-	X	-
86	OHX	A1	3463	-	-	X	-
86	OHX	A1	3466	-	-	X	-
86	OHX	A1	3467	-	-	X	-
86	OHX	A1	3471	-	-	X	-
86	OHX	A1	3478	-	-	X	-
86	OHX	A1	3479	-	-	X	-
86	OHX	A1	3481	-	-	X	-
86	OHX	A1	3483	-	-	X	-
86	OHX	A1	3491	-	-	X	-
86	OHX	A1	3496	-	-	X	-
86	OHX	A1	3497	-	-	X	-
86	OHX	A1	3503	-	-	X	-
86	OHX	A1	3506	-	-	X	-
86	OHX	A1	3509	-	-	X	-
86	OHX	A1	3512	-	-	X	-
86	OHX	A1	3516	-	-	X	-
86	OHX	A1	3520	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	A1	3542	-	-	X	-
86	OHX	A1	3549	-	-	X	-
86	OHX	A1	3562	-	-	X	-
86	OHX	A1	3565	-	-	X	-
86	OHX	A1	3574	-	-	X	-
86	OHX	A1	3578	-	-	X	-
86	OHX	A1	3584	-	-	X	-
86	OHX	A1	3591	-	-	X	-
86	OHX	A1	3598	-	-	X	-
86	OHX	A1	3601	-	-	X	-
86	OHX	A1	3602	-	-	X	-
86	OHX	A1	3603	-	-	X	-
86	OHX	A1	3604	-	-	X	-
86	OHX	A1	3607	-	-	X	-
86	OHX	A1	3650	-	-	X	-
86	OHX	A1	3659	-	-	X	-
86	OHX	A1	3667	-	-	X	-
86	OHX	A1	3671	-	-	X	-
86	OHX	A1	3680	-	-	X	-
86	OHX	A1	3687	-	-	X	-
86	OHX	A1	3693	-	-	X	-
86	OHX	A1	3698	-	-	X	-
86	OHX	A1	3706	-	-	X	-
86	OHX	A1	3712	-	-	X	-
86	OHX	A1	3717	-	-	X	-
86	OHX	A1	3718	-	-	X	-
86	OHX	A1	3722	-	-	X	-
86	OHX	A1	3725	-	-	X	-
86	OHX	A1	3735	-	-	X	-
86	OHX	A1	3738	-	-	X	-
86	OHX	A1	3742	-	-	X	-
86	OHX	A1	3744	-	-	X	-
86	OHX	A1	3746	-	-	X	-
86	OHX	A1	3748	-	-	X	-
86	OHX	A1	3750	-	-	X	-
86	OHX	A1	3751	-	-	X	-
86	OHX	A1	3757	-	-	X	-
86	OHX	A1	3762	-	-	X	-
86	OHX	A1	3777	-	-	X	-
86	OHX	A1	3785	-	-	X	-
86	OHX	A1	3788	-	-	X	-
86	OHX	A1	3789	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	A1	3792	-	-	X	-
86	OHX	A1	3795	-	-	X	-
86	OHX	A1	3798	-	-	X	-
86	OHX	A1	3800	-	-	X	-
86	OHX	A1	3802	-	-	X	-
86	OHX	A1	3805	-	-	X	-
86	OHX	A1	3806	-	-	X	-
86	OHX	A1	3811	-	-	X	-
86	OHX	A1	3812	-	-	X	-
86	OHX	A1	3816	-	-	X	-
86	OHX	A2	1907	-	-	X	-
86	OHX	A2	1914	-	-	X	-
86	OHX	A2	1915	-	-	X	-
86	OHX	A2	1918	-	-	X	-
86	OHX	A2	1921	-	-	X	-
86	OHX	A2	1922	-	-	X	-
86	OHX	A2	1940	-	-	X	-
86	OHX	A2	1954	-	-	X	-
86	OHX	A2	1962	-	-	X	-
86	OHX	A2	1964	-	-	X	-
86	OHX	A2	1965	-	-	X	-
86	OHX	A2	1969	-	-	X	-
86	OHX	A2	1970	-	-	X	-
86	OHX	A2	1975	-	-	X	-
86	OHX	A2	1978	-	-	X	-
86	OHX	A2	1983	-	-	X	-
86	OHX	A2	1989	-	-	X	-
86	OHX	A2	2014	-	-	X	-
86	OHX	A2	2017	-	-	X	-
86	OHX	A2	2029	-	-	X	-
86	OHX	A2	2048	-	-	X	-
86	OHX	A2	2052	-	-	X	-
86	OHX	A2	2067	-	-	X	-
86	OHX	A2	2071	-	-	X	-
86	OHX	A2	2074	-	-	X	-
86	OHX	A2	2076	-	-	X	-
86	OHX	A2	2082	-	-	X	-
86	OHX	A2	2086	-	-	X	-
86	OHX	A5	3457	-	-	X	-
86	OHX	A5	3458	-	-	X	-
86	OHX	A5	3461	-	-	X	-
86	OHX	A5	3464	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	A5	3465	-	-	X	-
86	OHX	A5	3470	-	-	X	-
86	OHX	A5	3473	-	-	X	-
86	OHX	A5	3474	-	-	X	-
86	OHX	A5	3477	-	-	X	-
86	OHX	A5	3480	-	-	X	-
86	OHX	A5	3487	-	-	X	-
86	OHX	A5	3489	-	-	X	-
86	OHX	A5	3491	-	-	X	-
86	OHX	A5	3492	-	-	X	-
86	OHX	A5	3509	-	-	X	-
86	OHX	A5	3513	-	-	X	-
86	OHX	A5	3514	-	-	X	-
86	OHX	A5	3515	-	-	X	-
86	OHX	A5	3516	-	-	X	-
86	OHX	A5	3517	-	-	X	-
86	OHX	A5	3518	-	-	X	-
86	OHX	A5	3521	-	-	X	-
86	OHX	A5	3526	-	-	X	-
86	OHX	A5	3532	-	-	X	-
86	OHX	A5	3533	-	-	X	-
86	OHX	A5	3538	-	-	X	-
86	OHX	A5	3542	-	-	X	-
86	OHX	A5	3548	-	-	X	-
86	OHX	A5	3550	-	-	X	-
86	OHX	A5	3569	-	-	X	-
86	OHX	A5	3577	-	-	X	-
86	OHX	A5	3580	-	-	X	-
86	OHX	A5	3581	-	-	X	-
86	OHX	A5	3591	-	-	X	-
86	OHX	A5	3595	-	-	X	-
86	OHX	A5	3598	-	-	X	-
86	OHX	A5	3603	-	-	X	-
86	OHX	A5	3606	-	-	X	-
86	OHX	A5	3607	-	-	X	-
86	OHX	A5	3610	-	-	X	-
86	OHX	A5	3617	-	-	X	-
86	OHX	A5	3640	-	-	X	-
86	OHX	A5	3644	-	-	X	-
86	OHX	A5	3660	-	-	X	-
86	OHX	A5	3662	-	-	X	-
86	OHX	A5	3666	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	A5	3667	-	-	X	-
86	OHX	A5	3680	-	-	X	-
86	OHX	A5	3681	-	-	X	-
86	OHX	A5	3695	-	-	X	-
86	OHX	A5	3699	-	-	X	-
86	OHX	A5	3720	-	-	X	-
86	OHX	A5	3722	-	-	X	-
86	OHX	A5	3723	-	-	X	-
86	OHX	A5	3729	-	-	X	-
86	OHX	A5	3732	-	-	X	-
86	OHX	A5	3734	-	-	X	-
86	OHX	A5	3737	-	-	X	-
86	OHX	A5	3738	-	-	X	-
86	OHX	A5	3739	-	-	X	-
86	OHX	A5	3740	-	-	X	-
86	OHX	A5	3741	-	-	X	-
86	OHX	A5	3743	-	-	X	-
86	OHX	A5	3762	-	-	X	-
86	OHX	A5	3763	-	-	X	-
86	OHX	A5	3772	-	-	X	-
86	OHX	A5	3779	-	-	X	-
86	OHX	A5	3792	-	-	-	X
86	OHX	A5	3795	-	-	X	-
86	OHX	A5	3801	-	-	X	-
86	OHX	A5	3803	-	-	X	-
86	OHX	A5	3807	-	-	X	-
86	OHX	A5	3808	-	-	X	-
86	OHX	A5	3809	-	-	X	-
86	OHX	A5	3810	-	-	X	-
86	OHX	A5	3811	-	-	X	-
86	OHX	A5	3812	-	-	X	-
86	OHX	A5	3813	-	-	X	-
86	OHX	A5	3814	-	-	X	-
86	OHX	A5	3815	-	-	X	-
86	OHX	A5	3820	-	-	X	-
86	OHX	A5	3821	-	-	X	-
86	OHX	A6	1909	-	-	X	-
86	OHX	A6	1915	-	-	X	-
86	OHX	A6	1922	-	-	X	-
86	OHX	A6	1923	-	-	X	-
86	OHX	A6	1933	-	-	X	-
86	OHX	A6	1940	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	A6	1941	-	-	X	-
86	OHX	A6	1956	-	-	X	-
86	OHX	A6	1961	-	-	X	-
86	OHX	A6	1983	-	-	X	-
86	OHX	A6	2002	-	-	X	-
86	OHX	A6	2005	-	-	X	-
86	OHX	A6	2009	-	-	X	-
86	OHX	A6	2016	-	-	X	-
86	OHX	A6	2058	-	-	X	-
86	OHX	A6	2062	-	-	X	-
86	OHX	A6	2068	-	-	X	-
86	OHX	A6	2071	-	-	X	-
86	OHX	A6	2086	-	-	X	-
86	OHX	A6	2090	-	-	X	-
86	OHX	A6	2092	-	-	X	-
86	OHX	A6	2099	-	-	X	-
86	OHX	A6	2100	-	-	X	-
86	OHX	A7	203	-	-	X	-
86	OHX	A7	209	-	-	X	-
86	OHX	A7	211	-	-	X	-
86	OHX	A8	203	-	-	X	-
86	OHX	A8	211	-	-	X	-
86	OHX	A8	218	-	-	X	-
86	OHX	AC	301	-	-	X	-
86	OHX	AP	201	-	-	X	-
86	OHX	Ad	101	-	-	X	-
86	OHX	BA	301	-	-	X	-
86	OHX	BI	303	-	-	X	-
86	OHX	BI	304	-	-	X	-
86	OHX	Bj	101	-	-	X	-
86	OHX	CG	301	-	-	X	-
86	OHX	CG	302	-	-	X	-
86	OHX	CL	201	-	-	X	-
86	OHX	CP	202	-	-	X	-
86	OHX	Cd	101	-	-	X	-
86	OHX	DA	302	-	-	X	-
86	OHX	DG	301	-	-	X	-
87	MG	A1	3829	-	-	-	X
87	MG	A1	3848	-	-	-	X
87	MG	A1	3859	-	-	-	X
87	MG	A1	3879	-	-	-	X
87	MG	A1	3888	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
87	MG	A1	3909	-	-	-	X
87	MG	A1	3919	-	-	-	X
87	MG	A1	3922	-	-	-	X
87	MG	A1	3965	-	-	-	X
87	MG	A1	3977	-	-	-	X
87	MG	A1	4105	-	-	-	X
87	MG	A1	4159	-	-	-	X
87	MG	A1	4190	-	-	-	X
87	MG	A1	4194	-	-	-	X
87	MG	A1	4220	-	-	-	X
87	MG	A1	4255	-	-	-	X
87	MG	A1	4273	-	-	-	X
87	MG	A1	4284	-	-	-	X
87	MG	A1	4465	-	-	-	X
87	MG	A1	4482	-	-	-	X
87	MG	A2	2094	-	-	-	X
87	MG	A2	2097	-	-	-	X
87	MG	A2	2098	-	-	-	X
87	MG	A2	2103	-	-	-	X
87	MG	A2	2121	-	-	-	X
87	MG	A2	2123	-	-	-	X
87	MG	A2	2126	-	-	-	X
87	MG	A2	2128	-	-	-	X
87	MG	A2	2150	-	-	-	X
87	MG	A2	2158	-	-	-	X
87	MG	A2	2159	-	-	-	X
87	MG	A2	2162	-	-	-	X
87	MG	A2	2167	-	-	-	X
87	MG	A2	2191	-	-	-	X
87	MG	A2	2209	-	-	-	X
87	MG	A2	2213	-	-	-	X
87	MG	A2	2242	-	-	-	X
87	MG	A3	220	-	-	-	X
87	MG	A4	226	-	-	-	X
87	MG	A5	3889	-	-	-	X
87	MG	A5	3897	-	-	-	X
87	MG	A5	3921	-	-	-	X
87	MG	A5	3928	-	-	-	X
87	MG	A5	3929	-	-	-	X
87	MG	A5	3979	-	-	-	X
87	MG	A5	3989	-	-	-	X
87	MG	A5	4042	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
87	MG	A5	4054	-	-	-	X
87	MG	A5	4056	-	-	-	X
87	MG	A5	4175	-	-	-	X
87	MG	A5	4194	-	-	-	X
87	MG	A5	4207	-	-	-	X
87	MG	A5	4249	-	-	-	X
87	MG	A5	4254	-	-	-	X
87	MG	A5	4336	-	-	-	X
87	MG	A5	4341	-	-	-	X
87	MG	A5	4371	-	-	-	X
87	MG	A5	4372	-	-	-	X
87	MG	A5	4412	-	-	-	X
87	MG	A5	4492	-	-	-	X
87	MG	A5	4499	-	-	-	X
87	MG	A5	4530	-	-	-	X
87	MG	A6	2116	-	-	-	X
87	MG	A6	2128	-	-	-	X
87	MG	A6	2141	-	-	-	X
87	MG	A6	2156	-	-	-	X
87	MG	A6	2157	-	-	-	X
87	MG	A6	2168	-	-	-	X
87	MG	A6	2228	-	-	-	X
87	MG	A6	2273	-	-	-	X
87	MG	A8	229	-	-	-	X
87	MG	BP	211	-	-	-	X
87	MG	DB	404	-	-	-	X
87	MG	DB	413	-	-	-	X
87	MG	DC	406	-	-	-	X
88	ZN	Bo	205	-	-	X	-

2 Entry composition

There are 89 unique types of molecules in this entry. The entry contains 416785 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A2	1781	Total	C	N	O	P	0	1	0
			37835	16910	6661	12482	1782			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AA	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			
2	CA	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	AB	214	Total	C	N	O	S	0	0	0
			1709	1084	310	311	4			
3	CB	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	AC	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			
4	CC	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	AD	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	CD	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	AE	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			
6	CE	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	AF	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
7	CF	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	AG	226	Total	C	N	O	S	0	0	0
			1799	1129	346	321	3			
8	CG	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	AH	184	Total	C	N	O	0	0	0
			1481	951	265	265			
9	CH	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	AI	188	Total	C	N	O	0	0	0
			1489	925	298	264			
10	CI	188	Total	C	N	O	0	0	0
			1489	925	298	264			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AJ	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			
11	CJ	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	AK	96	Total	C	N	O	S	0	0	0
			772	499	126	145	2			
12	CK	96	Total	C	N	O	S	0	0	0
			761	490	125	144	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AL	155	Total	C	N	O	S	0	0	0
			1213	774	230	206	3			
13	CL	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AN	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			
15	CN	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	AO	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
16	CO	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	AP	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			
17	CP	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	AQ	141	Total	C	N	O		0	0	0
			1105	708	203	194				
18	CQ	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	AR	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			
19	CR	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	AS	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			
20	CS	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	AT	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	CT	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	AU	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
22	CU	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	AV	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			
23	CV	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	AW	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			
24	CW	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	AX	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			
25	CX	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	AY	134	Total	C	N	O	0	0	0
			1073	676	208	189			
26	CY	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	AZ	70	Total	C	N	O	0	0	0
			563	360	104	99			
27	CZ	69	Total	C	N	O	0	0	0
			558	357	103	98			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	Aa	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			
28	Ca	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	Ab	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			
29	Cb	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	Ac	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			
30	Cc	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	Ad	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			
31	Cd	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	Ae	60	Total 475	C 299	N 98	O 77	S 1	0	0	0
32	Ce	62	Total 491	C 309	N 101	O 80	S 1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	Af	71	Total 516	C 328	N 93	O 91	S 4	0	0	0
33	Cf	76	Total 544	C 346	N 98	O 96	S 4	0	0	0

There are 45 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Af	82	UNK	LYS	SEE REMARK 999	UNP P05759
Af	83	UNK	LYS	SEE REMARK 999	UNP P05759
Af	84	UNK	VAL	SEE REMARK 999	UNP P05759
Af	85	UNK	TYR	SEE REMARK 999	UNP P05759
Af	86	UNK	THR	SEE REMARK 999	UNP P05759
Af	87	UNK	THR	SEE REMARK 999	UNP P05759
Af	88	UNK	PRO	SEE REMARK 999	UNP P05759
Af	89	UNK	LYS	SEE REMARK 999	UNP P05759
Af	90	UNK	LYS	SEE REMARK 999	UNP P05759
Af	91	UNK	ILE	SEE REMARK 999	UNP P05759
Af	92	UNK	LYS	SEE REMARK 999	UNP P05759
Af	93	UNK	HIS	SEE REMARK 999	UNP P05759
Af	94	UNK	LYS	SEE REMARK 999	UNP P05759
Af	95	UNK	HIS	SEE REMARK 999	UNP P05759
Af	96	UNK	LYS	SEE REMARK 999	UNP P05759
Af	97	UNK	LYS	SEE REMARK 999	UNP P05759
Af	98	UNK	VAL	SEE REMARK 999	UNP P05759
Af	99	UNK	LYS	SEE REMARK 999	UNP P05759
Af	100	UNK	LEU	SEE REMARK 999	UNP P05759
Af	101	UNK	ALA	SEE REMARK 999	UNP P05759
Cf	77	UNK	GLY	SEE REMARK 999	UNP P05759
Cf	78	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	79	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	80	UNK	ARG	SEE REMARK 999	UNP P05759
Cf	81	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	82	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	83	UNK	LYS	SEE REMARK 999	UNP P05759

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Chain	Residue	Modelled	Actual	Comment	Reference
Cf	84	UNK	VAL	SEE REMARK 999	UNP P05759
Cf	85	UNK	TYR	SEE REMARK 999	UNP P05759
Cf	86	UNK	THR	SEE REMARK 999	UNP P05759
Cf	87	UNK	THR	SEE REMARK 999	UNP P05759
Cf	88	UNK	PRO	SEE REMARK 999	UNP P05759
Cf	89	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	90	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	91	UNK	ILE	SEE REMARK 999	UNP P05759
Cf	92	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	93	UNK	HIS	SEE REMARK 999	UNP P05759
Cf	94	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	95	UNK	HIS	SEE REMARK 999	UNP P05759
Cf	96	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	97	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	98	UNK	VAL	SEE REMARK 999	UNP P05759
Cf	99	UNK	LYS	SEE REMARK 999	UNP P05759
Cf	100	UNK	LEU	SEE REMARK 999	UNP P05759
Cf	101	UNK	ALA	SEE REMARK 999	UNP P05759

- Molecule 34 is a protein called Guanine nucleotide-binding protein subunit beta-like protein (ASC1, RACK1).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	Ag	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			
34	Cg	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	Ah	159	Total	C	N	O	0	0	0
			1105	653	221	231			

There are 38 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Ah	9	UNK	GLY	SEE REMARK 999	UNP P39015
Ah	10	UNK	ASN	SEE REMARK 999	UNP P39015
Ah	11	UNK	ASP	SEE REMARK 999	UNP P39015
Ah	12	UNK	VAL	SEE REMARK 999	UNP P39015
Ah	13	UNK	GLU	SEE REMARK 999	UNP P39015

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Chain	Residue	Modelled	Actual	Comment	Reference
Ah	14	UNK	ASP	SEE REMARK 999	UNP P39015
Ah	15	UNK	ALA	SEE REMARK 999	UNP P39015
Ah	16	UNK	ASP	SEE REMARK 999	UNP P39015
Ah	17	UNK	VAL	SEE REMARK 999	UNP P39015
Ah	18	UNK	VAL	SEE REMARK 999	UNP P39015
Ah	19	UNK	VAL	SEE REMARK 999	UNP P39015
Ah	20	UNK	LEU	SEE REMARK 999	UNP P39015
Ah	151	UNK	LEU	SEE REMARK 999	UNP P39015
Ah	152	UNK	GLN	SEE REMARK 999	UNP P39015
Ah	153	UNK	ASP	SEE REMARK 999	UNP P39015
Ah	154	UNK	TYR	SEE REMARK 999	UNP P39015
Ah	155	UNK	LEU	SEE REMARK 999	UNP P39015
Ah	156	UNK	ASN	SEE REMARK 999	UNP P39015
Ah	157	UNK	GLN	SEE REMARK 999	UNP P39015
Ah	158	UNK	GLN	SEE REMARK 999	UNP P39015
Ah	159	UNK	ALA	SEE REMARK 999	UNP P39015
Ah	160	UNK	ASN	SEE REMARK 999	UNP P39015
Ah	161	UNK	ASN	SEE REMARK 999	UNP P39015
Ah	162	UNK	GLN	SEE REMARK 999	UNP P39015
Ah	163	UNK	PHE	SEE REMARK 999	UNP P39015
Ah	164	UNK	ASN	SEE REMARK 999	UNP P39015
Ah	165	UNK	LYS	SEE REMARK 999	UNP P39015
Ah	166	UNK	VAL	SEE REMARK 999	UNP P39015
Ah	167	UNK	PRO	SEE REMARK 999	UNP P39015
Ah	168	UNK	GLU	SEE REMARK 999	UNP P39015
Ah	169	UNK	ALA	SEE REMARK 999	UNP P39015
Ah	170	UNK	LYS	SEE REMARK 999	UNP P39015
Ah	171	UNK	LYS	SEE REMARK 999	UNP P39015
Ah	172	UNK	VAL	SEE REMARK 999	UNP P39015
Ah	173	UNK	GLU	SEE REMARK 999	UNP P39015
Ah	174	UNK	LEU	SEE REMARK 999	UNP P39015
Ah	175	UNK	ASP	SEE REMARK 999	UNP P39015
Ah	176	UNK	ALA	SEE REMARK 999	UNP P39015

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	A1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
36	A5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	3149			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	A3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
37	A7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	A4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
38	A8	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	BA	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
39	DA	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	BB	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
40	DB	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	BC	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
41	DC	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	BD	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	DD	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	BE	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	DE	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	BF	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	DF	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	BG	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			
45	DG	231	Total	C	N	O	S	0	0	0
			1763	1130	316	314	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BH	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	DH	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	BI	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
47	DI	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BJ	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
48	DJ	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	BL	193	Total	C	N	O		0	0	0
			1543	962	315	266				
49	DL	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	BM	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			
50	DM	137	Total	C	N	O	S	0	0	0
			1059	678	200	179	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BN	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
51	DN	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, 60S ribosomal protein L16-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BO	197	Total	C	N	O	S	0	197	0
			3119	2008	581	528	2			
52	DO	197	Total	C	N	O	S	0	197	0
			3119	2008	581	528	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	BP	183	Total	C	N	O	0	0	0
			1420	882	281	257			
53	DP	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	BQ	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			
54	DQ	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	BR	188	Total	C	N	O	0	0	0
			1521	935	326	260			
55	DR	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	BS	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
56	DS	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	BT	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
57	DT	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	BU	100	Total	C	N	O	0	0	0
			796	516	131	149			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	DU	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	BV	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
59	DV	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	BW	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			
60	DW	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	BX	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			
61	DX	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	BY	126	Total	C	N	O	0	0	0
			993	625	192	176			
62	DY	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	BZ	135	Total	C	N	O	0	0	0
			1092	710	202	180			
63	DZ	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	Ba	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			
64	Da	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	Bb	58	Total	C	N	O	0	0	0
			462	289	100	73			
65	Db	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	Bc	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
66	Dc	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	Bd	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
67	Dd	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	Be	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			
68	De	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	Bf	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			
69	Df	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	Bg	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			
70	Dg	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	Bh	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	Dh	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	Bi	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
72	Di	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	Bj	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			
73	Dj	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	Bk	77	Total	C	N	O	0	0	0
			612	391	115	106			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
74	Dk	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	Bl	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
75	Dl	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	Bm	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
76	Dm	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	Bn	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			
77	Dn	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	Bo	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
78	Do	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	Bp	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			
79	Dp	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	A6	1795	Total	C	N	O	P	0	1	0
			38021	16989	6669	12567	1796			

- Molecule 81 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
81	Ch	104	Total	C	N	O	0	0	0
			680	403	140	137			

There are 41 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Ch	119	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	120	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	121	UNK	LYS	SEE REMARK 999	UNP P39015
Ch	122	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	123	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	124	UNK	GLN	SEE REMARK 999	UNP P39015
Ch	125	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	126	UNK	ASP	SEE REMARK 999	UNP P39015
Ch	127	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	128	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	129	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	130	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	131	UNK	ILE	SEE REMARK 999	UNP P39015
Ch	132	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	133	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	134	UNK	ASP	SEE REMARK 999	UNP P39015
Ch	135	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	136	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	137	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	138	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	139	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	155	UNK	LEU	SEE REMARK 999	UNP P39015
Ch	156	UNK	ASN	SEE REMARK 999	UNP P39015
Ch	157	UNK	GLN	SEE REMARK 999	UNP P39015
Ch	158	UNK	GLN	SEE REMARK 999	UNP P39015
Ch	159	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	160	UNK	ASN	SEE REMARK 999	UNP P39015
Ch	161	UNK	ASN	SEE REMARK 999	UNP P39015
Ch	162	UNK	GLN	SEE REMARK 999	UNP P39015
Ch	163	UNK	PHE	SEE REMARK 999	UNP P39015

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Chain	Residue	Modelled	Actual	Comment	Reference
Ch	164	UNK	ASN	SEE REMARK 999	UNP P39015
Ch	165	UNK	LYS	SEE REMARK 999	UNP P39015
Ch	166	UNK	VAL	SEE REMARK 999	UNP P39015
Ch	167	UNK	PRO	SEE REMARK 999	UNP P39015
Ch	168	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	169	UNK	ALA	SEE REMARK 999	UNP P39015
Ch	170	UNK	LYS	SEE REMARK 999	UNP P39015
Ch	171	UNK	LYS	SEE REMARK 999	UNP P39015
Ch	172	UNK	VAL	SEE REMARK 999	UNP P39015
Ch	173	UNK	GLU	SEE REMARK 999	UNP P39015
Ch	174	UNK	LEU	SEE REMARK 999	UNP P39015

- Molecule 82 is a protein called Ribosomal protein L12.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
82	DK	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	Dq	143	Total	C	N	O	S	0	0	0
			1077	687	192	195	3			

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Dq	199	UNK	SER	SEE REMARK 999	UNP P05317
Dq	200	UNK	SER	SEE REMARK 999	UNP P05317
Dq	201	UNK	ILE	SEE REMARK 999	UNP P05317
Dq	202	UNK	LEU	SEE REMARK 999	UNP P05317
Dq	203	UNK	ASP	SEE REMARK 999	UNP P05317
Dq	204	UNK	ILE	SEE REMARK 999	UNP P05317
Dq	205	UNK	THR	SEE REMARK 999	UNP P05317
Dq	206	UNK	ASP	SEE REMARK 999	UNP P05317
Dq	207	UNK	GLU	SEE REMARK 999	UNP P05317
Dq	208	UNK	GLU	SEE REMARK 999	UNP P05317
Dq	209	UNK	LEU	SEE REMARK 999	UNP P05317
Dq	210	UNK	VAL	SEE REMARK 999	UNP P05317
Dq	211	UNK	SER	SEE REMARK 999	UNP P05317
Dq	212	UNK	HIS	SEE REMARK 999	UNP P05317
Dq	213	UNK	PHE	SEE REMARK 999	UNP P05317

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Chain	Residue	Modelled	Actual	Comment	Reference
Dq	214	UNK	VAL	SEE REMARK 999	UNP P05317
Dq	215	UNK	SER	SEE REMARK 999	UNP P05317
Dq	216	UNK	ALA	SEE REMARK 999	UNP P05317
Dq	217	UNK	VAL	SEE REMARK 999	UNP P05317
Dq	218	UNK	SER	SEE REMARK 999	UNP P05317
Dq	219	UNK	THR	SEE REMARK 999	UNP P05317
Dq	220	UNK	ILE	SEE REMARK 999	UNP P05317
Dq	221	UNK	ALA	SEE REMARK 999	UNP P05317

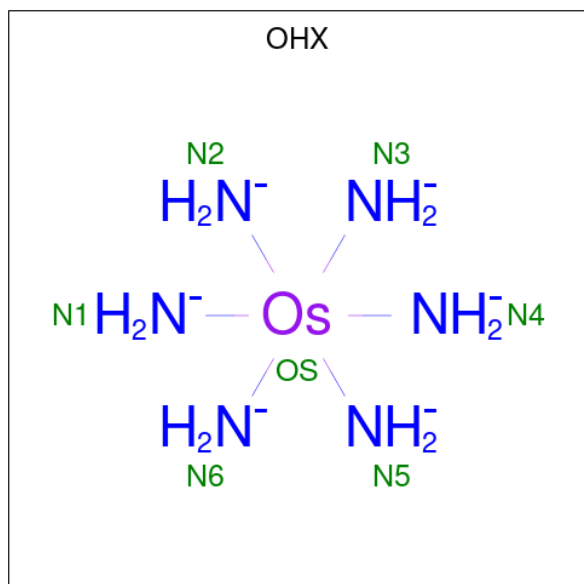
- Molecule 84 is a protein called Ribosomal protein P1 alpha.

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

- Molecule 85 is a protein called Ribosomal protein P2 beta.

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

- Molecule 86 is osmium (III) hexammine (CCD ID: OHX) (formula: $\text{H}_{12}\text{N}_6\text{Os}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
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86	A2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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			7	6	1		
86	A2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
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86	A2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
86	AC	1	Total	N	Os	0	0
			7	6	1		
86	AI	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	AN	1	Total	N	Os	0	0
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86	AP	1	Total	N	Os	0	0
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86	Ad	1	Total	N	Os	0	0
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86	Ag	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A1	1	Total	N	Os	0	0
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			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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			7	6	1		
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
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86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A1	1	Total	N	Os	0	0
			7	6	1		
86	A3	1	Total	N	Os	0	0
			7	6	1		
86	A3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A3	1	Total	N	Os	0	0
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86	A3	1	Total	N	Os	0	0
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86	A3	1	Total	N	Os	0	0
			7	6	1		
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86	A3	1	Total	N	Os	0	0
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86	A4	1	Total	N	Os	0	0
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86	A4	1	Total	N	Os	0	0
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86	A4	1	Total	N	Os	0	0
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86	A4	1	Total	N	Os	0	0
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86	A4	1	Total	N	Os	0	0
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			7	6	1		
86	A4	1	Total	N	Os	0	0
			7	6	1		
86	A4	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A4	1	Total	N	Os	0	0
			7	6	1		
86	A4	1	Total	N	Os	0	0
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86	A4	1	Total	N	Os	0	0
			7	6	1		
86	A4	1	Total	N	Os	0	0
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86	A4	1	Total	N	Os	0	0
			7	6	1		
86	BA	1	Total	N	Os	0	0
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86	BB	1	Total	N	Os	0	0
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86	BB	1	Total	N	Os	0	0
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86	BC	1	Total	N	Os	0	0
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86	BD	1	Total	N	Os	0	0
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86	BI	1	Total	N	Os	0	0
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86	BI	1	Total	N	Os	0	0
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86	BI	1	Total	N	Os	0	0
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86	BI	1	Total	N	Os	0	0
			7	6	1		
86	BN	1	Total	N	Os	0	0
			7	6	1		
86	BO	1	Total	N	Os	0	0
			7	6	1		
86	BP	1	Total	N	Os	0	0
			7	6	1		
86	BP	1	Total	N	Os	0	0
			7	6	1		
86	BR	1	Total	N	Os	0	0
			7	6	1		
86	BT	1	Total	N	Os	0	0
			7	6	1		
86	Bb	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	Bf	1	Total	N	Os	0	0
			7	6	1		
86	Bj	1	Total	N	Os	0	0
			7	6	1		
86	Bj	1	Total	N	Os	0	0
			7	6	1		
86	Bj	1	Total	N	Os	0	0
			7	6	1		
86	Bo	1	Total	N	Os	0	0
			7	6	1		
86	A6	1	Total	N	Os	0	0
			7	6	1		
86	A6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A6	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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86	A6	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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86	A6	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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86	A6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	CI	1	Total	N	Os	0	0
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86	CJ	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	CS	1	Total	N	Os	0	0
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86	CY	1	Total	N	Os	0	0
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86	CY	1	Total	N	Os	0	0
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86	Cd	1	Total	N	Os	0	0
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86	Cg	1	Total	N	Os	0	0
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86	A5	1	Total	N	Os	0	0
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86	A5	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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86	A5	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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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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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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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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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	A7	1	Total	N	Os	0	0
			7	6	1		
86	A7	1	Total	N	Os	0	0
			7	6	1		
86	A7	1	Total	N	Os	0	0
			7	6	1		
86	A7	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	A8	1	Total	N	Os	0	0
			7	6	1		
86	DA	1	Total	N	Os	0	0
			7	6	1		
86	DB	1	Total	N	Os	0	0
			7	6	1		
86	DB	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	DC	1	Total	N	Os	0	0
			7	6	1		
86	DC	1	Total	N	Os	0	0
			7	6	1		
86	DD	1	Total	N	Os	0	0
			7	6	1		
86	DG	1	Total	N	Os	0	0
			7	6	1		
86	DH	1	Total	N	Os	0	0
			7	6	1		
86	DI	1	Total	N	Os	0	0
			7	6	1		
86	DI	1	Total	N	Os	0	0
			7	6	1		
86	DJ	1	Total	N	Os	0	0
			7	6	1		
86	DM	1	Total	N	Os	0	0
			7	6	1		
86	DO	1	Total	N	Os	0	0
			7	6	1		
86	DP	1	Total	N	Os	0	0
			7	6	1		
86	DQ	1	Total	N	Os	0	0
			7	6	1		
86	DR	1	Total	N	Os	0	0
			7	6	1		
86	DV	1	Total	N	Os	0	0
			7	6	1		
86	Db	1	Total	N	Os	0	0
			7	6	1		
86	De	1	Total	N	Os	0	0
			7	6	1		
86	Df	1	Total	N	Os	0	0
			7	6	1		
86	Dg	1	Total	N	Os	0	0
			7	6	1		
86	Dh	1	Total	N	Os	0	0
			7	6	1		
86	Dj	1	Total	N	Os	0	0
			7	6	1		
86	Do	1	Total	N	Os	0	0
			7	6	1		

- Molecule 87 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	A2	171	Total 171	Mg 171	0	0
87	AB	2	Total 2	Mg 2	0	0
87	AC	1	Total 1	Mg 1	0	0
87	AE	1	Total 1	Mg 1	0	0
87	AI	2	Total 2	Mg 2	0	0
87	AJ	1	Total 1	Mg 1	0	0
87	AL	2	Total 2	Mg 2	0	0
87	AN	1	Total 1	Mg 1	0	0
87	AP	1	Total 1	Mg 1	0	0
87	AS	2	Total 2	Mg 2	0	0
87	AX	1	Total 1	Mg 1	0	0
87	Aa	1	Total 1	Mg 1	0	0
87	Ad	3	Total 3	Mg 3	0	0
87	Af	1	Total 1	Mg 1	0	0
87	A1	695	Total 695	Mg 695	0	0
87	A3	19	Total 19	Mg 19	0	0
87	A4	34	Total 34	Mg 34	0	0
87	BA	5	Total 5	Mg 5	0	0
87	BB	4	Total 4	Mg 4	0	0
87	BC	6	Total 6	Mg 6	0	0
87	BD	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	BE	1	Total 1	Mg 1	0	0
87	BF	2	Total 2	Mg 2	0	0
87	BG	1	Total 1	Mg 1	0	0
87	BI	4	Total 4	Mg 4	0	0
87	BJ	1	Total 1	Mg 1	0	0
87	BL	5	Total 5	Mg 5	0	0
87	BN	6	Total 6	Mg 6	0	0
87	BO	8	Total 8	Mg 8	0	0
87	BP	10	Total 10	Mg 10	0	0
87	BQ	4	Total 4	Mg 4	0	0
87	BR	4	Total 4	Mg 4	0	0
87	BS	2	Total 2	Mg 2	0	0
87	BT	1	Total 1	Mg 1	0	0
87	BV	5	Total 5	Mg 5	0	0
87	BY	2	Total 2	Mg 2	0	0
87	Ba	8	Total 8	Mg 8	0	0
87	Bd	1	Total 1	Mg 1	0	0
87	Be	2	Total 2	Mg 2	0	0
87	Bf	1	Total 1	Mg 1	0	0
87	Bg	1	Total 1	Mg 1	0	0
87	Bj	7	Total 7	Mg 7	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	Bl	1	Total 1	Mg 1	0	0
87	Bm	1	Total 1	Mg 1	0	0
87	Bo	3	Total 3	Mg 3	0	0
87	A6	239	Total 239	Mg 239	0	0
87	CB	1	Total 1	Mg 1	0	0
87	CE	1	Total 1	Mg 1	0	0
87	CF	2	Total 2	Mg 2	0	0
87	CG	2	Total 2	Mg 2	0	0
87	CI	2	Total 2	Mg 2	0	0
87	CL	3	Total 3	Mg 3	0	0
87	CP	1	Total 1	Mg 1	0	0
87	CQ	2	Total 2	Mg 2	0	0
87	CS	2	Total 2	Mg 2	0	0
87	CX	2	Total 2	Mg 2	0	0
87	CY	2	Total 2	Mg 2	0	0
87	CZ	1	Total 1	Mg 1	0	0
87	Ca	1	Total 1	Mg 1	0	0
87	Cd	1	Total 1	Mg 1	0	0
87	Ch	2	Total 2	Mg 2	0	0
87	A5	763	Total 763	Mg 763	0	0
87	A7	26	Total 26	Mg 26	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	A8	20	Total 20	Mg 20	0	0
87	DA	4	Total 4	Mg 4	0	0
87	DB	13	Total 13	Mg 13	0	0
87	DC	5	Total 5	Mg 5	0	0
87	DD	7	Total 7	Mg 7	0	0
87	DF	4	Total 4	Mg 4	0	0
87	DG	1	Total 1	Mg 1	0	0
87	DH	2	Total 2	Mg 2	0	0
87	DJ	2	Total 2	Mg 2	0	0
87	DL	1	Total 1	Mg 1	0	0
87	DM	2	Total 2	Mg 2	0	0
87	DN	1	Total 1	Mg 1	0	0
87	DO	8	Total 8	Mg 8	0	0
87	DP	7	Total 7	Mg 7	0	0
87	DQ	1	Total 1	Mg 1	0	0
87	DR	1	Total 1	Mg 1	0	0
87	DS	4	Total 4	Mg 4	0	0
87	DT	3	Total 3	Mg 3	0	0
87	DV	3	Total 3	Mg 3	0	0
87	DW	1	Total 1	Mg 1	0	0
87	DY	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	Da	4	Total 4	Mg 4	0	0
87	Db	1	Total 1	Mg 1	0	0
87	Dd	1	Total 1	Mg 1	0	0
87	De	2	Total 2	Mg 2	0	0
87	Df	4	Total 4	Mg 4	0	0
87	Dg	2	Total 2	Mg 2	0	0
87	Dj	3	Total 3	Mg 3	0	0
87	Di	1	Total 1	Mg 1	0	0
87	Dm	1	Total 1	Mg 1	0	0
87	Dn	1	Total 1	Mg 1	0	0
87	Do	1	Total 1	Mg 1	0	0
87	Dp	3	Total 3	Mg 3	0	0
87	Dq	1	Total 1	Mg 1	0	0

- Molecule 88 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	Aa	1	Total 1	Zn 1	0	0
88	Ab	1	Total 1	Zn 1	0	0
88	Ad	1	Total 1	Zn 1	0	0
88	Af	1	Total 1	Zn 1	0	0
88	Bj	1	Total 1	Zn 1	0	0
88	Bm	1	Total 1	Zn 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	Bo	1	Total 1	Zn 1	0	0
88	Bp	1	Total 1	Zn 1	0	0
88	Ca	1	Total 1	Zn 1	0	0
88	Cb	1	Total 1	Zn 1	0	0
88	Cd	1	Total 1	Zn 1	0	0
88	Cf	1	Total 1	Zn 1	0	0
88	Dj	1	Total 1	Zn 1	0	0
88	Dm	1	Total 1	Zn 1	0	0
88	Do	1	Total 1	Zn 1	0	0
88	Dp	1	Total 1	Zn 1	0	0

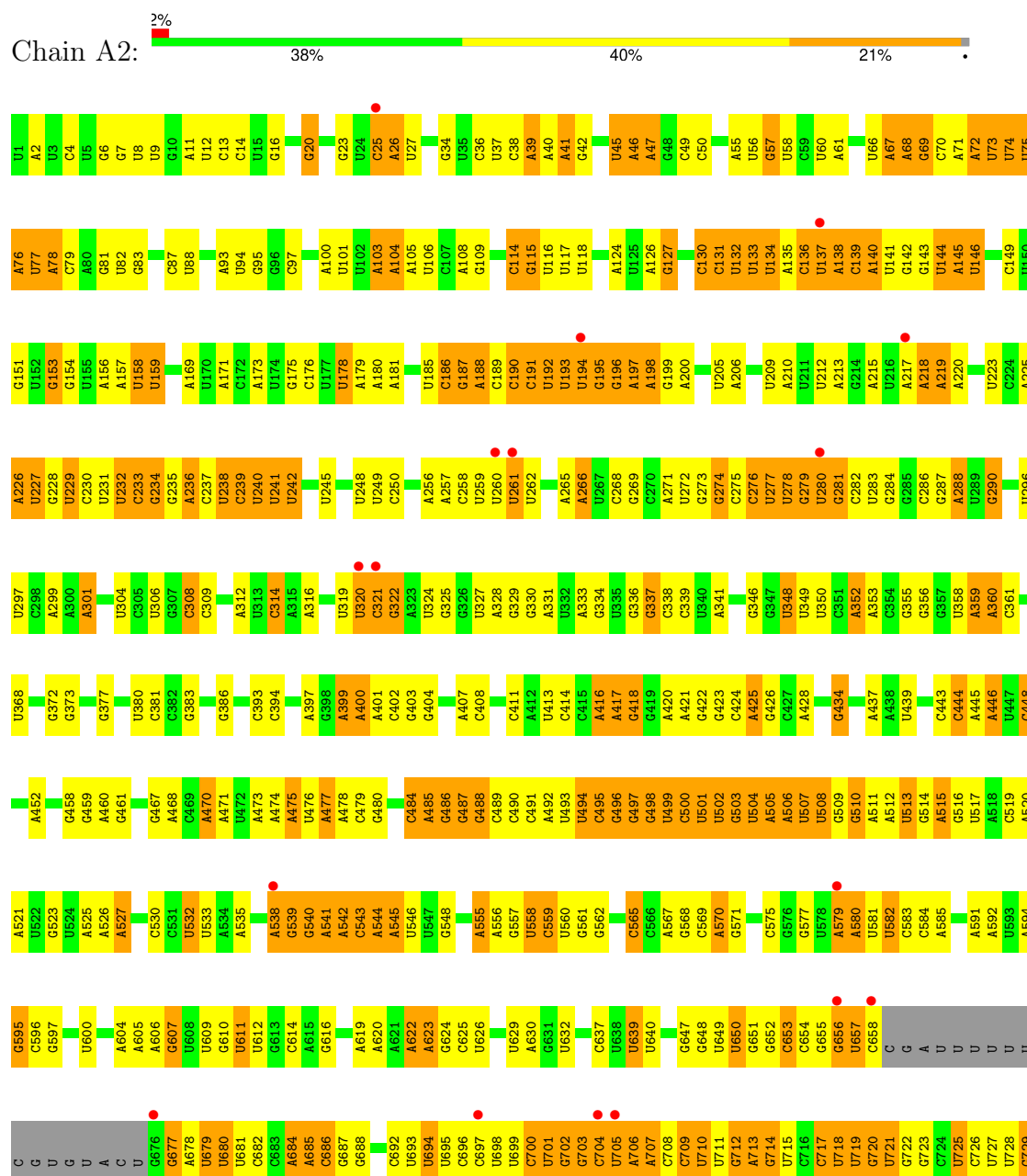
- Molecule 89 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
89	CI	1	Total 1	O 1	0	0
89	DB	1	Total 1	O 1	0	0

3 Residue-property plots

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

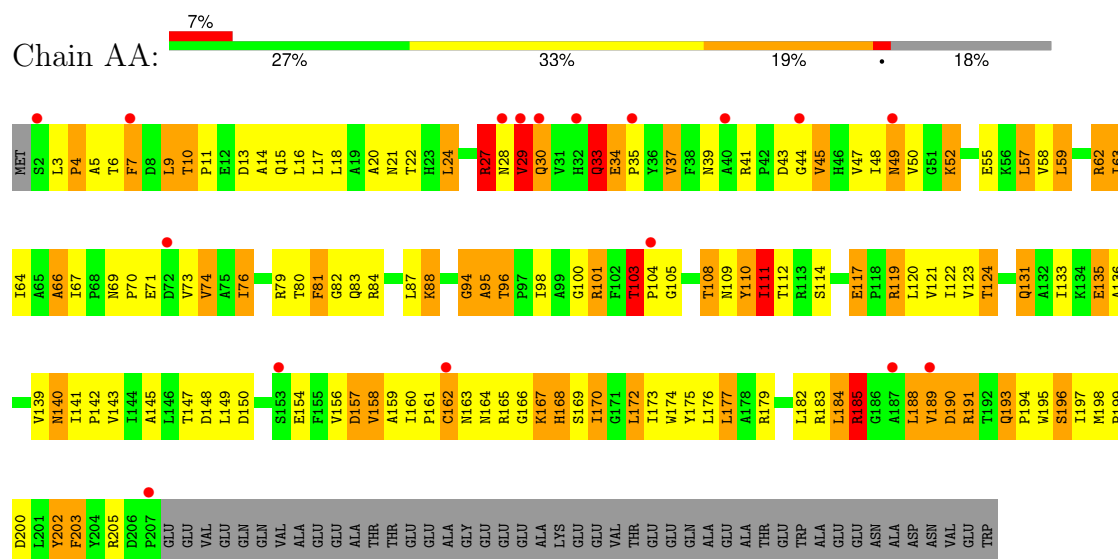
• Molecule 1: 18S RIBOSOMAL RNA

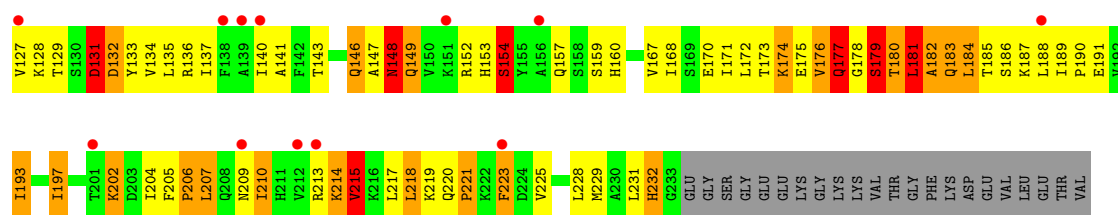


G1709	U1710	C1620	U1552	G1484	G1405	U1340	U1253	A1183	U1097	A1019	C934	A863	A796	G730
G1711	C1621	U1553	G1485	C1485	A1410	A1341	U1254	A1184	U1098	A1020	U935	U864	A797	C731
A1712	C1622	U1554	G1486	G1486	A1411	A1342	G1255	U1185	U1099	C1021	G936	A865	U799	G732
G1713	C1623	U1555	A1487	A1487	A1412	A1343	U1256	U1186	G1100	U937	G866	U800	U798	A733
G1714	C1624	U1556	G1488	G1488	G1413	A1344	U1257	U1187	G1101	A1022	G942	C801	G802	A734
G1715	C1625	U1557	U1489	U1489	U1414	A1345	U1258	U1188	G1102	A1023	C943	C802	C802	C735
G1716	U1558	C1490	U1490	C1490	U1415	U1346	U1259	U1189	U1103	C1028	A944	G868	G868	C736
G1717	A1559	U1491	A1559	U1491	U1416	A1347	U1260	U1190	U1104	U1029	G871	A737	A737	C737
U1630	A1492	A1492	A1492	A1492	G1416	G1349	G1267	A1191	G1111	A1030	G948	G872	U805	G738
A1631	U1560	A1560	A1560	A1560	A1417	U1350	G1268	A1192	G1112	U1031	C949	U873	A806	G739
A1635	U1561	U1561	U1561	U1561	G1418	U1351	U1269	G1193	G1113	C950	C950	A811	A811	A740
A1728	U1562	U1562	U1562	U1562	G1419	U1352	U1270	C1197	G1114	A951	A951	A812	A812	C741
A1729	U1563	U1563	U1563	U1563	G1420	U1353	U1271	G1198	G1115	A952	A952	A813	A813	U742
A1730	U1564	U1564	U1564	U1564	A1421	G1354	C1274	G1199	G1116	U1032	G949	A814	A814	U743
A1731	U1565	U1565	U1565	U1565	A1422	C1355	A1275	G1200	G1117	A1033	U959	G875	G875	U744
A1735	U1566	U1566	U1566	U1566	A1423	G1356	A1276	G1201	G1118	U1034	U960	G876	G876	U745
A1736	U1567	U1567	U1567	U1567	A1424	G1357	A1277	G1202	G1119	U1035	U961	G877	G877	U746
A1737	U1568	U1568	U1568	U1568	A1425	G1358	G1278	G1203	G1120	U1036	U962	A817	A817	U747
A1738	U1569	U1569	U1569	U1569	A1426	G1359	G1279	A1204	G1121	U1037	U963	A818	A818	C747
A1739	U1570	U1570	U1570	U1570	A1427	G1360	G1280	A1205	G1122	U1038	U964	A819	A819	U748
A1740	U1571	U1571	U1571	U1571	A1428	U1361	C1281	C1206	G1123	U1039	U965	U820	U820	U749
A1741	U1572	U1572	U1572	U1572	G1429	U1362	U1282	G1207	G1124	U1040	U966	U821	U821	U750
A1742	U1573	U1573	U1573	U1573	U1430	G1363	U1283	A1208	G1125	U1041	C967	U822	U822	A753
A1743	U1574	U1574	U1574	U1574	A1431	G1364	U1284	G1209	G1126	U1042	C968	U823	U823	A754
A1744	U1575	U1575	U1575	U1575	U1432	G1365	U1285	C1210	G1127	U1043	C969	C824	C824	A755
A1745	U1576	U1576	U1576	U1576	U1433	U1366	U1286	G1211	G1128	U1044	C970	A827	A827	A756
A1746	U1577	U1577	U1577	U1577	U1434	U1367	U1287	C1212	G1129	U1045	A971	A828	A828	A757
A1747	U1578	U1578	U1578	U1578	U1435	G1368	U1290	G1213	G1130	U1046	C975	U832	U832	U758
A1748	U1579	U1579	U1579	U1579	U1436	U1369	G1291	G1214	G1131	U1047	C976	U833	U833	U759
A1749	U1580	U1580	U1580	U1580	U1437	U1370	U1292	G1215	G1132	U1048	A988	U834	U834	G763
A1750	U1581	U1581	U1581	U1581	U1438	U1371	U1293	C1216	G1133	U1049	U989	U835	U835	U764
A1751	U1582	U1582	U1582	U1582	U1439	U1372	U1294	G1217	G1134	U1050	U990	U836	U836	U765
A1752	U1583	U1583	U1583	U1583	U1440	U1373	U1295	G1218	G1135	U1051	U991	U837	U837	U766
A1753	U1584	U1584	U1584	U1584	U1441	U1374	U1296	G1219	G1136	U1052	U992	U838	U838	U767
A1754	U1585	U1585	U1585	U1585	U1442	U1375	U1301	C1220	G1137	U1053	U993	U839	U839	C768
A1755	U1586	U1586	U1586	U1586	U1443	U1376	U1302	G1221	G1138	U1054	U994	U840	U840	A771
A1756	U1587	U1587	U1587	U1587	U1444	U1377	U1303	C1222	G1139	U1055	U995	U841	U841	G772
A1757	U1588	U1588	U1588	U1588	U1445	U1378	U1304	G1223	G1140	U1056	U996	U842	U842	G773
A1758	U1589	U1589	U1589	U1589	U1446	U1379	U1305	G1224	G1141	U1057	U997	U843	U843	G774
A1759	U1590	U1590	U1590	U1590	U1447	U1380	U1306	G1225	G1142	U1058	U998	U844	U844	G775
A1760	U1591	U1591	U1591	U1591	U1448	U1381	U1307	C1226	G1143	U1059	U999	U845	U845	G776
A1761	U1592	U1592	U1592	U1592	U1449	U1382	U1308	G1227	G1144	U1060	U1000	U846	U846	C777
A1762	U1593	U1593	U1593	U1593	U1450	U1383	U1309	G1228	G1145	U1061	U1001	U847	U847	G778
A1763	U1594	U1594	U1594	U1594	C1451	U1384	U1310	G1229	G1146	U1062	U1002	U848	U848	U779
A1764	U1595	U1595	U1595	U1595	U1452	U1385	U1311	G1230	G1147	U1063	U1003	U849	U849	A780
A1765	U1596	U1596	U1596	U1596	U1453	U1386	U1312	G1231	G1148	U1064	U1004	U850	U850	U781
A1766	U1597	U1597	U1597	U1597	U1454	U1387	U1313	G1232	G1149	U1065	U1005	U851	U851	U782
A1767	U1598	U1598	U1598	U1598	U1455	U1388	U1314	G1233	G1150	U1066	U1006	U852	U852	G783
A1768	U1599	U1599	U1599	U1599	U1456	U1389	U1315	G1234	G1151	U1067	U1007	U853	U853	C784
A1769	U1600	U1600	U1600	U1600	U1457	U1390	U1316	G1235	G1152	U1068	U1008	U854	U854	U785
A1770	U1601	U1601	U1601	U1601	U1458	U1391	U1317	G1236	G1153	U1069	U1009	U855	U855	G786
A1771	U1602	U1602	U1602	U1602	U1459	U1392	U1318	G1237	G1154	U1070	U1010	U856	U856	G787
A1772	U1603	U1603	U1603	U1603	U1460	U1393	U1319	G1238	G1155	U1071	U1011	U857	U857	A788
A1773	U1604	U1604	U1604	U1604	U1461	U1394	U1320	G1239	G1156	U1072	U1012	U858	U858	A789
A1774	U1605	U1605	U1605	U1605	U1462	U1395	U1321	G1240	G1157	U1073	U1013	U859	U859	U793
A1775	U1606	U1606	U1606	U1606	U1463	U1396	U1322	G1241	G1158	U1074	U1014	U860	U860	U794
A1776	U1607	U1607	U1607	U1607	U1464	U1397	U1323	G1242	G1159	U1075	U1015	U861	U861	U795
A1777	U1608	U1608	U1608	U1608	U1465	U1398	U1324	G1243	G1160	U1076	U1016	U862	U862	
A1778	U1609	U1609	U1609	U1609	U1466	U1399	U1325	G1244	G1161	U1077	U1017	U863	U863	
A1779	U1610	U1610	U1610	U1610	U1467	U1400	U1326	G1245	G1162	U1078	U1018	U864	U864	
A1780	U1611	U1611	U1611	U1611	U1468	U1401	U1327	G1246	G1163	U1079	U1019	U865	U865	
A1781	U1612	U1612	U1612	U1612	U1469	U1402	U1328	G1247	G1164	U1080	U1020	U866	U866	
A1782	U1613	U1613	U1613	U1613	U1470	U1403	U1329	G1248	G1165	U1081	U1021	U867	U867	
A1783	U1614	U1614	U1614	U1614	U1471	U1404	U1330	G1249	G1166	U1082	U1022	U868	U868	
A1784	U1615	U1615	U1615	U1615	U1472	U1405	U1331	U1250	G1167	U1083	U1023	U869	U869	
A1785	U1616	U1616	U1616	U1616	U1473	U1406	U1332	U1251	G1168	U1084	U1024	U870	U870	
A1786	U1617	U1617	U1617	U1617	U1474	U1407	U1333	U1252	G1169	U1085	U1025	U871	U871	
A1787	U1618	U1618	U1618	U1618	U1475	U1408	U1334	U1253	G1170	U1086	U1026	U872	U872	
A1788	U1619	U1619	U1619	U1619	U1476	U1409	U1335	U1254	G1171	U1087	U1027	U873	U873	
A1789	U1620	U1620	U1620	U1620	U1477	U1410	U1336	U1255	G1172	U1088	U1028	U874	U874	
A1790	U1621	U1621	U1621	U1621	U1478	U1411	U1337	U1256	G1173	U1089	U1029	U875	U875	
A1791	U1622	U1622	U1622	U1622	U1479	U1412	U1338	U1257	G1174	U1090	U1030	U876	U876	
A1792	U1623	U1623	U1623	U1623	U1480	U1413	U1339	U1258	G1175	U1091	U1031	U877	U877	
A1793	U1624	U1624	U1624	U1624	U1481	U1414	U1340	U1259	G1176	U1092	U1032	U878	U878	
A1794	U1625	U1625	U1625	U1625	U1482	U1415	U1341	U1260	G1177	U1093	U1033	U879	U879	
A1795	U1626	U1626	U1626	U1626	U1483	U1416	U1342	U1261	G1178	U1094	U1034	U880	U880	
A1796	U1627	U1627	U1627	U1627	U1484	U1417	U1343	U1262	G1179	U1095	U1035	U881	U881	
A1797	U1628	U1628	U1628	U1628	U1485	U1418	U1344	U1263	G1180	U1096	U1036	U882	U882	
A1798	U1629	U1629	U1629	U1629	U1486	U1419	U1345	U1264	G1181	U1097	U1037	U883	U883	
A1799	U1630	U1630	U1630	U1630	U1487	U1420	U1346	U1265	G1182	U1098	U1038	U884	U884	
A1800	U1631	U1631	U1631	U1631	U1488	U1421	U1347	U1266	G1183	U1099	U1039	U885	U885	
A1801	U1632	U1632	U1632	U1632	U1489	U1422	U1348	U1267	G1184	U1100	U1040	U886	U886	
A1802	U1633	U1633	U1633	U1633	U1490	U1423	U1349	U1268	G1185	U1101	U1041	U887	U887	
A1803	U1634	U1634	U1634	U1634	U1491	U1424	U1350	U1269	G1186	U1102	U1042	U888	U888	
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A1805														

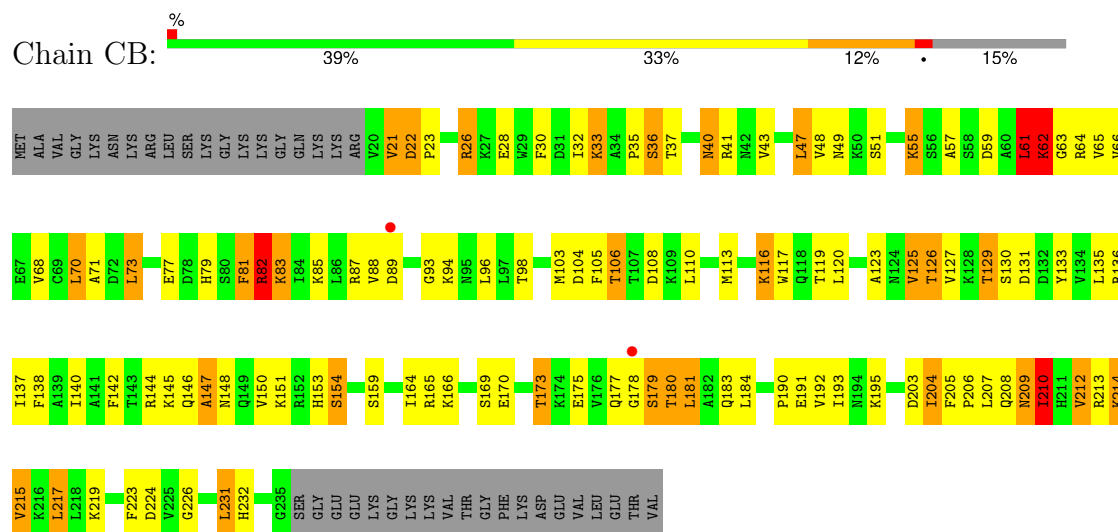


• Molecule 2: 40S ribosomal protein S0-A

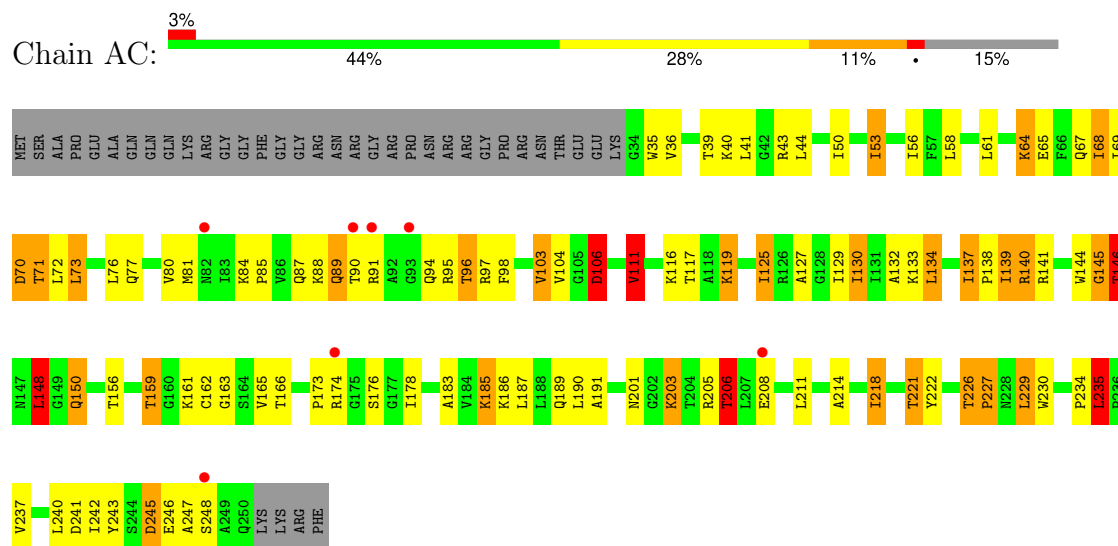




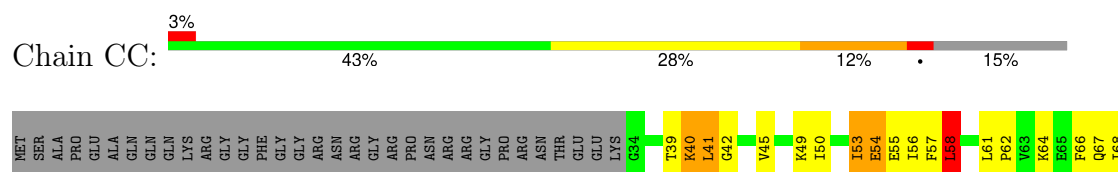
• Molecule 3: 40S ribosomal protein S1-A

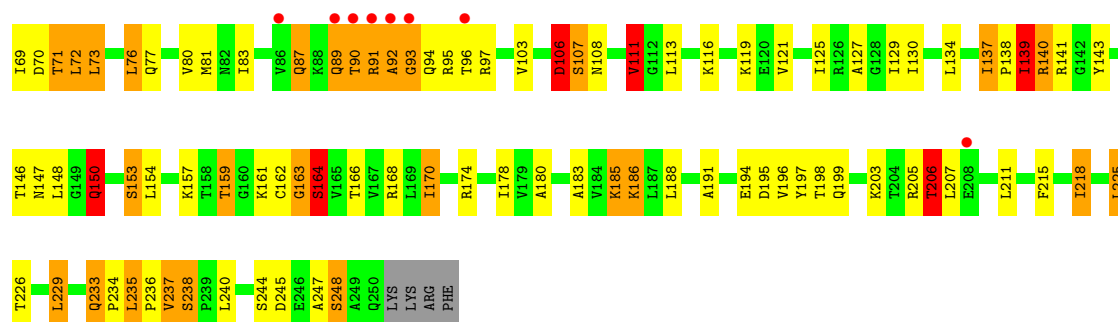


• Molecule 4: 40S ribosomal protein S2

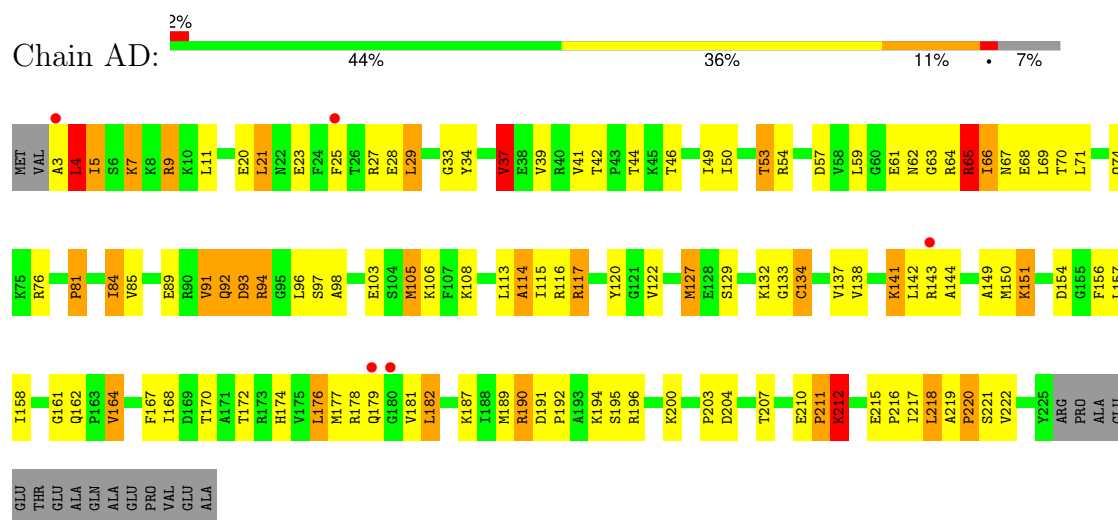


• Molecule 4: 40S ribosomal protein S2

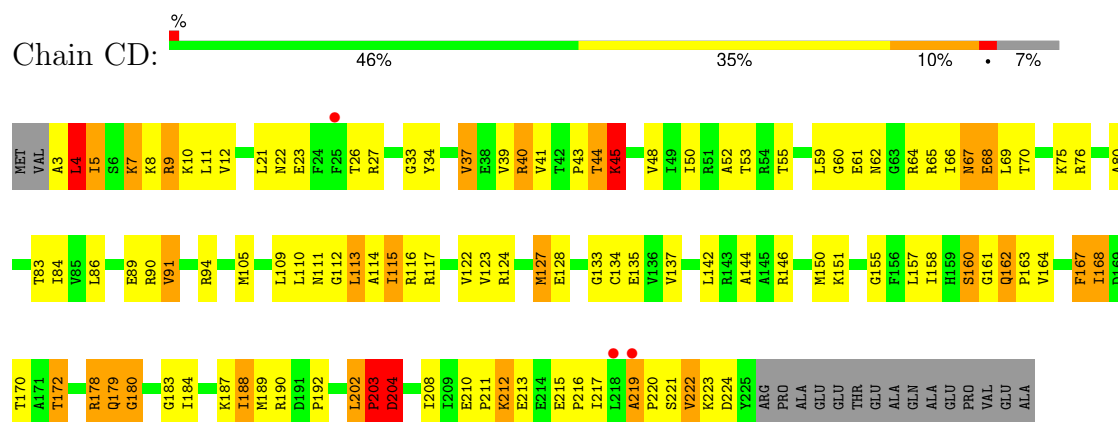




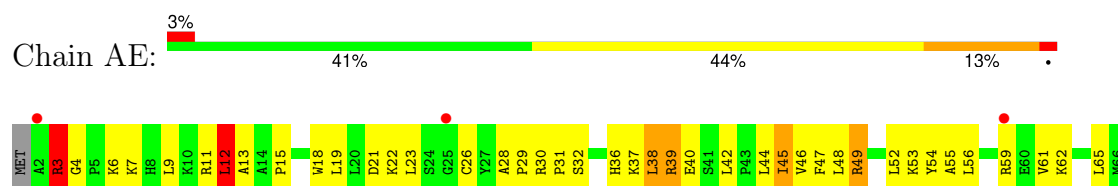
• Molecule 5: 40S ribosomal protein S3

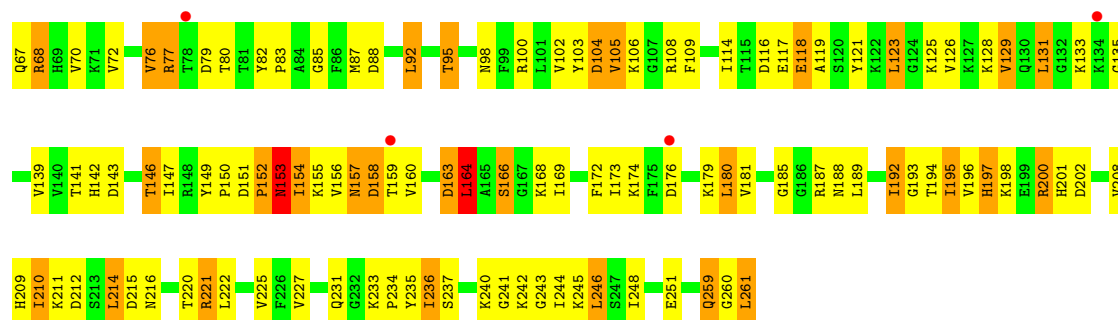


• Molecule 5: 40S ribosomal protein S3

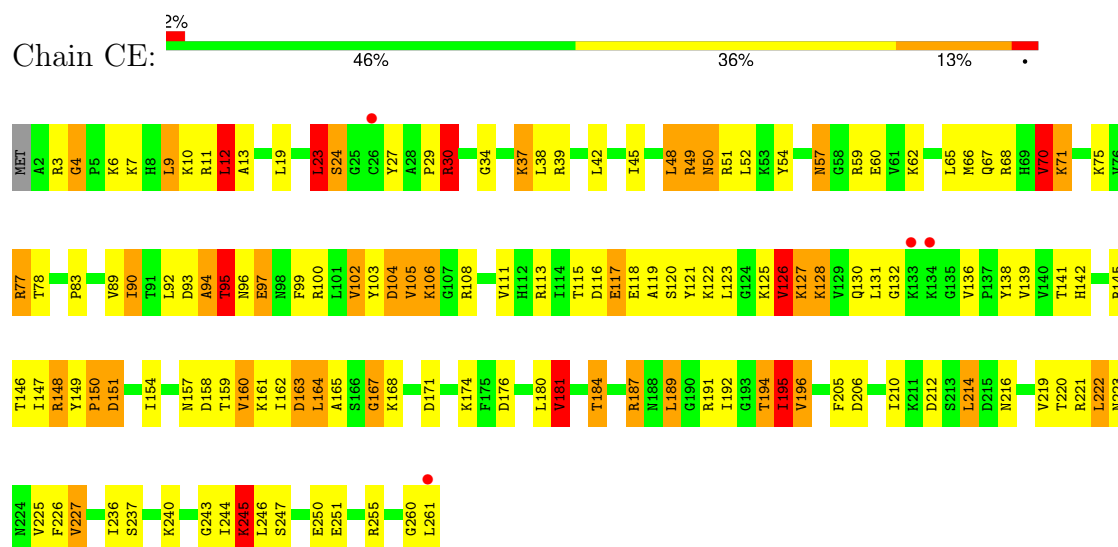


• Molecule 6: 40S ribosomal protein S4-A

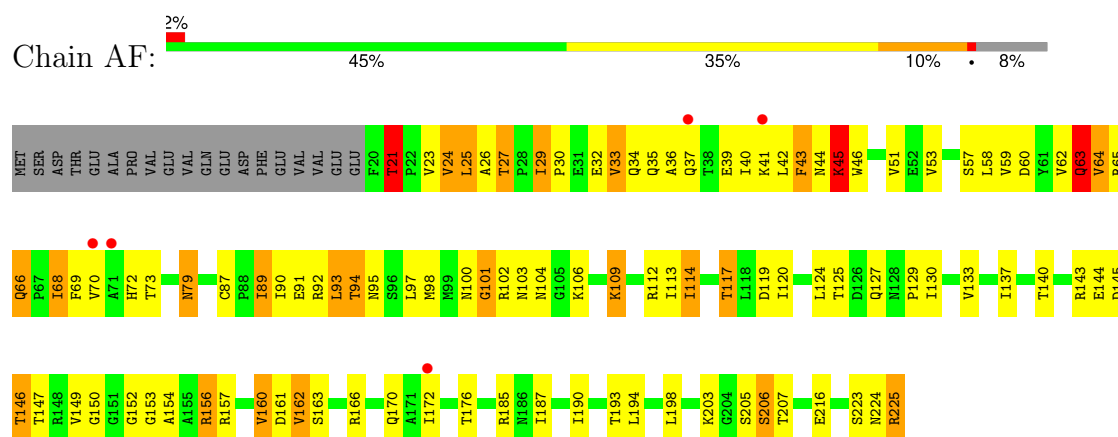




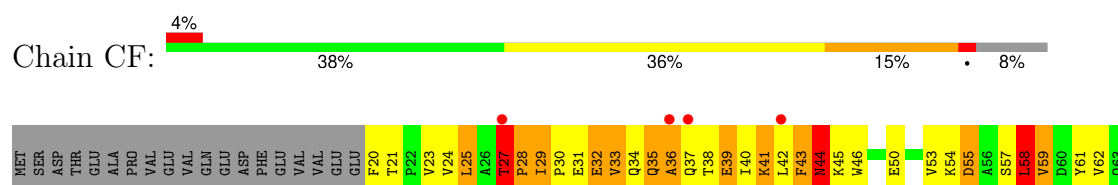
• Molecule 6: 40S ribosomal protein S4-A

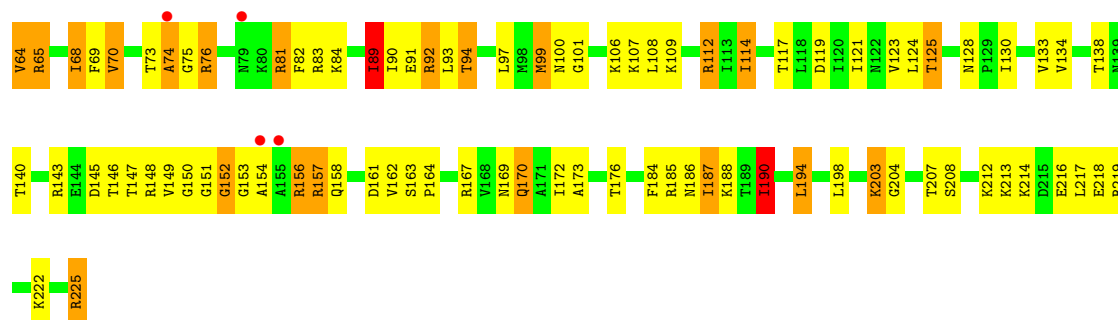


• Molecule 7: 40S ribosomal protein S5

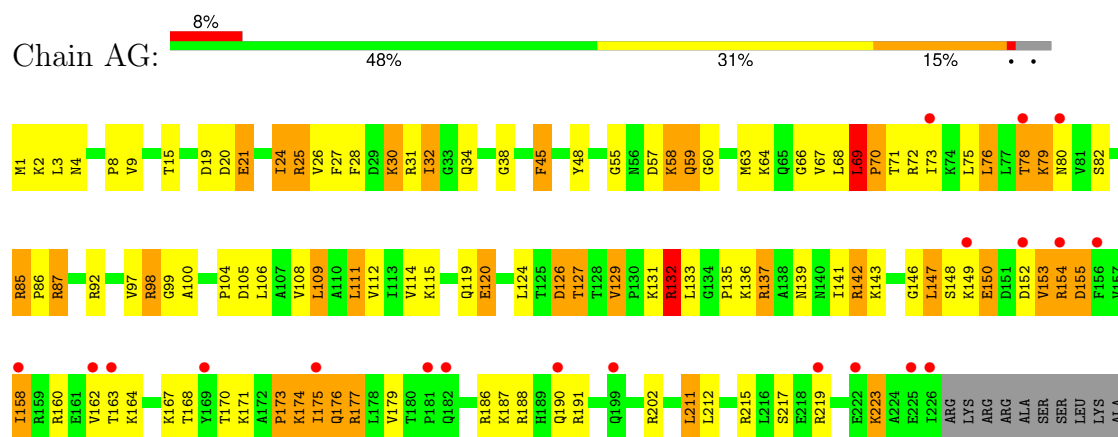


• Molecule 7: 40S ribosomal protein S5

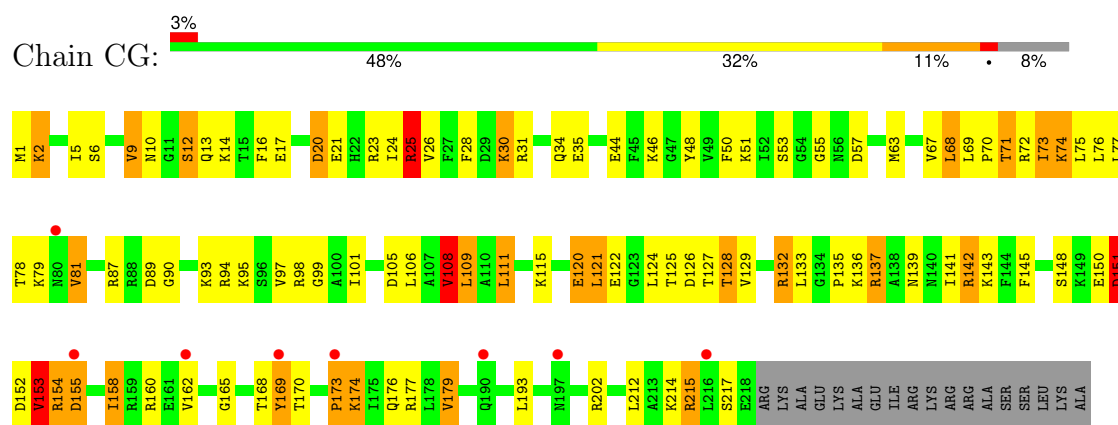




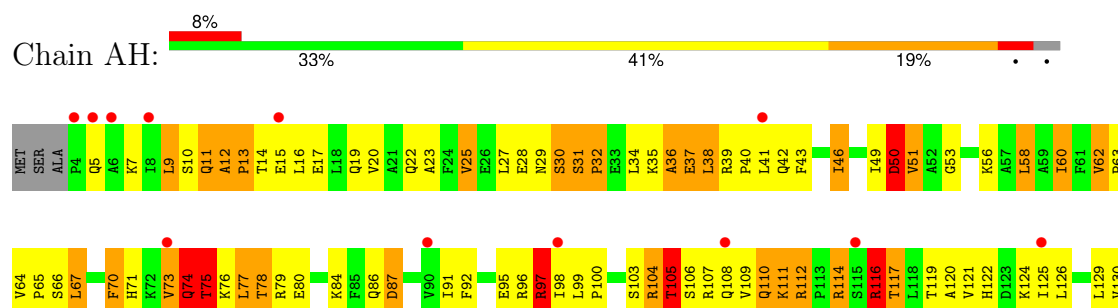
• Molecule 8: 40S ribosomal protein S6-A



• Molecule 8: 40S ribosomal protein S6-A

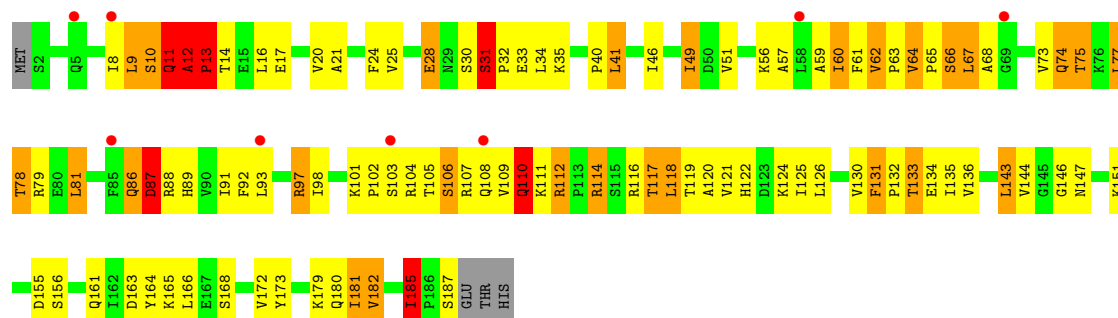
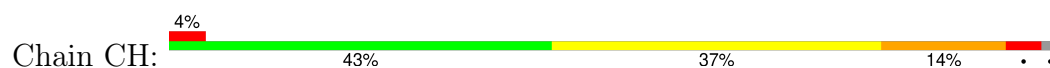


• Molecule 9: 40S ribosomal protein S7-A

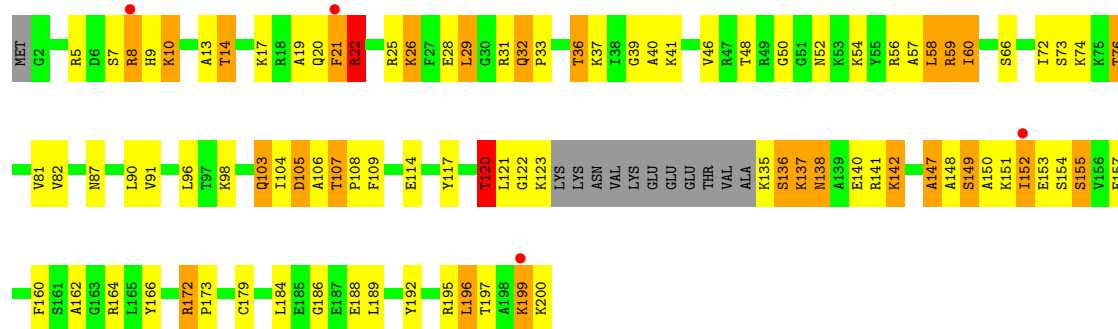




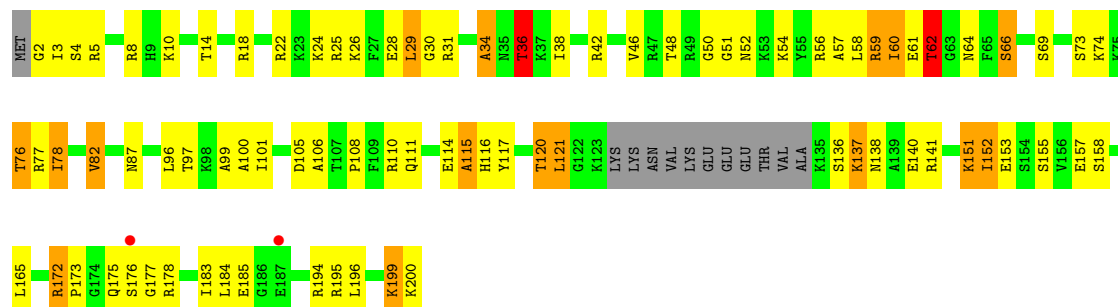
- Molecule 9: 40S ribosomal protein S7-A



- Molecule 10: 40S ribosomal protein S8-A

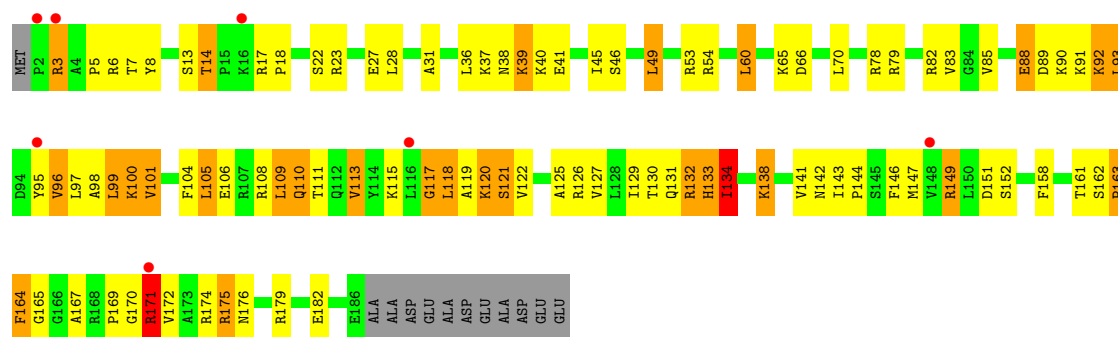


- Molecule 10: 40S ribosomal protein S8-A

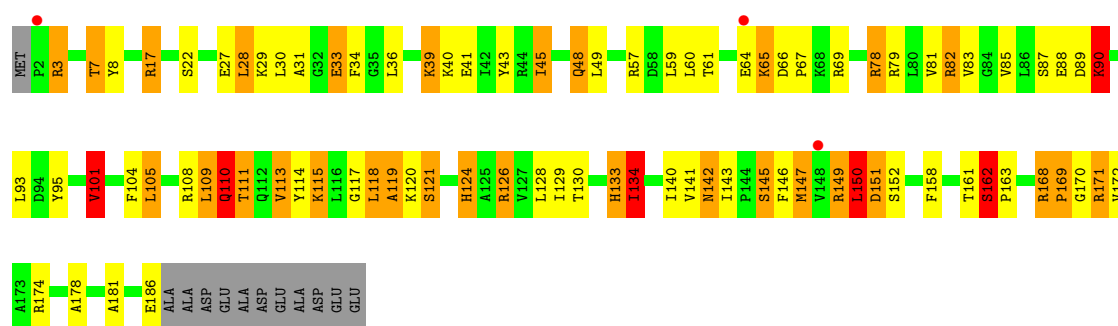


- Molecule 11: 40S ribosomal protein S9-A

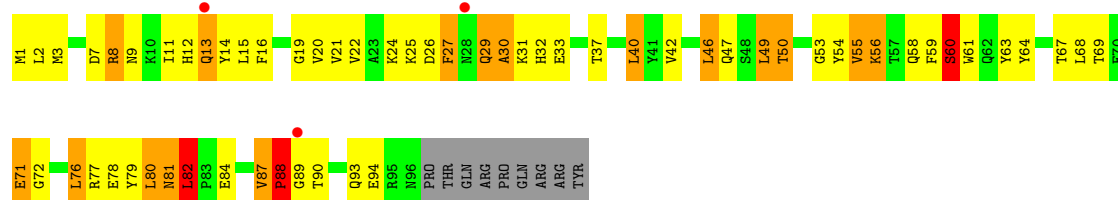




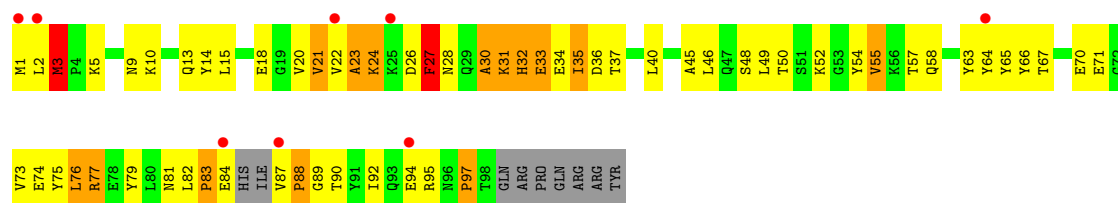
• Molecule 11: 40S ribosomal protein S9-A



• Molecule 12: 40S ribosomal protein S10-A

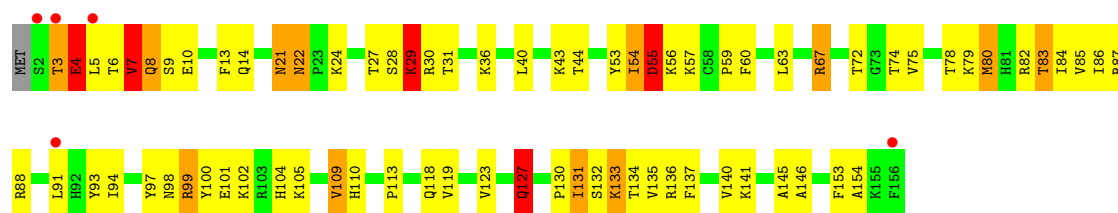


• Molecule 12: 40S ribosomal protein S10-A

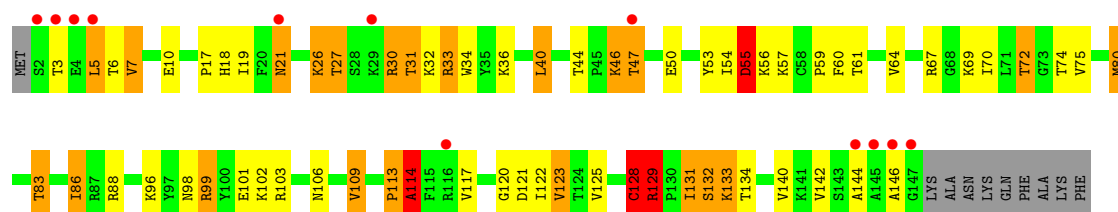


• Molecule 13: 40S ribosomal protein S11-A

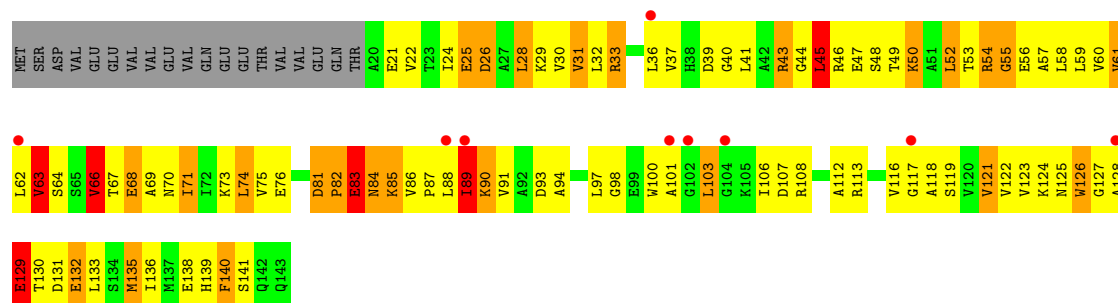
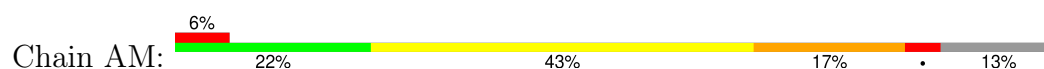




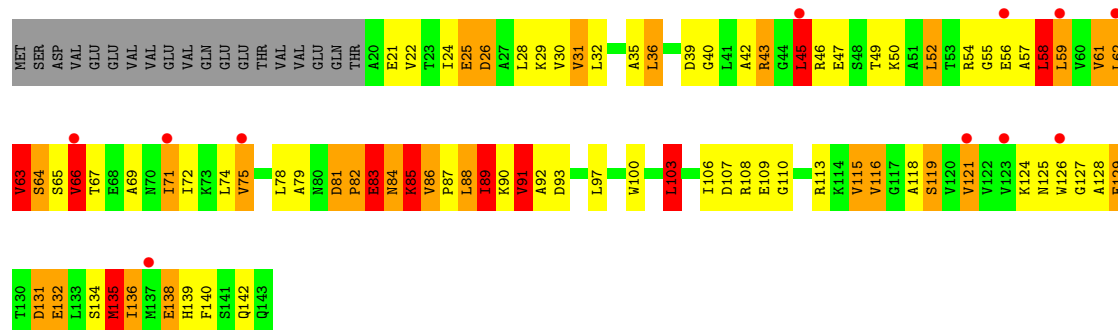
• Molecule 13: 40S ribosomal protein S11-A



• Molecule 14: 40S ribosomal protein S12

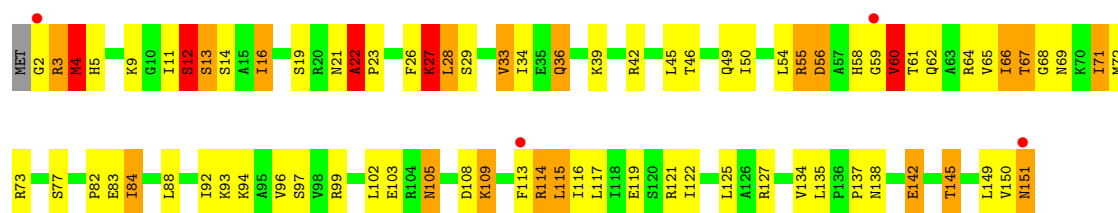


• Molecule 14: 40S ribosomal protein S12

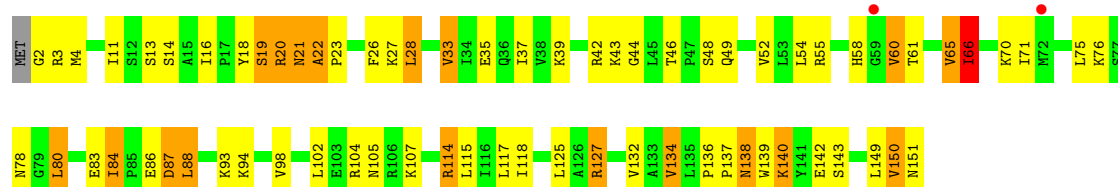


• Molecule 15: 40S ribosomal protein S13

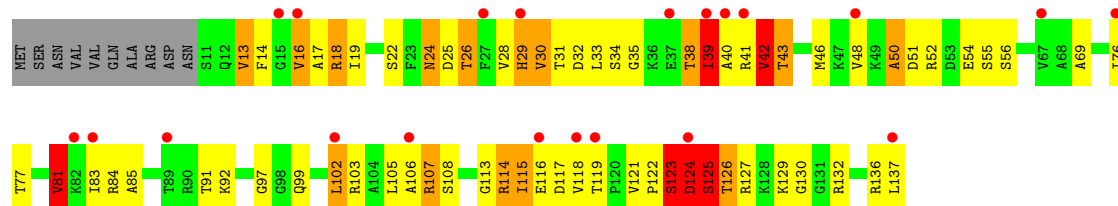
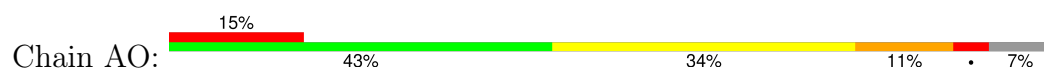




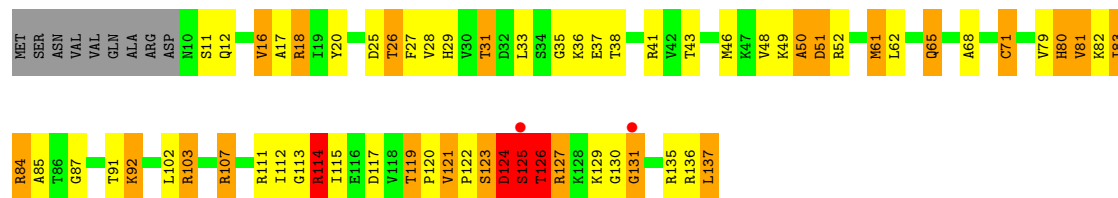
• Molecule 15: 40S ribosomal protein S13



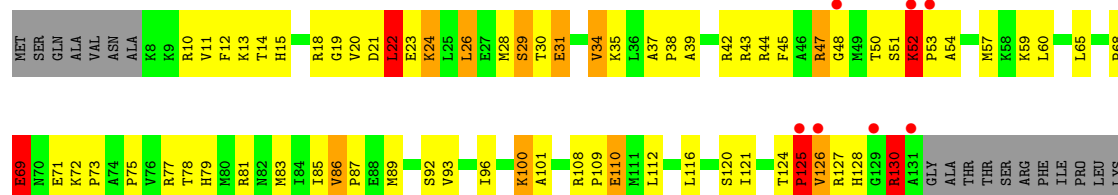
• Molecule 16: 40S ribosomal protein S14-A



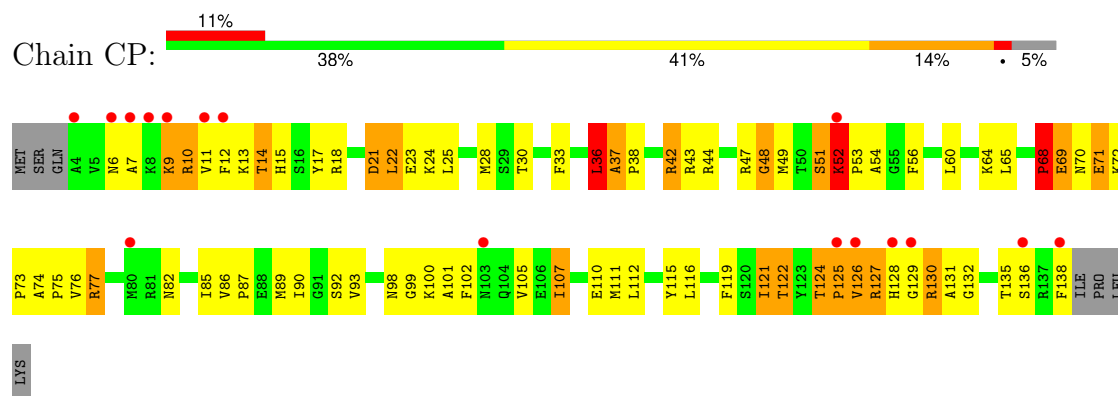
• Molecule 16: 40S ribosomal protein S14-A



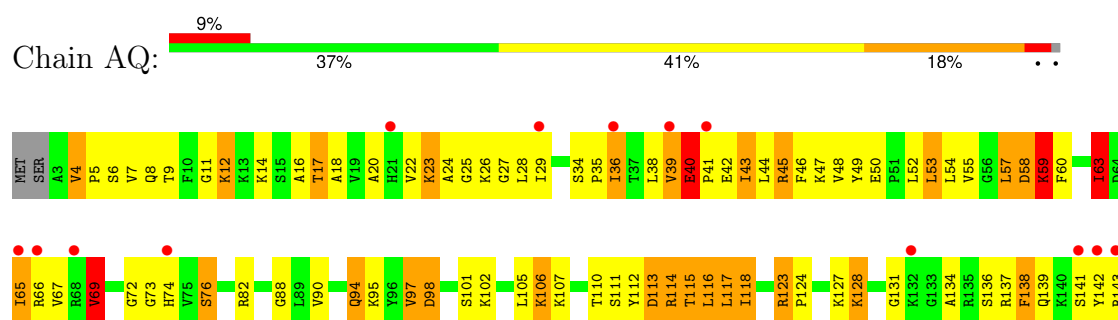
• Molecule 17: 40S ribosomal protein S15



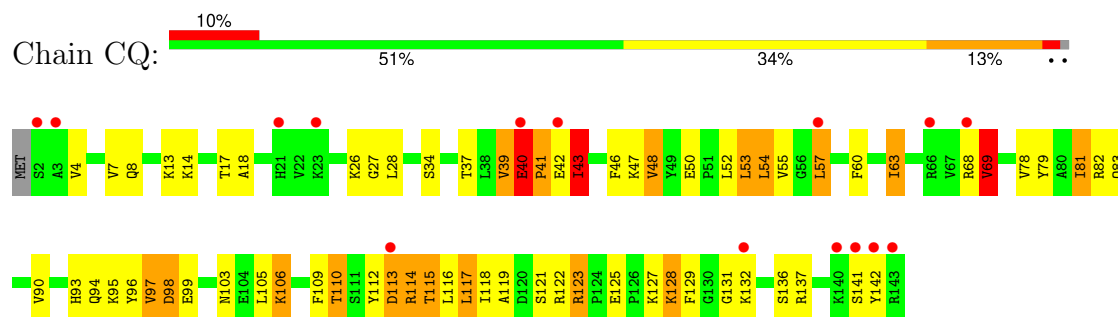
- Molecule 17: 40S ribosomal protein S15



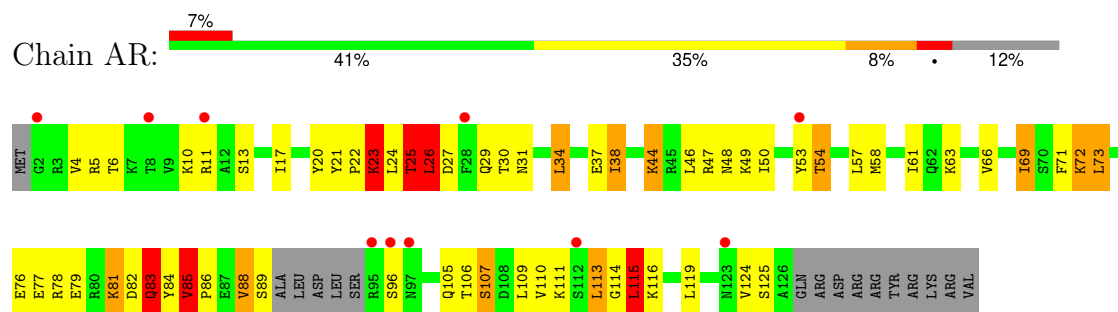
- Molecule 18: 40S ribosomal protein S16-A



- Molecule 18: 40S ribosomal protein S16-A

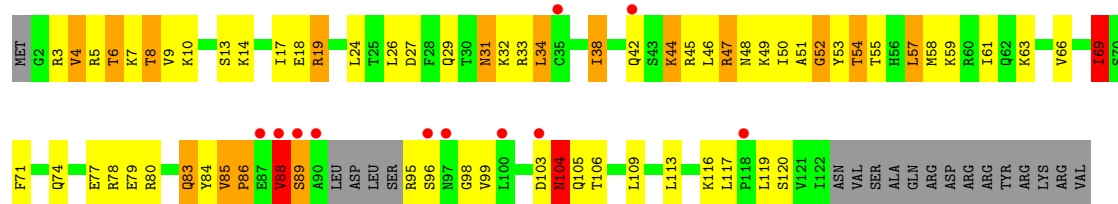


- Molecule 19: 40S ribosomal protein S17-A

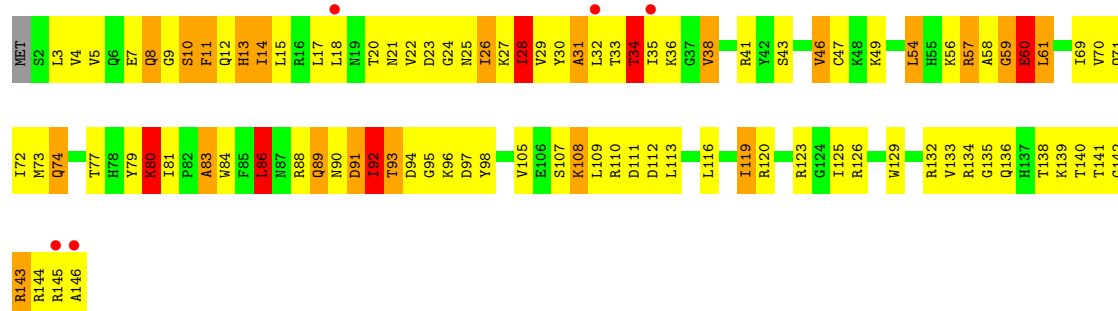


- Molecule 19: 40S ribosomal protein S17-A

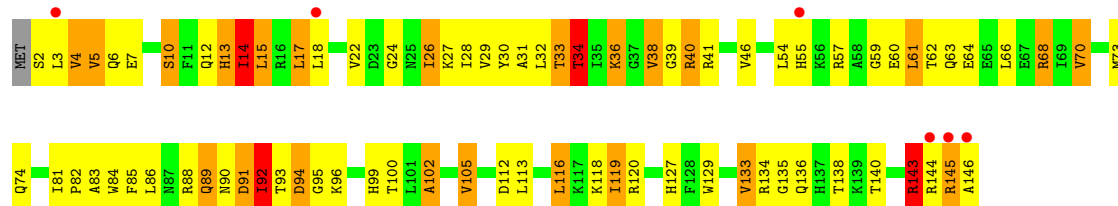
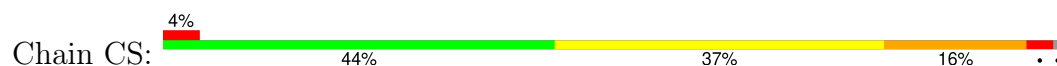




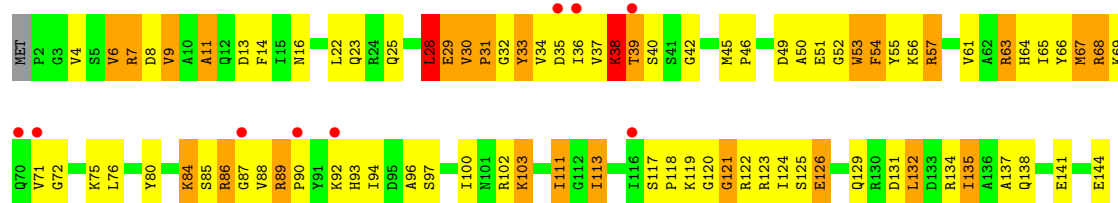
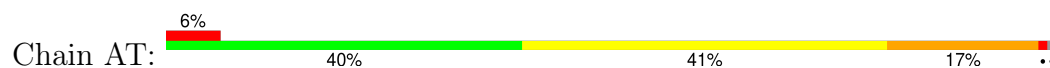
• Molecule 20: 40S ribosomal protein S18-A



• Molecule 20: 40S ribosomal protein S18-A



• Molecule 21: 40S ribosomal protein S19-A

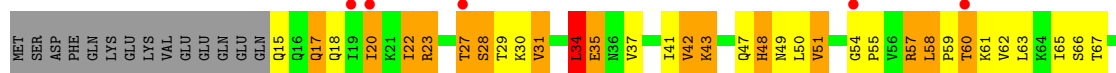


• Molecule 21: 40S ribosomal protein S19-A

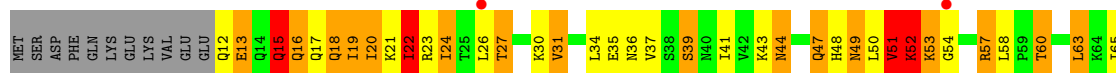
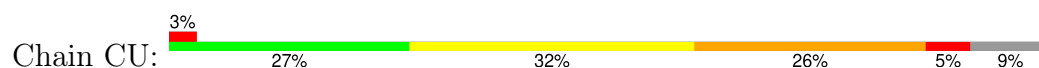




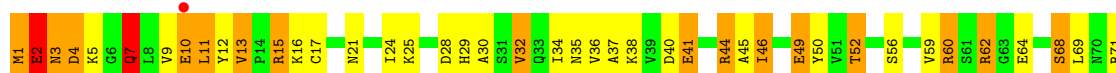
- Molecule 22: 40S ribosomal protein S20



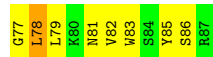
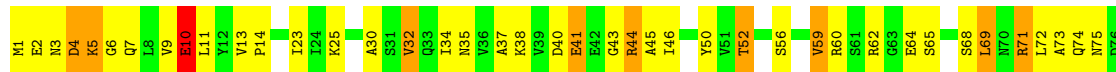
- Molecule 22: 40S ribosomal protein S20



- Molecule 23: 40S ribosomal protein S21-A

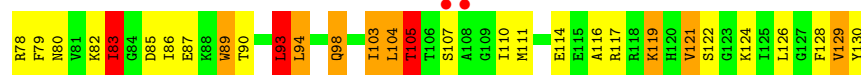


- Molecule 23: 40S ribosomal protein S21-A

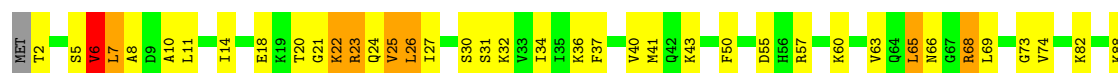


- Molecule 24: 40S ribosomal protein S22-A

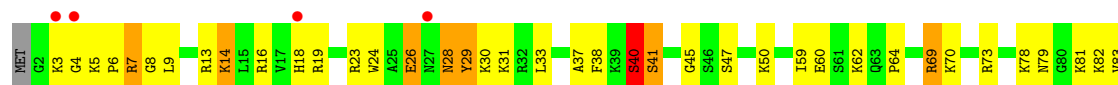




• Molecule 24: 40S ribosomal protein S22-A



• Molecule 25: 40S ribosomal protein S23-A



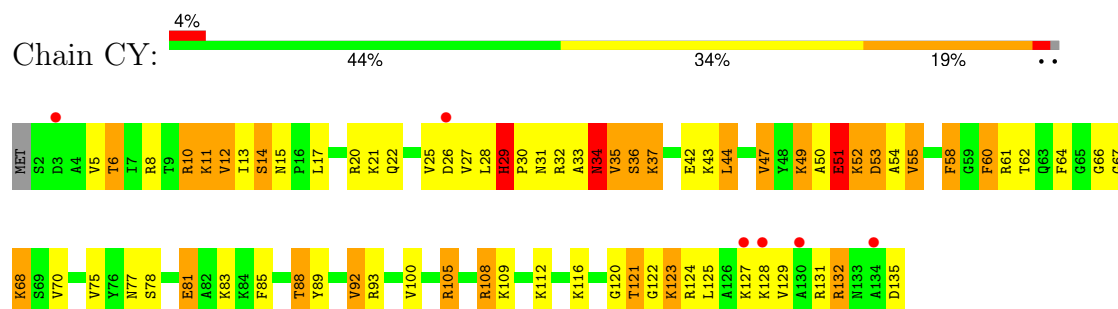
• Molecule 25: 40S ribosomal protein S23-A



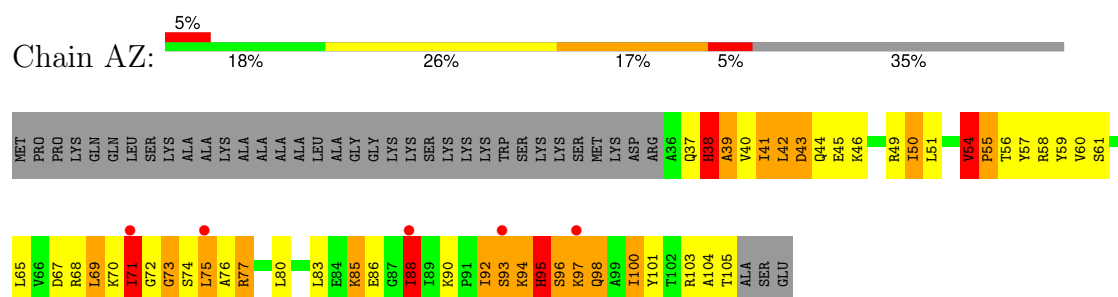
• Molecule 26: 40S ribosomal protein S24-A



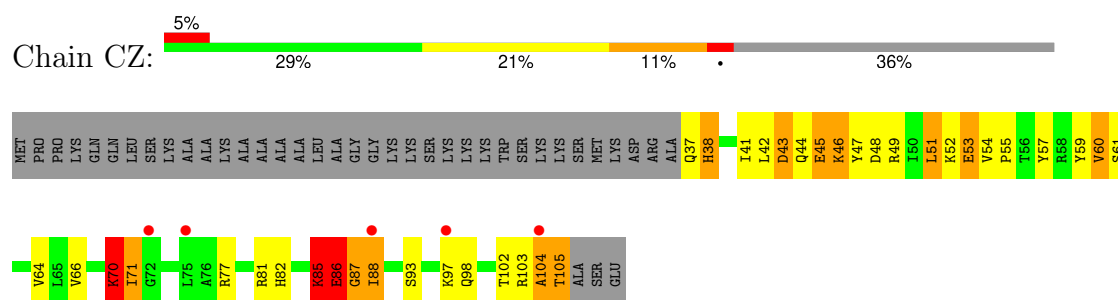
- Molecule 26: 40S ribosomal protein S24-A



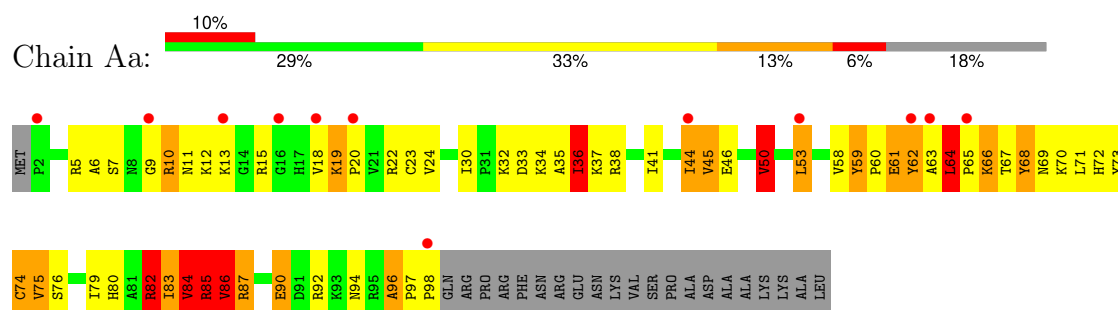
- Molecule 27: 40S ribosomal protein S25-A



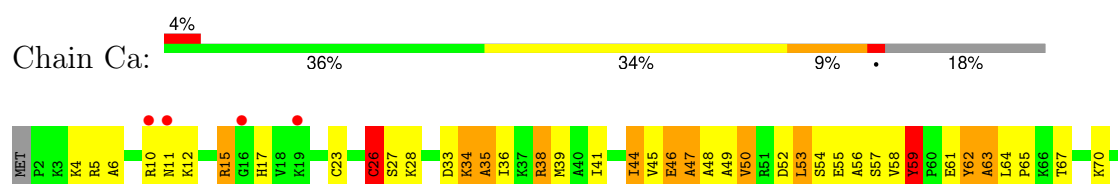
- Molecule 27: 40S ribosomal protein S25-A

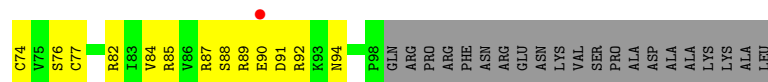


- Molecule 28: 40S ribosomal protein S26-A



- Molecule 28: 40S ribosomal protein S26-A

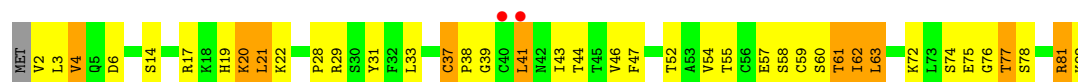




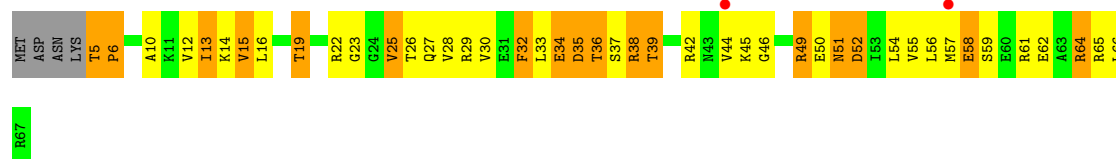
- Molecule 29: 40S ribosomal protein S27-A



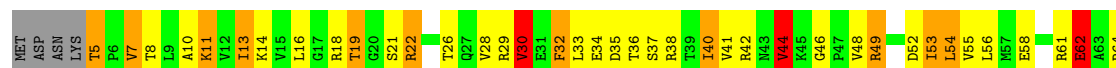
- Molecule 29: 40S ribosomal protein S27-A



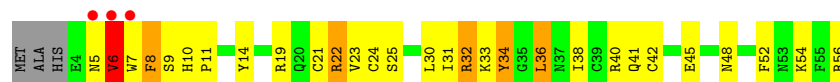
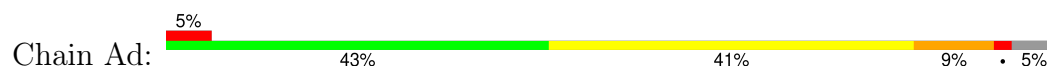
- Molecule 30: 40S ribosomal protein S28-A



- Molecule 30: 40S ribosomal protein S28-A

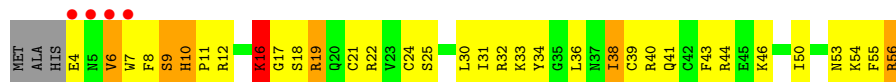


- Molecule 31: 40S ribosomal protein S29-A



- Molecule 31: 40S ribosomal protein S29-A

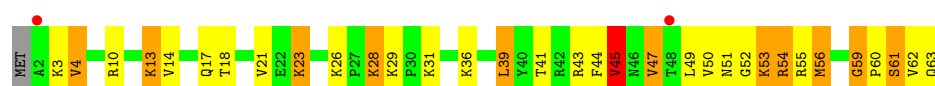




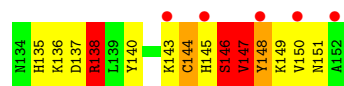
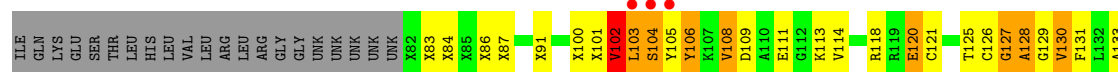
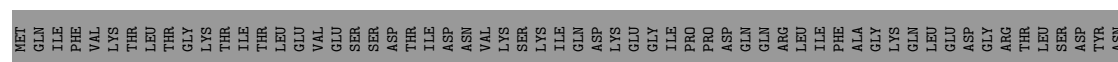
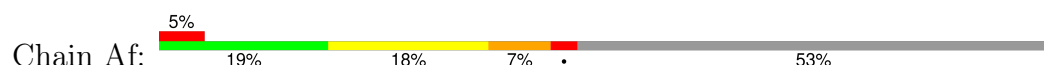
- Molecule 32: 40S ribosomal protein S30-A



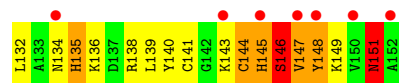
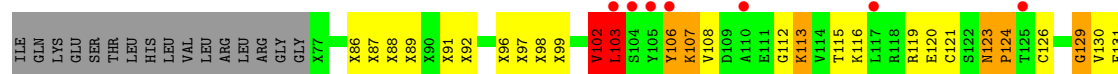
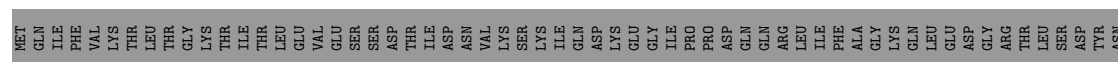
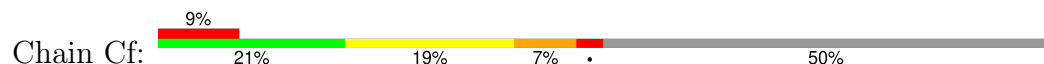
- Molecule 32: 40S ribosomal protein S30-A



- Molecule 33: 40S ribosomal protein S31

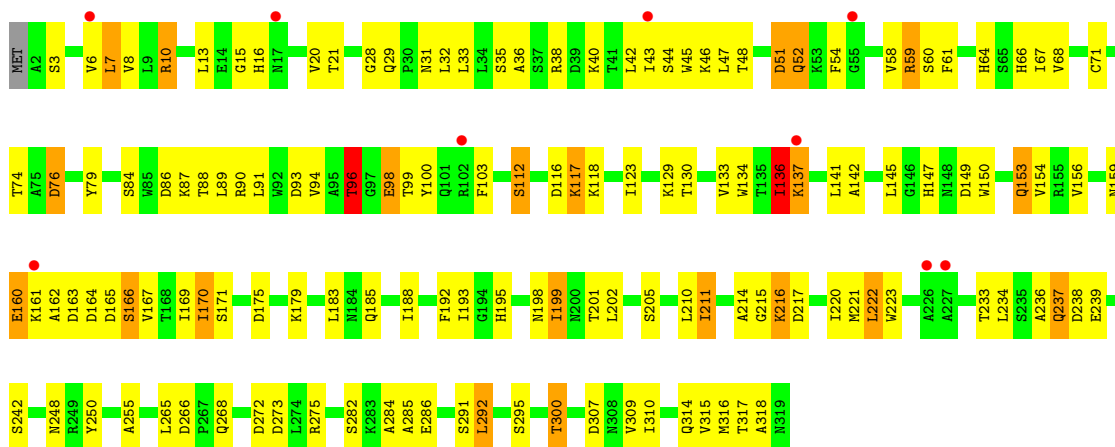


- Molecule 33: 40S ribosomal protein S31

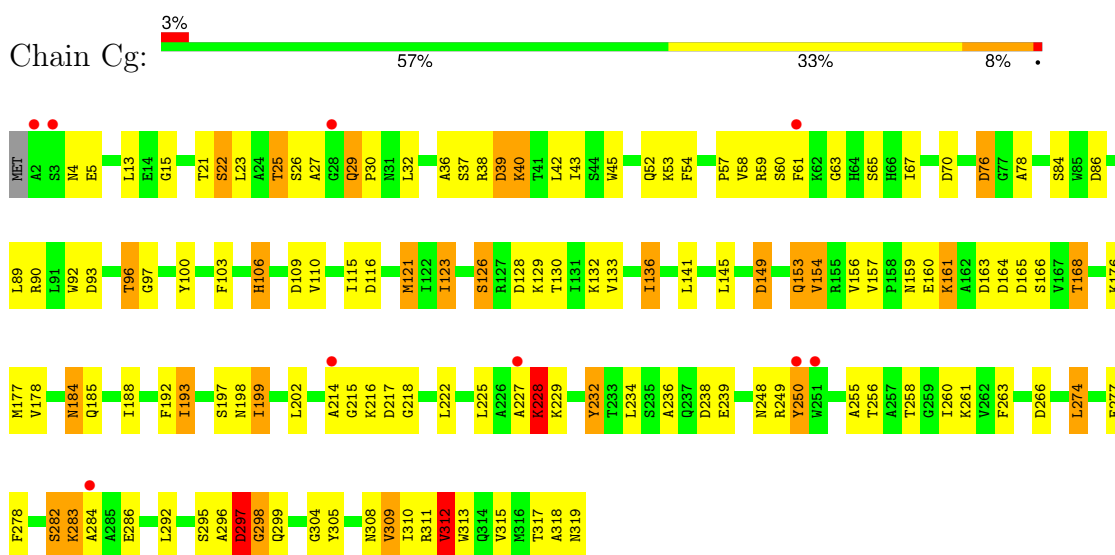


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein (ASC1, RACK1)

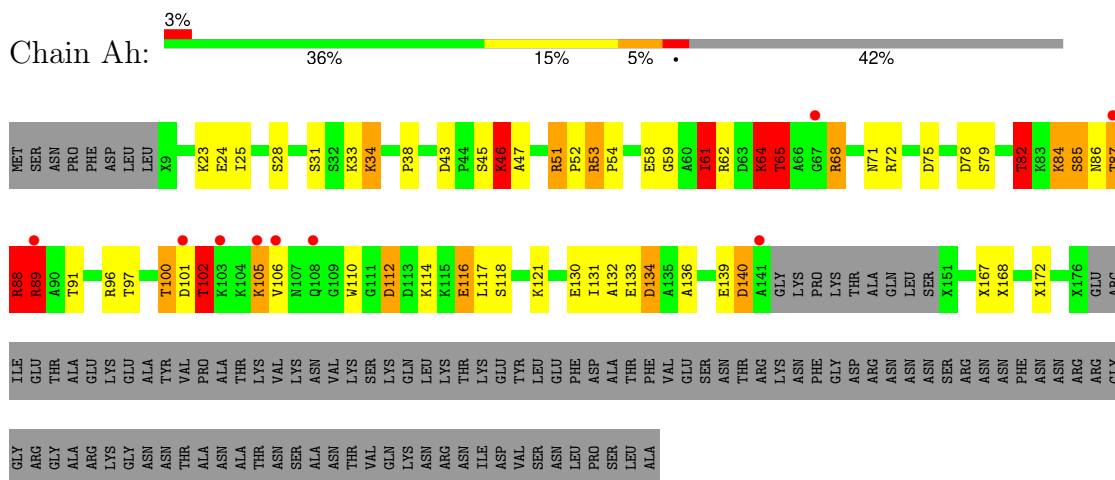




- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein (ASC1, RACK1)

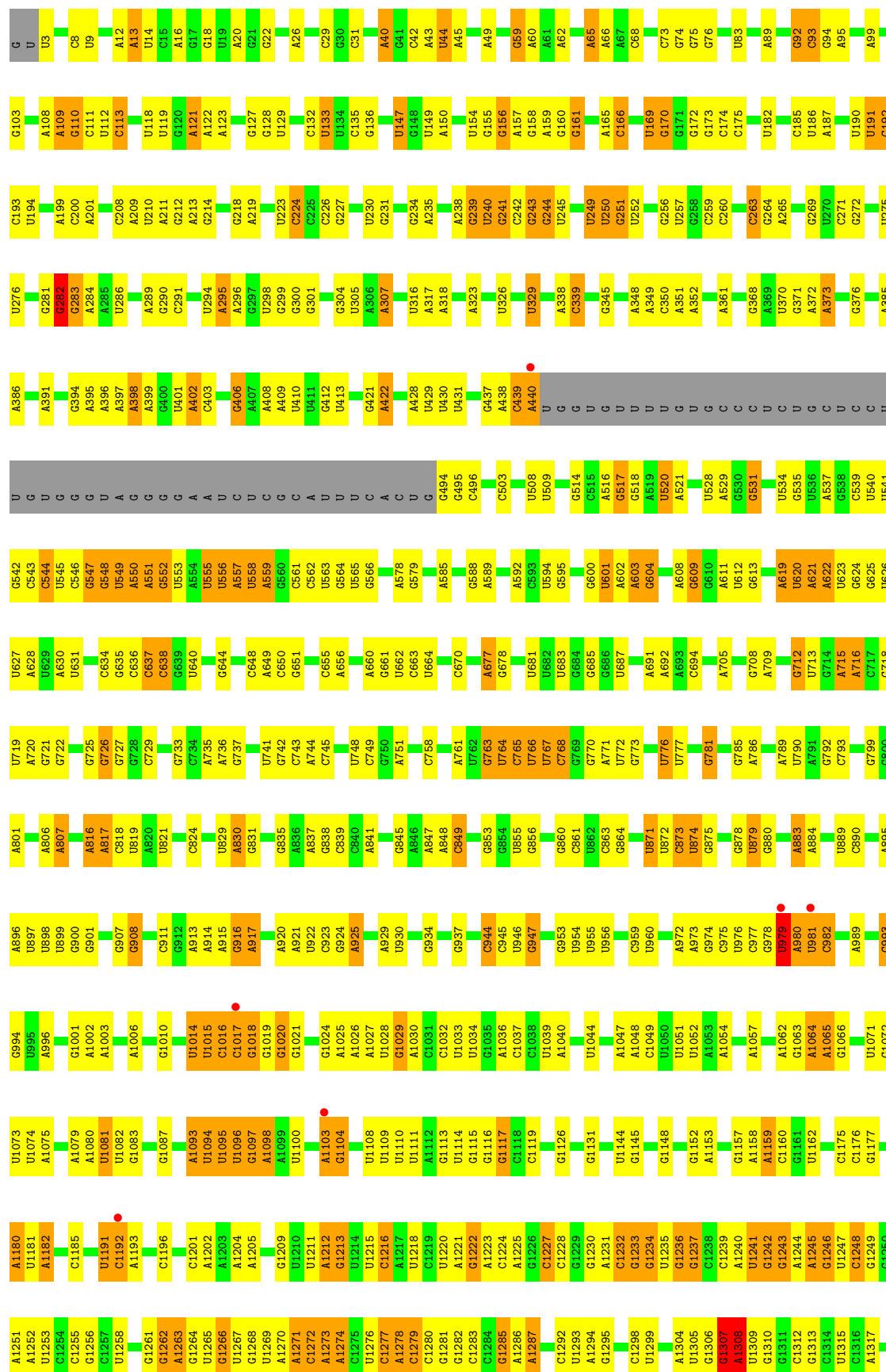


- Molecule 35: Suppressor protein STM1

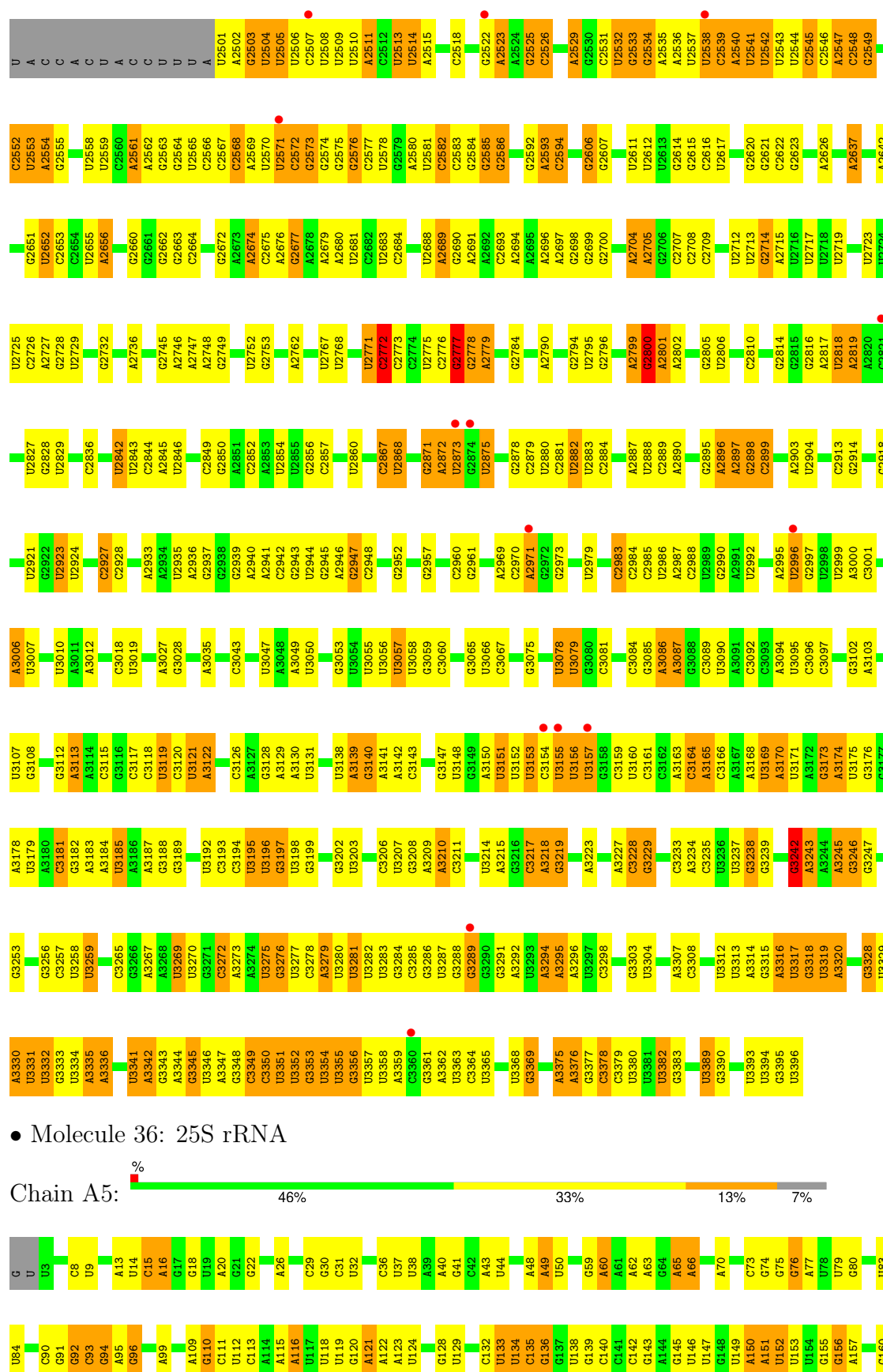


- Molecule 36: 25S rRNA





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G2418	C2334	U2241	U2137	A1839	C1759	G1855	C1582	G1409	U1322
A2419	G2335	U2242	G	U1840	U1949	A1656	A1583	U1323	U1323
U2426	U2336	U2243	U	A1841	U1950	C1657	U1584	U1324	U1324
U2427	C2337	A2244	U	A1842	C1951	U1658	C1585	U1325	U1325
U2434	C2338	U2245	C	G1843	G1952	U1659	G1586	U1326	U1326
U2434	C2339	C2249	C	C1844	G1953	C1660	A1587	U1329	U1329
G2435	U2340	G2250	C	U1845	U1954	G1664	A1588	A1330	A1330
G2435	A2341	C2251	C	C1846	U1955	U1764	A1589	A1332	A1332
U2436	U2342	U2252	U	A1847	G	G1667	G1592	A1418	U1331
G2437	U2343	G2253	C	C1848	U	A1668	A1593	U1333	U1333
G2442	U2344	U2254	U	U1853	G	C1669	A1594	U1427	U1334
A2443	G2355	A2255	C	U1854	U	C1670	U1595	A1428	C1335
C2444	A2356	A2256	C	U1855	G	G1674	C1596	U1430	U1336
A2445	A2357	U2261	U	U1858	U	G1677	C1597	G1434	C1338
U	A2358	A2262	C	U1859	G	U1682	A1603	U1437	G1340
A	A2359	C2263	A	G1861	U	A1683	G1604	G1437	U1341
A	C2360	G	C	U1862	U	U1782	U1606	G1440	G1346
G	A2361	U2272	A	U1863	G	G1786	U1607	G1443	U1347
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G	A2373	C2187	C	U1878	G	U1795	U1614	U1450	U1353
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A	G2375	U2193	C	U1880	G	U1713	U1616	A1355	A1355
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C	A2398	G2216	C	U1915	U	U1740	U1636	A1482	A1381
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G2592	G2385	G2522	A	G2385	A2280	G2201	A2100	C	A1902	A1814	U1717	U1630	G1552	
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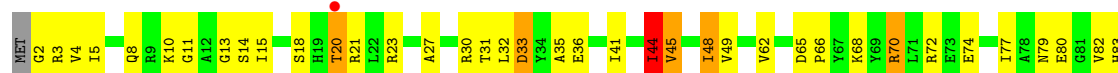
• Molecule 38: 5.8S rRNA



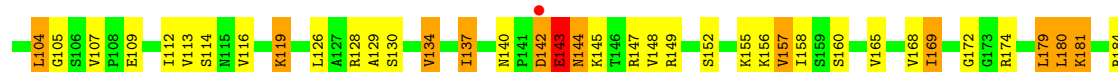
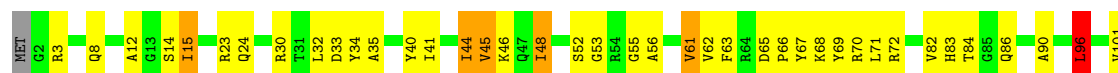
• Molecule 38: 5.8S rRNA



• Molecule 39: 60S ribosomal protein L2-A

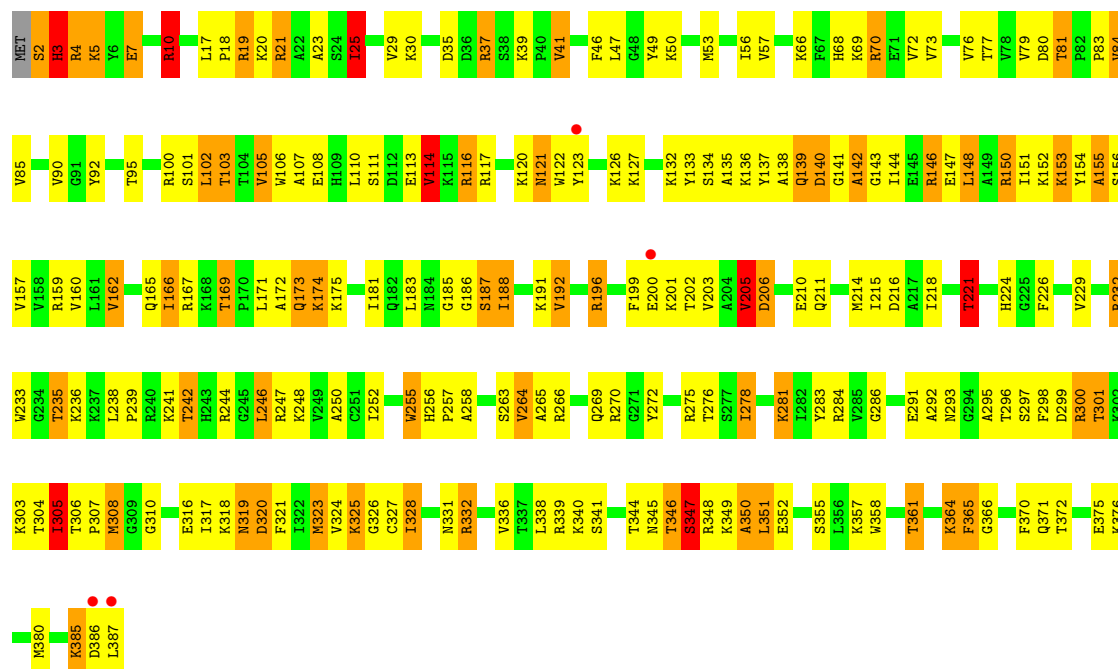
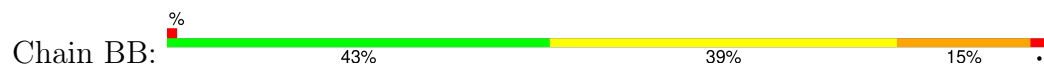


• Molecule 39: 60S ribosomal protein L2-A

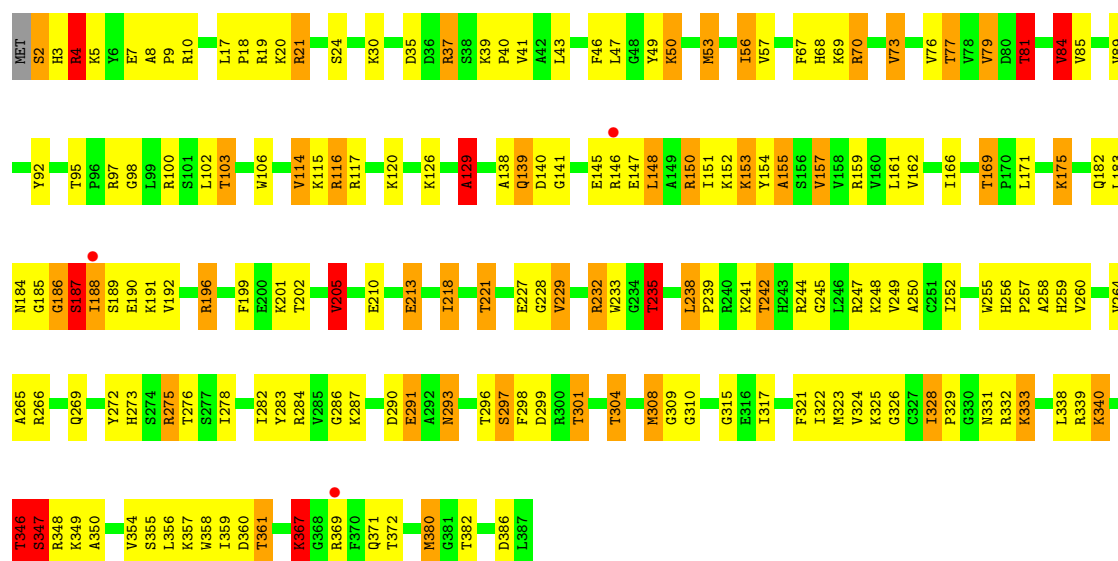




• Molecule 40: 60S ribosomal protein L3

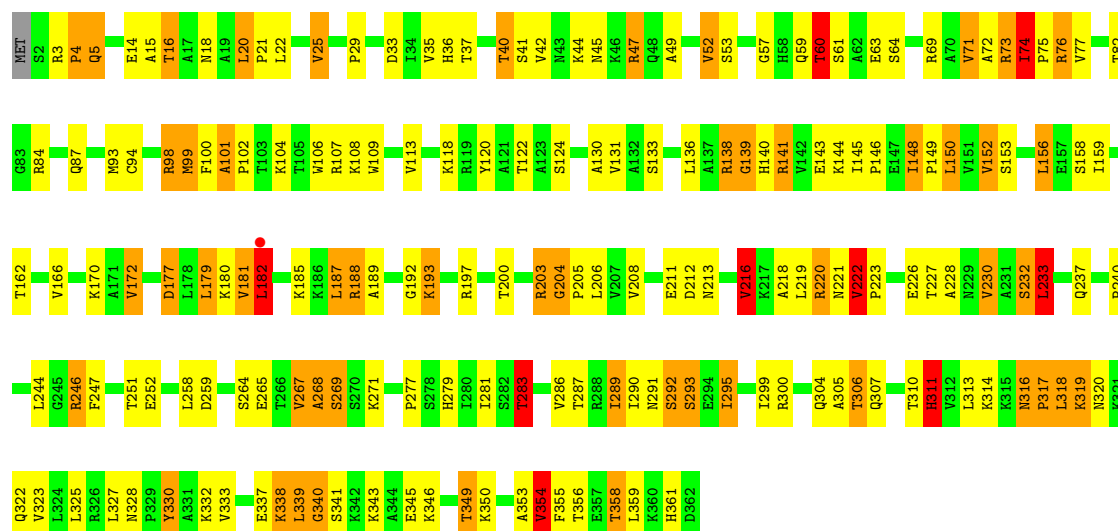


• Molecule 40: 60S ribosomal protein L3



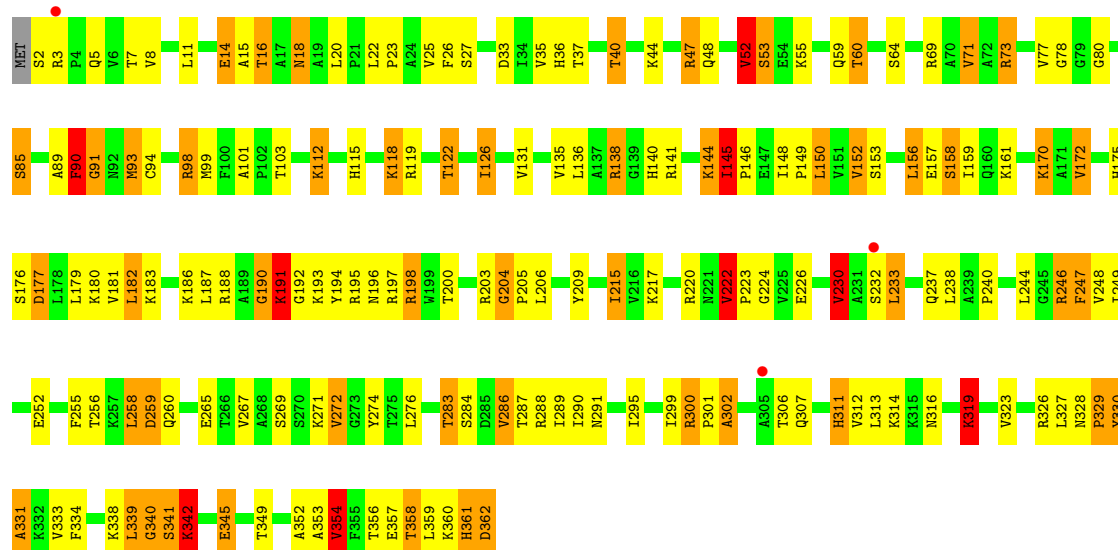
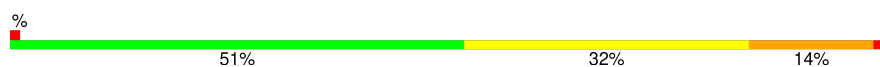
• Molecule 41: 60S ribosomal protein L4-A

Chain BC:



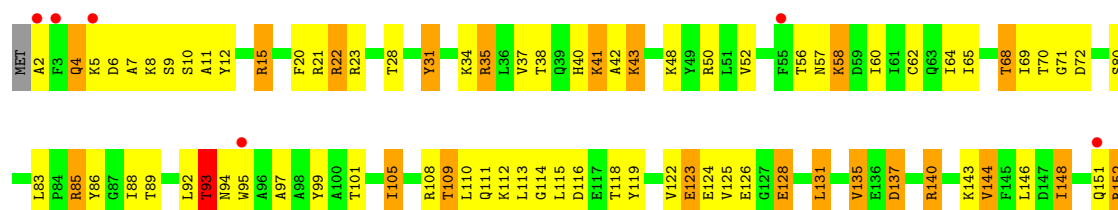
- Molecule 41: 60S ribosomal protein L4-A

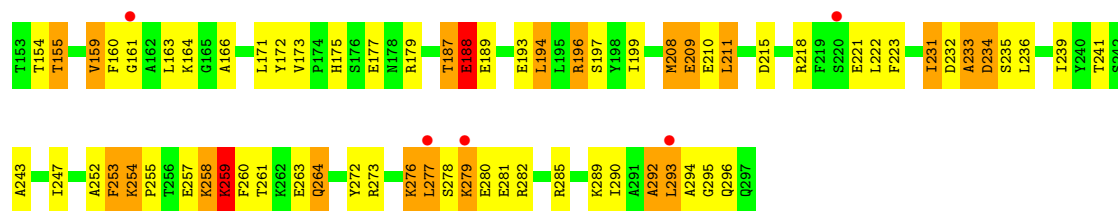
Chain DC:



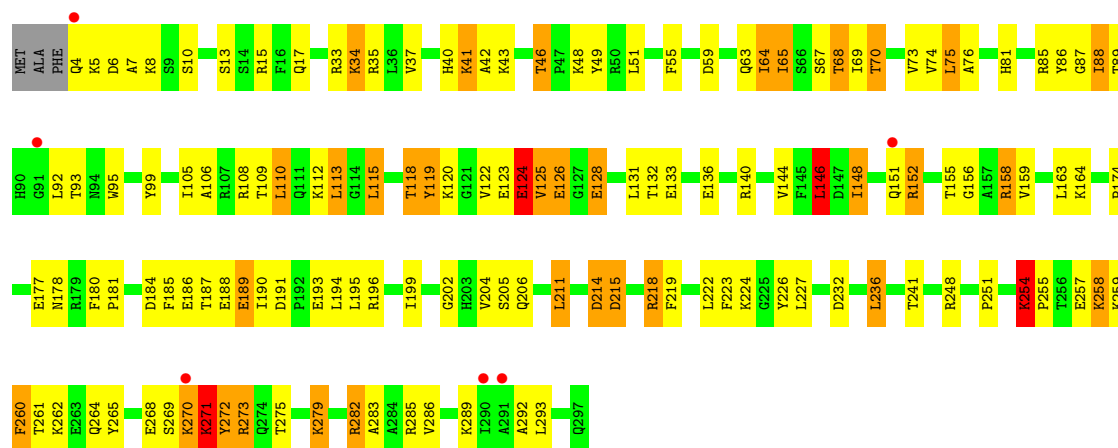
- Molecule 42: 60S ribosomal protein L5

Chain BD:

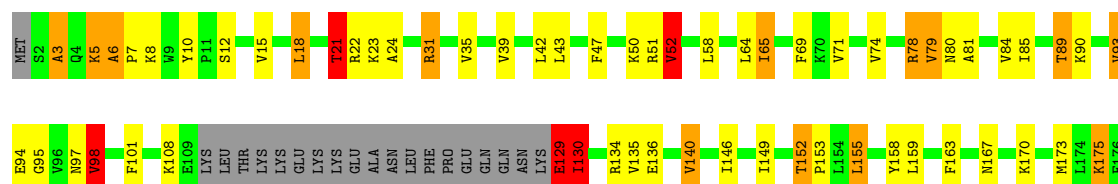




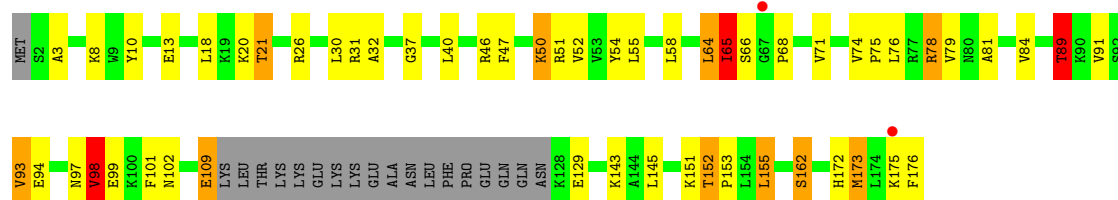
• Molecule 42: 60S ribosomal protein L5



• Molecule 43: 60S ribosomal protein L6-A

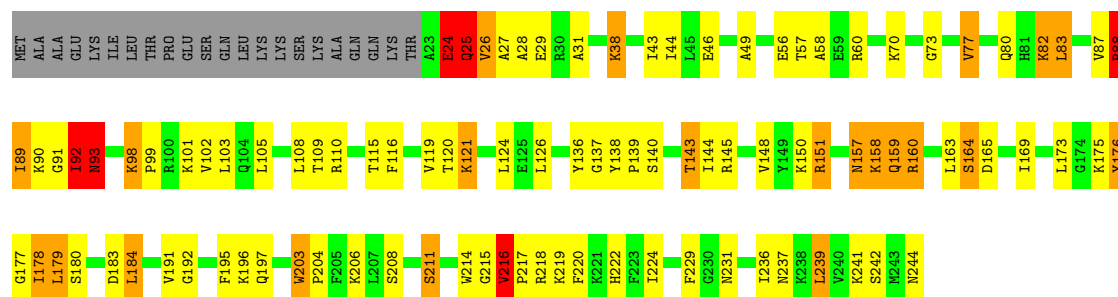


• Molecule 43: 60S ribosomal protein L6-A

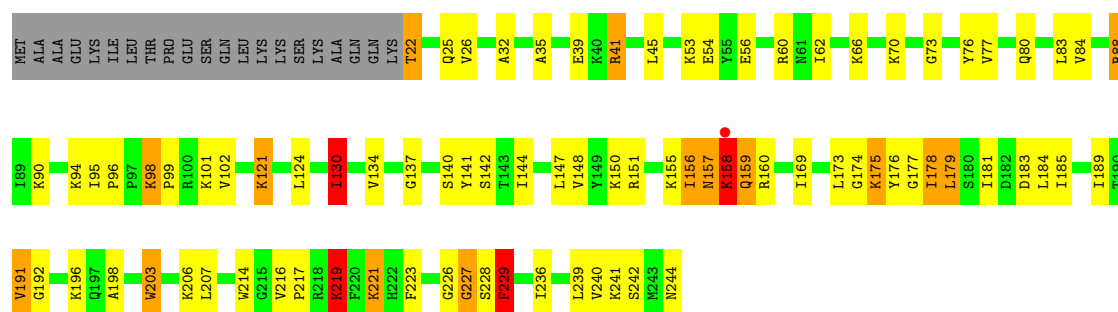


• Molecule 44: 60S ribosomal protein L7-A

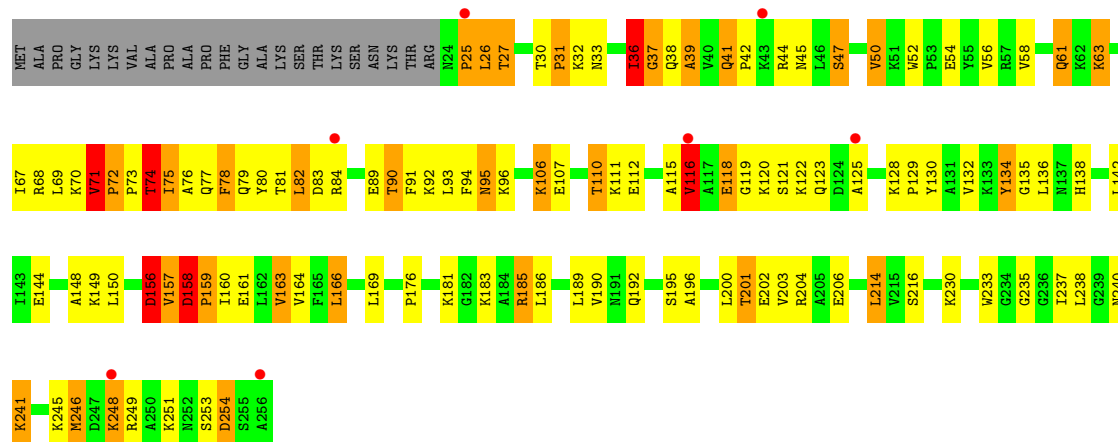




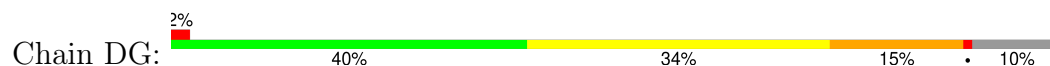
• Molecule 44: 60S ribosomal protein L7-A

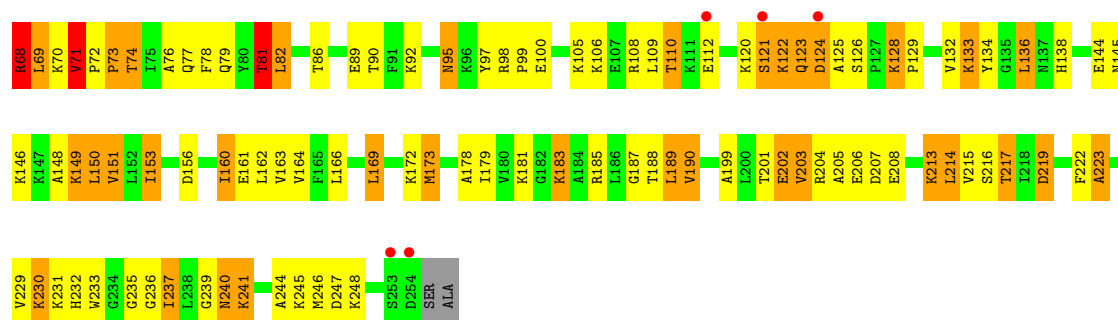


• Molecule 45: 60S ribosomal protein L8-A

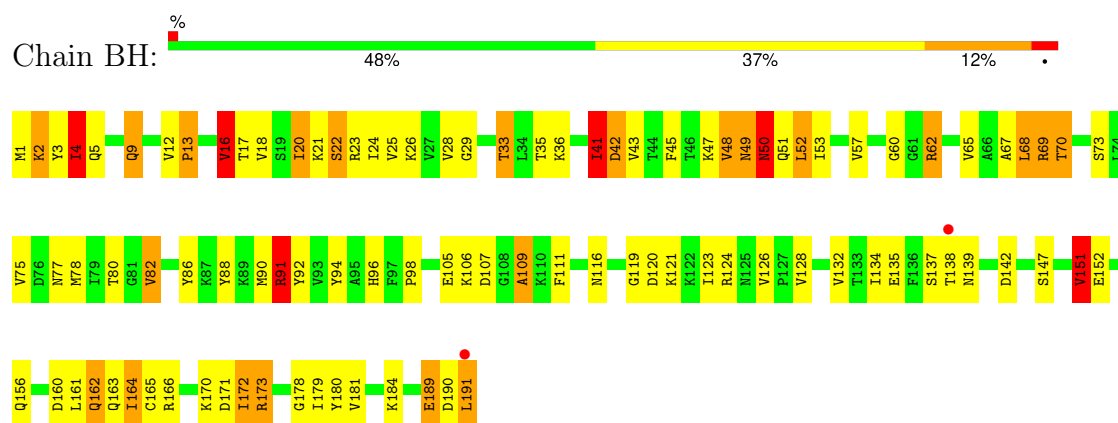


• Molecule 45: 60S ribosomal protein L8-A

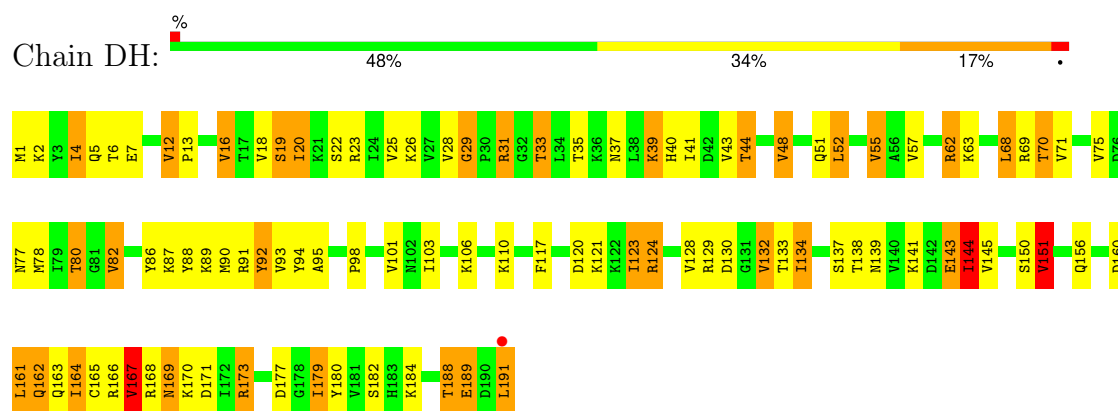




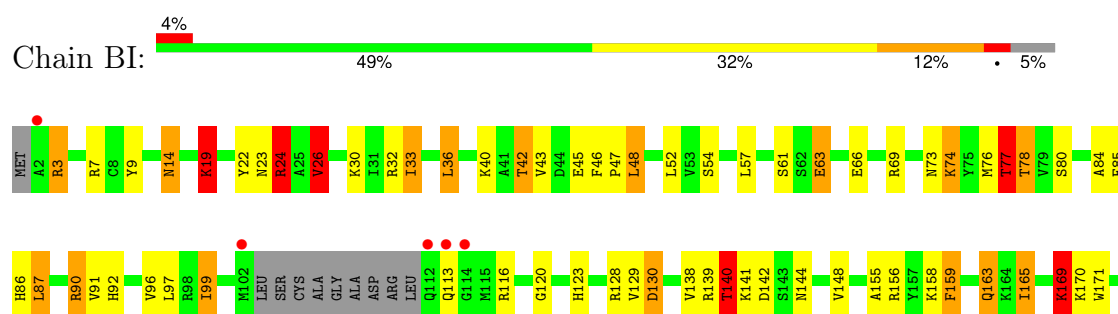
• Molecule 46: 60S ribosomal protein L9-A



• Molecule 46: 60S ribosomal protein L9-A

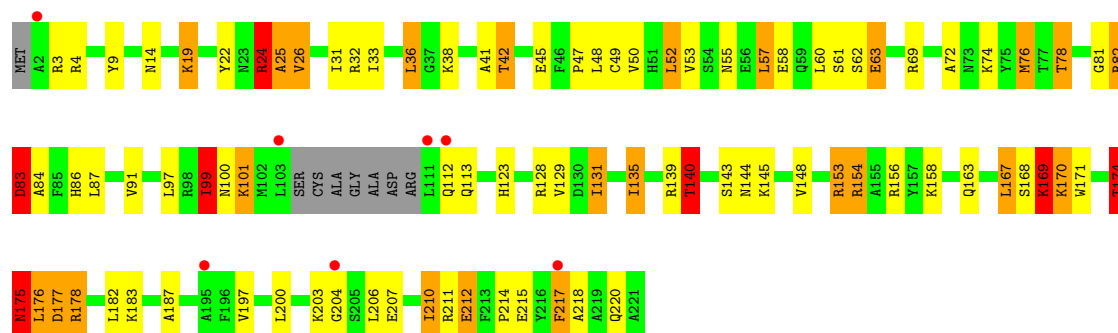


• Molecule 47: 60S ribosomal protein L10

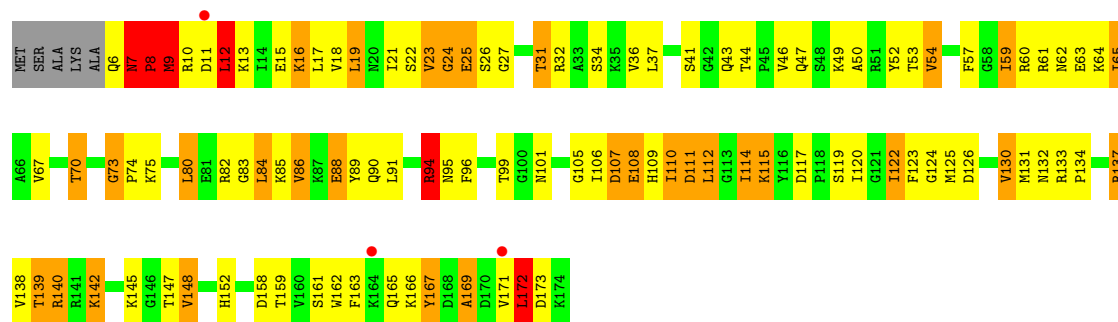




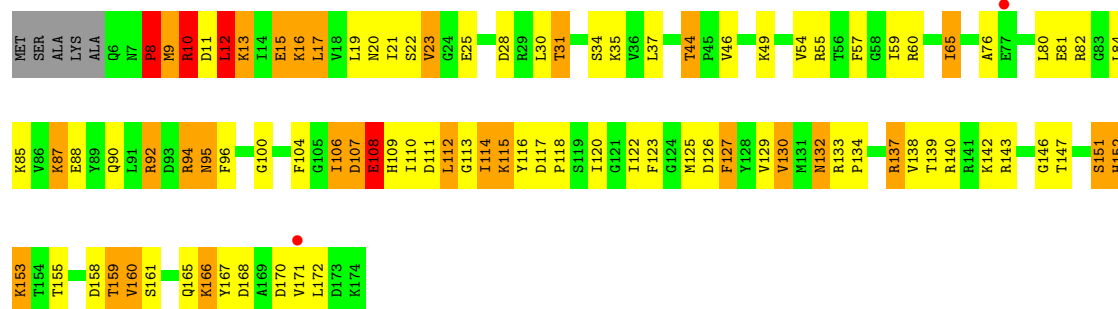
• Molecule 47: 60S ribosomal protein L10



• Molecule 48: 60S ribosomal protein L11-A

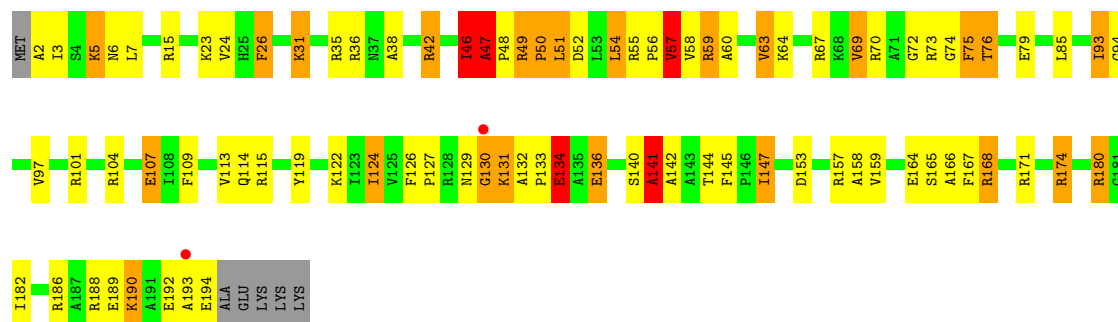


• Molecule 48: 60S ribosomal protein L11-A

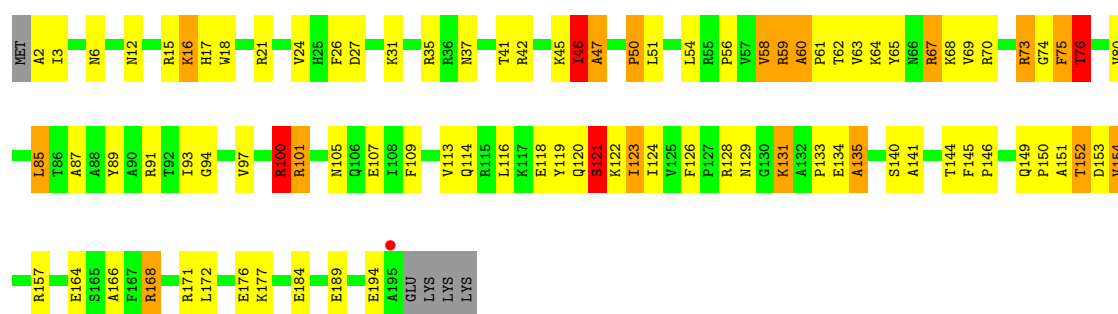


• Molecule 49: 60S ribosomal protein L13-A

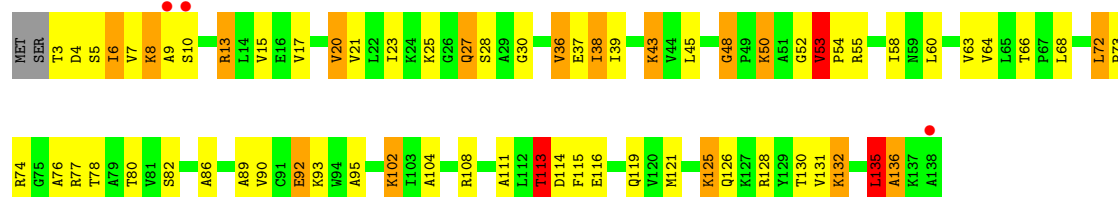




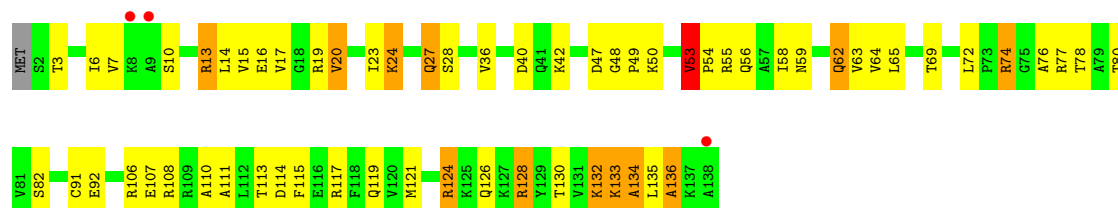
- Molecule 49: 60S ribosomal protein L13-A



- Molecule 50: 60S ribosomal protein L14-A

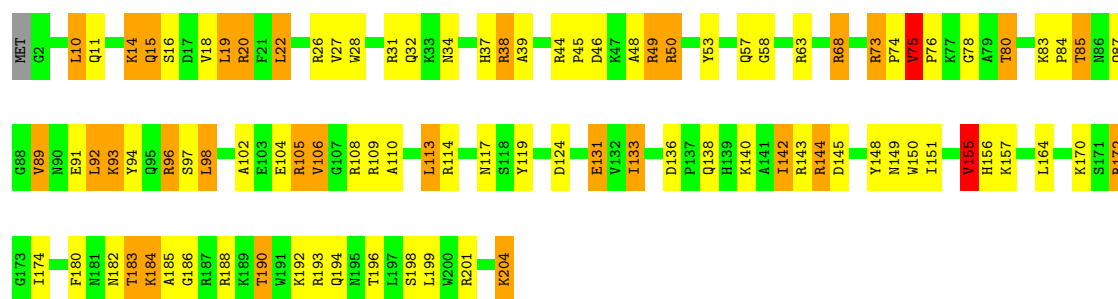


- Molecule 50: 60S ribosomal protein L14-A



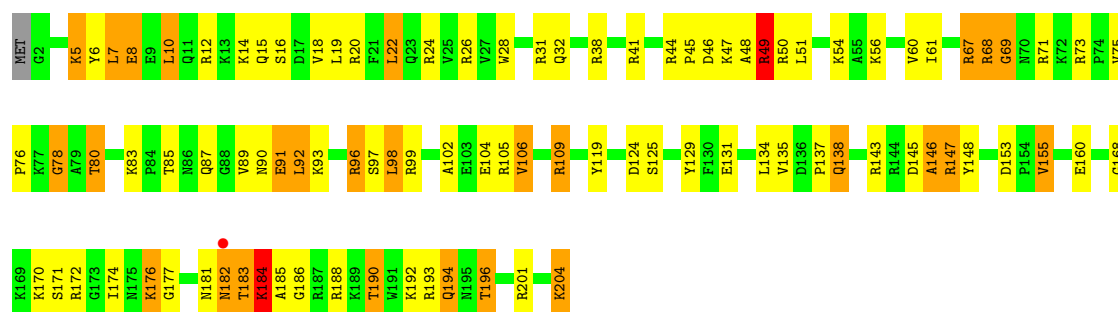
- Molecule 51: 60S ribosomal protein L15-A





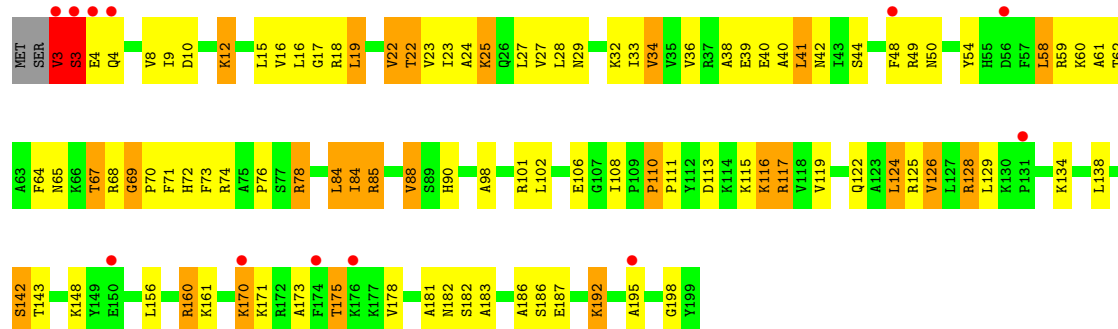
- Molecule 51: 60S ribosomal protein L15-A

Chain DN: 52% 33% 13%



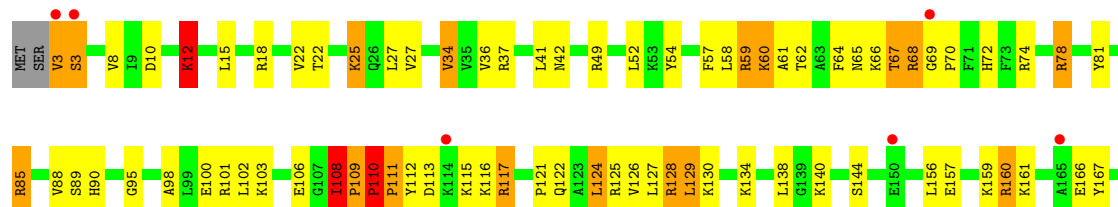
- Molecule 52: 60S ribosomal protein L16-A, 60S ribosomal protein L16-B

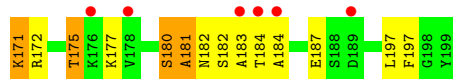
Chain BO: 5% 53% 34% 12%



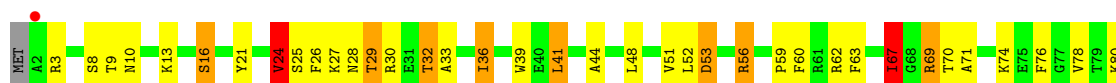
- Molecule 52: 60S ribosomal protein L16-A, 60S ribosomal protein L16-B

Chain DO: 5% 58% 31% 10%

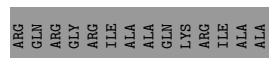
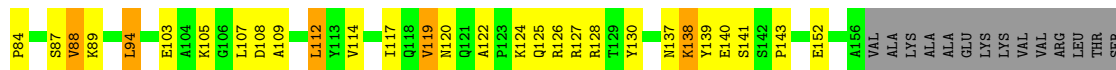




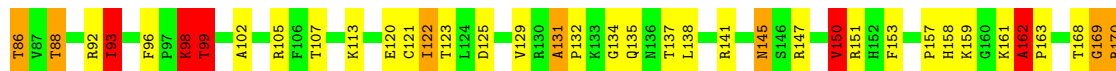
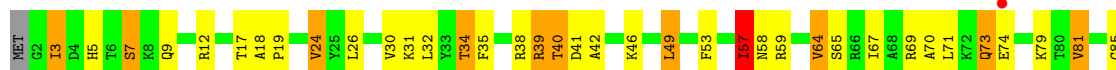
- Molecule 53: 60S ribosomal protein L17-A



- Molecule 53: 60S ribosomal protein L17-A

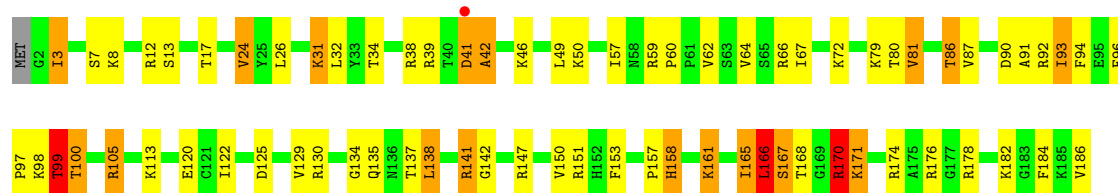


- Molecule 54: 60S ribosomal protein L18-A

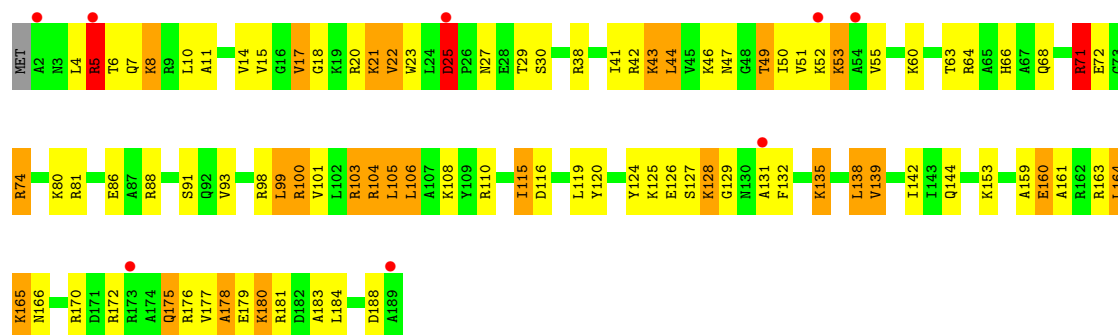


- Molecule 54: 60S ribosomal protein L18-A

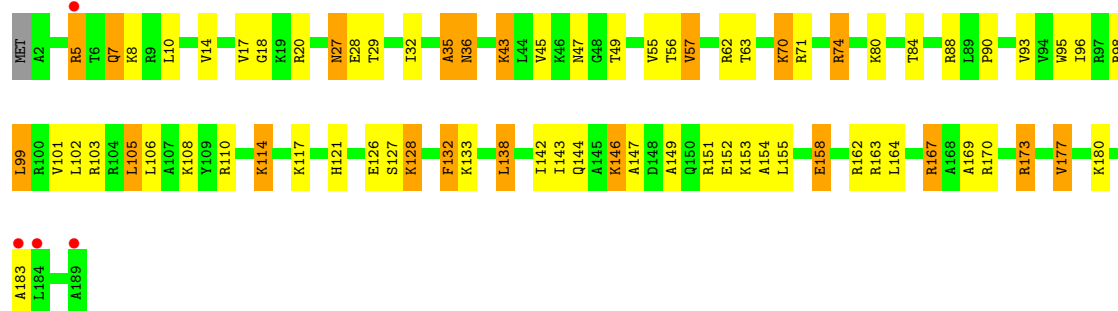




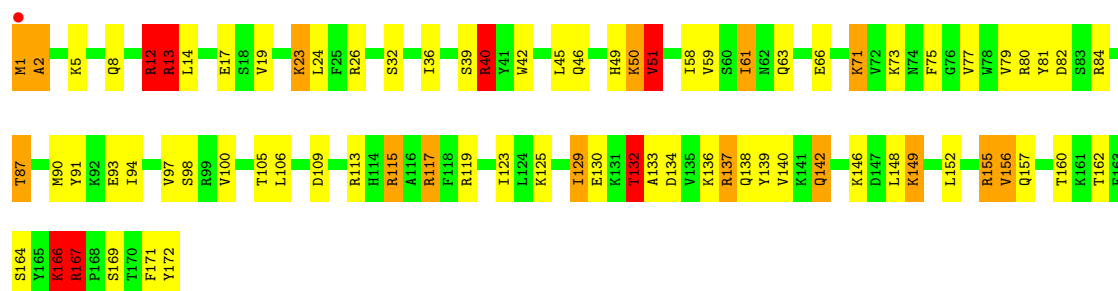
• Molecule 55: 60S ribosomal protein L19-A



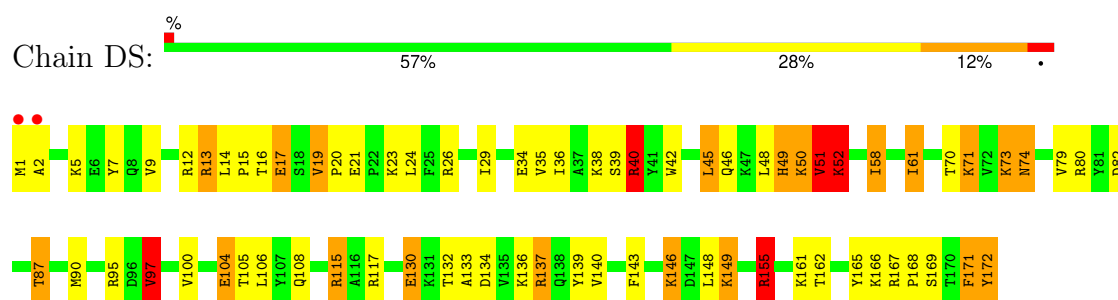
• Molecule 55: 60S ribosomal protein L19-A



• Molecule 56: 60S ribosomal protein L20-A

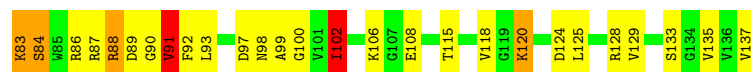


• Molecule 56: 60S ribosomal protein L20-A

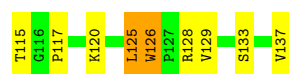




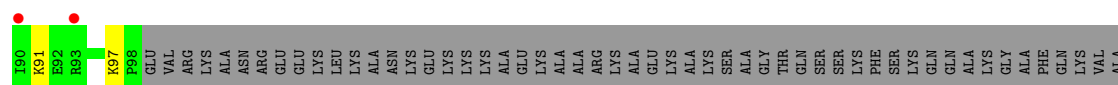
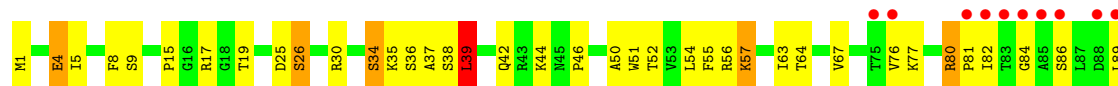
- Molecule 59: 60S ribosomal protein L23-A



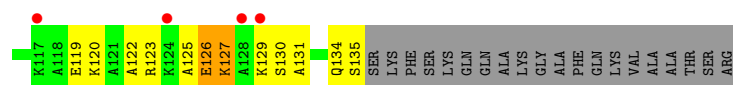
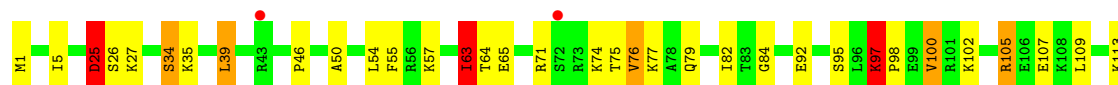
- Molecule 59: 60S ribosomal protein L23-A



- Molecule 60: 60S ribosomal protein L24-A



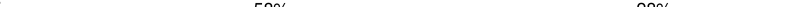
- Molecule 60: 60S ribosomal protein L24-A



- Molecule 61: 60S ribosomal protein L25



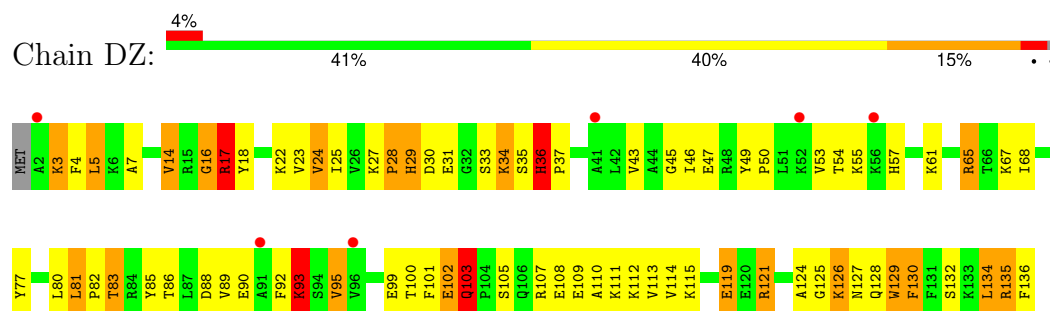
- Chain DX:
-
Category	Percentage	Amino Acid Codes
MET	2%	MET
44%	44%	ALA, PRO, SER, ALA, LYS, THR, THR, ALA, ALA, LYS, LYS, VAL, VAL, GLY, THR, ASN, GLY, LYS, LYS
30%	30%	A23, L24, K25, V26, R27, L34, T37, L38, K39, L40
8%	8%	A43, P44, K45, Y46, A47, S48, K49, A50, V51
15%	15%	N55, R56, L57, D58, K61, V62, I63, E64, Q65, P66, I67, T68, S69, E70

- Chain BY: 

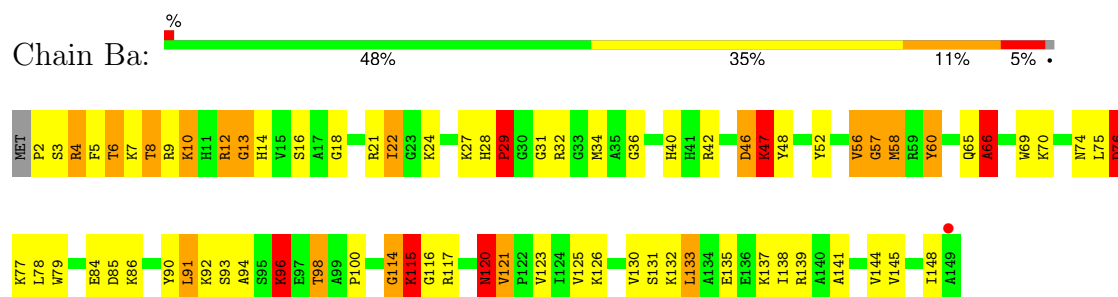
- Chain DY: 

- Chain BZ:
-
- 2% 44% 37% 18%

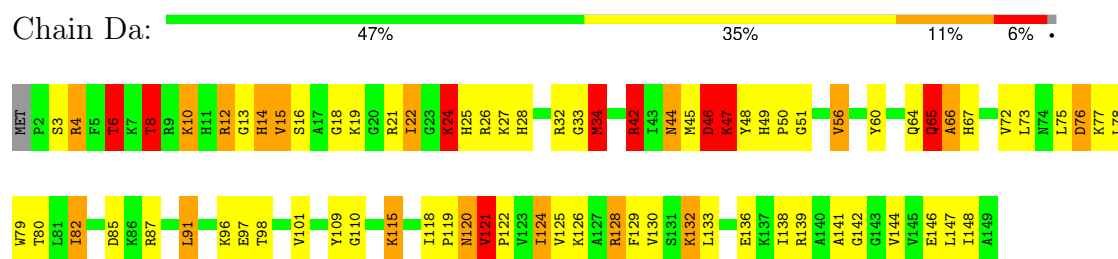
- Molecule 63: 60S ribosomal protein L27-A



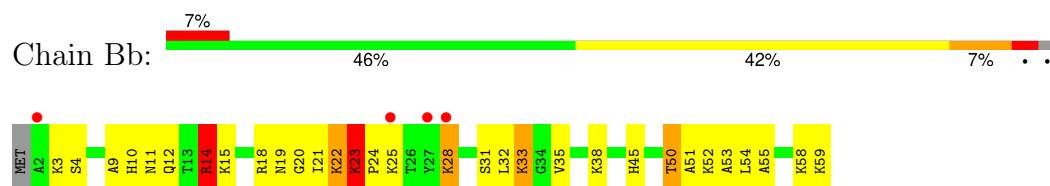
- Molecule 64: 60S ribosomal protein L28



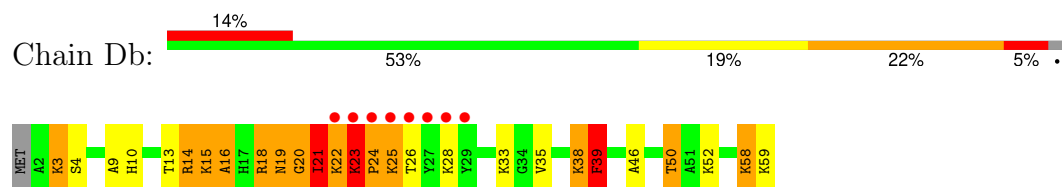
- Molecule 64: 60S ribosomal protein L28



- Molecule 65: 60S ribosomal protein L29

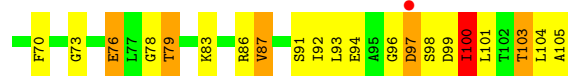
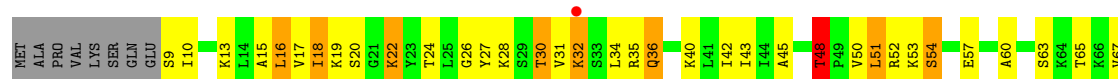


- Molecule 65: 60S ribosomal protein L29

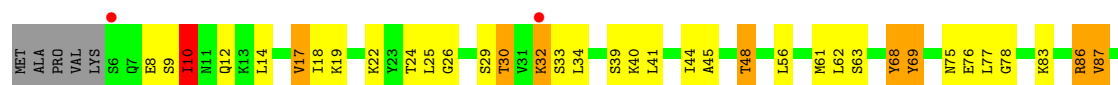


- Molecule 66: 60S ribosomal protein L30





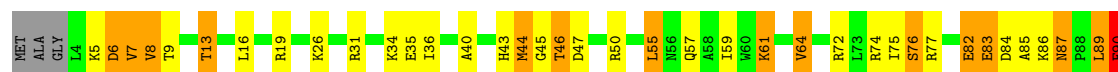
• Molecule 66: 60S ribosomal protein L30



• Molecule 67: 60S ribosomal protein L31-A



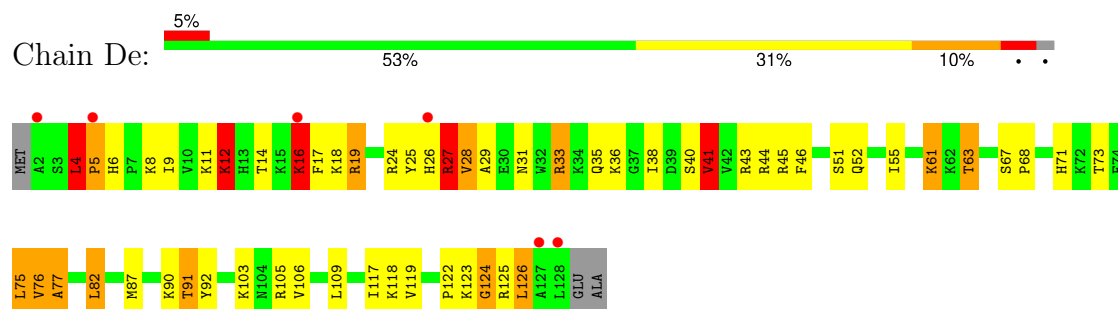
• Molecule 67: 60S ribosomal protein L31-A



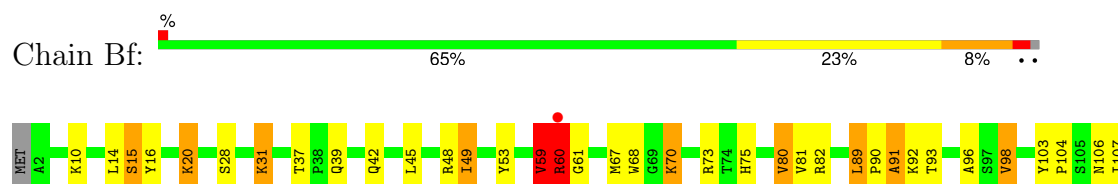
• Molecule 68: 60S ribosomal protein L32



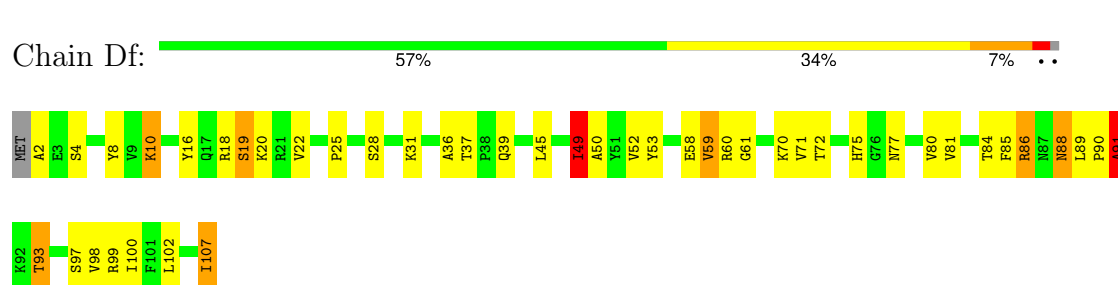
- Molecule 68: 60S ribosomal protein L32



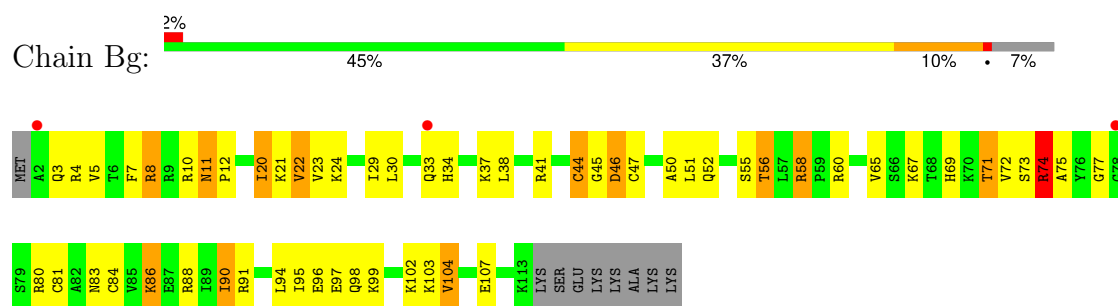
- Molecule 69: 60S ribosomal protein L33-A



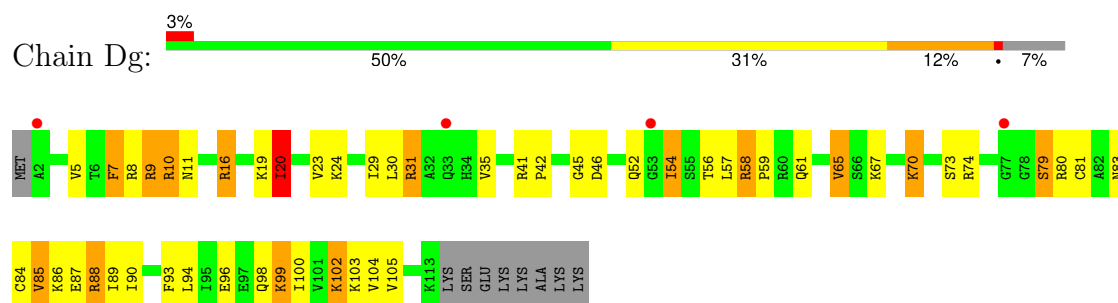
- Molecule 69: 60S ribosomal protein L33-A



- Molecule 70: 60S ribosomal protein L34-A



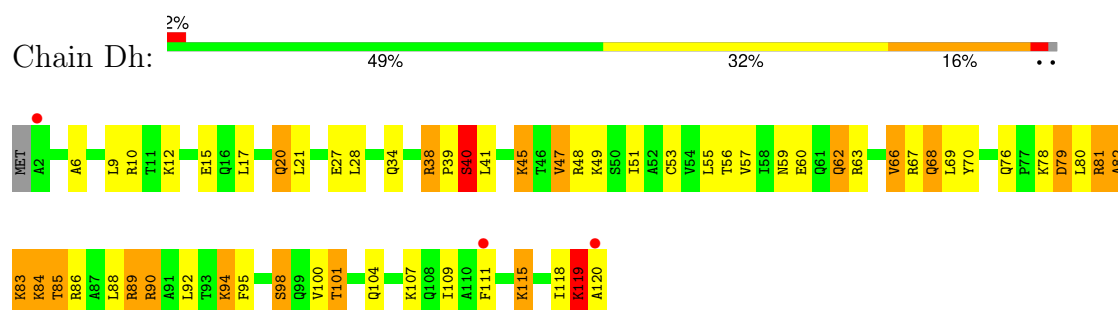
- Molecule 70: 60S ribosomal protein L34-A



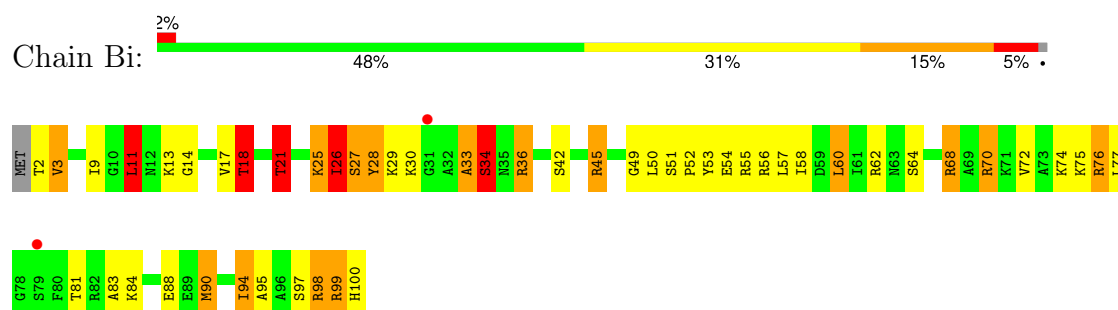
- Molecule 71: 60S ribosomal protein L35-A



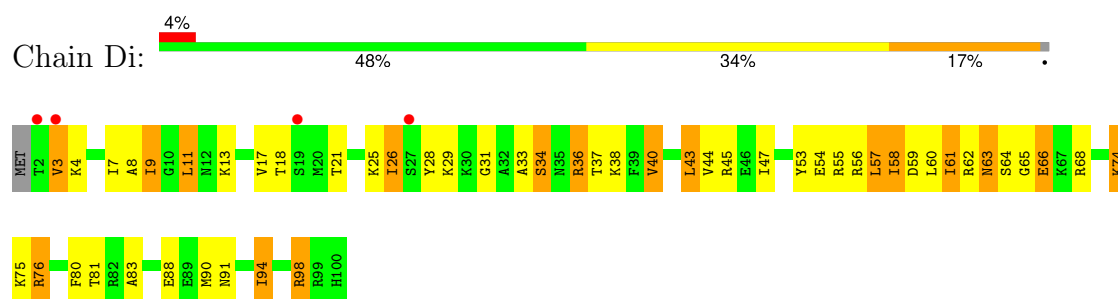
- Molecule 71: 60S ribosomal protein L35-A



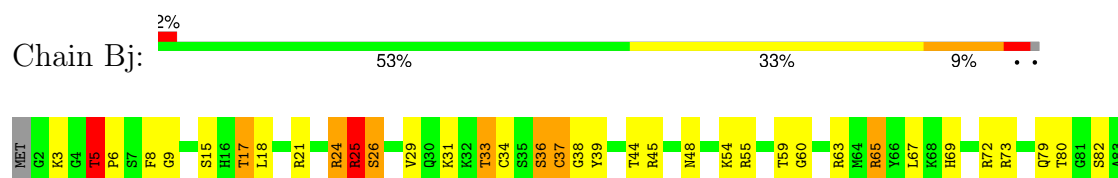
- Molecule 72: 60S ribosomal protein L36-A

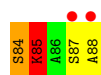


- Molecule 72: 60S ribosomal protein L36-A



- Molecule 73: 60S ribosomal protein L37-A

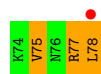
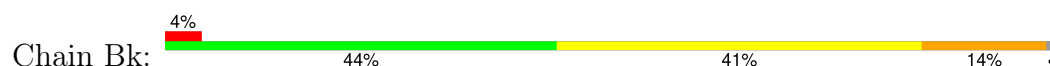




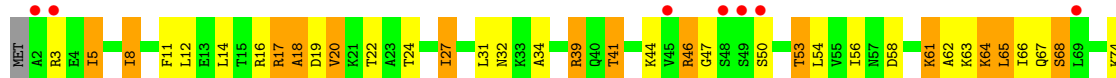
- Molecule 73: 60S ribosomal protein L37-A



- Molecule 74: 60S ribosomal protein L38



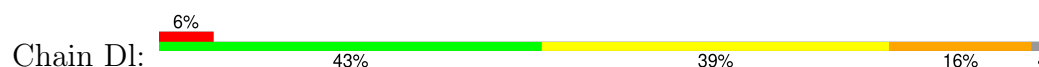
- Molecule 74: 60S ribosomal protein L38



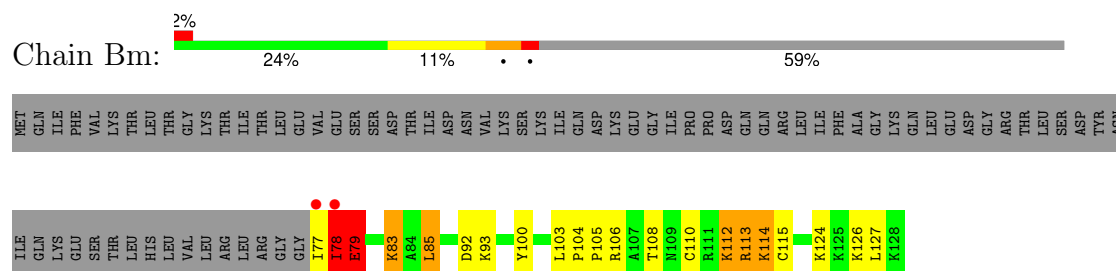
- Molecule 75: 60S ribosomal protein L39



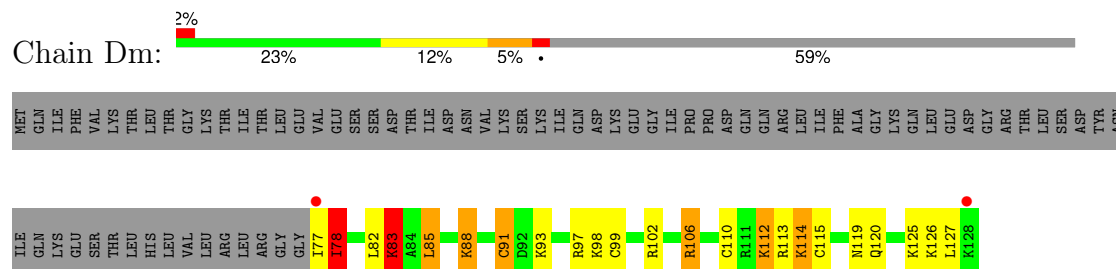
- Molecule 75: 60S ribosomal protein L39



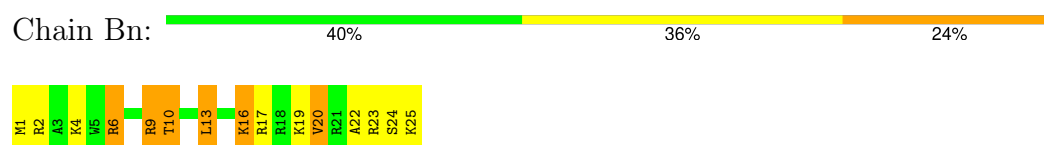
- Molecule 76: 60S ribosomal protein L40



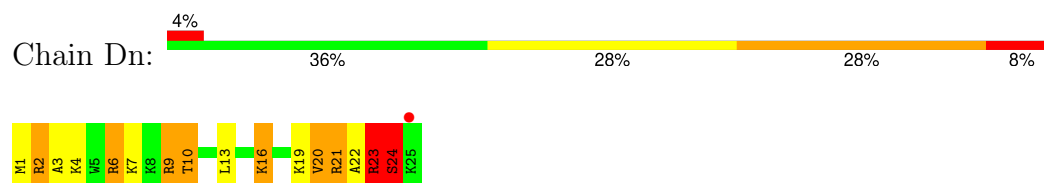
- Molecule 76: 60S ribosomal protein L40



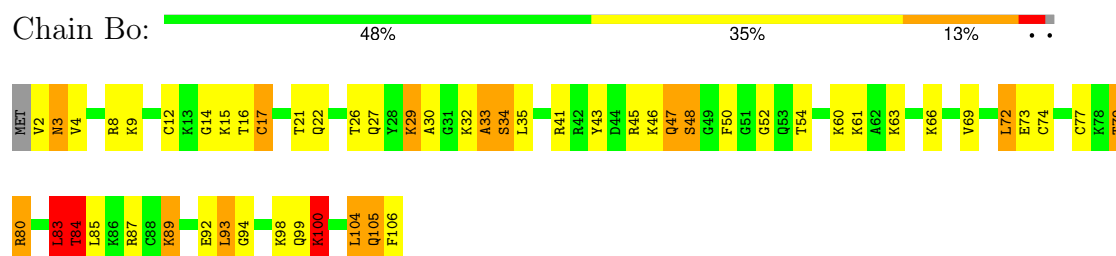
- Molecule 77: 60S ribosomal protein L41-A



- Molecule 77: 60S ribosomal protein L41-A



- Molecule 78: 60S ribosomal protein L42-A

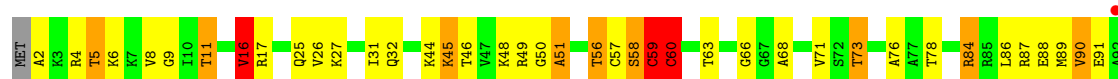


- Molecule 78: 60S ribosomal protein L42-A

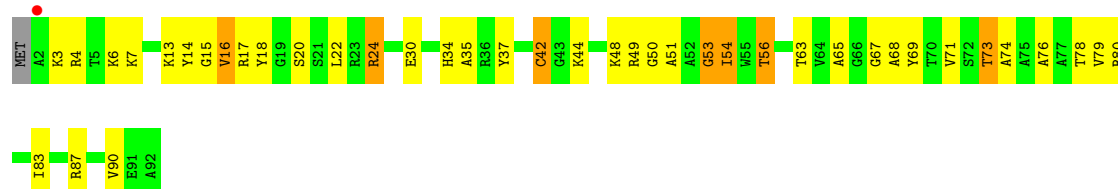




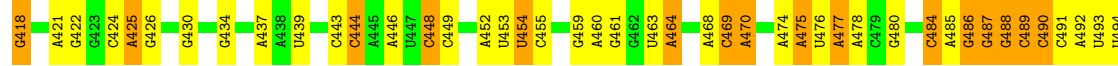
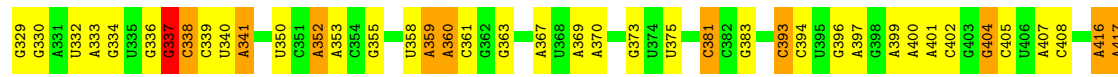
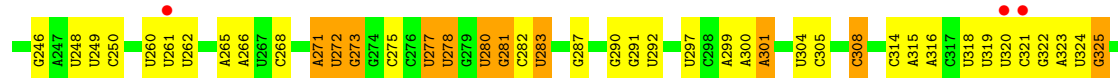
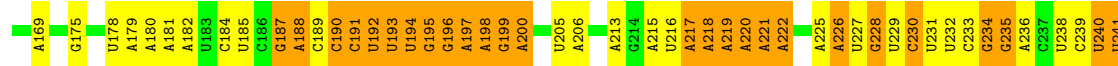
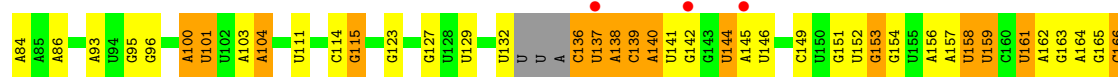
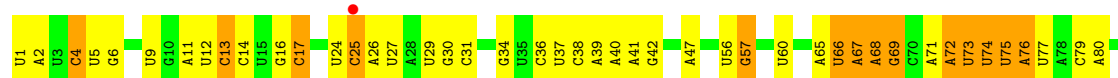
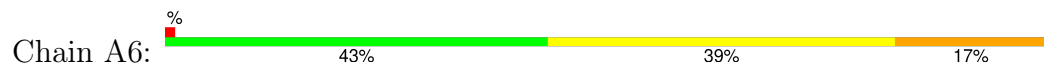
- Molecule 79: 60S ribosomal protein L43-A

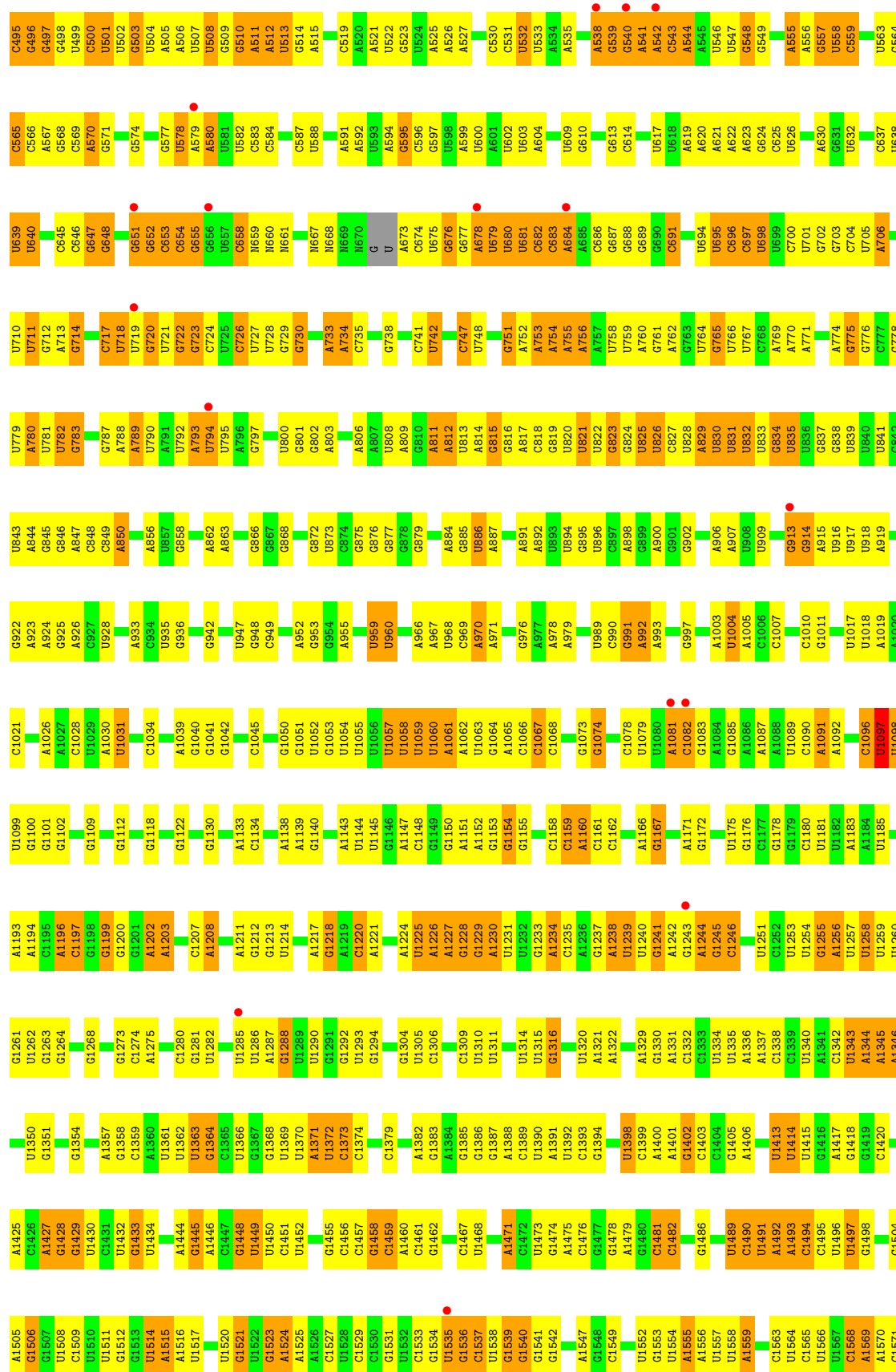


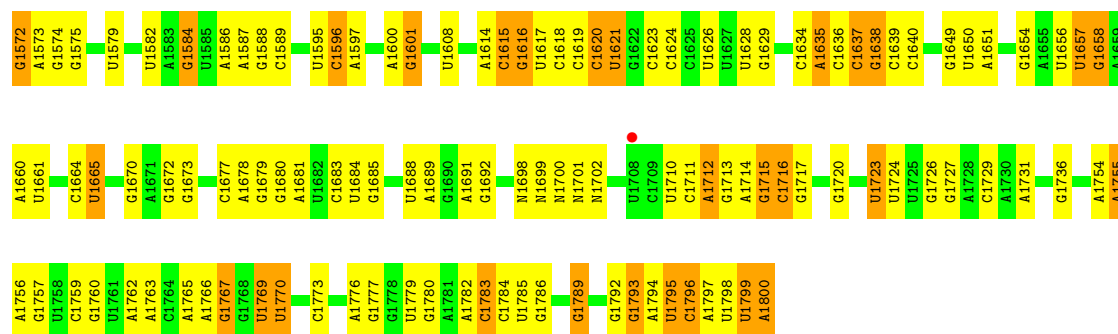
- Molecule 79: 60S ribosomal protein L43-A



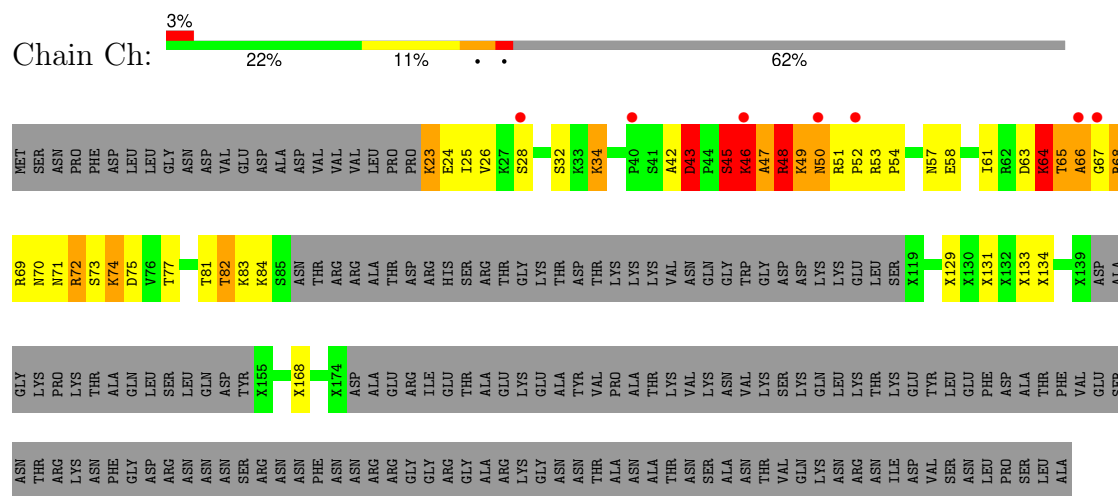
- Molecule 80: 18S rRNA



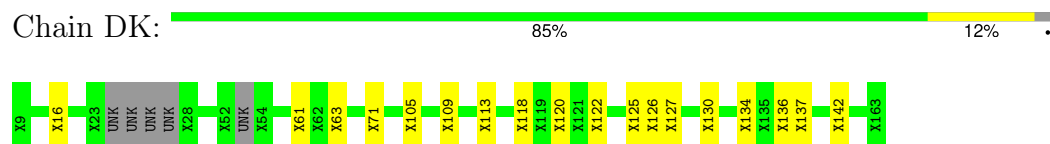




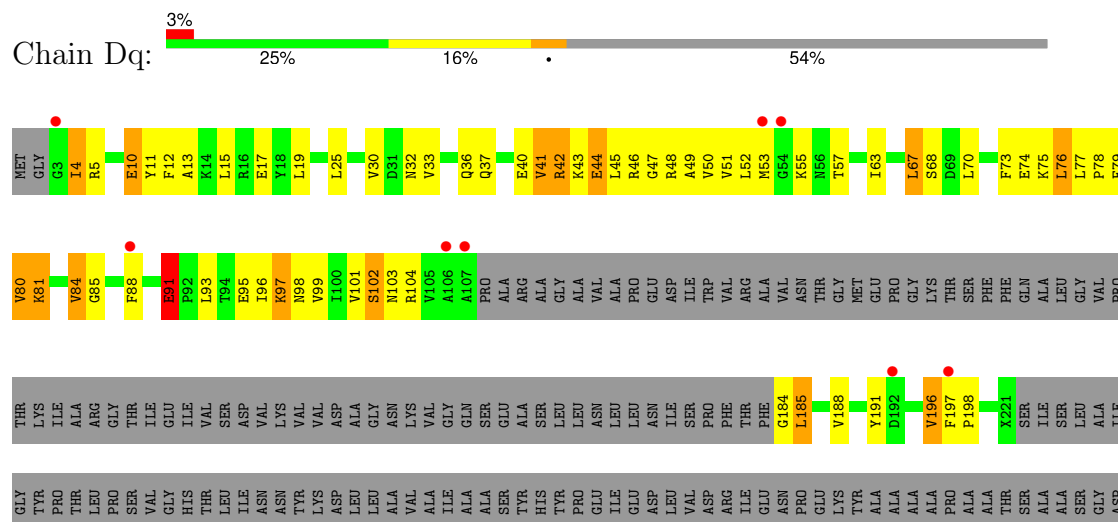
• Molecule 81: Suppressor protein STM1



• Molecule 82: Ribosomal protein L12

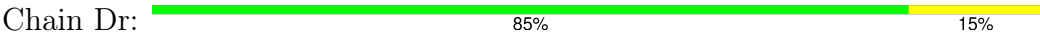


• Molecule 83: 60S acidic ribosomal protein P0



ALA	ALA	ALA	PRO	ALA	GLU	GLU	ALA	ALA	ALA	GLU	GLU	GLU	GLU	SER	ASP	ASP	ASP	MET	GLY	PHE	GLY	LEU	PHE	ASP

- Molecule 84: Ribosomal protein P1 alpha



- Molecule 85: Ribosomal protein P2 beta



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)	300.00 – 3.00 300.00 – 3.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (300.00-3.00) 99.9 (300.00-3.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.52 (at 2.91Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.181 , 0.229 0.189 , 0.228	Depositor DCC
R_{free} test set	32787 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å ²)	68.6	Xtriage
Anisotropy	0.203	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 79.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	416785	wwPDB-VP
Average B, all atoms (Å ²)	80.0	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.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	A2	0.53	1/42128 (0.0%)	0.58	0/65642
2	AA	0.71	1/1617 (0.1%)	1.22	18/2215 (0.8%)
2	CA	0.82	1/1623 (0.1%)	1.30	17/2222 (0.8%)
3	AB	0.62	0/1735	1.13	11/2335 (0.5%)
3	CB	0.76	1/1748 (0.1%)	1.12	9/2352 (0.4%)
4	AC	0.81	3/1665 (0.2%)	1.19	6/2263 (0.3%)
4	CC	0.94	1/1665 (0.1%)	1.27	16/2263 (0.7%)
5	AD	0.76	0/1759	1.15	11/2368 (0.5%)
5	CD	0.69	0/1759	1.15	11/2368 (0.5%)
6	AE	0.74	0/2109	1.20	17/2839 (0.6%)
6	CE	0.89	0/2109	1.27	19/2839 (0.7%)
7	AF	0.65	0/1629	1.11	7/2202 (0.3%)
7	CF	0.78	1/1629 (0.1%)	1.25	13/2202 (0.6%)
8	AG	0.70	0/1823	1.12	7/2439 (0.3%)
8	CG	0.82	0/1779	1.15	5/2379 (0.2%)
9	AH	0.68	0/1506	1.15	12/2028 (0.6%)
9	CH	0.76	1/1516 (0.1%)	1.22	13/2043 (0.6%)
10	AI	0.84	0/1514	1.18	7/2021 (0.3%)
10	CI	0.92	0/1514	1.29	7/2021 (0.3%)
11	AJ	0.73	0/1519	1.19	7/2035 (0.3%)
11	CJ	0.83	0/1519	1.25	9/2035 (0.4%)
12	AK	0.71	0/789	1.20	7/1067 (0.7%)
12	CK	0.67	0/776	1.18	4/1047 (0.4%)
13	AL	0.86	0/1239	1.17	6/1673 (0.4%)
13	CL	0.99	0/1194	1.36	9/1610 (0.6%)
14	AM	0.70	0/898	1.13	4/1220 (0.3%)
14	CM	0.63	0/898	1.09	3/1220 (0.2%)
15	AN	0.79	0/1215	1.17	7/1638 (0.4%)
15	CN	0.86	1/1215 (0.1%)	1.20	5/1638 (0.3%)
16	AO	0.69	0/901	1.25	7/1217 (0.6%)
16	CO	0.87	1/960 (0.1%)	1.31	11/1290 (0.9%)
17	AP	0.75	0/998	1.21	8/1341 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	CP	0.75	0/1060	1.30	13/1426 (0.9%)
18	AQ	0.70	0/1125	1.19	8/1510 (0.5%)
18	CQ	0.84	0/1131	1.27	8/1518 (0.5%)
19	AR	0.73	0/935	1.25	7/1254 (0.6%)
19	CR	0.78	0/914	1.33	13/1224 (1.1%)
20	AS	0.74	0/1211	1.13	5/1628 (0.3%)
20	CS	0.78	0/1211	1.21	6/1628 (0.4%)
21	AT	0.72	1/1130 (0.1%)	1.09	5/1517 (0.3%)
21	CT	0.78	0/1130	1.11	3/1517 (0.2%)
22	AU	0.71	0/865	1.18	8/1169 (0.7%)
22	CU	0.78	0/892	1.26	7/1205 (0.6%)
23	AV	0.68	1/693 (0.1%)	1.07	3/935 (0.3%)
23	CV	0.82	0/693	1.17	3/935 (0.3%)
24	AW	0.83	0/1038	1.23	8/1395 (0.6%)
24	CW	0.98	1/1038 (0.1%)	1.21	5/1395 (0.4%)
25	AX	0.91	1/1139 (0.1%)	1.25	6/1518 (0.4%)
25	CX	1.05	0/1139	1.33	9/1518 (0.6%)
26	AY	0.69	1/1087 (0.1%)	1.08	2/1449 (0.1%)
26	CY	0.78	0/1087	1.16	3/1449 (0.2%)
27	AZ	0.65	0/571	1.22	4/768 (0.5%)
27	CZ	0.66	0/566	1.14	5/761 (0.7%)
28	Aa	0.76	0/782	1.15	4/1047 (0.4%)
28	Ca	0.83	0/782	1.19	5/1047 (0.5%)
29	Ab	0.69	0/620	1.23	7/838 (0.8%)
29	Cb	0.71	0/620	1.23	3/838 (0.4%)
30	Ac	0.55	0/499	1.09	0/670
30	Cc	0.71	0/499	1.28	5/670 (0.7%)
31	Ad	0.85	1/452 (0.2%)	1.24	2/600 (0.3%)
31	Cd	0.90	0/452	1.32	5/600 (0.8%)
32	Ae	0.61	0/483	1.13	2/643 (0.3%)
32	Ce	0.74	0/499	1.29	4/665 (0.6%)
33	Af	0.72	0/404	1.37	5/542 (0.9%)
33	Cf	0.59	0/404	1.27	8/542 (1.5%)
34	Ag	0.63	0/2490	1.03	7/3389 (0.2%)
34	Cg	0.64	0/2495	1.01	7/3395 (0.2%)
35	Ah	1.09	3/925 (0.3%)	1.29	8/1240 (0.6%)
36	A1	0.79	11/75394 (0.0%)	0.67	14/117545 (0.0%)
36	A5	0.82	24/75414 (0.0%)	0.66	13/117575 (0.0%)
37	A3	0.67	0/2883	0.59	0/4491
37	A7	0.78	0/2883	0.63	0/4491
38	A4	0.77	0/3746	0.62	0/5832
38	A8	0.66	0/3746	0.61	0/5832
39	BA	1.04	3/1948 (0.2%)	1.38	16/2617 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	DA	1.11	4/1946 (0.2%)	1.43	18/2614 (0.7%)
40	BB	1.10	5/3146 (0.2%)	1.42	36/4228 (0.9%)
40	DB	1.23	4/3146 (0.1%)	1.44	26/4228 (0.6%)
41	BC	1.19	6/2800 (0.2%)	1.53	40/3790 (1.1%)
41	DC	1.12	6/2800 (0.2%)	1.43	34/3790 (0.9%)
42	BD	0.86	0/2425	1.19	10/3271 (0.3%)
42	DD	1.02	1/2408 (0.0%)	1.27	21/3248 (0.6%)
43	BE	1.10	0/1260	1.38	16/1694 (0.9%)
43	DE	1.07	0/1269	1.37	11/1705 (0.6%)
44	BF	1.21	2/1821 (0.1%)	1.45	24/2451 (1.0%)
44	DF	1.17	2/1828 (0.1%)	1.43	26/2461 (1.1%)
45	BG	0.79	0/1836	1.23	17/2481 (0.7%)
45	DG	0.78	0/1795	1.18	14/2429 (0.6%)
46	BH	0.96	1/1539 (0.1%)	1.27	10/2073 (0.5%)
46	DH	1.17	0/1539	1.45	13/2073 (0.6%)
47	BI	1.08	3/1741 (0.2%)	1.33	13/2335 (0.6%)
47	DI	1.11	0/1758	1.38	12/2358 (0.5%)
48	BJ	0.82	0/1374	1.24	7/1842 (0.4%)
48	DJ	0.99	1/1374 (0.1%)	1.36	17/1842 (0.9%)
49	BL	1.09	3/1568 (0.2%)	1.47	23/2106 (1.1%)
49	DL	1.06	3/1573 (0.2%)	1.40	19/2113 (0.9%)
50	BM	1.11	3/1068 (0.3%)	1.37	15/1438 (1.0%)
50	DM	1.18	0/1074	1.37	9/1446 (0.6%)
51	BN	1.05	1/1757 (0.1%)	1.37	14/2354 (0.6%)
51	DN	0.99	2/1757 (0.1%)	1.30	14/2354 (0.6%)
52	BO	0.59	1/3160 (0.0%)	0.83	6/4208 (0.1%)
52	DO	0.64	0/3159	0.95	14/4205 (0.3%)
53	BP	1.17	2/1443 (0.1%)	1.39	9/1944 (0.5%)
53	DP	1.34	4/1250 (0.3%)	1.41	6/1683 (0.4%)
54	BQ	1.21	3/1465 (0.2%)	1.57	25/1965 (1.3%)
54	DQ	1.08	1/1465 (0.1%)	1.43	10/1965 (0.5%)
55	BR	0.89	1/1538 (0.1%)	1.24	10/2050 (0.5%)
55	DR	0.94	0/1538	1.21	5/2050 (0.2%)
56	BS	1.12	3/1481 (0.2%)	1.40	13/1990 (0.7%)
56	DS	1.20	3/1481 (0.2%)	1.44	17/1990 (0.9%)
57	BT	1.09	1/1300 (0.1%)	1.31	9/1743 (0.5%)
57	DT	1.16	2/1300 (0.2%)	1.35	6/1743 (0.3%)
58	BU	0.64	0/812	1.04	4/1099 (0.4%)
58	DU	0.67	0/794	1.20	8/1076 (0.7%)
59	BV	1.09	1/1018 (0.1%)	1.37	11/1369 (0.8%)
59	DV	1.24	2/1018 (0.2%)	1.42	6/1369 (0.4%)
60	BW	0.83	0/712	1.45	4/958 (0.4%)
60	DW	0.99	0/1052	1.22	7/1398 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
61	BX	0.88	0/979	1.23	6/1321 (0.5%)
61	DX	0.87	0/974	1.24	7/1314 (0.5%)
62	BY	0.96	0/1004	1.35	7/1341 (0.5%)
62	DY	0.94	0/1004	1.30	6/1341 (0.4%)
63	BZ	0.68	0/1118	1.17	7/1497 (0.5%)
63	DZ	0.65	0/1118	1.19	9/1497 (0.6%)
64	Ba	1.20	4/1204 (0.3%)	1.51	16/1612 (1.0%)
64	Da	1.20	7/1204 (0.6%)	1.59	29/1612 (1.8%)
65	Bb	0.98	0/473	1.27	5/629 (0.8%)
65	Db	1.20	2/473 (0.4%)	1.61	10/629 (1.6%)
66	Bc	0.70	0/751	1.12	4/1008 (0.4%)
66	Dc	0.72	0/775	1.11	3/1040 (0.3%)
67	Bd	0.90	0/890	1.28	9/1196 (0.8%)
67	Dd	1.11	1/897 (0.1%)	1.32	8/1205 (0.7%)
68	Be	1.20	1/1041 (0.1%)	1.43	6/1394 (0.4%)
68	De	1.23	4/1041 (0.4%)	1.58	9/1394 (0.6%)
69	Bf	1.35	2/868 (0.2%)	1.48	10/1168 (0.9%)
69	Df	1.34	6/868 (0.7%)	1.40	6/1168 (0.5%)
70	Bg	0.90	1/890 (0.1%)	1.31	8/1189 (0.7%)
70	Dg	0.87	0/890	1.26	3/1189 (0.3%)
71	Bh	0.97	0/978	1.29	6/1301 (0.5%)
71	Dh	0.81	0/974	1.15	2/1297 (0.2%)
72	Bi	1.02	3/778 (0.4%)	1.37	7/1034 (0.7%)
72	Di	0.84	0/777	1.17	2/1033 (0.2%)
73	Bj	1.17	2/696 (0.3%)	1.52	8/923 (0.9%)
73	Dj	1.02	0/696	1.35	4/923 (0.4%)
74	Bk	0.71	0/618	1.18	5/826 (0.6%)
74	Dk	0.66	0/614	1.07	1/822 (0.1%)
75	Bl	1.02	0/443	1.39	5/588 (0.9%)
75	Dl	1.03	0/443	1.28	0/588
76	Bm	1.08	0/423	1.32	3/562 (0.5%)
76	Dm	1.29	0/423	1.42	5/562 (0.9%)
77	Bn	0.90	0/234	1.23	0/300
77	Dn	1.05	0/234	1.25	2/300 (0.7%)
78	Bo	0.95	0/860	1.26	5/1136 (0.4%)
78	Do	0.95	0/860	1.24	0/1136
79	Bp	0.98	0/701	1.36	5/934 (0.5%)
79	Dp	1.01	1/701 (0.1%)	1.38	8/934 (0.9%)
80	A6	0.63	4/42174 (0.0%)	0.60	2/65711 (0.0%)
81	Ch	0.84	0/480	1.26	3/642 (0.5%)
83	Dq	0.62	0/977	1.10	4/1313 (0.3%)
All	All	0.82	168/432157 (0.0%)	0.94	1413/634038 (0.2%)

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	CA	0	1
3	AB	0	1
5	CD	0	1
7	CF	0	2
9	AH	0	1
11	CJ	0	3
13	AL	0	1
16	AO	0	1
16	CO	0	1
17	CP	0	1
18	CQ	0	1
19	AR	0	2
22	CU	0	1
25	CX	0	1
27	AZ	0	3
27	CZ	0	2
29	Ab	0	1
33	Af	0	2
33	Cf	0	2
35	Ah	0	1
36	A1	0	3
36	A5	0	1
39	DA	0	2
40	BB	0	1
41	BC	0	1
41	DC	0	1
42	DD	0	1
43	BE	0	2
43	DE	0	1
44	BF	0	1
44	DF	0	2
45	BG	0	3
46	BH	0	1
48	BJ	0	1
52	BO	0	2
52	DO	0	2
56	DS	0	1
57	BT	0	1
59	DV	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
62	DY	0	1
63	DZ	0	1
64	Da	0	3
65	Bb	0	2
65	Db	0	1
67	Bd	0	1
78	Bo	0	1
All	All	0	67

All (168) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	Ah	134	ASP	CG-OD1	16.84	1.57	1.25
35	Ah	134	ASP	CG-OD2	15.23	1.54	1.25
39	DA	211	HIS	C-O	12.14	1.38	1.24
36	A1	2777	G	C5-C6	-11.61	1.19	1.42
52	BO	3[B]	SER	C-N	10.53	1.47	1.33
53	DP	66	SER	C-O	8.86	1.35	1.24
69	Df	91	ALA	N-CA	7.88	1.56	1.46
47	BI	14	ASN	CG-ND2	7.85	1.49	1.33
36	A5	2914	G	P-OP2	-7.70	1.33	1.49
41	DC	101	ALA	C-O	7.65	1.27	1.23
4	AC	206	THR	CA-CB	7.51	1.62	1.52
64	Da	15	VAL	C-O	7.41	1.33	1.24
26	AY	33	ALA	CA-CB	-7.13	1.43	1.53
3	CB	106	THR	CA-CB	7.10	1.65	1.53
41	BC	52	VAL	CA-CB	-7.05	1.47	1.54
36	A1	2800	G	P-OP1	-6.97	1.35	1.49
36	A5	1178	G	P-OP2	-6.94	1.35	1.49
68	De	28	VAL	CA-CB	6.83	1.62	1.53
39	DA	157	VAL	CA-CB	6.82	1.62	1.54
36	A5	2817	A	P-OP1	-6.82	1.35	1.49
49	DL	46	ILE	CA-CB	6.80	1.62	1.54
64	Da	15	VAL	CA-CB	-6.79	1.47	1.54
36	A5	41	G	P-OP1	-6.51	1.35	1.49
49	DL	76	THR	CA-CB	6.50	1.64	1.53
50	BM	38	ILE	C-O	-6.36	1.17	1.24
67	Dd	7	VAL	CA-CB	6.31	1.63	1.54
36	A5	934	G	P-OP1	-6.29	1.36	1.49
51	DN	183	THR	CA-CB	6.29	1.64	1.53
64	Da	28	HIS	N-CA	6.29	1.55	1.46
36	A5	1902	G	P-OP1	-6.25	1.36	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
70	Bg	22	VAL	CA-CB	-6.23	1.46	1.54
72	Bi	21	THR	CA-CB	6.16	1.63	1.53
36	A1	1308	A	P-OP2	-6.14	1.36	1.49
54	DQ	171	LYS	CE-NZ	6.13	1.67	1.49
36	A5	2141	U	P-OP2	-6.12	1.36	1.49
7	CF	40	ILE	CA-CB	6.10	1.62	1.54
36	A1	1430	U	P-OP1	-6.09	1.36	1.49
59	BV	102	ILE	CA-CB	6.08	1.61	1.54
36	A5	2949	U	P-OP1	-6.08	1.36	1.49
64	Ba	47	LYS	N-CA	6.06	1.54	1.46
65	Db	16	ALA	CA-CB	-6.05	1.42	1.53
36	A5	1430	U	P-OP1	-6.05	1.36	1.49
41	BC	353	ALA	CA-CB	-6.03	1.43	1.53
80	A6	100	A	P-OP2	-5.99	1.36	1.49
69	Bf	70	LYS	CE-NZ	5.98	1.67	1.49
41	DC	145	ILE	CA-CB	5.96	1.61	1.54
41	DC	354	VAL	C-O	-5.96	1.17	1.24
40	BB	7	GLU	CG-CD	5.94	1.67	1.52
40	BB	258	ALA	CA-CB	-5.94	1.44	1.52
49	BL	46	ILE	CA-CB	5.94	1.62	1.54
69	Df	22	VAL	CA-CB	-5.93	1.46	1.54
36	A5	1152	G	N9-C4	-5.91	1.26	1.38
36	A5	2887	A	P-OP2	-5.91	1.37	1.49
56	DS	29	ILE	CA-CB	-5.87	1.47	1.54
35	Ah	65	THR	CA-CB	5.85	1.62	1.53
39	DA	225	ILE	C-O	-5.84	1.17	1.24
36	A5	340	C	P-OP1	-5.81	1.37	1.49
41	BC	316	ASN	CA-C	-5.79	1.47	1.53
54	BQ	102	ALA	CA-CB	-5.79	1.45	1.53
56	DS	36	ILE	CA-CB	-5.77	1.47	1.54
40	BB	7	GLU	CB-CG	5.74	1.69	1.52
36	A5	1449	A	P-OP2	-5.73	1.37	1.49
64	Ba	24	LYS	CE-NZ	5.73	1.66	1.49
57	BT	75	ILE	CA-CB	5.72	1.61	1.54
4	AC	206	THR	CA-C	5.71	1.59	1.52
64	Ba	66	ALA	CA-C	-5.71	1.45	1.52
47	BI	165	ILE	CA-CB	5.71	1.61	1.54
36	A1	922	U	P-OP2	-5.70	1.37	1.49
41	BC	101	ALA	C-O	5.70	1.26	1.23
59	DV	73	VAL	CA-CB	5.68	1.61	1.54
53	DP	137	ASN	CA-C	-5.67	1.45	1.52
46	BH	172	ILE	CA-CB	5.66	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
72	Bi	77	LEU	CA-C	-5.66	1.47	1.53
41	DC	101	ALA	CA-CB	-5.65	1.48	1.52
39	BA	48	ILE	CA-CB	5.63	1.62	1.54
40	BB	41	VAL	CA-CB	-5.63	1.47	1.54
44	DF	227	GLY	C-O	-5.63	1.18	1.23
69	Bf	98	VAL	CA-CB	-5.62	1.49	1.55
25	AX	84	THR	CA-CB	5.61	1.61	1.53
49	BL	57	VAL	CA-C	-5.60	1.46	1.52
64	Ba	46	ASP	CA-C	-5.58	1.45	1.52
21	AT	39	THR	CA-CB	5.55	1.62	1.53
49	BL	142	ALA	CA-CB	-5.55	1.44	1.53
55	BR	25	ASP	CA-C	-5.55	1.46	1.52
36	A5	942	U	P-OP1	-5.54	1.37	1.49
72	Bi	18	THR	CA-CB	5.53	1.61	1.53
36	A1	979	U	C1'-N1	5.46	1.55	1.47
56	BS	51	VAL	CA-CB	-5.45	1.51	1.55
4	CC	199	GLN	CA-C	-5.45	1.46	1.52
80	A6	101	U	P-OP2	-5.44	1.38	1.49
36	A1	878	G	P-OP2	-5.43	1.38	1.49
47	BI	217	PHE	CA-C	5.42	1.60	1.52
79	Dp	54	ILE	CA-CB	5.41	1.60	1.54
69	Df	36	ALA	CA-CB	-5.40	1.45	1.54
54	BQ	162	ALA	CA-CB	5.40	1.61	1.53
36	A5	1307	G	C3'-O3'	5.40	1.51	1.43
40	DB	227	GLU	CA-C	-5.37	1.46	1.52
4	AC	96	THR	CA-CB	5.37	1.59	1.53
54	BQ	150	VAL	CA-CB	5.36	1.62	1.54
53	DP	88	VAL	CA-CB	-5.36	1.48	1.54
36	A5	1152	G	C2-N3	-5.35	1.22	1.32
68	De	77	ALA	CA-CB	-5.34	1.44	1.53
80	A6	337	G	C2-N2	5.33	1.45	1.34
41	DC	358	THR	CA-CB	5.31	1.62	1.53
69	Df	50	ALA	CA-CB	-5.31	1.43	1.53
53	BP	129	THR	CB-CG2	-5.30	1.35	1.52
57	DT	150	THR	CA-CB	5.30	1.60	1.53
2	AA	103	THR	CA-CB	5.29	1.61	1.53
31	Ad	6	VAL	CA-CB	5.29	1.61	1.54
53	BP	67	ILE	CA-CB	5.28	1.61	1.54
36	A5	2754	G	P-OP1	-5.28	1.38	1.49
64	Da	8	THR	N-CA	-5.28	1.39	1.46
1	A2	49	C	P-OP2	-5.27	1.38	1.49
41	BC	141	ARG	CA-C	-5.26	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	A5	1835	A	P-OP1	-5.26	1.38	1.49
36	A5	1152	G	N9-C8	5.25	1.48	1.37
69	Df	52	VAL	CA-CB	5.25	1.60	1.54
36	A1	3242	G	N9-C4	-5.25	1.27	1.38
23	AV	59	VAL	CA-CB	-5.25	1.48	1.54
36	A5	1369	A	P-OP2	-5.25	1.38	1.49
57	DT	44	ALA	CA-CB	-5.25	1.45	1.53
40	BB	364	LYS	C-O	-5.24	1.17	1.23
51	BN	185	ALA	CA-CB	-5.24	1.44	1.53
24	CW	6	VAL	CA-CB	5.23	1.61	1.54
48	DJ	8	PRO	CB-CG	5.22	1.75	1.49
50	BM	104	ALA	CA-CB	-5.22	1.45	1.53
44	DF	130	ILE	CA-CB	-5.22	1.48	1.54
64	Da	22	ILE	CA-CB	-5.21	1.47	1.54
2	CA	65	ALA	CA-CB	-5.21	1.45	1.53
56	DS	35	VAL	CA-CB	-5.21	1.48	1.54
73	Bj	36	SER	CA-C	-5.21	1.47	1.52
41	DC	52	VAL	CA-CB	-5.19	1.49	1.54
41	BC	228	ALA	CA-CB	-5.19	1.45	1.53
15	CN	66	ILE	CA-CB	5.18	1.61	1.54
39	DA	12	ALA	CA-CB	-5.18	1.44	1.53
50	BM	38	ILE	CA-CB	-5.18	1.47	1.54
64	Da	47	LYS	N-CA	5.15	1.52	1.46
36	A5	2945	G	P-O5'	-5.14	1.52	1.59
39	BA	5	ILE	CA-CB	-5.13	1.47	1.54
56	BS	61	ILE	CA-CB	5.13	1.61	1.54
36	A1	348	A	P-OP1	-5.11	1.38	1.49
40	DB	260	VAL	CA-CB	-5.11	1.49	1.54
42	DD	119	TYR	N-CA	5.10	1.52	1.46
36	A5	2214	A	P-OP2	-5.10	1.38	1.49
59	DV	13	ILE	CA-CB	5.10	1.61	1.54
65	Db	15	LYS	C-O	-5.10	1.18	1.24
69	Df	91	ALA	CA-CB	5.09	1.62	1.53
36	A1	1307	G	C3'-O3'	5.09	1.50	1.43
9	CH	185	ILE	CA-C	5.09	1.58	1.52
56	BS	166	LYS	CA-C	-5.08	1.49	1.52
68	De	12	LYS	N-CA	5.08	1.52	1.46
40	DB	53	MET	SD-CE	-5.08	1.66	1.79
80	A6	1097	U	C3'-O3'	5.07	1.50	1.43
51	DN	183	THR	N-CA	5.05	1.52	1.46
36	A5	1837	U	P-OP2	-5.04	1.38	1.49
44	BF	169	ILE	CA-CB	-5.04	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	CO	126	THR	CA-CB	5.04	1.61	1.53
73	Bj	26	SER	N-CA	-5.04	1.41	1.46
40	DB	367	LYS	CE-NZ	5.04	1.64	1.49
36	A5	348	A	P-OP1	-5.03	1.38	1.49
39	BA	218	HIS	C-O	-5.03	1.17	1.24
44	BF	92	ILE	CA-CB	5.02	1.61	1.54
53	DP	130	TYR	C-O	-5.02	1.18	1.23
36	A1	635	G	P-OP2	-5.01	1.39	1.49
68	Be	12	LYS	N-CA	5.01	1.52	1.46
68	De	29	ALA	CA-CB	-5.01	1.45	1.53
64	Da	24	LYS	CE-NZ	5.01	1.64	1.49
49	DL	152	THR	CA-CB	5.00	1.61	1.53

All (1413) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	De	4	LEU	CA-C-N	-17.06	98.52	119.84
68	De	4	LEU	C-N-CA	-17.06	98.52	119.84
60	BW	80	ARG	CA-C-N	16.93	141.00	119.84
60	BW	80	ARG	C-N-CA	16.93	141.00	119.84
54	BQ	18	ALA	CA-C-N	-13.34	107.24	120.31
54	BQ	18	ALA	C-N-CA	-13.34	107.24	120.31
56	BS	51	VAL	CB-CA-C	-12.70	99.80	111.74
18	CQ	40	GLU	CA-C-N	-12.37	107.69	119.82
18	CQ	40	GLU	C-N-CA	-12.37	107.69	119.82
49	DL	47	ALA	CA-C-N	-12.25	106.97	120.94
49	DL	47	ALA	C-N-CA	-12.25	106.97	120.94
49	BL	49	ARG	CA-C-N	-11.84	105.04	119.84
49	BL	49	ARG	C-N-CA	-11.84	105.04	119.84
49	DL	46	ILE	N-CA-C	-11.31	102.04	112.90
25	AX	130	VAL	N-CA-C	11.28	121.26	111.56
48	BJ	54	VAL	N-CA-C	10.98	120.29	111.62
35	Ah	134	ASP	CA-CB-CG	10.94	123.54	112.60
56	DS	134	ASP	N-CA-C	-10.74	99.75	113.72
40	BB	316	GLU	N-CA-C	10.37	126.07	113.41
29	Cb	37	CYS	CA-C-N	10.31	132.73	119.84
29	Cb	37	CYS	C-N-CA	10.31	132.73	119.84
19	CR	117	LEU	CA-C-N	10.26	130.18	120.03
19	CR	117	LEU	C-N-CA	10.26	130.18	120.03
48	BJ	7	ASN	CA-C-N	10.22	132.61	119.84
48	BJ	7	ASN	C-N-CA	10.22	132.61	119.84
12	AK	88	PRO	N-CA-CB	10.22	113.98	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	Ba	46	ASP	N-CA-C	-10.21	94.08	110.32
81	Ch	43	ASP	CA-C-N	10.07	129.69	119.82
81	Ch	43	ASP	C-N-CA	10.07	129.69	119.82
79	Dp	16	VAL	CB-CA-C	9.92	120.52	110.70
61	BX	43	ALA	CA-C-N	9.91	132.23	119.84
61	BX	43	ALA	C-N-CA	9.91	132.23	119.84
73	Bj	5	THR	CA-C-N	-9.86	109.50	119.56
73	Bj	5	THR	C-N-CA	-9.86	109.50	119.56
54	DQ	59	ARG	CA-C-N	-9.84	110.25	120.38
54	DQ	59	ARG	C-N-CA	-9.84	110.25	120.38
35	Ah	38	PRO	CA-C-N	9.82	130.49	120.38
35	Ah	38	PRO	C-N-CA	9.82	130.49	120.38
5	CD	210	GLU	CA-C-N	9.82	132.11	119.84
5	CD	210	GLU	C-N-CA	9.82	132.11	119.84
11	AJ	14	THR	CA-C-N	9.73	130.34	119.93
11	AJ	14	THR	C-N-CA	9.73	130.34	119.93
68	Be	42	VAL	N-CA-C	-9.70	102.43	111.45
27	AZ	95	HIS	N-CA-C	9.62	126.46	108.65
52	DO	109[A]	PRO	O-C-N	9.56	125.64	121.15
52	DO	109[B]	PRO	O-C-N	9.56	125.64	121.15
63	DZ	27	LYS	CA-C-N	9.53	130.52	119.47
63	DZ	27	LYS	C-N-CA	9.53	130.52	119.47
17	CP	52	LYS	CA-C-N	-9.52	111.12	120.83
17	CP	52	LYS	C-N-CA	-9.52	111.12	120.83
39	BA	207	VAL	CB-CA-C	-9.47	98.22	112.05
56	BS	40	ARG	N-CA-C	-9.42	101.09	111.36
73	Dj	5	THR	CA-C-N	-9.37	109.25	119.19
73	Dj	5	THR	C-N-CA	-9.37	109.25	119.19
61	DX	65	GLN	CA-C-N	-9.36	111.22	120.21
61	DX	65	GLN	C-N-CA	-9.36	111.22	120.21
18	AQ	43	ILE	N-CA-C	-9.34	101.46	110.42
79	Dp	15	GLY	CA-C-N	-9.33	111.54	122.36
79	Dp	15	GLY	C-N-CA	-9.33	111.54	122.36
49	BL	57	VAL	N-CA-C	-9.31	96.51	109.45
72	Bi	27	SER	N-CA-C	-9.31	96.09	109.96
7	CF	99	MET	N-CA-C	9.31	120.53	108.34
44	BF	216	VAL	N-CA-C	9.25	128.86	108.88
79	Bp	71	VAL	CB-CA-C	-9.24	100.26	111.81
49	BL	47	ALA	CA-C-N	-9.12	110.42	121.00
49	BL	47	ALA	C-N-CA	-9.12	110.42	121.00
49	BL	174	ARG	N-CA-C	-9.10	101.36	111.28
41	BC	192	GLY	N-CA-C	-9.07	101.22	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	DB	114	VAL	CB-CA-C	-9.02	100.15	112.24
54	DQ	170	ARG	N-CA-C	-9.01	98.09	110.35
49	BL	57	VAL	CB-CA-C	-9.01	99.06	111.49
25	CX	41	SER	N-CA-C	8.98	119.93	109.60
49	BL	38	ALA	N-CA-C	-8.95	101.17	112.90
51	BN	185	ALA	N-CA-C	-8.94	102.29	113.02
64	Da	46	ASP	N-CA-C	-8.94	95.78	110.17
66	Bc	48	THR	CA-C-N	8.91	128.99	119.90
66	Bc	48	THR	C-N-CA	8.91	128.99	119.90
44	DF	94	LYS	CA-C-N	-8.85	113.69	123.43
44	DF	94	LYS	C-N-CA	-8.85	113.69	123.43
40	DB	2	SER	N-CA-C	-8.84	86.24	111.00
20	CS	93	THR	N-CA-C	-8.82	102.44	113.55
67	Dd	46	THR	N-CA-C	8.81	120.66	111.14
20	AS	58	ALA	N-CA-C	-8.81	101.76	111.36
64	Da	15	VAL	N-CA-C	-8.80	96.89	110.09
64	Da	67	HIS	N-CA-C	-8.78	101.64	111.82
12	CK	97	PRO	N-CA-CB	8.76	112.45	103.25
29	Ab	37	CYS	CA-C-N	8.76	130.79	119.84
29	Ab	37	CYS	C-N-CA	8.76	130.79	119.84
46	DH	151	VAL	CB-CA-C	-8.74	100.59	112.04
41	BC	327	LEU	N-CA-C	-8.73	98.76	110.55
11	CJ	124	HIS	N-CA-C	-8.69	101.77	111.07
31	Ad	9	SER	N-CA-C	8.68	123.60	108.75
58	DU	46	ALA	N-CA-C	8.67	119.37	108.45
48	DJ	9	MET	N-CA-C	-8.64	92.39	110.80
2	CA	202	TYR	N-CA-C	-8.64	97.69	110.48
49	BL	75	PHE	N-CA-C	8.62	123.80	113.28
65	Db	39	PHE	N-CA-CB	8.59	125.00	110.49
50	BM	53	VAL	N-CA-C	8.53	116.38	107.76
41	BC	3	ARG	CA-C-N	8.52	130.49	119.84
41	BC	3	ARG	C-N-CA	8.52	130.49	119.84
45	BG	71	VAL	CA-C-N	8.52	125.88	119.66
45	BG	71	VAL	C-N-CA	8.52	125.88	119.66
41	BC	204	GLY	CA-C-N	-8.52	111.96	120.31
41	BC	204	GLY	C-N-CA	-8.52	111.96	120.31
42	DD	271	LYS	N-CA-C	-8.50	101.03	112.26
17	CP	124	THR	CA-C-N	8.47	130.43	119.84
17	CP	124	THR	C-N-CA	8.47	130.43	119.84
65	Db	23	LYS	CA-C-N	-8.41	109.33	119.84
65	Db	23	LYS	C-N-CA	-8.41	109.33	119.84
39	DA	55	GLY	N-CA-C	-8.40	102.27	111.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	AR	85	VAL	CA-C-N	8.35	130.28	119.84
19	AR	85	VAL	C-N-CA	8.35	130.28	119.84
5	AD	210	GLU	CA-C-N	8.34	130.26	119.84
5	AD	210	GLU	C-N-CA	8.34	130.26	119.84
64	Da	28	HIS	N-CA-C	8.33	128.23	109.81
39	DA	238	ILE	CA-C-N	-8.26	109.30	123.25
39	DA	238	ILE	C-N-CA	-8.26	109.30	123.25
20	AS	144	ARG	N-CA-C	-8.23	102.00	110.97
36	A5	1152	G	C8-N9-C1'	8.23	151.68	127.00
65	Bb	23	LYS	CA-C-N	-8.19	111.36	120.45
65	Bb	23	LYS	C-N-CA	-8.19	111.36	120.45
67	Dd	6	ASP	N-CA-C	8.16	120.70	109.11
54	BQ	59	ARG	CA-C-N	-8.08	112.05	120.38
54	BQ	59	ARG	C-N-CA	-8.08	112.05	120.38
51	BN	93	LYS	N-CA-C	8.06	124.29	113.97
41	BC	316	ASN	CA-C-N	-8.04	109.79	119.84
41	BC	316	ASN	C-N-CA	-8.04	109.79	119.84
30	Cc	30	VAL	N-CA-C	8.04	119.48	107.75
48	DJ	151	SER	N-CA-C	-8.03	99.93	110.53
45	BG	158	ASP	N-CA-C	8.02	127.53	109.81
67	Bd	64	VAL	CB-CA-C	-8.01	100.36	112.05
41	BC	330	TYR	N-CA-C	-7.99	102.98	112.89
6	CE	30	ARG	CA-C-N	7.99	128.48	119.93
6	CE	30	ARG	C-N-CA	7.99	128.48	119.93
47	DI	169	LYS	N-CA-C	-7.99	98.20	110.10
54	BQ	99	THR	N-CA-C	7.98	127.81	110.80
64	Da	15	VAL	CA-C-N	-7.97	110.91	125.66
64	Da	15	VAL	C-N-CA	-7.97	110.91	125.66
2	CA	108	THR	N-CA-C	-7.97	99.79	110.55
69	Df	49	ILE	CB-CA-C	-7.96	98.56	110.82
56	BS	23	LYS	N-CA-C	7.96	120.86	111.71
42	BD	231	ILE	CB-CA-C	-7.96	103.19	111.23
40	DB	205	VAL	CB-CA-C	-7.96	99.82	112.16
22	CU	70	THR	CA-C-N	-7.95	112.58	120.21
22	CU	70	THR	C-N-CA	-7.95	112.58	120.21
52	DO	3[B]	SER	CA-C-N	7.92	141.13	121.80
52	DO	3[B]	SER	C-N-CA	7.92	141.13	121.80
28	Ca	17	HIS	N-CA-C	7.92	122.73	108.48
65	Db	38	LYS	N-CA-C	-7.91	98.57	110.28
40	DB	129	ALA	CA-C-N	-7.91	109.82	122.95
40	DB	129	ALA	C-N-CA	-7.91	109.82	122.95
65	Bb	14	ARG	N-CA-C	-7.90	102.67	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	BC	283	THR	CB-CA-C	-7.90	94.70	110.42
69	Bf	37	THR	CA-C-N	-7.88	111.68	119.64
69	Bf	37	THR	C-N-CA	-7.88	111.68	119.64
51	DN	182	ASN	N-CA-C	-7.87	98.67	110.24
39	DA	232	GLY	N-CA-C	-7.86	104.60	113.79
9	AH	185	ILE	CA-C-N	-7.85	110.02	119.84
9	AH	185	ILE	C-N-CA	-7.85	110.02	119.84
44	BF	215	GLY	N-CA-C	-7.85	98.56	112.22
49	BL	42	ARG	N-CA-C	-7.85	102.81	111.36
16	AO	81	VAL	N-CA-C	7.85	119.91	108.53
67	Bd	111	GLU	N-CA-C	7.84	120.77	109.71
56	DS	19	VAL	CA-C-N	-7.83	112.76	120.52
56	DS	19	VAL	C-N-CA	-7.83	112.76	120.52
32	Ce	59	GLY	CA-C-N	7.82	129.62	119.84
32	Ce	59	GLY	C-N-CA	7.82	129.62	119.84
36	A1	2777	G	C5-C6-O6	-7.82	105.14	128.60
48	DJ	133	ARG	CA-C-N	-7.76	112.00	119.76
48	DJ	133	ARG	C-N-CA	-7.76	112.00	119.76
64	Da	14	HIS	N-CA-C	-7.75	97.05	109.76
40	BB	29	VAL	CB-CA-C	-7.75	103.59	111.80
9	CH	185	ILE	CA-C-N	-7.75	112.85	120.52
9	CH	185	ILE	C-N-CA	-7.75	112.85	120.52
55	BR	71	ARG	N-CA-C	-7.74	103.29	112.89
40	BB	291	GLU	N-CA-C	-7.73	100.32	110.53
41	DC	319	LYS	N-CA-C	-7.73	98.77	110.14
33	Cf	123	ASN	CA-C-N	7.73	129.50	119.84
33	Cf	123	ASN	C-N-CA	7.73	129.50	119.84
42	DD	6	ASP	N-CA-C	-7.73	103.83	112.57
44	BF	138	TYR	CA-C-N	-7.72	111.66	119.99
44	BF	138	TYR	C-N-CA	-7.72	111.66	119.99
50	BM	30	GLY	N-CA-C	-7.71	105.19	115.21
49	DL	100	ARG	N-CA-C	-7.70	100.37	110.53
12	AK	63	TYR	N-CA-C	7.69	125.55	114.39
54	BQ	57	ILE	N-CA-C	-7.69	102.96	110.72
22	AU	75	GLY	N-CA-C	-7.68	104.65	111.95
51	DN	185	ALA	N-CA-C	-7.66	103.93	113.20
44	DF	191	VAL	CA-C-N	-7.65	109.86	121.87
44	DF	191	VAL	C-N-CA	-7.65	109.86	121.87
2	CA	3	LEU	CA-C-N	7.64	129.40	119.84
2	CA	3	LEU	C-N-CA	7.64	129.40	119.84
54	DQ	99	THR	N-CA-C	7.64	127.08	110.80
49	BL	26	PHE	N-CA-C	-7.63	103.85	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	BM	113	THR	N-CA-C	-7.63	98.32	110.14
55	BR	160	GLU	N-CA-C	-7.62	102.62	112.23
31	Cd	16	LYS	CA-C-N	-7.62	115.22	123.30
31	Cd	16	LYS	C-N-CA	-7.62	115.22	123.30
45	BG	158	ASP	CA-C-N	7.58	129.31	119.84
45	BG	158	ASP	C-N-CA	7.58	129.31	119.84
6	AE	76	VAL	N-CA-C	7.56	117.64	110.53
64	Da	101	VAL	N-CA-C	-7.56	101.81	110.05
13	CL	122	ILE	N-CA-C	-7.55	97.19	109.12
11	CJ	101	VAL	N-CA-C	7.55	117.67	110.42
64	Ba	66	ALA	N-CA-C	-7.55	94.72	110.80
31	Cd	9	SER	N-CA-C	7.55	119.61	108.14
41	BC	82	THR	CA-C-N	-7.51	111.52	123.31
41	BC	82	THR	C-N-CA	-7.51	111.52	123.31
31	Ad	24	CYS	N-CA-C	7.47	122.45	112.30
12	CK	27	PHE	N-CA-C	-7.47	100.67	110.53
41	BC	139	GLY	N-CA-C	-7.46	98.65	112.37
70	Dg	7	PHE	N-CA-C	-7.44	100.01	110.50
52	BO	69[A]	GLY	CA-C-N	7.44	127.89	119.93
52	BO	69[A]	GLY	C-N-CA	7.44	127.89	119.93
52	BO	69[B]	GLY	CA-C-N	7.44	127.89	119.93
52	BO	69[B]	GLY	C-N-CA	7.44	127.89	119.93
51	DN	67	ARG	N-CA-C	7.44	120.45	111.82
70	Bg	71	THR	CB-CA-C	-7.43	96.56	110.16
52	DO	108[A]	ILE	CA-C-N	7.43	125.09	119.66
52	DO	108[A]	ILE	C-N-CA	7.43	125.09	119.66
52	DO	108[B]	ILE	CA-C-N	7.43	125.09	119.66
52	DO	108[B]	ILE	C-N-CA	7.43	125.09	119.66
59	BV	9	THR	N-CA-C	-7.43	99.22	110.14
29	Ab	43	ILE	N-CA-C	7.42	118.58	107.75
42	DD	126	GLU	N-CA-C	-7.42	101.97	113.02
41	BC	230	VAL	CB-CA-C	-7.41	100.67	112.16
18	AQ	40	GLU	C-N-CD	-7.41	104.29	120.60
56	DS	52	LYS	N-CA-C	-7.41	98.14	109.85
27	CZ	86	GLU	N-CA-C	-7.41	97.16	109.24
41	DC	340	GLY	N-CA-C	-7.41	104.11	115.66
8	AG	85	ARG	CA-C-N	7.40	127.39	119.76
8	AG	85	ARG	C-N-CA	7.40	127.39	119.76
9	CH	146	GLY	N-CA-C	7.40	121.49	113.58
3	AB	205	PHE	CA-C-N	7.39	129.08	119.84
3	AB	205	PHE	C-N-CA	7.39	129.08	119.84
49	BL	141	ALA	N-CA-C	-7.39	95.06	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	AQ	69	VAL	CB-CA-C	-7.38	100.81	110.84
3	AB	132	ASP	N-CA-C	7.37	119.94	110.65
21	AT	38	LYS	N-CA-C	7.37	122.33	113.12
18	AQ	40	GLU	CA-C-N	7.37	144.68	127.00
18	AQ	40	GLU	C-N-CA	7.37	144.68	127.00
79	Dp	71	VAL	CB-CA-C	-7.36	102.28	111.70
57	BT	11	THR	N-CA-C	7.35	121.96	112.92
3	CB	204	ILE	CB-CA-C	-7.34	104.25	111.30
49	DL	50	PRO	CA-C-O	-7.33	110.33	118.68
17	CP	74	ALA	CA-C-N	7.33	129.00	119.84
17	CP	74	ALA	C-N-CA	7.33	129.00	119.84
27	CZ	88	ILE	N-CA-C	-7.32	103.65	110.53
51	DN	61	ILE	N-CA-C	7.31	118.42	107.75
6	CE	103	TYR	N-CA-C	7.31	121.74	110.20
41	DC	341	SER	N-CA-C	-7.30	101.74	108.75
36	A5	1152	G	C4-N9-C1'	-7.30	104.59	126.50
50	DM	53	VAL	CA-C-N	7.28	128.43	119.98
50	DM	53	VAL	C-N-CA	7.28	128.43	119.98
72	Bi	14	GLY	N-CA-C	7.27	119.42	112.08
44	DF	130	ILE	N-CA-CB	-7.26	103.69	112.33
33	Cf	144	CYS	N-CA-C	-7.25	99.42	110.30
14	CM	86	VAL	CA-C-N	7.25	128.90	119.84
14	CM	86	VAL	C-N-CA	7.25	128.90	119.84
36	A5	1307	G	C2'-C3'-O3'	7.25	120.37	109.50
60	DW	75	THR	N-CA-C	7.24	120.20	108.76
42	BD	126	GLU	N-CA-C	-7.23	104.06	113.17
59	BV	91	VAL	N-CA-C	7.23	119.48	108.71
42	DD	37	VAL	N-CA-C	7.23	117.33	110.53
79	Bp	59	CYS	N-CA-C	-7.22	100.80	110.55
33	Af	146	SER	N-CA-C	-7.21	106.40	114.62
50	BM	4	ASP	N-CA-C	-7.20	99.55	110.14
41	DC	230	VAL	CB-CA-C	-7.18	101.56	112.05
58	DU	90	ARG	N-CA-C	-7.18	99.83	110.23
9	CH	131	PHE	CA-C-N	-7.17	110.87	119.84
9	CH	131	PHE	C-N-CA	-7.17	110.87	119.84
7	CF	207	THR	N-CA-C	-7.17	104.27	113.16
71	Dh	41	LEU	CA-C-N	7.16	126.78	119.19
71	Dh	41	LEU	C-N-CA	7.16	126.78	119.19
79	Dp	16	VAL	N-CA-C	-7.15	106.33	113.20
12	CK	83	PRO	N-CA-CB	7.15	110.76	103.25
41	DC	204	GLY	CA-C-N	-7.14	113.31	120.31
41	DC	204	GLY	C-N-CA	-7.14	113.31	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	BC	181	VAL	N-CA-C	-7.13	99.39	110.09
52	DO	109[A]	PRO	CA-C-O	-7.12	115.10	120.73
52	DO	109[B]	PRO	CA-C-O	-7.12	115.10	120.73
15	AN	22	ALA	CA-C-N	7.12	144.09	127.00
15	AN	22	ALA	C-N-CA	7.12	144.09	127.00
40	BB	357	LYS	N-CA-C	-7.11	105.14	113.88
39	DA	207	VAL	CB-CA-C	-7.11	101.14	112.16
26	CY	60	PHE	N-CA-C	7.11	119.85	108.41
2	AA	108	THR	N-CA-C	-7.10	100.01	110.52
65	Db	19	ASN	CA-C-N	-7.08	115.72	122.66
65	Db	19	ASN	C-N-CA	-7.08	115.72	122.66
48	DJ	65	ILE	CB-CA-C	-7.08	104.83	111.06
4	AC	111	VAL	CB-CA-C	-7.08	102.08	111.70
53	BP	140	GLU	N-CA-C	7.07	120.98	109.59
45	DG	72	PRO	CA-C-N	7.07	128.68	119.84
45	DG	72	PRO	C-N-CA	7.07	128.68	119.84
7	AF	44	ASN	N-CA-C	-7.07	102.62	111.11
2	CA	6	THR	N-CA-C	-7.07	103.57	111.28
6	AE	28	ALA	CA-C-N	-7.07	112.48	119.90
6	AE	28	ALA	C-N-CA	-7.07	112.48	119.90
59	BV	49	LEU	CA-C-N	-7.07	112.71	119.85
59	BV	49	LEU	C-N-CA	-7.07	112.71	119.85
44	BF	89	ILE	N-CA-C	-7.05	106.62	113.53
53	BP	118	GLN	CA-C-N	-7.05	114.45	123.19
53	BP	118	GLN	C-N-CA	-7.05	114.45	123.19
34	Cg	283	LYS	N-CA-C	-7.03	104.83	113.41
51	DN	90	ASN	CA-C-N	-7.03	111.37	123.25
51	DN	90	ASN	C-N-CA	-7.03	111.37	123.25
49	DL	75	PHE	N-CA-C	7.02	122.10	112.90
54	BQ	162	ALA	CA-C-N	7.02	127.06	119.90
54	BQ	162	ALA	C-N-CA	7.02	127.06	119.90
39	DA	14	SER	CB-CA-C	-7.01	108.48	116.54
13	CL	128	CYS	N-CA-C	7.00	124.52	114.16
15	CN	65	VAL	N-CA-C	-6.99	102.31	110.21
76	Bm	79	GLU	CA-C-N	6.99	126.51	119.24
76	Bm	79	GLU	C-N-CA	6.99	126.51	119.24
51	DN	76	PRO	CA-C-N	-6.99	111.44	123.25
51	DN	76	PRO	C-N-CA	-6.99	111.44	123.25
2	AA	3	LEU	CA-C-N	6.98	128.57	119.84
2	AA	3	LEU	C-N-CA	6.98	128.57	119.84
40	BB	7	GLU	CB-CA-C	6.98	121.05	109.53
43	BE	21	THR	N-CA-C	6.97	120.11	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
70	Bg	11	ASN	CA-C-N	6.96	127.91	120.47
70	Bg	11	ASN	C-N-CA	6.96	127.91	120.47
28	Ca	26	CYS	N-CA-C	-6.96	104.60	113.23
6	AE	105	VAL	N-CA-C	-6.95	105.28	113.42
15	AN	22	ALA	C-N-CD	-6.93	105.34	120.60
56	DS	5	LYS	N-CA-C	-6.93	98.77	109.52
13	AL	135	VAL	N-CA-C	6.93	117.98	108.84
6	CE	149	TYR	CA-C-N	-6.93	111.18	119.84
6	CE	149	TYR	C-N-CA	-6.93	111.18	119.84
47	BI	189	GLU	N-CA-C	6.92	121.34	112.34
12	AK	82	LEU	CA-C-N	6.91	126.94	119.89
12	AK	82	LEU	C-N-CA	6.91	126.94	119.89
44	DF	95	ILE	CA-C-N	6.91	127.50	120.38
44	DF	95	ILE	C-N-CA	6.91	127.50	120.38
40	DB	81	THR	CA-C-N	-6.91	113.27	120.38
40	DB	81	THR	C-N-CA	-6.91	113.27	120.38
53	DP	51	VAL	N-CA-C	-6.91	102.18	111.44
11	CJ	90	LYS	N-CA-C	-6.91	102.15	110.44
45	BG	72	PRO	CA-C-N	6.90	128.46	119.84
45	BG	72	PRO	C-N-CA	6.90	128.46	119.84
69	Bf	89	LEU	CA-C-N	6.87	126.55	119.82
69	Bf	89	LEU	C-N-CA	6.87	126.55	119.82
49	BL	7	LEU	CA-C-N	-6.86	112.92	119.85
49	BL	7	LEU	C-N-CA	-6.86	112.92	119.85
46	DH	143	GLU	N-CA-C	6.86	122.19	113.55
48	BJ	101	ASN	N-CA-C	-6.85	99.82	109.69
5	AD	219	ALA	CA-C-N	6.85	128.40	119.84
5	AD	219	ALA	C-N-CA	6.85	128.40	119.84
41	DC	90	PHE	CA-C-N	-6.85	107.98	121.41
41	DC	90	PHE	C-N-CA	-6.85	107.98	121.41
73	Bj	29	VAL	N-CA-C	6.84	116.94	110.30
25	AX	45	GLY	N-CA-C	-6.84	105.07	114.64
56	BS	134	ASP	N-CA-C	-6.82	104.85	113.72
10	AI	148	ALA	N-CA-C	-6.82	101.98	111.39
73	Bj	79	GLN	CB-CA-C	-6.82	100.23	109.71
48	BJ	21	ILE	N-CA-C	6.81	117.55	106.72
2	AA	202	TYR	N-CA-C	-6.81	101.09	110.35
45	BG	106	LYS	N-CA-C	-6.81	103.78	111.07
63	BZ	75	VAL	N-CA-C	6.80	117.59	108.27
67	Dd	90	PHE	CB-CA-C	-6.80	97.45	110.24
6	AE	30	ARG	CA-C-N	6.79	127.20	119.93
6	AE	30	ARG	C-N-CA	6.79	127.20	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	CX	79	ASN	CB-CA-C	-6.79	97.66	109.07
16	CO	119	THR	CA-C-N	6.79	127.16	119.83
16	CO	119	THR	C-N-CA	6.79	127.16	119.83
50	BM	78	THR	N-CA-C	6.77	119.23	111.11
60	DW	79	GLN	N-CA-C	6.77	120.43	109.40
44	DF	177	GLY	N-CA-C	-6.76	100.45	112.22
63	DZ	90	GLU	N-CA-C	6.76	119.27	111.02
69	Df	86	ARG	N-CA-C	-6.75	103.92	111.28
41	BC	328	ASN	N-CA-C	6.75	124.72	109.81
49	BL	69	VAL	N-CA-C	-6.75	97.81	108.95
36	A1	2777	G	C4-C5-N7	6.73	130.99	110.80
72	Bi	26	ILE	CB-CA-C	-6.73	103.21	112.02
57	DT	11	THR	N-CA-C	6.72	121.19	112.92
67	Dd	40	ALA	N-CA-C	-6.72	103.88	111.07
36	A1	1307	G	C2'-C3'-O3'	6.71	119.57	109.50
6	CE	181	VAL	N-CA-C	6.71	117.97	108.17
45	BG	70	LYS	CA-C-N	-6.71	116.86	123.04
45	BG	70	LYS	C-N-CA	-6.71	116.86	123.04
81	Ch	45	SER	N-CA-C	-6.71	102.16	110.41
33	Cf	107	LYS	N-CA-C	6.71	120.09	110.10
47	DI	153	ARG	N-CA-C	-6.70	104.12	112.90
68	De	16	LYS	N-CA-C	6.70	118.37	111.14
60	BW	91	LYS	N-CA-C	-6.70	106.31	114.75
55	DR	45	VAL	N-CA-C	-6.69	103.70	111.00
3	CB	22	ASP	CA-C-N	6.68	126.38	119.56
3	CB	22	ASP	C-N-CA	6.68	126.38	119.56
12	AK	87	VAL	CA-C-N	6.68	128.19	119.84
12	AK	87	VAL	C-N-CA	6.68	128.19	119.84
45	DG	128	LYS	CA-C-N	6.68	126.86	120.31
45	DG	128	LYS	C-N-CA	6.68	126.86	120.31
64	Da	72	VAL	N-CA-C	6.67	119.02	108.87
40	DB	241	LYS	CA-C-N	-6.67	111.88	121.42
40	DB	241	LYS	C-N-CA	-6.67	111.88	121.42
58	DU	68	THR	N-CA-C	-6.66	103.61	113.61
79	Bp	16	VAL	N-CA-CB	-6.66	103.16	112.35
44	DF	76	TYR	CA-C-N	-6.66	114.25	123.10
44	DF	76	TYR	C-N-CA	-6.66	114.25	123.10
46	DH	169	ASN	N-CA-C	6.66	120.35	111.30
54	BQ	57	ILE	CB-CA-C	-6.65	103.05	112.22
9	AH	50	ASP	N-CA-C	6.64	120.20	110.17
45	DG	71	VAL	CA-C-N	-6.64	113.54	120.38
45	DG	71	VAL	C-N-CA	-6.64	113.54	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	De	45	ARG	CB-CA-C	-6.64	103.32	111.82
17	AP	52	LYS	CA-C-N	-6.64	114.94	121.65
17	AP	52	LYS	C-N-CA	-6.64	114.94	121.65
52	DO	110[A]	PRO	CA-C-O	-6.64	110.94	120.56
52	DO	110[B]	PRO	CA-C-O	-6.64	110.94	120.56
40	BB	142	ALA	N-CA-C	6.63	119.34	111.71
45	BG	56	VAL	N-CA-C	-6.63	104.39	110.82
17	AP	100	LYS	N-CA-C	-6.62	99.50	109.96
46	DH	4	ILE	N-CA-CB	6.62	119.55	110.54
64	Ba	70	LYS	CA-C-N	-6.61	112.95	119.76
64	Ba	70	LYS	C-N-CA	-6.61	112.95	119.76
28	Aa	96	ALA	CA-C-N	6.61	127.19	120.38
28	Aa	96	ALA	C-N-CA	6.61	127.19	120.38
45	BG	74	THR	CB-CA-C	6.61	120.81	109.24
64	Ba	22	ILE	CB-CA-C	-6.61	103.35	111.87
72	Di	66	GLU	N-CA-C	-6.59	104.86	113.17
30	Cc	13	ILE	CB-CA-C	-6.59	103.64	111.94
51	BN	172	ARG	N-CA-C	-6.59	105.21	113.18
44	BF	157	ASN	CB-CA-C	-6.58	102.55	111.89
36	A1	3242	G	C8-N9-C1'	6.58	146.74	127.00
53	DP	24	VAL	CB-CA-C	-6.57	100.56	110.55
70	Bg	73	SER	N-CA-C	6.57	119.44	111.82
42	DD	272	TYR	N-CA-C	-6.56	103.60	112.26
19	AR	77	GLU	N-CA-C	-6.55	103.83	110.97
55	BR	105	LEU	N-CA-C	-6.55	104.22	111.36
4	CC	111	VAL	CB-CA-C	-6.55	98.69	110.48
41	BC	354	VAL	CB-CA-C	-6.54	103.47	112.04
47	DI	140	THR	CB-CA-C	-6.54	100.29	114.10
46	BH	91	ARG	NE-CZ-NH2	6.54	125.09	119.20
40	BB	102	LEU	N-CA-C	6.54	121.39	113.41
43	BE	35	VAL	CA-C-N	-6.54	113.25	119.85
43	BE	35	VAL	C-N-CA	-6.54	113.25	119.85
24	CW	102	VAL	N-CA-C	-6.53	99.03	108.17
63	DZ	28	PRO	N-CA-C	6.53	123.28	113.81
4	CC	139	ILE	CB-CA-C	-6.53	101.97	110.84
47	BI	169	LYS	N-CA-C	-6.52	105.36	113.38
78	Bo	33	ALA	N-CA-C	6.52	118.05	111.07
47	DI	99	ILE	CB-CA-C	-6.52	101.11	110.83
56	BS	12	ARG	N-CA-C	6.52	124.69	110.80
16	AO	56	SER	CA-C-N	6.52	126.75	119.32
16	AO	56	SER	C-N-CA	6.52	126.75	119.32
36	A1	2777	G	N1-C6-O6	6.51	139.43	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	AT	9	VAL	N-CA-C	6.51	117.40	107.77
26	AY	45	ALA	N-CA-C	-6.51	104.19	111.28
16	AO	91	THR	N-CA-C	6.50	119.20	111.33
41	DC	192	GLY	N-CA-C	-6.49	106.30	114.16
27	AZ	98	GLN	N-CA-C	6.49	119.13	109.59
67	Bd	23	VAL	N-CA-C	6.49	118.79	109.51
76	Dm	83	LYS	N-CA-C	-6.49	104.13	111.14
74	Bk	75	VAL	N-CA-C	6.49	117.69	108.93
50	BM	38	ILE	N-CA-CB	-6.48	103.91	112.34
64	Da	42	ARG	N-CA-C	6.48	119.34	111.82
43	BE	71	VAL	N-CA-C	6.48	116.58	110.30
4	CC	137	ILE	N-CA-C	-6.47	103.88	109.19
61	DX	56	ARG	N-CA-C	-6.47	101.37	110.50
28	Ca	49	ALA	N-CA-C	6.47	118.88	111.11
11	AJ	101	VAL	N-CA-C	6.47	117.22	110.62
40	BB	81	THR	CA-C-N	-6.47	115.00	119.66
40	BB	81	THR	C-N-CA	-6.47	115.00	119.66
6	CE	13	ALA	N-CA-C	-6.47	103.82	112.94
41	DC	248	VAL	N-CA-C	6.47	117.23	108.17
47	DI	24	ARG	N-CA-C	-6.47	100.94	110.52
49	DL	151	ALA	N-CA-C	6.46	119.29	111.40
7	AF	29	ILE	CA-C-N	6.46	127.92	119.84
7	AF	29	ILE	C-N-CA	6.46	127.92	119.84
40	DB	286	GLY	N-CA-C	6.46	120.32	111.54
48	DJ	44	THR	CB-CA-C	6.45	117.08	109.47
55	BR	21	LYS	N-CA-C	6.44	121.18	112.88
47	DI	62	SER	N-CA-C	-6.44	104.26	111.28
83	Dq	84	VAL	N-CA-C	6.43	117.98	108.65
54	BQ	7	SER	N-CA-C	-6.43	98.75	108.52
62	DY	100	HIS	CA-C-N	-6.43	113.18	119.87
62	DY	100	HIS	C-N-CA	-6.43	113.18	119.87
45	DG	68	ARG	N-CA-C	-6.42	102.01	110.43
43	BE	130	ILE	N-CA-C	6.42	118.04	108.54
62	BY	125	LYS	N-CA-C	6.42	120.78	111.02
44	DF	221	LYS	N-CA-C	-6.42	99.81	108.86
3	AB	22	ASP	CA-C-N	6.41	127.86	119.84
3	AB	22	ASP	C-N-CA	6.41	127.86	119.84
49	DL	76	THR	N-CA-CB	6.41	121.32	110.49
36	A1	2777	G	C6-C5-N7	-6.41	111.18	130.40
2	AA	167	LYS	CB-CA-C	-6.40	109.21	116.63
64	Da	8	THR	CB-CA-C	6.40	121.73	110.85
83	Dq	91	GLU	CA-C-N	-6.39	111.86	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
83	Dq	91	GLU	C-N-CA	-6.39	111.86	119.84
53	BP	24	VAL	CB-CA-C	-6.38	100.48	110.69
41	BC	25	VAL	CB-CA-C	-6.38	103.68	112.04
29	Ab	15	GLU	N-CA-C	-6.38	103.85	111.69
18	CQ	63	ILE	N-CA-C	6.36	116.75	108.35
59	DV	42	SER	N-CA-C	6.36	124.34	110.80
6	AE	197	HIS	N-CA-C	6.36	116.96	108.38
15	AN	137	PRO	CA-C-O	-6.35	114.10	121.34
47	BI	92	HIS	CA-C-N	6.35	127.78	119.84
47	BI	92	HIS	C-N-CA	6.35	127.78	119.84
53	BP	71	ALA	N-CA-C	-6.35	105.50	113.18
8	AG	147	LEU	N-CA-C	6.34	121.85	114.62
56	DS	40	ARG	CG-CD-NE	6.33	125.94	112.00
6	AE	168	LYS	N-CA-C	6.33	118.47	110.24
27	AZ	94	LYS	N-CA-C	6.33	121.09	112.68
4	CC	107	SER	N-CA-C	-6.32	97.33	110.80
40	BB	114	VAL	CB-CA-C	-6.32	103.74	112.02
9	AH	97	ARG	N-CA-C	6.32	117.97	111.14
34	Ag	286	GLU	CA-C-N	6.32	126.08	119.76
34	Ag	286	GLU	C-N-CA	6.32	126.08	119.76
40	BB	328	ILE	N-CA-CB	-6.32	104.88	111.64
41	DC	222	VAL	CA-C-N	6.32	127.74	119.84
41	DC	222	VAL	C-N-CA	6.32	127.74	119.84
36	A5	1152	G	N3-C4-N9	-6.32	107.05	126.00
7	CF	190	ILE	CB-CA-C	-6.32	103.61	112.14
40	DB	228	GLY	N-CA-C	6.32	119.28	112.33
47	DI	154	ARG	N-CA-C	-6.32	104.27	112.23
16	CO	124	ASP	N-CA-C	6.31	124.24	110.80
62	DY	56	VAL	N-CA-C	6.31	116.68	108.35
24	AW	94	LEU	CA-C-N	6.31	125.53	118.97
24	AW	94	LEU	C-N-CA	6.31	125.53	118.97
47	DI	4	ARG	CB-CA-C	6.31	118.57	109.11
69	Df	19	SER	N-CA-C	-6.31	100.04	109.94
64	Ba	22	ILE	N-CA-C	6.30	116.34	110.42
36	A5	1152	G	N3-C2-N2	-6.30	101.01	119.90
39	DA	148	VAL	N-CA-C	6.30	117.90	108.96
25	CX	117	ILE	N-CA-C	6.29	113.29	107.56
76	Dm	119	ASN	N-CA-C	-6.29	104.91	112.59
60	DW	76	VAL	N-CA-C	6.29	122.43	109.34
9	AH	30	SER	N-CA-C	-6.29	104.40	113.21
40	BB	203	VAL	N-CA-C	6.29	116.92	108.11
56	BS	129	ILE	CB-CA-C	-6.28	104.45	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	DE	30	LEU	N-CA-C	6.27	119.12	110.35
56	DS	171	PHE	N-CA-C	6.27	120.66	112.89
30	Cc	53	ILE	N-CA-C	6.27	117.50	108.48
33	Af	106	TYR	N-CA-C	-6.26	97.46	110.80
41	DC	115	HIS	N-CA-C	-6.26	104.53	111.36
24	AW	105	THR	CB-CA-C	-6.26	99.93	110.19
60	BW	39	LEU	N-CA-C	-6.26	104.52	111.71
41	BC	57	GLY	N-CA-C	-6.25	105.89	114.64
25	CX	100	ASP	N-CA-C	6.25	120.93	113.12
51	BN	73	ARG	CA-C-N	6.24	127.64	119.84
51	BN	73	ARG	C-N-CA	6.24	127.64	119.84
80	A6	337	G	C8-N9-C1'	-6.24	108.28	127.00
34	Cg	312	VAL	N-CA-C	6.23	115.83	106.42
63	DZ	35	SER	N-CA-C	-6.23	100.61	109.96
44	DF	174	GLY	N-CA-C	-6.23	105.03	113.37
14	CM	43	ARG	N-CA-C	6.22	119.52	107.71
44	DF	98	LYS	CA-C-N	-6.22	112.44	119.28
44	DF	98	LYS	C-N-CA	-6.22	112.44	119.28
46	DH	151	VAL	N-CA-CB	6.20	118.22	110.47
32	Ce	62	VAL	N-CA-C	-6.19	104.30	110.62
46	BH	4	ILE	N-CA-C	6.19	116.36	110.42
72	Di	47	ILE	CB-CA-C	-6.19	104.14	111.94
33	Af	144	CYS	N-CA-C	-6.19	97.61	110.80
40	BB	264	VAL	N-CA-C	6.19	118.57	108.97
2	CA	23	HIS	N-CA-C	6.19	123.99	110.80
4	CC	206	THR	CA-C-N	6.19	128.90	120.54
4	CC	206	THR	C-N-CA	6.19	128.90	120.54
55	BR	178	ALA	N-CA-C	-6.18	106.71	114.56
20	CS	102	ALA	CB-CA-C	-6.18	109.46	116.63
25	AX	111	GLY	N-CA-C	-6.17	100.54	112.02
40	BB	10	ARG	CB-CA-C	-6.17	98.57	109.62
11	CJ	85	VAL	N-CA-C	-6.17	106.50	111.81
58	DU	21	SER	CA-C-N	-6.17	112.65	119.19
58	DU	21	SER	C-N-CA	-6.17	112.65	119.19
69	Bf	49	ILE	CB-CA-C	-6.16	101.44	110.62
72	Bi	26	ILE	N-CA-CB	6.16	118.45	110.57
57	BT	158	THR	N-CA-C	6.16	120.81	113.12
11	CJ	162	SER	CA-C-N	6.15	127.53	119.84
11	CJ	162	SER	C-N-CA	6.15	127.53	119.84
43	DE	94	GLU	N-CA-C	6.14	118.52	111.02
51	BN	85	THR	CB-CA-C	-6.14	97.37	110.32
13	CL	120	GLY	N-CA-C	-6.14	98.63	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	BE	3	ALA	N-CA-C	-6.14	105.92	113.41
4	CC	76	LEU	N-CA-C	-6.13	97.58	108.13
64	Ba	125	VAL	N-CA-C	6.13	116.44	107.37
4	AC	150	GLN	CA-C-N	6.13	126.15	119.90
4	AC	150	GLN	C-N-CA	6.13	126.15	119.90
79	Bp	90	VAL	N-CA-C	6.13	116.87	110.62
21	AT	121	GLY	N-CA-C	6.12	118.69	111.35
22	AU	75	GLY	CA-C-O	-6.12	118.24	122.22
33	Af	104	SER	N-CA-C	-6.12	105.78	113.18
41	BC	222	VAL	CA-C-N	6.11	127.48	119.84
41	BC	222	VAL	C-N-CA	6.11	127.48	119.84
53	BP	120	ASN	N-CA-C	6.11	117.86	109.18
4	CC	150	GLN	CA-C-N	6.11	126.06	119.76
4	CC	150	GLN	C-N-CA	6.11	126.06	119.76
40	BB	235	THR	N-CA-CB	-6.11	101.62	110.36
58	BU	46	ALA	N-CA-C	6.11	117.47	108.86
53	DP	79	THR	N-CA-C	-6.10	106.47	114.04
8	AG	129	VAL	CA-C-N	6.10	126.42	119.83
8	AG	129	VAL	C-N-CA	6.10	126.42	119.83
5	CD	68	GLU	N-CA-C	-6.09	104.64	111.28
16	CO	91	THR	N-CA-C	6.09	123.78	110.80
10	AI	104	ILE	N-CA-C	6.09	122.01	109.34
74	Bk	20	VAL	N-CA-C	6.09	112.73	106.21
8	AG	38	GLY	N-CA-C	6.09	119.85	112.49
12	CK	88	PRO	N-CA-CB	6.09	109.64	103.25
53	BP	16	SER	N-CA-C	6.08	117.14	108.74
15	AN	12	SER	N-CA-C	-6.08	99.28	108.52
9	AH	31	SER	N-CA-C	6.08	123.24	109.81
3	AB	105	PHE	N-CA-C	-6.08	99.83	109.07
50	BM	113	THR	N-CA-CB	-6.07	101.50	110.85
75	Bl	35	ILE	N-CA-C	6.07	116.25	108.12
70	Bg	90	ILE	CB-CA-C	-6.07	104.09	112.04
55	DR	57	VAL	N-CA-C	6.06	116.89	108.89
40	BB	205	VAL	CB-CA-C	-6.06	102.77	112.16
54	BQ	170	ARG	CA-C-N	-6.06	114.36	125.02
54	BQ	170	ARG	C-N-CA	-6.06	114.36	125.02
13	CL	106	ASN	CA-C-N	-6.06	117.58	122.85
13	CL	106	ASN	C-N-CA	-6.06	117.58	122.85
2	AA	111	ILE	N-CA-C	6.05	121.93	109.34
17	AP	124	THR	CA-C-N	6.05	127.40	119.84
17	AP	124	THR	C-N-CA	6.05	127.40	119.84
3	CB	145	LYS	N-CA-C	-6.05	102.55	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	BQ	24	VAL	CB-CA-C	-6.05	101.38	111.29
24	AW	55	ASP	N-CA-C	-6.04	102.39	110.55
76	Dm	88	LYS	N-CA-C	-6.04	105.17	112.54
6	AE	149	TYR	CA-C-N	-6.04	114.54	120.52
6	AE	149	TYR	C-N-CA	-6.04	114.54	120.52
40	BB	21	ARG	NE-CZ-NH2	6.04	124.63	119.20
20	AS	31	ALA	N-CA-C	-6.04	104.33	111.03
2	AA	145	ALA	N-CA-C	6.03	118.32	108.55
17	CP	23	GLU	N-CA-C	-6.03	103.66	111.02
40	DB	81	THR	CB-CA-C	6.03	119.11	111.21
3	CB	212	VAL	N-CA-C	-6.03	99.62	108.54
5	CD	160	SER	N-CA-C	6.03	120.18	111.02
56	DS	14	LEU	CA-C-N	6.03	125.99	119.78
56	DS	14	LEU	C-N-CA	6.03	125.99	119.78
57	DT	122	GLN	N-CA-C	-6.03	105.48	114.64
41	DC	73	ARG	CB-CG-CD	-6.02	97.44	111.30
51	BN	174	ILE	N-CA-C	6.02	115.28	106.55
14	AM	26	ASP	N-CA-C	-6.01	105.90	113.18
70	Bg	81	CYS	N-CA-C	6.01	119.36	112.57
51	DN	78	GLY	N-CA-C	-6.01	107.37	115.36
65	Db	18	ARG	N-CA-C	-6.00	104.36	111.03
25	AX	29	TYR	N-CA-C	-6.00	104.66	111.14
41	BC	310	THR	N-CA-C	-6.00	101.58	110.46
2	CA	119	ARG	N-CA-C	-6.00	105.78	114.12
5	AD	203	PRO	CA-C-N	6.00	128.31	120.28
5	AD	203	PRO	C-N-CA	6.00	128.31	120.28
39	DA	107	VAL	CA-C-N	5.99	125.96	120.03
39	DA	107	VAL	C-N-CA	5.99	125.96	120.03
36	A5	282	G	C2'-C3'-O3'	5.98	122.67	113.70
79	Dp	53	GLY	CA-C-N	-5.98	115.77	123.19
79	Dp	53	GLY	C-N-CA	-5.98	115.77	123.19
18	CQ	69	VAL	CB-CA-C	-5.98	101.13	110.69
2	AA	67	ILE	CA-C-N	5.97	127.31	119.84
2	AA	67	ILE	C-N-CA	5.97	127.31	119.84
45	BG	201	THR	N-CA-C	-5.97	106.33	113.97
18	CQ	121	SER	N-CA-C	5.97	120.18	113.01
39	DA	216	HIS	N-CA-C	-5.97	99.61	108.99
3	AB	153	HIS	N-CA-C	5.97	123.52	110.80
56	BS	39	SER	N-CA-C	-5.97	104.85	111.36
42	BD	31	TYR	N-CA-C	-5.97	104.69	111.14
54	BQ	85	GLY	CA-C-N	-5.97	113.27	122.87
54	BQ	85	GLY	C-N-CA	-5.97	113.27	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	DV	126	TRP	CA-C-N	5.96	125.44	119.24
59	DV	126	TRP	C-N-CA	5.96	125.44	119.24
36	A1	2249	G	C3'-C2'-C1'	-5.96	95.34	101.30
69	Bf	60	ARG	N-CA-C	-5.96	105.09	113.20
41	DC	191	LYS	N-CA-C	-5.96	105.84	114.12
64	Ba	52	TYR	N-CA-C	5.96	118.29	111.02
60	DW	27	LYS	N-CA-C	-5.95	101.23	110.10
44	BF	203	TRP	CA-C-N	-5.95	113.63	119.76
44	BF	203	TRP	C-N-CA	-5.95	113.63	119.76
51	BN	48	ALA	N-CA-C	-5.95	104.87	111.36
16	CO	36	LYS	N-CA-C	-5.95	102.26	110.35
58	DU	28	PHE	N-CA-C	5.95	118.16	108.76
45	DG	246	MET	N-CA-C	-5.95	106.16	113.41
63	BZ	90	GLU	N-CA-C	5.94	117.45	110.97
15	CN	136	PRO	CA-C-N	5.94	127.27	119.84
15	CN	136	PRO	C-N-CA	5.94	127.27	119.84
6	AE	103	TYR	N-CA-C	5.94	119.58	110.20
72	Bi	11	LEU	CA-C-N	-5.93	114.33	123.17
72	Bi	11	LEU	C-N-CA	-5.93	114.33	123.17
47	BI	140	THR	CB-CA-C	-5.93	101.58	114.10
33	Cf	135	HIS	N-CA-C	5.93	117.56	110.44
66	Dc	97	ASP	N-CA-C	-5.93	106.09	113.15
57	DT	131	GLN	CA-C-N	-5.92	114.66	120.52
57	DT	131	GLN	C-N-CA	-5.92	114.66	120.52
26	CY	58	PHE	N-CA-C	5.92	123.42	110.80
53	DP	64	ASN	CA-C-N	-5.92	114.31	122.30
53	DP	64	ASN	C-N-CA	-5.92	114.31	122.30
56	BS	40	ARG	CG-CD-NE	5.91	125.00	112.00
41	DC	276	LEU	CA-C-N	5.91	125.93	119.90
41	DC	276	LEU	C-N-CA	5.91	125.93	119.90
54	DQ	166	LEU	CB-CA-C	-5.91	101.51	111.02
57	BT	128	LEU	N-CA-C	5.90	117.99	110.61
41	BC	189	ALA	CA-C-N	-5.90	109.85	121.41
41	BC	189	ALA	C-N-CA	-5.90	109.85	121.41
19	CR	55	THR	N-CA-CB	5.90	118.89	110.16
43	DE	66	SER	CA-C-N	-5.90	112.61	121.87
43	DE	66	SER	C-N-CA	-5.90	112.61	121.87
36	A1	2772	C	C3'-C2'-C1'	-5.89	95.61	101.50
40	BB	331	ASN	N-CA-C	5.88	118.17	109.69
49	DL	16	LYS	N-CA-C	5.88	122.46	112.99
45	BG	96	LYS	N-CA-C	-5.88	104.95	111.36
41	BC	130	ALA	N-CA-C	-5.88	100.60	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	DQ	24	VAL	CB-CA-C	-5.88	104.34	112.04
42	BD	128	GLU	N-CA-C	-5.88	102.62	110.55
49	BL	60	ALA	CA-C-N	5.88	126.69	120.11
49	BL	60	ALA	C-N-CA	5.88	126.69	120.11
16	AO	115	ILE	N-CA-C	5.87	116.33	107.75
59	BV	61	THR	N-CA-C	-5.87	100.42	109.52
29	Ab	68	GLY	N-CA-C	-5.87	105.55	113.24
59	BV	90	GLY	CA-C-N	-5.87	114.52	122.91
59	BV	90	GLY	C-N-CA	-5.87	114.52	122.91
48	DJ	17	LEU	CA-C-N	-5.87	115.27	123.13
48	DJ	17	LEU	C-N-CA	-5.87	115.27	123.13
56	DS	49	HIS	N-CA-C	-5.86	99.50	108.76
40	DB	84	VAL	N-CA-C	-5.86	100.04	108.48
19	CR	3	ARG	N-CA-C	5.86	117.97	109.71
25	CX	116	ASP	CA-C-N	-5.86	118.62	122.60
25	CX	116	ASP	C-N-CA	-5.86	118.62	122.60
64	Da	10	LYS	N-CA-C	-5.86	105.63	112.89
44	DF	130	ILE	N-CA-C	-5.86	107.56	113.47
7	CF	70	VAL	CB-CA-C	-5.85	101.32	110.69
21	AT	54	PHE	N-CA-C	-5.85	104.86	112.23
41	BC	60	THR	CB-CA-C	-5.85	97.20	110.07
40	BB	278	ILE	N-CA-C	5.85	117.27	108.96
25	CX	130	VAL	N-CA-C	5.85	121.50	109.34
43	BE	140	VAL	CB-CA-C	-5.84	104.37	112.02
73	Bj	26	SER	N-CA-C	-5.83	103.87	113.50
62	BY	112	ASP	N-CA-C	-5.83	100.56	109.41
49	DL	42	ARG	N-CA-C	-5.82	104.85	111.14
51	DN	177	GLY	N-CA-C	5.82	119.15	111.70
45	DG	82	LEU	N-CA-C	-5.82	98.40	110.80
40	DB	310	GLY	N-CA-C	-5.82	104.38	112.18
63	BZ	113	VAL	CB-CA-C	-5.82	104.54	111.81
7	CF	27	THR	CA-C-N	5.81	127.10	119.84
7	CF	27	THR	C-N-CA	5.81	127.10	119.84
19	CR	119	LEU	N-CA-C	5.81	117.62	108.96
13	CL	113	PRO	CA-C-O	-5.81	115.17	121.27
5	CD	188	ILE	N-CA-C	5.81	116.99	107.24
10	CI	34	ALA	N-CA-C	-5.80	100.53	109.76
41	DC	260	GLN	N-CA-C	-5.80	105.09	111.82
45	BG	134	TYR	N-CA-C	5.80	115.76	108.45
64	Ba	115	LYS	CA-C-N	-5.80	110.05	121.41
64	Ba	115	LYS	C-N-CA	-5.80	110.05	121.41
39	BA	44	ILE	CB-CA-C	-5.79	101.59	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	BJ	110	ILE	N-CA-C	-5.79	104.88	113.39
22	AU	28	SER	N-CA-C	5.79	116.19	108.38
43	BE	24	ALA	N-CA-C	5.79	118.72	110.10
23	CV	71	ARG	N-CA-C	-5.78	104.34	111.33
57	BT	73	GLY	CA-C-N	-5.78	115.57	123.14
57	BT	73	GLY	C-N-CA	-5.78	115.57	123.14
76	Bm	100	TYR	N-CA-C	5.78	120.14	113.38
50	DM	134	ALA	N-CA-C	-5.78	104.90	111.14
61	DX	107	VAL	N-CA-C	5.78	116.19	108.11
42	DD	88	ILE	CB-CA-C	-5.77	102.99	110.84
45	DG	151	VAL	N-CA-C	5.77	116.43	108.12
71	Bh	80	LEU	N-CA-C	-5.77	104.78	113.89
48	BJ	139	THR	CB-CA-C	-5.77	103.12	111.14
80	A6	337	G	C4-N9-C1'	5.77	143.80	126.50
48	DJ	127	PHE	CA-C-N	-5.77	114.87	123.00
48	DJ	127	PHE	C-N-CA	-5.77	114.87	123.00
50	DM	28	SER	N-CA-C	-5.76	106.15	112.72
27	CZ	98	GLN	N-CA-C	5.76	117.43	107.93
41	DC	269	SER	N-CA-C	5.75	118.49	111.82
71	Bh	111	PHE	CA-C-N	-5.74	114.65	120.85
71	Bh	111	PHE	C-N-CA	-5.74	114.65	120.85
9	AH	62	VAL	CA-C-N	5.74	127.01	119.84
9	AH	62	VAL	C-N-CA	5.74	127.01	119.84
17	AP	37	ALA	CA-C-N	-5.74	112.67	119.84
17	AP	37	ALA	C-N-CA	-5.74	112.67	119.84
41	DC	284	SER	N-CA-C	-5.74	106.15	114.12
10	AI	32	GLN	CA-C-N	5.73	125.64	119.85
10	AI	32	GLN	C-N-CA	5.73	125.64	119.85
5	CD	12	VAL	N-CA-C	-5.73	105.26	110.82
21	CT	4	VAL	N-CA-C	5.73	116.37	108.12
36	A1	3242	G	C4-N9-C1'	-5.73	109.31	126.50
74	Dk	20	VAL	N-CA-C	5.73	112.34	106.21
34	Ag	59	ARG	N-CA-C	5.73	118.11	109.23
10	CI	172	ARG	CA-C-N	5.72	127.00	119.84
10	CI	172	ARG	C-N-CA	5.72	127.00	119.84
41	DC	118	LYS	N-CA-C	-5.72	104.24	111.11
64	Da	19	LYS	N-CA-C	5.72	119.96	112.92
44	BF	177	GLY	N-CA-C	-5.72	100.44	112.45
51	DN	96	ARG	N-CA-C	-5.72	101.56	110.42
15	AN	122	ILE	CB-CA-C	-5.71	104.66	111.97
78	Bo	84	THR	N-CA-C	5.71	118.56	109.24
68	De	41	VAL	CB-CA-C	-5.71	103.00	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	BH	16	VAL	N-CA-C	5.71	118.17	108.86
61	BX	65	GLN	CB-CA-C	-5.71	102.15	109.92
13	CL	113	PRO	N-CA-C	-5.71	101.70	110.95
19	AR	85	VAL	N-CA-C	5.71	121.21	108.88
39	BA	181	LYS	N-CA-C	5.71	117.64	109.14
6	AE	105	VAL	CB-CA-C	-5.71	104.66	110.88
43	DE	102	ASN	N-CA-C	5.70	116.10	108.23
3	CB	106	THR	N-CA-CB	5.70	120.12	110.49
27	CZ	87	GLY	N-CA-C	5.70	119.29	111.54
47	BI	96	VAL	CB-CA-C	-5.70	104.42	111.08
79	Bp	16	VAL	N-CA-C	-5.70	106.76	113.42
25	CX	45	GLY	N-CA-C	-5.69	108.31	115.08
59	DV	33	ASN	CB-CA-C	-5.69	98.62	109.66
73	Dj	84	SER	N-CA-C	5.69	118.34	111.40
2	AA	74	VAL	N-CA-C	5.69	116.13	108.17
7	CF	58	LEU	N-CA-C	5.69	122.92	110.80
47	DI	131	ILE	N-CA-CB	5.69	116.92	110.72
59	BV	36	ILE	N-CA-C	5.68	116.34	108.84
16	AO	124	ASP	N-CA-C	5.68	122.90	110.80
22	CU	71	PRO	N-CA-C	-5.68	103.26	111.22
56	DS	20	PRO	N-CA-C	-5.68	102.66	111.13
42	BD	93	THR	N-CA-C	-5.68	104.13	113.50
34	Ag	84	SER	N-CA-C	5.68	117.70	109.07
17	CP	64	LYS	N-CA-C	-5.68	105.17	111.36
11	AJ	66	ASP	CA-C-N	5.68	125.14	119.24
11	AJ	66	ASP	C-N-CA	5.68	125.14	119.24
35	Ah	64	LYS	N-CA-C	-5.67	103.15	110.19
22	CU	49	ASN	N-CA-C	5.67	122.89	110.80
24	CW	10	ALA	N-CA-C	-5.67	105.01	111.14
63	DZ	103	GLN	CA-C-N	5.67	126.93	119.84
63	DZ	103	GLN	C-N-CA	5.67	126.93	119.84
44	DF	242	SER	N-CA-C	-5.67	106.36	113.28
17	AP	39	ALA	N-CA-C	5.66	117.92	111.02
40	BB	347	SER	N-CA-C	5.66	122.85	110.80
6	AE	3	ARG	N-CA-C	5.65	122.84	110.80
40	BB	365	PHE	N-CA-C	-5.65	105.59	112.88
48	DJ	113	GLY	N-CA-C	-5.65	102.39	112.22
44	BF	220	PHE	N-CA-C	5.65	118.53	110.68
62	BY	111	LEU	N-CA-C	5.65	118.93	109.95
64	Ba	13	GLY	N-CA-C	-5.65	107.76	114.48
46	BH	126	VAL	CA-C-N	-5.64	114.12	119.76
46	BH	126	VAL	C-N-CA	-5.64	114.12	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	DC	64	SER	N-CA-C	-5.64	102.13	110.48
27	AZ	83	LEU	N-CA-C	-5.64	106.23	113.23
40	DB	186	GLY	N-CA-C	5.64	120.50	111.64
46	BH	41	ILE	N-CA-C	5.64	121.07	109.34
34	Ag	137	LYS	N-CA-C	-5.64	106.44	113.38
73	Bj	29	VAL	CB-CA-C	-5.64	104.76	111.81
54	BQ	93	ILE	CB-CA-C	-5.64	103.49	111.21
42	DD	204	VAL	CB-CA-C	-5.64	104.44	112.22
67	Dd	87	ASN	CA-C-N	5.64	125.73	119.87
67	Dd	87	ASN	C-N-CA	5.64	125.73	119.87
3	AB	131	ASP	CB-CA-C	5.63	119.28	109.65
44	BF	145	ARG	N-CA-C	-5.63	105.22	111.36
46	DH	12	VAL	N-CA-C	5.63	112.69	107.56
46	DH	55	VAL	CB-CA-C	-5.63	102.11	110.33
43	BE	12	SER	N-CA-C	-5.63	103.10	110.53
47	BI	19	LYS	N-CA-C	-5.63	101.72	110.10
49	BL	159	VAL	CB-CA-C	-5.63	104.50	111.08
33	Cf	147	VAL	N-CA-C	5.62	116.52	108.93
8	CG	90	GLY	N-CA-C	-5.62	107.61	114.92
40	BB	41	VAL	N-CA-C	5.62	116.95	109.37
8	CG	174	LYS	N-CA-C	-5.62	98.84	110.80
10	CI	34	ALA	CA-C-N	-5.62	114.16	123.37
10	CI	34	ALA	C-N-CA	-5.62	114.16	123.37
49	DL	46	ILE	CB-CA-C	5.62	118.16	111.20
40	BB	350	ALA	N-CA-C	-5.61	101.33	110.20
24	AW	98	GLN	N-CA-C	5.61	119.39	112.54
22	AU	34	LEU	N-CA-C	-5.61	105.24	111.36
40	BB	318	LYS	N-CA-C	-5.61	104.67	112.30
40	BB	25	ILE	CB-CA-C	-5.61	101.08	111.79
30	Cc	44	VAL	N-CA-C	5.61	117.48	108.85
69	Df	93	THR	N-CA-C	-5.61	105.65	112.88
36	A5	1152	G	N3-C4-C5	5.60	145.41	128.60
23	AV	34	ILE	CB-CA-C	-5.60	104.18	110.96
29	Ab	67	THR	N-CA-C	5.60	115.42	108.19
41	BC	153	SER	N-CA-C	5.60	117.52	110.24
61	DX	43	ALA	CA-C-N	5.60	126.84	119.84
61	DX	43	ALA	C-N-CA	5.60	126.84	119.84
41	BC	74	ILE	N-CA-CB	5.60	119.04	111.21
26	CY	66	GLY	N-CA-C	5.60	119.10	112.33
24	AW	128	PHE	N-CA-C	5.59	117.35	108.79
24	CW	129	VAL	CB-CA-C	-5.59	100.70	110.71
50	BM	80	THR	N-CA-C	-5.59	104.81	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	CE	151	ASP	CA-C-N	5.59	125.26	119.56
6	CE	151	ASP	C-N-CA	5.59	125.26	119.56
68	Be	45	ARG	CB-CA-C	-5.59	104.03	111.63
53	BP	123	PRO	CA-C-O	-5.58	115.05	121.36
4	CC	58	LEU	CA-CB-CG	5.58	135.85	116.30
41	BC	45	ASN	N-CA-C	5.58	120.08	113.16
10	CI	36	THR	CB-CA-C	5.58	118.60	109.90
68	De	63	THR	N-CA-C	-5.58	106.30	114.39
50	DM	23	ILE	N-CA-C	5.58	115.59	108.12
50	BM	52	GLY	CA-C-N	-5.57	118.58	122.59
50	BM	52	GLY	C-N-CA	-5.57	118.58	122.59
68	Be	62	LYS	N-CA-C	5.57	117.43	111.36
67	Dd	64	VAL	CB-CA-C	-5.57	102.16	111.29
56	BS	132	THR	N-CA-C	-5.57	103.14	110.43
42	DD	67	SER	N-CA-C	5.57	118.63	109.72
43	BE	93	VAL	N-CA-C	-5.56	105.98	111.88
69	Bf	39	GLN	N-CA-C	-5.56	105.13	111.14
27	CZ	70	LYS	N-CA-C	-5.56	98.95	110.80
46	DH	101	VAL	N-CA-C	5.56	115.87	107.75
20	AS	28	ILE	N-CA-C	5.56	120.90	109.34
55	BR	129	GLY	N-CA-C	-5.55	102.04	112.64
40	DB	235	THR	N-CA-CB	-5.55	101.12	110.49
50	BM	48	GLY	CA-C-N	5.54	125.01	119.24
50	BM	48	GLY	C-N-CA	5.54	125.01	119.24
40	DB	115	LYS	N-CA-C	-5.54	105.34	111.71
49	BL	76	THR	N-CA-CB	5.54	119.84	110.49
57	BT	69	LYS	N-CA-C	5.53	116.99	111.07
2	CA	164	ASN	N-CA-C	5.53	122.59	110.80
8	AG	19	ASP	N-CA-C	-5.53	101.15	109.95
75	Bl	34	THR	N-CA-C	-5.53	107.78	114.75
2	CA	168	HIS	N-CA-C	-5.53	106.58	113.38
54	DQ	3	ILE	CB-CA-C	-5.53	101.54	110.28
39	BA	232	GLY	N-CA-C	-5.53	107.47	115.27
57	BT	14	MET	CG-SD-CE	-5.53	88.73	100.90
6	CE	167	GLY	N-CA-C	-5.53	101.55	110.95
42	DD	46	THR	CB-CA-C	-5.53	100.95	109.85
61	DX	69	SER	N-CA-C	-5.53	103.40	110.53
13	AL	131	ILE	N-CA-C	-5.53	107.43	112.96
50	DM	20	VAL	N-CA-C	5.53	116.26	108.36
56	DS	97	VAL	N-CA-C	-5.52	106.96	113.42
39	BA	91	GLY	N-CA-C	5.52	117.53	110.96
56	DS	51	VAL	CB-CA-C	-5.52	102.24	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	BF	211	SER	N-CA-CB	5.52	117.98	109.98
54	DQ	151	ARG	NE-CZ-NH1	-5.52	115.98	121.50
65	Bb	55	ALA	N-CA-C	-5.52	105.67	112.90
39	DA	213	GLY	CA-C-N	-5.52	117.91	122.16
39	DA	213	GLY	C-N-CA	-5.52	117.91	122.16
44	DF	147	LEU	N-CA-C	-5.52	105.35	111.36
40	DB	309	GLY	N-CA-C	-5.51	107.34	113.79
54	BQ	40	THR	CB-CA-C	-5.51	99.76	109.02
51	BN	183	THR	N-CA-C	-5.51	98.02	107.61
64	Ba	98	THR	N-CA-C	5.51	118.77	107.37
36	A5	2372	A	C4'-C3'-O3'	5.51	117.66	109.40
41	DC	190	GLY	N-CA-C	5.51	126.24	113.18
42	BD	43	LYS	N-CA-C	-5.51	105.18	112.94
43	BE	170	LYS	CA-C-N	5.50	126.72	119.84
43	BE	170	LYS	C-N-CA	5.50	126.72	119.84
62	BY	13	ARG	NE-CZ-NH2	-5.50	114.25	119.20
2	CA	157	ASP	N-CA-C	-5.50	103.12	110.55
4	AC	64	LYS	N-CA-C	-5.50	108.35	114.62
41	BC	293	SER	N-CA-C	-5.50	99.08	110.80
23	AV	13	VAL	CA-C-N	5.50	126.71	119.84
23	AV	13	VAL	C-N-CA	5.50	126.71	119.84
64	Ba	144	VAL	CB-CA-C	-5.50	102.68	110.82
64	Da	138	ILE	N-CA-C	-5.50	105.14	110.42
9	AH	116	ARG	N-CA-C	-5.50	105.52	113.21
23	CV	59	VAL	CB-CA-C	-5.50	104.84	111.88
44	DF	203	TRP	CA-C-N	-5.49	113.90	119.83
44	DF	203	TRP	C-N-CA	-5.49	113.90	119.83
52	DO	110[A]	PRO	CB-CA-C	5.49	117.62	110.92
52	DO	110[B]	PRO	CB-CA-C	5.49	117.62	110.92
19	AR	23	LYS	N-CA-C	-5.49	99.11	110.80
40	BB	255	TRP	N-CA-C	-5.49	104.94	111.69
56	BS	156	VAL	N-CA-C	5.49	115.49	107.37
64	Da	65	GLN	CA-C-N	-5.49	115.36	125.02
64	Da	65	GLN	C-N-CA	-5.49	115.36	125.02
76	Dm	91	CYS	N-CA-C	5.49	121.67	114.75
69	Df	53	TYR	N-CA-C	5.49	117.75	109.41
2	CA	158	VAL	N-CA-C	5.48	120.75	109.34
36	A5	2524	A	C3'-C2'-C1'	-5.48	96.02	101.50
46	DH	48	VAL	N-CA-C	-5.48	106.35	111.45
67	Bd	36	ILE	CB-CA-C	-5.48	104.86	112.04
43	DE	173	MET	CB-CG-SD	-5.48	96.27	112.70
16	CO	123	SER	N-CA-C	-5.48	105.75	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DR	132	PHE	CA-C-N	5.48	127.62	120.28
55	DR	132	PHE	C-N-CA	5.48	127.62	120.28
6	CE	70	VAL	N-CA-C	5.47	115.93	107.78
28	Aa	74	CYS	N-CA-C	5.47	119.26	112.59
36	A1	1484	U	C2'-C3'-O3'	5.47	117.70	109.50
39	BA	112	ILE	N-CA-C	5.47	115.73	107.75
47	BI	77	THR	N-CA-CB	5.47	117.94	110.01
40	DB	98	GLY	N-CA-C	5.47	117.60	112.08
2	AA	6	THR	N-CA-C	-5.46	105.83	112.88
36	A5	2372	A	P-O3'-C3'	5.46	128.39	120.20
18	AQ	63	ILE	N-CA-C	5.46	116.53	108.45
64	Da	15	VAL	CB-CA-C	-5.46	104.20	111.13
77	Dn	24	SER	N-CA-C	-5.46	105.43	113.61
69	Bf	98	VAL	N-CA-CB	-5.45	103.04	111.05
54	BQ	131	ALA	CA-C-N	5.45	126.65	119.84
54	BQ	131	ALA	C-N-CA	5.45	126.65	119.84
42	DD	254	LYS	CA-C-N	5.45	125.91	120.14
42	DD	254	LYS	C-N-CA	5.45	125.91	120.14
39	BA	230	VAL	CB-CA-C	5.45	118.74	110.90
36	A1	282	G	C2'-C3'-O3'	5.44	121.86	113.70
5	AD	50	ILE	CB-CA-C	-5.44	106.48	112.68
42	DD	75	LEU	N-CA-C	-5.44	104.21	112.04
5	AD	114	ALA	N-CA-C	-5.43	102.13	109.95
56	DS	155	ARG	CG-CD-NE	5.43	123.95	112.00
55	DR	70	LYS	N-CA-C	-5.43	105.44	111.36
9	CH	62	VAL	CA-C-N	5.43	125.77	119.47
9	CH	62	VAL	C-N-CA	5.43	125.77	119.47
13	CL	55	ASP	N-CA-C	5.43	122.37	110.80
9	AH	12	ALA	CA-C-N	5.43	126.62	119.84
9	AH	12	ALA	C-N-CA	5.43	126.62	119.84
5	CD	204	ASP	N-CA-CB	-5.42	103.82	110.98
19	CR	42	GLN	N-CA-C	5.42	118.36	111.69
9	AH	183	PHE	N-CA-C	5.42	117.49	109.69
39	BA	233	GLN	CA-C-N	-5.42	114.03	122.16
39	BA	233	GLN	C-N-CA	-5.42	114.03	122.16
33	Cf	151	ASN	N-CA-C	5.42	117.21	109.14
39	DA	168	VAL	CB-CA-C	-5.42	103.44	111.19
6	CE	23	LEU	CA-C-O	-5.42	115.76	121.88
13	AL	22	ASN	CA-C-N	5.41	125.03	119.56
13	AL	22	ASN	C-N-CA	5.41	125.03	119.56
41	BC	20	LEU	CA-C-N	5.41	125.33	119.76
41	BC	20	LEU	C-N-CA	5.41	125.33	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	AM	81	ASP	CA-C-N	5.41	126.60	119.84
14	AM	81	ASP	C-N-CA	5.41	126.60	119.84
49	DL	26	PHE	N-CA-C	-5.41	106.52	113.01
43	DE	37	GLY	N-CA-C	-5.41	107.64	115.27
3	AB	232	HIS	N-CA-C	5.41	118.27	109.24
9	CH	12	ALA	N-CA-C	5.41	121.75	109.81
36	A1	2777	G	N9-C4-C5	-5.40	89.19	105.40
77	Dn	20	VAL	CB-CA-C	-5.40	104.85	112.14
6	CE	126	VAL	N-CA-CB	5.40	116.42	110.53
46	DH	29	GLY	CA-C-N	5.40	125.48	119.32
46	DH	29	GLY	C-N-CA	5.40	125.48	119.32
13	AL	109	VAL	N-CA-C	5.40	116.05	108.17
16	AO	22	SER	N-CA-C	-5.40	101.92	109.69
44	BF	119	VAL	N-CA-C	5.40	115.41	107.15
64	Da	28	HIS	CB-CA-C	-5.40	99.54	110.17
20	AS	86	LEU	N-CA-C	5.39	118.28	109.59
64	Ba	114	GLY	CA-C-N	-5.39	113.11	120.44
64	Ba	114	GLY	C-N-CA	-5.39	113.11	120.44
2	CA	93	THR	N-CA-C	-5.39	103.58	110.53
64	Da	120	ASN	N-CA-C	5.39	120.26	111.37
49	BL	104	ARG	N-CA-C	-5.39	106.45	114.64
46	BH	50	ASN	N-CA-C	5.39	122.27	110.80
51	BN	174	ILE	CB-CA-C	5.38	118.82	112.68
8	CG	108	VAL	CB-CA-C	-5.38	101.20	110.30
63	DZ	14	VAL	CB-CA-C	5.38	118.69	111.85
4	CC	233	GLN	CA-C-N	-5.38	114.23	120.04
4	CC	233	GLN	C-N-CA	-5.38	114.23	120.04
24	AW	93	LEU	N-CA-C	5.38	120.53	112.94
19	CR	104	ASN	N-CA-C	-5.38	99.35	110.80
29	Cb	14	SER	N-CA-C	-5.38	105.86	112.90
65	Bb	51	ALA	N-CA-C	-5.38	105.32	111.07
7	CF	89	ILE	CB-CA-C	-5.38	103.83	112.16
48	DJ	76	ALA	N-CA-C	-5.37	105.46	112.23
64	Da	118	ILE	CA-C-N	-5.37	114.71	120.03
64	Da	118	ILE	C-N-CA	-5.37	114.71	120.03
46	BH	178	GLY	N-CA-C	5.37	118.83	110.88
22	CU	92	ASP	N-CA-C	5.37	117.50	107.99
42	DD	87	GLY	N-CA-C	5.37	121.08	114.69
60	DW	84	GLY	N-CA-C	-5.37	107.86	115.43
31	Cd	10	HIS	CA-C-N	5.36	126.55	119.84
31	Cd	10	HIS	C-N-CA	5.36	126.55	119.84
41	BC	340	GLY	N-CA-C	-5.36	106.45	115.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	BF	229	PHE	N-CA-C	5.36	118.36	110.59
36	A5	2249	G	C3'-C2'-C1'	-5.36	95.94	101.30
83	Dq	80	VAL	CB-CA-C	5.36	118.80	111.88
28	Aa	97	PRO	N-CA-C	5.36	117.24	110.70
69	Df	72	THR	N-CA-C	5.36	119.82	113.12
2	CA	141	ILE	N-CA-C	5.36	113.84	107.73
16	CO	125	SER	N-CA-C	5.36	116.36	107.73
25	CX	69	ARG	N-CA-C	5.36	119.87	113.23
44	DF	219	LYS	CA-C-N	-5.36	114.04	122.08
44	DF	219	LYS	C-N-CA	-5.36	114.04	122.08
44	BF	159	GLN	N-CA-C	5.35	122.20	110.80
61	BX	49	LYS	N-CA-C	5.35	120.62	112.54
75	Bl	34	THR	CB-CA-C	5.35	116.06	109.16
7	CF	44	ASN	N-CA-C	-5.35	102.54	111.37
63	DZ	24	VAL	CB-CA-C	-5.35	103.18	110.77
64	Da	34	MET	N-CA-C	5.35	118.64	112.97
41	BC	311	HIS	N-CA-C	5.34	122.18	110.80
47	BI	26	VAL	CA-C-N	5.34	125.64	119.92
47	BI	26	VAL	C-N-CA	5.34	125.64	119.92
5	CD	219	ALA	CA-C-N	5.34	126.52	119.84
5	CD	219	ALA	C-N-CA	5.34	126.52	119.84
9	CH	13	PRO	CA-C-N	5.34	131.32	121.70
9	CH	13	PRO	C-N-CA	5.34	131.32	121.70
54	DQ	158	HIS	N-CA-C	5.34	119.37	112.86
56	DS	130	GLU	N-CA-C	5.34	116.79	110.97
62	DY	112	ASP	N-CA-C	-5.34	99.43	110.80
44	BF	89	ILE	N-CA-CB	-5.34	104.91	112.12
75	Bl	3	ALA	CA-C-N	5.34	128.80	121.33
75	Bl	3	ALA	C-N-CA	5.34	128.80	121.33
40	DB	278	ILE	N-CA-C	5.34	117.39	109.17
41	BC	76	ARG	CG-CD-NE	-5.33	100.26	112.00
42	BD	123	GLU	N-CA-C	-5.33	105.51	112.23
7	CF	74	ALA	N-CA-C	-5.33	105.94	113.20
54	BQ	137	THR	CB-CA-C	-5.33	101.00	109.80
34	Cg	312	VAL	CB-CA-C	-5.33	105.84	111.23
50	DM	110	ALA	N-CA-C	-5.33	106.28	112.89
56	DS	17	GLU	N-CA-C	-5.33	105.63	111.82
17	CP	36	LEU	N-CA-C	5.33	119.34	112.41
48	DJ	15	GLU	N-CA-C	-5.33	104.37	111.24
7	CF	21	THR	CA-C-N	5.33	125.58	119.83
7	CF	21	THR	C-N-CA	5.33	125.58	119.83
51	BN	92	LEU	CA-C-N	-5.32	113.38	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	BN	92	LEU	C-N-CA	-5.32	113.38	122.11
19	CR	95	ARG	CA-C-N	5.32	131.28	121.70
19	CR	95	ARG	C-N-CA	5.32	131.28	121.70
44	DF	160	ARG	CA-C-N	-5.32	118.22	122.85
44	DF	160	ARG	C-N-CA	-5.32	118.22	122.85
5	AD	37	VAL	CB-CA-C	-5.32	103.90	111.19
35	Ah	61	ILE	CB-CA-C	-5.32	105.11	112.24
4	CC	137	ILE	N-CA-CB	-5.32	105.95	111.64
72	Bi	18	THR	N-CA-CB	5.32	117.77	109.85
40	DB	245	GLY	N-CA-C	5.31	119.37	112.68
48	DJ	10	ARG	N-CA-C	5.31	122.12	110.80
67	Dd	8	VAL	CB-CA-C	-5.31	102.58	111.29
6	AE	154	ILE	CB-CA-C	-5.31	103.41	111.69
62	BY	124	GLY	CA-C-N	-5.31	116.12	122.44
62	BY	124	GLY	C-N-CA	-5.31	116.12	122.44
2	CA	76	ILE	CB-CA-C	-5.31	101.89	110.28
41	DC	101	ALA	CA-C-N	5.31	126.48	119.84
41	DC	101	ALA	C-N-CA	5.31	126.48	119.84
63	BZ	43	VAL	N-CA-C	5.31	115.36	108.35
71	Bh	40	SER	CA-C-N	-5.30	117.02	122.85
71	Bh	40	SER	C-N-CA	-5.30	117.02	122.85
48	DJ	166	LYS	N-CA-C	-5.30	101.64	109.86
49	DL	24	VAL	CB-CA-C	-5.30	103.71	110.98
62	BY	56	VAL	N-CA-CB	-5.30	102.67	111.36
20	CS	143	ARG	N-CA-C	-5.30	102.17	110.17
43	BE	39	VAL	N-CA-C	5.30	115.92	109.30
41	DC	14	GLU	N-CA-C	5.30	122.09	110.80
41	DC	60	THR	CB-CA-C	-5.30	97.80	109.56
66	Bc	79	THR	N-CA-C	-5.30	105.56	112.23
50	DM	27	GLN	N-CA-C	-5.30	106.98	113.50
34	Cg	27	ALA	N-CA-C	-5.29	105.42	111.14
3	AB	110	LEU	N-CA-C	-5.29	105.51	111.28
9	CH	131	PHE	N-CA-C	5.29	121.51	109.81
4	CC	87	GLN	N-CA-C	5.29	117.43	109.23
22	AU	62	VAL	N-CA-C	5.29	115.69	107.28
54	BQ	170	ARG	N-CA-C	-5.29	103.51	110.33
63	BZ	34	LYS	N-CA-C	-5.29	105.60	111.36
44	BF	176	TYR	CB-CA-C	-5.29	102.93	111.28
34	Cg	126	SER	N-CA-C	5.29	117.71	109.52
59	DV	129	VAL	N-CA-C	-5.28	105.70	110.82
40	BB	292	ALA	CA-C-N	5.28	127.30	120.44
40	BB	292	ALA	C-N-CA	5.28	127.30	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CG	151	ASP	N-CA-C	5.28	119.72	113.28
20	CS	34	THR	N-CA-CB	5.28	118.07	110.20
58	DU	88	GLN	N-CA-C	5.28	119.00	111.92
55	BR	127	SER	CA-C-N	5.28	128.08	120.38
55	BR	127	SER	C-N-CA	5.28	128.08	120.38
40	DB	8	ALA	N-CA-C	5.28	114.37	108.25
78	Bo	29	LYS	N-CA-C	-5.28	102.65	110.46
65	Db	13	THR	N-CA-CB	5.28	118.46	110.28
10	AI	172	ARG	CA-C-N	5.27	124.72	119.24
10	AI	172	ARG	C-N-CA	5.27	124.72	119.24
2	CA	37	VAL	CB-CA-C	-5.27	104.37	110.91
15	CN	66	ILE	N-CA-C	5.27	120.30	109.34
40	BB	221	THR	N-CA-CB	-5.27	102.29	110.04
6	AE	235	TYR	N-CA-C	-5.27	106.63	114.64
21	AT	39	THR	N-CA-CB	5.27	119.39	110.49
60	DW	97	LYS	CA-C-N	5.27	126.42	119.84
60	DW	97	LYS	C-N-CA	5.27	126.42	119.84
3	CB	205	PHE	CA-C-N	5.26	126.42	119.84
3	CB	205	PHE	C-N-CA	5.26	126.42	119.84
66	Dc	44	ILE	N-CA-C	5.26	116.16	108.58
45	DG	49	TYR	CA-C-N	-5.26	112.91	122.43
45	DG	49	TYR	C-N-CA	-5.26	112.91	122.43
4	AC	148	LEU	N-CA-C	5.26	122.00	110.80
24	AW	89	TRP	N-CA-C	5.26	117.43	111.02
39	BA	204	MET	N-CA-C	5.25	118.21	110.59
39	BA	242	ARG	N-CA-C	-5.25	101.49	108.74
4	CC	94	GLN	N-CA-C	5.25	116.97	109.14
45	DG	64	ILE	CB-CA-C	-5.25	105.25	111.97
3	AB	204	ILE	CB-CA-C	-5.25	105.60	111.80
19	AR	81	LYS	N-CA-C	-5.25	106.11	112.88
40	DB	290	ASP	N-CA-C	5.25	117.31	109.59
43	DE	75	PRO	CA-C-O	-5.25	115.50	121.96
42	BD	37	VAL	N-CA-C	5.25	116.33	111.45
2	AA	143	VAL	N-CA-C	5.25	116.25	107.18
14	AM	94	ALA	N-CA-C	5.25	116.68	111.07
19	CR	57	LEU	N-CA-C	5.25	116.68	111.07
26	AY	35	VAL	N-CA-C	5.25	116.07	111.56
57	DT	135	PRO	CA-C-O	-5.25	111.76	120.05
2	AA	63	ILE	CB-CA-C	-5.24	106.27	111.30
7	AF	27	THR	CA-C-N	5.24	126.38	120.66
7	AF	27	THR	C-N-CA	5.24	126.38	120.66
50	BM	38	ILE	CB-CG1-CD1	-5.24	102.79	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	DF	198	ALA	CA-C-N	5.24	127.56	120.38
44	DF	198	ALA	C-N-CA	5.24	127.56	120.38
51	DN	183	THR	N-CA-C	5.24	121.96	110.80
73	Dj	58	THR	CB-CA-C	-5.24	99.62	111.30
65	Db	28	LYS	N-CA-C	-5.24	101.93	110.20
18	AQ	65	ILE	N-CA-C	5.24	115.39	107.75
61	BX	63	ILE	CB-CA-C	5.23	118.64	111.31
39	DA	225	ILE	N-CA-C	5.23	116.12	108.53
66	Bc	100	ILE	N-CA-C	5.23	120.22	109.34
18	CQ	125	GLU	CA-C-N	5.23	124.99	119.76
18	CQ	125	GLU	C-N-CA	5.23	124.99	119.76
64	Da	144	VAL	CB-CA-C	-5.23	104.02	111.34
6	CE	23	LEU	N-CA-C	-5.23	103.13	110.35
34	Ag	170	ILE	N-CA-C	5.23	115.51	107.77
67	Bd	95	PRO	CA-C-N	-5.23	116.71	123.19
67	Bd	95	PRO	C-N-CA	-5.23	116.71	123.19
47	DI	49	CYS	N-CA-C	5.23	116.93	108.41
59	DV	14	SER	N-CA-C	5.23	117.61	110.24
35	Ah	51	ARG	CA-C-N	5.22	126.37	119.84
35	Ah	51	ARG	C-N-CA	5.22	126.37	119.84
76	Dm	85	LEU	N-CA-C	-5.22	105.48	111.07
45	BG	166	LEU	CA-C-N	-5.22	113.54	118.97
45	BG	166	LEU	C-N-CA	-5.22	113.54	118.97
54	BQ	178	ARG	NE-CZ-NH1	-5.22	116.28	121.50
39	DA	119	LYS	CA-C-N	-5.22	114.19	119.83
39	DA	119	LYS	C-N-CA	-5.22	114.19	119.83
46	DH	167	VAL	N-CA-CB	5.22	119.84	111.23
50	BM	53	VAL	CA-C-O	5.22	122.23	119.15
78	Bo	83	LEU	CA-C-N	-5.22	115.52	122.72
78	Bo	83	LEU	C-N-CA	-5.22	115.52	122.72
36	A1	406	G	O4'-C1'-N9	5.21	116.02	108.20
49	BL	63	VAL	CB-CA-C	-5.21	100.37	111.32
6	CE	96	ASN	N-CA-C	5.21	118.92	112.24
10	CI	62	THR	N-CA-C	5.21	121.91	110.80
70	Dg	89	ILE	CB-CA-C	-5.21	105.19	112.02
39	DA	14	SER	N-CA-C	5.21	116.23	108.31
46	BH	151	VAL	CB-CA-C	-5.21	102.74	111.29
8	CG	81	VAL	N-CA-C	-5.21	100.37	108.81
43	DE	65	ILE	CA-C-N	-5.21	114.15	122.17
43	DE	65	ILE	C-N-CA	-5.21	114.15	122.17
64	Da	22	ILE	CB-CA-C	-5.21	105.22	112.04
79	Dp	15	GLY	O-C-N	-5.21	115.93	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	Ba	120	ASN	N-CA-C	5.21	117.03	111.36
35	Ah	112	ASP	N-CA-C	5.20	117.30	109.23
40	DB	9	PRO	CA-C-O	-5.20	115.32	121.67
41	DC	198	ARG	N-CA-C	5.20	121.88	110.80
65	Db	20	GLY	O-C-N	5.20	129.06	123.18
55	BR	93	VAL	CB-CA-C	-5.20	105.31	111.97
41	DC	126	ILE	N-CA-C	-5.20	105.78	110.82
62	DY	82	VAL	N-CA-C	5.20	115.06	107.37
2	AA	188	LEU	N-CA-C	5.20	121.87	110.80
40	BB	323	MET	CG-SD-CE	-5.20	89.47	100.90
44	BF	88	ARG	CA-C-N	5.20	127.94	121.71
44	BF	88	ARG	C-N-CA	5.20	127.94	121.71
21	CT	30	VAL	CA-C-N	5.20	125.13	119.78
21	CT	30	VAL	C-N-CA	5.20	125.13	119.78
46	DH	123	ILE	N-CA-C	5.20	115.79	108.36
53	DP	31	GLU	N-CA-C	-5.20	105.79	111.82
5	AD	42	THR	CA-C-N	-5.19	114.38	119.99
5	AD	42	THR	C-N-CA	-5.19	114.38	119.99
56	BS	19	VAL	CA-C-N	-5.19	114.89	120.03
56	BS	19	VAL	C-N-CA	-5.19	114.89	120.03
67	Bd	49	VAL	CB-CA-C	-5.19	104.55	110.73
6	CE	165	ALA	N-CA-C	-5.19	106.79	113.23
42	DD	146	LEU	N-CA-C	5.19	118.09	110.30
5	CD	167	PHE	CA-C-N	-5.19	116.40	123.10
5	CD	167	PHE	C-N-CA	-5.19	116.40	123.10
42	DD	180	PHE	CA-C-N	-5.19	114.41	119.76
42	DD	180	PHE	C-N-CA	-5.19	114.41	119.76
40	BB	3	HIS	N-CA-CB	5.19	119.26	110.49
39	BA	165	VAL	CB-CA-C	5.19	117.42	110.42
74	Bk	70	PRO	CA-C-N	5.19	127.02	121.00
74	Bk	70	PRO	C-N-CA	5.19	127.02	121.00
42	DD	214	ASP	CB-CA-C	-5.19	101.72	110.64
32	Ae	57	ASN	CA-C-N	-5.18	115.01	120.66
32	Ae	57	ASN	C-N-CA	-5.18	115.01	120.66
54	BQ	169	GLY	N-CA-C	-5.18	103.02	110.38
70	Bg	50	ALA	CA-C-N	-5.18	115.30	122.30
70	Bg	50	ALA	C-N-CA	-5.18	115.30	122.30
41	DC	145	ILE	CA-C-N	5.18	126.32	119.84
41	DC	145	ILE	C-N-CA	5.18	126.32	119.84
6	AE	118	GLU	N-CA-C	-5.18	106.22	112.54
25	AX	129	GLY	CA-C-N	-5.18	117.85	123.08
25	AX	129	GLY	C-N-CA	-5.18	117.85	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	BZ	18	TYR	N-CA-C	-5.18	106.55	112.92
23	CV	30	ALA	N-CA-C	-5.18	106.64	113.17
62	DY	80	VAL	N-CA-C	-5.18	100.78	108.45
39	BA	211	HIS	N-CA-C	-5.18	106.81	113.23
36	A5	1607	U	C4'-C3'-O3'	5.18	117.17	109.40
67	Bd	105	GLN	CA-C-N	-5.17	114.02	121.42
67	Bd	105	GLN	C-N-CA	-5.17	114.02	121.42
4	CC	96	THR	N-CA-C	5.17	117.88	109.24
6	CE	4	GLY	CA-C-N	5.17	125.42	119.83
6	CE	4	GLY	C-N-CA	5.17	125.42	119.83
33	Cf	103	LEU	N-CA-C	5.17	121.82	110.80
40	BB	196	ARG	N-CA-C	-5.17	105.54	111.07
73	Bj	6	PRO	CA-C-N	-5.17	112.56	121.66
73	Bj	6	PRO	C-N-CA	-5.17	112.56	121.66
48	DJ	120	ILE	CB-CA-C	-5.17	105.70	111.80
2	AA	158	VAL	N-CA-C	5.16	120.08	109.34
11	AJ	152	SER	N-CA-C	-5.16	106.09	114.09
12	AK	60	SER	N-CA-C	5.16	121.80	110.80
64	Da	125	VAL	N-CA-C	5.16	115.20	107.51
59	BV	17	LEU	CA-C-N	-5.16	115.41	120.52
59	BV	17	LEU	C-N-CA	-5.16	115.41	120.52
40	DB	4	ARG	CB-CA-C	5.16	117.95	109.90
42	DD	293	LEU	N-CA-C	5.16	117.81	111.82
22	AU	42	VAL	N-CA-C	5.16	115.38	110.53
50	BM	5	SER	N-CA-C	5.16	118.03	111.69
17	CP	37	ALA	CA-C-N	-5.16	115.46	120.98
17	CP	37	ALA	C-N-CA	-5.16	115.46	120.98
51	DN	69	GLY	N-CA-C	5.16	120.99	112.84
43	BE	52	VAL	CA-C-N	-5.15	116.44	122.93
43	BE	52	VAL	C-N-CA	-5.15	116.44	122.93
6	AE	210	ILE	CB-CA-C	-5.15	103.01	110.63
10	AI	22	ARG	N-CA-C	5.15	121.76	110.80
16	CO	135	ARG	CA-C-N	-5.15	115.54	122.95
16	CO	135	ARG	C-N-CA	-5.15	115.54	122.95
53	BP	169	THR	N-CA-C	5.14	116.97	110.33
9	CH	180	GLN	N-CA-C	5.14	117.45	108.76
44	BF	164	SER	N-CA-C	5.14	121.75	110.80
46	BH	128	VAL	CB-CA-C	-5.14	103.67	111.33
45	DG	33	ASN	N-CA-C	5.14	119.82	113.50
69	Bf	20	LYS	CA-C-N	-5.14	114.27	122.29
69	Bf	20	LYS	C-N-CA	-5.14	114.27	122.29
18	CQ	43	ILE	N-CA-C	-5.14	104.63	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	DC	226	GLU	N-CA-C	5.14	117.49	109.52
74	Bk	47	GLY	N-CA-C	-5.14	104.74	112.60
34	Cg	214	ALA	N-CA-C	5.14	117.06	108.99
70	Dg	20	ILE	N-CA-C	5.14	117.13	108.81
44	BF	239	LEU	CB-CA-C	-5.13	103.05	110.96
47	BI	159	PHE	N-CA-C	5.13	117.06	110.39
64	Da	6	THR	CB-CA-C	5.13	119.17	109.37
44	BF	93	ASN	N-CA-C	5.13	118.09	110.14
43	DE	89	THR	CB-CA-C	5.13	117.99	109.53
58	BU	59	ASP	N-CA-C	-5.13	107.19	112.93
9	CH	31	SER	N-CA-C	5.13	121.14	109.81
2	CA	144	ILE	CB-CA-C	-5.13	104.42	111.49
13	CL	114	ALA	N-CA-C	-5.12	99.89	110.80
66	Dc	92	ILE	CB-CA-C	-5.12	104.49	111.15
43	BE	167	ASN	N-CA-C	-5.12	102.47	110.10
63	BZ	4	PHE	N-CA-C	5.12	119.40	113.20
36	A5	1481	A	P-O3'-C3'	5.12	127.88	120.20
49	DL	149	GLN	CA-C-N	5.12	126.24	119.84
49	DL	149	GLN	C-N-CA	5.12	126.24	119.84
59	BV	72	LYS	N-CA-C	5.12	116.85	109.07
50	DM	36	VAL	CB-CA-C	-5.12	105.66	111.55
34	Ag	272	ASP	N-CA-C	5.12	116.07	108.60
39	DA	211	HIS	CA-C-O	5.12	126.02	120.55
64	Da	124	ILE	CB-CA-C	-5.12	104.15	111.31
42	DD	128	GLU	N-CA-C	-5.11	102.22	110.14
49	DL	50	PRO	N-CA-C	5.11	121.00	114.92
58	DU	67	SER	N-CA-C	5.11	117.50	108.75
61	BX	134	ASP	N-CA-C	-5.11	105.60	111.07
22	CU	22	ILE	N-CA-C	5.11	117.19	109.12
49	BL	55	ARG	CA-C-N	5.11	125.09	120.03
49	BL	55	ARG	C-N-CA	5.11	125.09	120.03
71	Bh	61	GLN	N-CA-C	5.11	116.54	111.07
51	DN	182	ASN	CA-C-O	-5.11	115.39	120.96
15	AN	4	MET	N-CA-C	5.10	116.65	111.14
51	BN	155	VAL	CB-CA-C	-5.10	102.92	111.29
34	Cg	227	ALA	N-CA-C	-5.10	107.56	112.97
2	AA	193	GLN	CA-C-N	5.10	126.21	119.84
2	AA	193	GLN	C-N-CA	5.10	126.21	119.84
11	CJ	17	ARG	CA-C-N	5.10	124.79	119.64
11	CJ	17	ARG	C-N-CA	5.10	124.79	119.64
24	CW	102	VAL	CA-C-N	-5.10	114.11	122.67
24	CW	102	VAL	C-N-CA	-5.10	114.11	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	DJ	23	VAL	N-CA-C	5.10	115.25	110.30
41	BC	61	SER	N-CA-C	-5.09	106.38	112.59
41	BC	222	VAL	CB-CA-C	5.09	115.68	110.94
2	CA	166	GLY	N-CA-C	5.09	125.25	113.18
20	CS	102	ALA	N-CA-C	5.09	116.69	108.08
56	DS	165	TYR	N-CA-C	-5.09	106.38	112.59
22	AU	54	GLY	CA-C-N	5.09	126.20	119.84
22	AU	54	GLY	C-N-CA	5.09	126.20	119.84
44	BF	192	GLY	CA-C-N	5.09	126.20	119.84
44	BF	192	GLY	C-N-CA	5.09	126.20	119.84
16	CO	80	HIS	CA-C-N	-5.09	116.03	123.06
16	CO	80	HIS	C-N-CA	-5.09	116.03	123.06
2	AA	166	GLY	N-CA-C	5.09	116.92	110.20
6	CE	117	GLU	N-CA-C	-5.09	102.08	109.31
68	De	43	ARG	NE-CZ-NH1	5.09	126.59	121.50
57	BT	124	VAL	N-CA-C	5.08	119.92	109.34
11	CJ	48	GLN	N-CA-C	-5.08	105.74	111.28
33	Af	138	ARG	N-CA-C	5.08	121.63	110.80
40	BB	307	PRO	CA-C-O	-5.08	115.58	122.08
44	DF	84	VAL	N-CA-C	5.08	117.33	108.95
19	CR	69	ILE	N-CA-C	5.08	115.78	107.24
42	DD	118	THR	N-CA-C	-5.08	102.34	109.96
20	CS	70	VAL	CB-CA-C	-5.08	105.28	112.14
57	DT	17	ARG	CA-CB-CG	-5.08	103.94	114.10
68	Be	28	VAL	N-CA-C	5.08	115.07	107.51
68	De	52	GLN	CA-C-N	5.08	124.99	119.76
68	De	52	GLN	C-N-CA	5.08	124.99	119.76
19	CR	4	VAL	N-CA-C	5.07	114.87	107.37
58	BU	93	ILE	N-CA-C	5.07	115.20	108.11
47	DI	131	ILE	CB-CA-C	-5.06	104.63	110.91
54	BQ	129	VAL	N-CA-C	5.06	115.78	110.62
49	DL	123	ILE	CA-C-N	-5.06	115.79	122.98
49	DL	123	ILE	C-N-CA	-5.06	115.79	122.98
64	Da	121	VAL	N-CA-C	5.06	119.81	108.88
39	BA	243	THR	N-CA-C	-5.06	100.63	108.42
18	AQ	74	HIS	N-CA-C	5.06	116.48	111.07
41	BC	94	CYS	N-CA-C	5.06	117.86	109.46
3	CB	61	LEU	N-CA-C	-5.06	106.45	113.18
47	DI	175	ASN	N-CA-C	-5.06	100.02	110.80
11	AJ	138	LYS	N-CA-C	-5.06	106.89	113.16
41	BC	216	VAL	N-CA-CB	5.06	117.42	110.54
68	Be	6	HIS	CA-C-N	-5.06	115.02	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	Be	6	HIS	C-N-CA	-5.06	115.02	120.03
58	BU	68	THR	N-CA-C	-5.05	107.15	113.72
41	BC	113	VAL	N-CA-C	-5.05	100.97	108.45
7	AF	66	GLN	CA-C-N	5.05	125.26	120.31
7	AF	66	GLN	C-N-CA	5.05	125.26	120.31
22	CU	70	THR	CB-CA-C	-5.05	101.77	109.50
36	A1	1329	U	C4'-C3'-O3'	5.05	116.97	109.40
40	BB	10	ARG	CA-CB-CG	5.05	124.20	114.10
19	CR	52	GLY	N-CA-C	5.05	118.36	112.50
41	DC	247	PHE	CA-C-N	-5.04	116.94	123.19
41	DC	247	PHE	C-N-CA	-5.04	116.94	123.19
40	BB	366	GLY	N-CA-C	-5.04	103.37	111.59
52	BO	19[A]	LEU	N-CA-C	-5.04	105.68	111.07
52	BO	19[B]	LEU	N-CA-C	-5.04	105.68	111.07
28	Ca	59	TYR	CA-C-N	5.04	126.14	119.84
28	Ca	59	TYR	C-N-CA	5.04	126.14	119.84
49	DL	21	ARG	NE-CZ-NH1	-5.04	116.46	121.50
47	BI	155	ALA	N-CA-C	-5.04	105.87	111.36
51	BN	192	LYS	N-CA-C	-5.04	105.87	111.36
55	BR	51	VAL	N-CA-C	5.04	116.61	108.85
56	BS	5	LYS	N-CA-C	-5.03	102.11	109.81
32	Ce	52	GLY	N-CA-C	-5.03	107.33	115.08
13	AL	55	ASP	N-CA-C	5.03	121.51	110.80
29	Ab	50	ALA	N-CA-C	5.03	121.51	110.80
17	CP	105	VAL	N-CA-C	5.03	115.51	108.17
54	DQ	93	ILE	CB-CA-C	-5.03	104.19	111.68
7	CF	81	ARG	N-CA-C	5.02	117.14	111.11
19	AR	125	SER	N-CA-C	5.02	115.67	108.74
42	BD	243	ALA	N-CA-C	-5.02	105.81	111.28
30	Cc	41	VAL	CB-CA-C	-5.02	104.11	110.98
15	CN	136	PRO	O-C-N	5.02	123.51	121.15
39	BA	49	VAL	N-CA-C	5.01	114.97	108.35
42	BD	21	ARG	N-CA-C	-5.01	100.12	110.80
40	DB	346	THR	CB-CA-C	5.01	117.87	109.80
54	BQ	145	ASN	CB-CA-C	5.01	119.48	110.81
42	DD	174	PRO	CA-C-O	-5.01	115.87	121.23
4	AC	206	THR	CB-CA-C	5.01	120.09	111.68
39	BA	33	ASP	N-CA-C	5.01	117.60	109.79
17	CP	30	THR	N-CA-C	-5.01	105.95	111.71
64	Da	25	HIS	N-CA-C	-5.01	99.64	108.20
57	BT	148	PRO	CA-C-O	-5.01	115.63	121.34
47	BI	120	GLY	N-CA-C	5.00	120.17	112.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BB	305	ILE	CB-CA-C	-5.00	100.42	111.77

There are no chirality outliers.

All (67) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
36	A1	1329	U	Sidechain
36	A1	406	G	Sidechain
36	A1	835	G	Sidechain
36	A5	2898	G	Sidechain
3	AB	131	ASP	Peptide
9	AH	131	PHE	Peptide
13	AL	127	GLN	Peptide
16	AO	124	ASP	Peptide
19	AR	22	PRO	Peptide
19	AR	85	VAL	Peptide
27	AZ	54	VAL	Peptide
27	AZ	93	SER	Peptide
27	AZ	96	SER	Peptide
29	Ab	42	ASN	Peptide
33	Af	105	TYR	Peptide
33	Af	138	ARG	Peptide
35	Ah	134	ASP	Sidechain
40	BB	172	ALA	Peptide
41	BC	318	LEU	Peptide
43	BE	129	GLU	Peptide
43	BE	51	ARG	Peptide
44	BF	157	ASN	Peptide
45	BG	158	ASP	Peptide
45	BG	30	THR	Peptide
45	BG	74	THR	Peptide
46	BH	21	LYS	Peptide
48	BJ	8	PRO	Peptide
52	BO	110[A]	PRO	Peptide
52	BO	110[B]	PRO	Peptide
57	BT	16	GLN	Peptide
65	Bb	19	ASN	Peptide
65	Bb	20	GLY	Peptide
67	Bd	110	GLU	Peptide
78	Bo	93	LEU	Peptide
2	CA	165	ARG	Peptide
5	CD	203	PRO	Peptide

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Mol	Chain	Res	Type	Group
7	CF	44	ASN	Peptide
7	CF	99	MET	Peptide
11	CJ	168	ARG	Peptide
11	CJ	88	GLU	Peptide
11	CJ	89	ASP	Peptide
16	CO	131	GLY	Peptide
17	CP	52	LYS	Peptide
18	CQ	41	PRO	Peptide
22	CU	70	THR	Peptide
25	CX	44	GLY	Peptide
27	CZ	85	LYS	Peptide
27	CZ	87	GLY	Peptide
33	Cf	102	VAL	Peptide
33	Cf	129	GLY	Peptide
39	DA	143	GLU	Peptide
39	DA	211	HIS	Peptide
41	DC	91	GLY	Peptide
42	DD	271	LYS	Peptide
43	DE	129	GLU	Peptide
44	DF	192	GLY	Peptide
44	DF	226	GLY	Peptide
52	DO	110[A]	PRO	Peptide
52	DO	68[B]	ARG	Peptide
56	DS	133	ALA	Peptide
59	DV	41	GLY	Peptide
62	DY	111	LEU	Peptide
63	DZ	101	PHE	Peptide
64	Da	26	ARG	Peptide
64	Da	66	ALA	Peptide
64	Da	75	LEU	Peptide
65	Db	19	ASN	Peptide

5.2 Too-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 hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A2	37835	0	19062	1110	0
2	AA	1577	0	1567	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	CA	1583	0	1578	88	0
3	AB	1709	0	1784	128	0
3	CB	1722	0	1793	79	0
4	AC	1635	0	1723	58	0
4	CC	1635	0	1723	64	0
5	AD	1734	0	1817	70	0
5	CD	1734	0	1817	55	0
6	AE	2068	0	2154	71	0
6	CE	2068	0	2154	93	0
7	AF	1609	0	1675	76	0
7	CF	1609	0	1675	82	0
8	AG	1799	0	1879	93	0
8	CG	1755	0	1846	64	0
9	AH	1481	0	1572	83	0
9	CH	1491	0	1578	66	0
10	AI	1489	0	1525	67	0
10	CI	1489	0	1525	49	0
11	AJ	1494	0	1573	85	0
11	CJ	1494	0	1573	84	0
12	AK	772	0	727	45	0
12	CK	761	0	697	37	0
13	AL	1213	0	1257	51	0
13	CL	1168	0	1233	42	0
14	AM	890	0	887	55	0
14	CM	890	0	887	54	0
15	AN	1192	0	1255	49	0
15	CN	1192	0	1255	44	0
16	AO	891	0	883	63	0
16	CO	949	0	985	48	0
17	AP	977	0	1002	49	0
17	CP	1039	0	1050	77	0
18	AQ	1105	0	1166	70	0
18	CQ	1111	0	1171	52	0
19	AR	926	0	930	45	0
19	CR	906	0	909	41	0
20	AS	1192	0	1222	75	1
20	CS	1192	0	1222	65	0
21	AT	1112	0	1124	70	0
21	CT	1112	0	1124	46	0
22	AU	855	0	917	41	0
22	CU	882	0	939	59	0
23	AV	684	0	672	44	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	CV	684	0	672	34	0
24	AW	1021	0	1060	57	0
24	CW	1021	0	1060	33	0
25	AX	1121	0	1196	54	0
25	CX	1121	0	1196	35	0
26	AY	1073	0	1132	41	0
26	CY	1073	0	1132	54	0
27	AZ	563	0	603	44	0
27	CZ	558	0	598	29	0
28	Aa	769	0	814	55	0
28	Ca	769	0	815	43	0
29	Ab	610	0	630	26	0
29	Cb	610	0	631	25	0
30	Ac	497	0	535	33	0
30	Cc	497	0	535	27	0
31	Ad	442	0	428	27	0
31	Cd	442	0	428	23	0
32	Ae	475	0	525	16	0
32	Ce	491	0	542	24	0
33	Af	516	0	517	42	0
33	Cf	544	0	546	30	0
34	Ag	2437	0	2386	77	0
34	Cg	2442	0	2392	84	0
35	Ah	1105	0	960	46	0
36	A1	67355	0	33821	1412	0
36	A5	67376	0	33831	1372	0
37	A3	2579	0	1304	38	0
37	A7	2579	0	1303	46	0
38	A4	3353	0	1691	58	0
38	A8	3353	0	1695	65	0
39	BA	1914	0	1981	68	0
39	DA	1912	0	1976	83	0
40	BB	3075	0	3142	159	0
40	DB	3075	0	3142	123	0
41	BC	2748	0	2859	104	0
41	DC	2748	0	2859	99	0
42	BD	2375	0	2325	105	0
42	DD	2359	0	2311	94	0
43	BE	1239	0	1326	40	0
43	DE	1248	0	1339	39	0
44	BF	1784	0	1862	63	0
44	DF	1791	0	1869	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	BG	1804	0	1877	84	0
45	DG	1763	0	1819	78	0
46	BH	1518	0	1587	64	0
46	DH	1518	0	1587	69	0
47	BI	1705	0	1736	81	0
47	DI	1722	0	1755	54	1
48	BJ	1353	0	1383	66	0
48	DJ	1353	0	1383	55	0
49	BL	1543	0	1608	56	0
49	DL	1548	0	1613	61	0
50	BM	1053	0	1149	42	0
50	DM	1059	0	1154	39	0
51	BN	1720	0	1779	69	0
51	DN	1720	0	1779	72	0
52	BO	3119	0	3302	76	0
52	DO	3119	0	3302	90	0
53	BP	1420	0	1437	66	0
53	DP	1227	0	1236	35	0
54	BQ	1441	0	1543	59	0
54	DQ	1441	0	1543	50	0
55	BR	1521	0	1617	65	0
55	DR	1521	0	1617	38	0
56	BS	1445	0	1487	54	0
56	DS	1445	0	1487	52	0
57	BT	1276	0	1323	41	0
57	DT	1276	0	1323	55	0
58	BU	796	0	812	24	0
58	DU	778	0	791	26	0
59	BV	1003	0	1048	53	0
59	DV	1003	0	1048	31	0
60	BW	699	0	640	19	0
60	DW	1038	0	1071	23	0
61	BX	964	0	1025	25	0
61	DX	959	0	1023	29	0
62	BY	993	0	1081	31	0
62	DY	993	0	1081	30	0
63	BZ	1092	0	1155	49	0
63	DZ	1092	0	1155	62	0
64	Ba	1173	0	1215	49	0
64	Da	1173	0	1215	58	0
65	Bb	462	0	491	18	0
65	Db	462	0	491	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
66	Bc	743	0	797	37	0
66	Dc	767	0	816	35	0
67	Bd	876	0	912	22	0
67	Dd	883	0	918	26	0
68	Be	1020	0	1090	32	0
68	De	1020	0	1090	39	0
69	Bf	850	0	880	35	0
69	Df	850	0	880	29	0
70	Bg	880	0	945	39	0
70	Dg	880	0	945	37	0
71	Bh	969	0	1078	38	0
71	Dh	965	0	1067	45	0
72	Bi	771	0	849	33	0
72	Di	770	0	846	26	0
73	Bj	681	0	683	25	0
73	Dj	681	0	683	30	0
74	Bk	612	0	682	21	0
74	Dk	608	0	671	22	0
75	Bl	436	0	475	25	0
75	Dl	436	0	475	21	0
76	Bm	417	0	456	15	0
76	Dm	417	0	455	16	0
77	Bn	233	0	284	16	0
77	Dn	233	0	284	14	0
78	Bo	847	0	916	38	0
78	Do	847	0	915	34	0
79	Bp	694	0	734	26	0
79	Dp	694	0	734	25	0
80	A6	38021	0	19178	939	0
81	Ch	680	0	542	44	0
82	DK	750	0	185	12	0
83	Dq	1077	0	1012	32	0
84	Dr	235	0	50	5	0
85	Ds	230	0	49	0	0
86	A1	2891	0	0	451	1
86	A2	1316	0	0	223	0
86	A3	91	0	0	7	0
86	A4	105	0	0	9	0
86	A5	2926	0	0	449	0
86	A6	1399	0	0	192	0
86	A7	91	0	0	12	0
86	A8	133	0	0	20	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	AC	7	0	0	5	0
86	AI	7	0	0	1	0
86	AL	7	0	0	1	0
86	AN	7	0	0	1	0
86	AP	7	0	0	5	0
86	Ad	7	0	0	4	0
86	Ag	7	0	0	0	0
86	BA	7	0	0	5	0
86	BB	14	0	0	2	0
86	BC	7	0	0	2	0
86	BD	7	0	0	1	0
86	BI	28	0	0	16	0
86	BN	7	0	0	0	0
86	BO	7	0	0	0	0
86	BP	14	0	0	2	0
86	BR	7	0	0	1	0
86	BT	7	0	0	0	0
86	Bb	7	0	0	0	0
86	Bf	7	0	0	0	0
86	Bj	21	0	0	6	0
86	Bo	7	0	0	3	0
86	CB	7	0	0	0	0
86	CG	14	0	0	4	1
86	CI	7	0	0	1	0
86	CJ	7	0	0	3	0
86	CL	7	0	0	5	0
86	CN	7	0	0	2	0
86	CP	14	0	0	7	0
86	CS	7	0	0	0	0
86	CY	14	0	0	0	0
86	Cd	7	0	0	4	0
86	Cg	7	0	0	0	0
86	DA	7	0	0	6	0
86	DB	14	0	0	1	0
86	DC	14	0	0	2	0
86	DD	7	0	0	1	0
86	DG	7	0	0	6	0
86	DH	7	0	0	0	0
86	DI	14	0	0	1	0
86	DJ	7	0	0	1	0
86	DM	7	0	0	0	0
86	DO	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	DP	7	0	0	1	0
86	DQ	7	0	0	0	0
86	DR	7	0	0	1	0
86	DV	7	0	0	1	0
86	Db	7	0	0	1	0
86	De	7	0	0	0	0
86	Df	7	0	0	0	0
86	Dg	7	0	0	0	0
86	Dh	7	0	0	0	0
86	Dj	7	0	0	0	0
86	Do	7	0	0	2	0
87	A1	695	0	0	0	0
87	A2	171	0	0	0	0
87	A3	19	0	0	0	0
87	A4	34	0	0	0	0
87	A5	763	0	0	0	0
87	A6	239	0	0	0	0
87	A7	26	0	0	0	0
87	A8	20	0	0	0	0
87	AB	2	0	0	0	0
87	AC	1	0	0	0	0
87	AE	1	0	0	0	0
87	AI	2	0	0	0	0
87	AJ	1	0	0	0	0
87	AL	2	0	0	0	0
87	AN	1	0	0	0	0
87	AP	1	0	0	0	0
87	AS	2	0	0	0	0
87	AX	1	0	0	0	0
87	Aa	1	0	0	0	0
87	Ad	3	0	0	0	0
87	Af	1	0	0	0	0
87	BA	5	0	0	0	0
87	BB	4	0	0	0	0
87	BC	6	0	0	0	0
87	BD	1	0	0	0	0
87	BE	1	0	0	0	0
87	BF	2	0	0	0	0
87	BG	1	0	0	0	0
87	BI	4	0	0	0	0
87	BJ	1	0	0	0	0
87	BL	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	BN	6	0	0	0	0
87	BO	8	0	0	0	0
87	BP	10	0	0	0	0
87	BQ	4	0	0	0	0
87	BR	4	0	0	0	0
87	BS	2	0	0	0	0
87	BT	1	0	0	0	0
87	BV	5	0	0	0	0
87	BY	2	0	0	0	0
87	Ba	8	0	0	0	0
87	Bd	1	0	0	0	0
87	Be	2	0	0	0	0
87	Bf	1	0	0	0	0
87	Bg	1	0	0	0	0
87	Bj	7	0	0	0	0
87	Bl	1	0	0	0	0
87	Bm	1	0	0	0	0
87	Bo	3	0	0	0	0
87	CB	1	0	0	0	0
87	CE	1	0	0	0	0
87	CF	2	0	0	0	0
87	CG	2	0	0	0	0
87	CI	2	0	0	0	0
87	CL	3	0	0	0	0
87	CP	1	0	0	0	0
87	CQ	2	0	0	0	0
87	CS	2	0	0	0	0
87	CX	2	0	0	0	0
87	CY	2	0	0	0	0
87	CZ	1	0	0	0	0
87	Ca	1	0	0	0	0
87	Cd	1	0	0	0	0
87	Ch	2	0	0	0	0
87	DA	4	0	0	0	0
87	DB	13	0	0	0	0
87	DC	5	0	0	0	0
87	DD	7	0	0	0	0
87	DF	4	0	0	0	0
87	DG	1	0	0	0	0
87	DH	2	0	0	0	0
87	DJ	2	0	0	0	0
87	DL	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	DM	2	0	0	0	0
87	DN	1	0	0	0	0
87	DO	8	0	0	0	0
87	DP	7	0	0	0	0
87	DQ	1	0	0	0	0
87	DR	1	0	0	0	0
87	DS	4	0	0	0	0
87	DT	3	0	0	0	0
87	DV	3	0	0	0	0
87	DW	1	0	0	0	0
87	DY	2	0	0	0	0
87	Da	4	0	0	0	0
87	Db	1	0	0	0	0
87	Dd	1	0	0	0	0
87	De	2	0	0	0	0
87	Df	4	0	0	0	0
87	Dg	2	0	0	0	0
87	Dj	3	0	0	0	0
87	Dl	1	0	0	0	0
87	Dm	1	0	0	0	0
87	Dn	1	0	0	0	0
87	Do	1	0	0	0	0
87	Dp	3	0	0	0	0
87	Dq	1	0	0	0	0
88	Aa	1	0	0	0	0
88	Ab	1	0	0	0	0
88	Ad	1	0	0	0	0
88	Af	1	0	0	0	0
88	Bj	1	0	0	0	0
88	Bm	1	0	0	0	0
88	Bo	1	0	0	2	0
88	Bp	1	0	0	0	0
88	Ca	1	0	0	0	0
88	Cb	1	0	0	0	0
88	Cd	1	0	0	0	0
88	Cf	1	0	0	0	0
88	Dj	1	0	0	0	0
88	Dm	1	0	0	0	0
88	Do	1	0	0	1	0
88	Dp	1	0	0	0	0
89	CI	1	0	0	0	0
89	DB	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	416785	0	300420	11745	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

All (11745) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DQ:171:LYS:NZ	54:DQ:171:LYS:CE	1.67	1.52
48:DJ:8:PRO:CG	48:DJ:8:PRO:CB	1.75	1.50
1:A2:1686:C:H2'	1:A2:1687:U:H6	1.07	1.16
36:A1:1733:G:OP2	86:A1:3811:OHX:N6	1.84	1.10
80:A6:1636:C:H4'	80:A6:1637:C:H5'	1.34	1.09
36:A1:1481:A:O2'	36:A1:1858:A:N3	1.86	1.08
36:A5:3255:U:O4	86:A5:3813:OHX:N2	1.88	1.06
40:DB:296:THR:HG22	40:DB:298:PHE:H	1.18	1.06
36:A5:1345:G:N7	86:A5:3580:OHX:N5	2.03	1.05
47:DI:76:MET:HE1	47:DI:148:VAL:HA	1.38	1.05
33:Cf:86:UNK:O	33:Cf:87:UNK:HG3	1.56	1.05
40:DB:41:VAL:HA	40:DB:185:GLY:HA3	1.39	1.05
1:A2:1620:C:OP2	86:A2:2076:OHX:N6	1.90	1.04
40:BB:41:VAL:HA	40:BB:185:GLY:HA3	1.39	1.04
80:A6:1330:G:H21	19:CR:8:THR:HG21	1.24	1.03
80:A6:1492:A:HO2'	80:A6:1493:A:H8	1.06	1.03
36:A1:1949:G:OP1	55:BR:104:ARG:NH1	1.92	1.02
38:A4:135:G:OP2	61:BX:56:ARG:NH2	1.90	1.02
36:A1:31:C:OP2	51:BN:188:ARG:NH2	1.92	1.02
1:A2:1715:G:O6	1:A2:1716:C:N4	1.93	1.00
46:BH:91:ARG:HG3	46:BH:91:ARG:HH21	1.22	1.00
71:Bh:85:THR:HG22	71:Bh:88:LEU:H	1.27	0.99
36:A1:128:G:OP2	86:A1:3798:OHX:N2	1.94	0.99
1:A2:1686:C:H2'	1:A2:1687:U:C6	1.98	0.99
50:DM:19:ARG:HA	50:DM:69:THR:HG22	1.41	0.99
1:A2:701:U:H3	1:A2:737:A:H61	1.06	0.99
36:A5:556:U:OP2	86:A5:3732:OHX:N5	1.95	0.98
36:A5:437:G:H22	36:A5:622:A:H61	1.01	0.98
36:A1:3049:A:OP2	86:A1:3758:OHX:N1	1.95	0.98
9:AH:9:LEU:HD21	9:AH:17:GLU:HB3	1.43	0.98
36:A5:1073:U:H1'	65:Db:50:THR:HG22	1.44	0.98
36:A1:2620:G:O6	86:A1:3667:OHX:N5	1.97	0.97
11:AJ:60:LEU:HD21	11:AJ:93:LEU:HD21	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:437:G:N7	86:A5:3811:OHX:N3	2.13	0.97
36:A1:3182:G:OP1	52:BO:160[A]:ARG:NH2	1.97	0.97
7:AF:117:THR:HG21	7:AF:194:LEU:HD12	1.47	0.96
80:A6:991:G:OP2	86:A6:2033:OHX:N2	1.97	0.96
36:A5:555:U:O2'	86:A5:3732:OHX:N1	1.99	0.96
80:A6:484:C:H42	80:A6:503:G:H1	1.08	0.96
36:A5:2836:C:H5	36:A5:2852:C:H42	1.07	0.96
80:A6:647:G:N2	80:A6:687:G:H22	1.64	0.96
20:CS:145:ARG:HG3	81:Ch:68:ARG:HH22	1.30	0.96
36:A1:556:U:OP2	86:A1:3687:OHX:N4	1.99	0.96
36:A1:1464:G:OP2	86:A1:3806:OHX:N5	1.98	0.96
36:A5:31:C:OP2	51:DN:188:ARG:NH2	1.99	0.95
1:A2:1492:A:HO2'	1:A2:1493:A:H8	1.03	0.95
1:A2:1010:C:OP2	86:A2:2014:OHX:N6	1.99	0.95
80:A6:1306:C:OP1	86:A6:2071:OHX:N6	1.99	0.95
80:A6:1588:G:H1	80:A6:1608:U:H3	1.02	0.95
1:A2:1588:G:H1	1:A2:1608:U:H3	1.13	0.95
21:AT:57:ARG:HG3	21:AT:57:ARG:HH11	1.26	0.95
11:CJ:110:GLN:HE22	11:CJ:126:ARG:HG2	1.29	0.94
51:BN:110:ALA:HB1	51:BN:113:LEU:HD23	1.49	0.94
36:A5:652:G:OP2	86:A5:3695:OHX:N3	2.00	0.94
36:A5:1877:U:H5''	36:A5:1878:G:H5'	1.50	0.94
46:DH:166:ARG:HH21	46:DH:168:ARG:HH12	1.08	0.94
36:A1:1196:C:O2	86:A1:3538:OHX:N2	2.01	0.94
36:A1:1733:G:OP2	86:A1:3811:OHX:N4	2.01	0.94
1:A2:151:G:O6	26:AY:124:ARG:NH2	2.01	0.94
36:A5:3048:A:H5'	40:DB:53:MET:HE3	1.47	0.93
50:BM:113:THR:HG22	50:BM:116:GLU:H	1.32	0.93
36:A1:2535:A:H61	36:A1:2544:U:H3	1.06	0.93
86:A2:1918:OHX:N4	86:A2:2067:OHX:N6	2.16	0.93
33:Af:86:UNK:O	33:Af:87:UNK:HG3	1.69	0.93
1:A2:1585:U:H3	1:A2:1611:A:H2	0.96	0.93
36:A1:1818:U:H3'	36:A1:1819:U:H5''	1.50	0.93
36:A5:652:G:OP2	86:A5:3695:OHX:N4	2.02	0.93
36:A1:1564:U:H2'	36:A1:1565:G:H8	1.33	0.92
80:A6:448:C:OP2	6:CE:49:ARG:NH1	2.01	0.92
36:A1:3103:A:OP2	86:A1:3730:OHX:N1	2.02	0.92
6:CE:95:THR:HG23	6:CE:97:GLU:HG3	1.49	0.92
36:A5:2967:A:H5''	39:DA:213:GLY:HA3	1.50	0.92
1:A2:279:G:H3'	1:A2:280:U:H5''	1.50	0.92
36:A1:817:A:OP2	86:A1:3800:OHX:N1	2.02	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:97:LEU:HD13	3:AB:98:THR:H	1.34	0.92
47:BI:76:MET:HE1	47:BI:138:VAL:HG11	1.48	0.92
50:DM:55:ARG:NH2	50:DM:76:ALA:O	2.03	0.92
46:BH:49:ASN:O	46:BH:51:GLN:N	2.03	0.91
51:DN:31:ARG:NH1	51:DN:124:ASP:OD1	2.03	0.91
1:A2:732:G:O6	86:A2:2012:OHX:N5	2.03	0.91
86:A5:3720:OHX:N2	72:Di:28:TYR:O	2.02	0.91
80:A6:1010:C:OP2	86:A6:2033:OHX:N3	2.03	0.91
78:Bo:17:CYS:HG	88:Bo:205:ZN:ZN	0.63	0.91
80:A6:280:U:OP2	60:DW:113:LYS:NZ	2.04	0.91
36:A5:18:G:OP1	71:Dh:81:ARG:NH2	2.04	0.91
36:A1:1222:G:HO2'	36:A1:1285:G:H1	1.16	0.91
1:A2:912:U:H4'	1:A2:913:G:H3'	1.52	0.91
47:BI:220:GLN:O	86:BI:304:OHX:N1	2.04	0.91
36:A5:1541:G:OP2	86:A5:3606:OHX:N4	2.04	0.91
1:A2:475:A:OP2	11:AJ:126:ARG:NH1	2.03	0.91
3:AB:129:THR:HB	3:AB:180:THR:HA	1.51	0.91
1:A2:839:U:O4	86:A2:2074:OHX:N3	2.03	0.90
86:A2:1918:OHX:N2	86:A2:2067:OHX:N6	2.19	0.90
36:A1:640:U:OP1	64:Ba:21:ARG:NH2	2.04	0.90
36:A1:1233:G:H1	36:A1:1255:C:H42	1.15	0.90
36:A1:3129:A:OP2	86:A1:3802:OHX:N4	2.01	0.90
36:A1:3182:G:OP1	52:BO:160[B]:ARG:NH2	2.03	0.90
16:CO:50:ALA:O	16:CO:52:ARG:N	2.04	0.90
17:CP:138:PHE:O	86:CP:202:OHX:N6	2.05	0.90
51:DN:8:GLU:HG3	51:DN:50:ARG:HH12	1.35	0.90
36:A5:2818:U:H5'	36:A5:2818:U:H6	1.37	0.90
36:A1:440:A:OP1	36:A1:494:G:H1'	1.72	0.90
6:CE:125:LYS:H	6:CE:142:HIS:HD2	1.14	0.90
36:A5:1639:C:OP2	70:Dg:74:ARG:NH2	2.04	0.90
1:A2:1716:C:HO2'	1:A2:1717:G:H8	0.91	0.90
36:A1:1581:C:H2'	36:A1:1582:C:H5''	1.54	0.90
1:A2:1715:G:C6	1:A2:1716:C:C4	2.60	0.90
36:A1:544:C:O2	36:A1:548:G:N1	2.04	0.90
1:A2:1653:C:OP2	86:A2:1966:OHX:N4	2.05	0.90
16:AO:85:ALA:H	16:AO:119:THR:HG22	1.36	0.90
1:A2:623:A:OP1	86:A2:2055:OHX:N1	2.04	0.89
21:CT:57:ARG:HH11	21:CT:57:ARG:HG3	1.34	0.89
36:A5:3214:U:OP2	50:DM:128:ARG:NH2	2.04	0.89
48:DJ:94:ARG:O	48:DJ:96:PHE:N	2.04	0.89
36:A1:1362:G:H4'	44:BF:159:GLN:O	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1291:G:H5'	4:AC:119:LYS:HE2	1.52	0.89
77:Bn:9:ARG:HH11	77:Bn:9:ARG:HG3	1.36	0.89
80:A6:824:G:N7	86:A6:2100:OHX:N6	2.21	0.89
51:BN:37:HIS:HE1	51:BN:63:ARG:HH11	1.17	0.89
36:A5:1330:A:OP1	69:Df:19:SER:HB3	1.71	0.89
36:A5:3048:A:C5'	40:DB:53:MET:HE3	2.03	0.89
47:BI:221:ALA:O	86:BI:304:OHX:N2	2.06	0.89
36:A5:3182:G:OP1	52:DO:160[A]:ARG:NH2	2.06	0.89
36:A5:1759:C:N4	36:A5:1766:G:O6	2.07	0.88
43:DE:31:ARG:NH1	69:Df:107:ILE:HG22	1.88	0.88
42:BD:40:HIS:HD2	42:BD:42:ALA:H	1.20	0.88
36:A5:2233:A:OP2	86:A5:3476:OHX:N5	2.06	0.88
51:DN:146:ALA:O	51:DN:148:TYR:N	2.05	0.88
41:BC:300:ARG:O	54:BQ:39:ARG:NH1	2.07	0.88
80:A6:123:G:H21	6:CE:146:THR:HG21	1.38	0.88
57:DT:135:PRO:O	57:DT:136:ARG:HB2	1.73	0.88
78:Do:48:SER:O	86:Do:201:OHX:N3	2.07	0.88
3:AB:32:ILE:HD11	3:AB:46:THR:HG23	1.55	0.88
15:CN:114:ARG:HG2	15:CN:114:ARG:HH11	1.38	0.88
72:Di:63:ASN:O	72:Di:65:GLY:N	2.06	0.88
78:Do:77:CYS:SG	78:Do:79:THR:HG23	2.14	0.88
18:AQ:58:ASP:O	18:AQ:60:PHE:N	2.07	0.88
80:A6:151:G:H22	80:A6:163:G:N2	1.72	0.88
1:A2:651:G:N7	86:A2:1983:OHX:N6	2.21	0.87
1:A2:991:G:OP2	86:A2:2014:OHX:N1	2.07	0.87
11:AJ:110:GLN:HE22	11:AJ:126:ARG:HG2	1.39	0.87
36:A1:2208:A:N1	86:A1:3590:OHX:N2	2.23	0.87
36:A5:3343:G:H21	36:A5:3362:A:H2	1.17	0.87
1:A2:679:U:OP2	86:A2:2082:OHX:N1	2.08	0.87
36:A5:2512:C:H6	36:A5:2512:C:H5'	1.38	0.87
36:A1:2503:G:H1'	36:A1:2504:U:H5	1.39	0.87
36:A1:2836:C:H5	36:A1:2852:C:H42	1.17	0.87
69:Bf:60:ARG:HB3	69:Bf:60:ARG:HH21	1.39	0.87
36:A5:640:U:OP1	64:Da:21:ARG:NH2	2.07	0.87
36:A1:1639:C:OP2	70:Bg:74:ARG:NH2	2.07	0.87
36:A5:1235:U:H4'	36:A5:1236:G:H5'	1.53	0.87
36:A5:2522:G:O6	39:DA:70:ARG:NH2	2.08	0.87
19:AR:25:THR:O	19:AR:27:ASP:N	2.07	0.87
36:A1:1299:U:OP2	86:A1:3777:OHX:N2	2.08	0.87
36:A1:3118:C:H4'	76:Bm:106:ARG:HH22	1.39	0.87
36:A5:437:G:O6	86:A5:3811:OHX:N5	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2123:G:N7	86:A5:3613:OHX:N1	2.24	0.86
65:Db:23:LYS:HB3	65:Db:24:PRO:HD3	1.57	0.86
1:A2:523:G:OP2	26:AY:37:LYS:NZ	2.08	0.86
36:A1:2392:C:O2'	40:BB:266:ARG:NH2	2.07	0.86
36:A1:1951:C:H42	36:A1:2095:G:H1	1.21	0.86
41:BC:145:ILE:O	86:BC:401:OHX:N5	2.08	0.86
8:CG:20:ASP:HB3	8:CG:23:ARG:HG3	1.54	0.86
1:A2:142:G:H22	1:A2:173:A:H2	1.23	0.86
36:A1:555:U:O2'	86:A1:3687:OHX:N2	2.08	0.86
80:A6:475:A:OP2	11:CJ:126:ARG:NH1	2.08	0.86
36:A5:3231:U:O4	86:A5:3813:OHX:N6	2.09	0.86
20:AS:120:ARG:NH2	35:Ah:58:GLU:OE1	2.08	0.86
80:A6:1227:A:O2'	80:A6:1228:G:OP2	1.92	0.86
1:A2:301:A:OP2	86:A2:1942:OHX:N2	2.08	0.86
1:A2:1680:G:O6	86:A2:1990:OHX:N5	2.09	0.86
12:AK:27:PHE:HB3	12:AK:40:LEU:HD23	1.58	0.86
4:AC:140:ARG:NH1	23:AV:1:MET:SD	2.49	0.86
8:AG:57:ASP:HA	8:AG:106:LEU:HA	1.58	0.86
36:A1:517:G:H8	36:A1:517:G:H5''	1.40	0.86
56:BS:77:VAL:HG11	56:BS:106:LEU:HD12	1.58	0.86
80:A6:1506:G:N7	86:A6:2086:OHX:N1	2.24	0.86
1:A2:1202:A:OP1	86:A2:1992:OHX:N1	2.09	0.86
36:A1:978:G:O2'	36:A1:979:U:O2	1.94	0.86
36:A1:3272:C:OP2	43:BE:78:ARG:NH1	2.08	0.86
80:A6:895:G:H21	16:CO:38:THR:HG21	1.39	0.86
47:DI:175:ASN:OD1	47:DI:176:LEU:N	2.08	0.86
36:A5:299:G:N7	86:A5:3720:OHX:N1	2.23	0.85
10:CI:34:ALA:HB2	10:CI:56:ARG:HD3	1.56	0.85
36:A5:726:G:H5'	36:A5:726:G:H8	1.41	0.85
36:A1:1654:A:H2'	36:A1:1655:G:H5''	1.56	0.85
47:BI:14:ASN:O	47:BI:128:ARG:NH2	2.10	0.85
1:A2:1529:C:OP1	7:AF:112:ARG:NH1	2.10	0.85
36:A1:128:G:N7	86:A1:3798:OHX:N5	2.25	0.85
36:A1:394:G:O6	86:A1:3574:OHX:N5	2.09	0.85
38:A4:95:G:OP2	73:Bj:72:ARG:NH1	2.07	0.85
29:Ab:29:ARG:HH11	29:Ab:29:ARG:HG3	1.41	0.85
36:A1:1759:C:N4	36:A1:1766:G:O6	2.09	0.85
32:Ce:53:LYS:HD3	32:Ce:55:ARG:HD3	1.59	0.85
1:A2:132:U:H1'	1:A2:133:U:OP2	1.77	0.85
36:A1:3214:U:OP2	50:BM:128:ARG:NH2	2.10	0.85
78:Do:77:CYS:O	78:Do:79:THR:N	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:1370:U:H4'	80:A6:1371:A:H4'	1.58	0.85
36:A1:1655:G:H5'	36:A1:1655:G:H8	1.42	0.85
36:A1:2533:G:N7	86:A1:3751:OHX:N1	2.25	0.85
36:A5:2181:C:OP1	39:DA:193:ARG:NH2	2.10	0.85
80:A6:230:C:H42	80:A6:235:G:H1	1.20	0.84
80:A6:1521:G:O6	21:CT:68:ARG:NH1	2.10	0.84
1:A2:320:U:H2'	1:A2:321:C:H2'	1.58	0.84
25:AX:79:ASN:HB3	25:AX:81:LYS:H	1.40	0.84
80:A6:1552:U:OP2	17:CP:43:ARG:NH2	2.09	0.84
47:DI:84:ALA:O	47:DI:140:THR:HG22	1.77	0.84
7:CF:222:LYS:HA	7:CF:225:ARG:HH11	1.41	0.84
36:A5:1555:U:O4	36:A5:1557:A:N6	2.08	0.84
52:BO:12[A]:LYS:O	56:BS:167:ARG:NH2	2.11	0.84
2:AA:24:LEU:O	2:AA:163:ASN:ND2	2.09	0.84
7:AF:73:THR:HG23	18:AQ:114:ARG:HD3	1.58	0.84
1:A2:1353:U:O4	86:A2:2028:OHX:N3	2.11	0.84
80:A6:485:A:N6	80:A6:502:U:O4	2.10	0.84
1:A2:1291:G:N2	1:A2:1324:G:H22	1.76	0.84
1:A2:1429:G:H1'	22:AU:74:GLU:HG2	1.59	0.84
2:AA:49:ASN:HB3	2:AA:52:LYS:HG3	1.56	0.84
36:A1:368:G:OP1	86:A1:3426:OHX:N5	2.11	0.84
81:Ch:26:VAL:HG11	48:DJ:49:LYS:HE3	1.58	0.84
1:A2:1508:U:O4	86:A2:1909:OHX:N5	2.11	0.83
36:A1:1815:U:O2'	36:A1:1816:A:OP2	1.94	0.83
6:AE:139:VAL:HG13	6:AE:150:PRO:HG3	1.58	0.83
36:A1:2255:A:H5'	36:A1:2261:G:H22	1.42	0.83
80:A6:1180:C:OP2	86:CP:202:OHX:N5	2.11	0.83
79:Dp:73:THR:HG22	79:Dp:76:ALA:H	1.43	0.83
17:AP:126:VAL:HG13	17:AP:127:ARG:H	1.41	0.83
36:A1:3377:G:O6	86:A1:3582:OHX:N2	2.10	0.83
36:A5:1232:C:O2'	83:Dq:36:GLN:NE2	2.11	0.83
80:A6:1597:A:OP1	31:Cd:19:ARG:NH2	2.12	0.83
33:Cf:91:UNK:HG3	33:Cf:92:UNK:HG3	1.61	0.83
11:AJ:93:LEU:HA	11:AJ:96:VAL:HG13	1.59	0.83
36:A1:2310:U:OP1	86:A1:3697:OHX:N2	2.12	0.83
36:A1:2532:U:O4	36:A1:2547:A:N6	2.12	0.83
37:A3:44:C:OP2	48:BJ:137:ARG:NH2	2.12	0.83
49:BL:165:SER:O	49:BL:167:PHE:N	2.10	0.83
80:A6:1726:G:N7	86:A6:2002:OHX:N5	2.26	0.83
42:DD:95:TRP:CH2	42:DD:181:PRO:HD3	2.13	0.83
1:A2:1542:G:N2	1:A2:1569:A:OP2	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:883:A:H5'	53:BP:133:HIS:HA	1.61	0.82
80:A6:681:U:H4'	80:A6:682:C:OP1	1.77	0.82
80:A6:1098:U:OP2	4:CC:168:ARG:NE	2.12	0.82
17:CP:18:ARG:HD3	20:CS:90:ASN:HD21	1.44	0.82
36:A1:2794:G:N7	86:A1:3477:OHX:N2	2.27	0.82
36:A5:172:G:N7	86:A5:3812:OHX:N1	2.27	0.82
36:A5:3278:C:O2'	36:A5:3279:A:OP2	1.95	0.82
1:A2:1041:G:OP1	86:A2:2040:OHX:N5	2.12	0.82
5:AD:108:LYS:HG2	5:AD:113:LEU:HD12	1.61	0.82
36:A5:3232:G:O6	86:A5:3813:OHX:N4	2.13	0.82
3:AB:111:ARG:HG3	28:Aa:68:TYR:HB2	1.59	0.82
53:BP:25:SER:O	53:BP:29:THR:HG23	1.79	0.82
47:BI:76:MET:HE3	47:BI:148:VAL:HA	1.61	0.82
1:A2:1686:C:C2'	1:A2:1687:U:H6	1.91	0.82
80:A6:1385:G:N7	86:A6:1977:OHX:N6	2.27	0.82
19:CR:27:ASP:O	19:CR:31:ASN:ND2	2.13	0.82
40:DB:76:VAL:HG11	40:DB:323:MET:HE3	1.59	0.82
36:A1:3317:U:H4'	36:A1:3318:G:O5'	1.78	0.82
40:BB:171:LEU:O	86:BB:401:OHX:N6	2.12	0.82
36:A5:235:A:OP2	86:A5:3780:OHX:N2	2.13	0.82
36:A5:851:C:H6	36:A5:851:C:H5''	1.44	0.82
36:A5:2620:G:O6	86:A5:3644:OHX:N4	2.13	0.82
36:A5:1639:C:H5'	70:Dg:52:GLN:HG2	1.62	0.82
36:A5:364:G:OP1	41:DC:60:THR:HG23	1.78	0.82
36:A5:1231:A:H5''	36:A5:1232:C:H5'	1.61	0.82
36:A1:317:A:OP2	72:Bi:30:LYS:NZ	2.13	0.81
68:Be:91:THR:HG22	68:Be:92:TYR:HD2	1.45	0.81
2:CA:163:ASN:O	2:CA:165:ARG:N	2.13	0.81
39:DA:172:GLY:HA3	79:Dp:68:ALA:H	1.44	0.81
40:DB:169:THR:HG22	40:DB:171:LEU:H	1.45	0.81
11:AJ:109:LEU:HB2	11:AJ:146:PHE:HB3	1.62	0.81
16:AO:107:ARG:HH21	16:AO:107:ARG:HG3	1.45	0.81
22:AU:27:THR:HG23	22:AU:113:ASP:HB3	1.62	0.81
36:A5:2963:C:OP1	86:A5:3775:OHX:N1	2.13	0.81
41:DC:204:GLY:O	41:DC:246:ARG:NH1	2.13	0.81
36:A1:687:U:OP2	49:BL:36:ARG:NH2	2.13	0.81
8:CG:73:ILE:HD12	8:CG:75:LEU:HD21	1.62	0.81
36:A5:320:G:N7	86:A5:3807:OHX:N4	2.28	0.81
53:DP:25:SER:O	53:DP:29:THR:HG23	1.80	0.81
37:A3:10:C:OP2	57:BT:26:HIS:HD2	1.62	0.81
1:A2:1229:G:O2'	1:A2:1255:G:N2	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:383:G:N7	86:A6:2004:OHX:N5	2.27	0.81
36:A5:1815:U:O2'	36:A5:1816:A:OP2	1.98	0.81
41:DC:300:ARG:O	54:DQ:39:ARG:NH1	2.13	0.81
7:AF:37:GLN:HG2	18:AQ:53:LEU:HD13	1.60	0.81
86:A5:3457:OHX:N1	86:A5:3795:OHX:N3	2.28	0.81
1:A2:919:A:H5'	16:AO:18:ARG:HH12	1.45	0.81
36:A1:837:A:OP2	79:Bp:4:ARG:NH1	2.14	0.81
30:Cc:13:ILE:HB	30:Cc:29:ARG:HG2	1.63	0.81
36:A1:2960:C:OP1	86:A1:3547:OHX:N4	2.13	0.81
36:A5:1015:U:O2'	36:A5:1017:C:OP1	1.99	0.81
36:A5:1395:G:OP1	86:A5:3662:OHX:N4	2.14	0.81
61:DX:115:ARG:NH1	61:DX:119:THR:OG1	2.14	0.81
20:AS:145:ARG:HB3	35:Ah:68:ARG:NH2	1.96	0.81
36:A1:3049:A:H5'	36:A1:3049:A:H8	1.46	0.81
6:CE:9:LEU:HB2	6:CE:30:ARG:HB2	1.63	0.81
36:A5:1804:A:H2'	36:A5:1805:C:C6	2.16	0.81
1:A2:339:C:OP2	10:AI:10:LYS:NZ	2.14	0.80
79:Bp:8:VAL:HB	79:Bp:11:THR:HG22	1.63	0.80
1:A2:829:A:O2'	1:A2:830:U:OP2	1.97	0.80
36:A1:1308:A:C8	36:A1:1308:A:OP2	2.33	0.80
38:A4:150:G:N7	86:A4:205:OHX:N4	2.28	0.80
45:BG:144:GLU:OE1	72:Bi:36:ARG:NH2	2.14	0.80
80:A6:895:G:H1	80:A6:917:U:H3	1.30	0.80
10:CI:36:THR:HG21	10:CI:173:PRO:HB2	1.63	0.80
11:CJ:59:LEU:HD22	11:CJ:69:ARG:HA	1.62	0.80
36:A1:1315:U:OP2	52:BO:44[B]:SER:OG	1.99	0.80
36:A1:2818:U:H6	36:A1:2818:U:H5'	1.47	0.80
36:A1:3242:G:N7	40:BB:150:ARG:HD2	1.95	0.80
2:CA:22:THR:O	2:CA:24:LEU:N	2.14	0.80
36:A5:1348:U:OP2	54:DQ:38:ARG:NH2	2.13	0.80
1:A2:1321:A:OP2	2:AA:101:ARG:NH2	2.14	0.80
16:AO:50:ALA:O	16:AO:52:ARG:N	2.14	0.80
36:A1:768:C:OP1	49:BL:186:ARG:NH2	2.14	0.80
41:BC:16:THR:HG22	41:BC:18:ASN:H	1.45	0.80
36:A5:1025:A:H3'	36:A5:1026:A:H4'	1.60	0.80
36:A1:563:U:OP1	56:BS:71:LYS:NZ	2.12	0.80
36:A1:899:U:O4	86:A1:3742:OHX:N1	2.14	0.80
36:A1:2123:G:N7	86:A1:3655:OHX:N2	2.30	0.80
17:CP:44:ARG:NH2	17:CP:82:ASN:O	2.14	0.80
36:A5:249:U:O4	86:A5:3753:OHX:N1	2.14	0.80
36:A5:2810:C:OP1	86:A5:3593:OHX:N3	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:179:ARG:HD3	2:AA:183:ARG:HH11	1.46	0.80
80:A6:1202:A:OP1	86:A6:1985:OHX:N2	2.14	0.80
7:CF:163:SER:HB2	30:Cc:48:VAL:HG22	1.63	0.80
46:DH:28:VAL:HG22	46:DH:33:THR:HB	1.64	0.80
47:BI:140:THR:HG21	47:BI:144:ASN:HD22	1.45	0.80
36:A5:170:G:O6	86:A5:3753:OHX:N1	2.14	0.80
36:A1:3375:A:O2'	36:A1:3378:C:OP2	2.00	0.80
86:A1:3439:OHX:N4	86:A1:3802:OHX:N2	2.28	0.80
25:CX:79:ASN:HB2	25:CX:81:LYS:H	1.46	0.80
36:A5:766:U:H4'	36:A5:767:U:O5'	1.81	0.80
9:AH:131:PHE:O	9:AH:133:THR:N	2.14	0.80
36:A1:3312:U:O4	86:A1:3775:OHX:N6	2.15	0.80
53:BP:62:ARG:O	86:BP:201:OHX:N1	2.15	0.80
80:A6:235:G:H2'	80:A6:236:A:H8	1.47	0.80
80:A6:902:G:N1	16:CO:51:ASP:OD1	2.12	0.80
33:Cf:86:UNK:O	33:Cf:87:UNK:CG	2.30	0.80
36:A1:2443:A:N6	36:A1:2504:U:O4	2.15	0.80
47:BI:221:ALA:O	86:BI:304:OHX:N4	2.15	0.80
80:A6:742:U:OP2	86:A6:2051:OHX:N5	2.15	0.80
36:A5:1696:A:OP2	86:A5:3714:OHX:N6	2.15	0.80
82:DK:120:UNK:O	82:DK:122:UNK:N	2.15	0.80
1:A2:79:C:H1'	8:AG:174:LYS:HD3	1.62	0.79
14:AM:125:ASN:HD21	35:Ah:168:UNK:HA	1.46	0.79
35:Ah:34:LYS:NZ	36:A1:2707:C:OP1	2.14	0.79
36:A1:1215:U:H2'	36:A1:1216:C:H5''	1.64	0.79
41:DC:329:PRO:O	41:DC:331:ALA:N	2.14	0.79
60:DW:46:PRO:HB2	60:DW:54:LEU:HD23	1.65	0.79
1:A2:136:C:H4'	1:A2:137:U:OP1	1.83	0.79
36:A5:2440:G:H5'	36:A5:2440:G:H8	1.46	0.79
42:DD:120:LYS:O	42:DD:248:ARG:NH2	2.15	0.79
1:A2:1064:G:O6	86:A2:2080:OHX:N6	2.15	0.79
13:AL:99:ARG:NH1	25:AX:7:ARG:O	2.14	0.79
36:A1:1862:U:OP2	86:A1:3805:OHX:N1	2.15	0.79
40:BB:239:PRO:O	40:BB:242:THR:HG23	1.83	0.79
69:Bf:75:HIS:HB3	69:Bf:80:VAL:HG12	1.64	0.79
36:A5:409:A:OP2	86:A5:3616:OHX:N3	2.16	0.79
48:DJ:11:ASP:O	48:DJ:12:LEU:HB2	1.81	0.79
36:A1:249:U:O2	36:A1:250:U:N3	2.13	0.79
36:A1:2777:G:H8	36:A1:2777:G:H3'	1.47	0.79
36:A1:3195:U:OP1	86:A1:3788:OHX:N5	2.15	0.79
50:BM:55:ARG:NH2	50:BM:76:ALA:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BR:23:TRP:CH2	55:BR:25:ASP:HB3	2.17	0.79
76:Dm:106:ARG:HB2	76:Dm:106:ARG:HH11	1.46	0.79
20:AS:69:ILE:HG22	20:AS:73:MET:HE2	1.63	0.79
82:DK:126:UNK:O	82:DK:130:UNK:N	2.16	0.79
75:Dl:23:LEU:HD22	75:Dl:24:PRO:HD2	1.64	0.79
1:A2:734:A:H5''	1:A2:735:C:OP1	1.83	0.79
1:A2:839:U:O4	86:A2:2074:OHX:N4	2.16	0.79
1:A2:1686:C:C2'	1:A2:1687:U:O5'	2.30	0.79
36:A1:776:U:H5	36:A1:2719:U:O2	1.65	0.79
51:BN:37:HIS:CE1	51:BN:63:ARG:HH11	2.00	0.79
66:Bc:63:SER:OG	66:Bc:65:THR:OG1	2.00	0.79
80:A6:1681:A:H2	80:A6:1720:G:H21	1.31	0.79
6:CE:125:LYS:H	6:CE:142:HIS:CD2	2.00	0.79
8:CG:98:ARG:NH2	8:CG:101:ILE:O	2.14	0.79
36:A5:776:U:H5	36:A5:2719:U:O2	1.64	0.79
4:AC:56:ILE:HG23	4:AC:61:LEU:HB2	1.63	0.79
21:CT:37:VAL:HG11	21:CT:100:ILE:HD11	1.64	0.79
86:A5:3457:OHX:N1	86:A5:3795:OHX:N4	2.29	0.79
37:A7:9:C:OP1	57:DT:28:SER:OG	2.00	0.79
1:A2:187:G:H4'	1:A2:188:A:OP1	1.83	0.79
3:AB:39:GLU:HG3	3:AB:40:ASN:H	1.47	0.79
7:AF:62:VAL:HG13	7:AF:89:ILE:HG21	1.64	0.79
36:A1:2723:U:O4	86:A1:3750:OHX:N4	2.15	0.79
69:Bf:60:ARG:HB3	69:Bf:60:ARG:NH2	1.97	0.79
80:A6:75:U:O2'	80:A6:76:A:O5'	2.01	0.79
36:A5:2255:A:H5'	36:A5:2261:G:H22	1.47	0.79
1:A2:1681:A:H2'	1:A2:1682:U:H5'	1.65	0.79
36:A1:2356:A:H61	36:A1:2983:C:H5	1.29	0.79
48:BJ:53:THR:HG23	48:BJ:60:ARG:HA	1.64	0.78
68:Be:81:ASP:O	68:Be:84:THR:HG23	1.81	0.78
75:Bl:5:LYS:HD3	75:Bl:13:MET:HE1	1.63	0.78
22:CU:27:THR:HB	22:CU:88:LYS:HG2	1.66	0.78
36:A5:3186:A:N3	46:DH:44:THR:HG22	1.98	0.78
41:DC:144:LYS:O	86:DC:401:OHX:N1	2.17	0.78
19:AR:88:VAL:HG22	19:AR:89:SER:H	1.47	0.78
37:A3:49:G:N7	42:BD:58:LYS:HG3	1.97	0.78
41:BC:354:VAL:O	41:BC:358:THR:HG23	1.83	0.78
52:DO:110[B]:PRO:O	52:DO:112[B]:TYR:N	2.15	0.78
1:A2:1686:C:C2	1:A2:1687:U:C6	2.72	0.78
36:A1:439:C:H3'	36:A1:440:A:O4'	1.83	0.78
36:A1:2563:G:H5''	45:BG:27:THR:HG23	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2867:C:H6	36:A1:2867:C:H5'	1.48	0.78
28:Ca:26:CYS:SG	28:Ca:77:CYS:SG	2.81	0.78
46:DH:20:ILE:HD13	46:DH:25:VAL:HG22	1.65	0.78
1:A2:868:G:OP1	15:AN:121:ARG:NH1	2.15	0.78
1:A2:1291:G:O5'	1:A2:1291:G:H8	1.67	0.78
1:A2:1686:C:H2'	1:A2:1687:U:O5'	1.84	0.78
51:BN:38:ARG:HH11	51:BN:38:ARG:HG3	1.48	0.78
54:BQ:158:HIS:H	54:BQ:186:VAL:HG12	1.47	0.78
80:A6:563:U:H4'	32:Ce:17:GLN:NE2	1.98	0.78
1:A2:280:U:O2'	1:A2:281:G:OP2	1.99	0.78
1:A2:1369:U:OP1	21:AT:119:LYS:NZ	2.17	0.78
24:AW:27:ILE:HD11	24:AW:61:ILE:HD12	1.65	0.78
36:A1:2895:G:H2'	36:A1:2896:A:H5''	1.63	0.78
36:A5:2227:C:H2'	36:A5:2228:A:H5''	1.66	0.78
36:A1:547:G:O2'	36:A1:548:G:O4'	2.01	0.78
36:A1:2513:U:H2'	36:A1:2592:G:H1	1.49	0.78
36:A5:2444:C:H42	36:A5:2503:G:H1	1.31	0.78
86:A5:3521:OHX:N6	86:A5:3809:OHX:N5	2.30	0.78
15:AN:114:ARG:HG2	15:AN:114:ARG:HH11	1.48	0.78
17:AP:69:GLU:OE1	86:AP:201:OHX:N2	2.17	0.78
38:A4:107:G:OP2	86:A4:211:OHX:N2	2.17	0.78
44:BF:88:ARG:HD2	44:BF:90:LYS:O	1.84	0.78
62:BY:36:SER:HB2	62:BY:37:LYS:HE2	1.63	0.78
80:A6:770:A:OP2	86:A6:1993:OHX:N3	2.16	0.78
36:A5:177:U:OP2	86:A5:3532:OHX:N6	2.15	0.78
40:DB:37:ARG:HG2	40:DB:187:SER:H	1.49	0.78
43:DE:31:ARG:HH11	69:Df:107:ILE:HG22	1.47	0.78
36:A5:1952:G:H1	36:A5:2094:C:H42	1.32	0.78
36:A1:3138:U:H2'	36:A1:3139:A:H5''	1.66	0.78
86:A7:203:OHX:N3	86:A7:211:OHX:N6	2.32	0.78
56:BS:155:ARG:NH2	56:BS:171:PHE:O	2.17	0.78
36:A5:437:G:H22	36:A5:622:A:N6	1.81	0.78
36:A5:2724:U:O4	86:A5:3680:OHX:N5	2.17	0.78
1:A2:276:C:O2'	1:A2:277:U:H5''	1.84	0.77
36:A1:155:G:H1'	72:Bi:26:ILE:HD13	1.66	0.77
36:A1:3279:A:H8	36:A1:3279:A:H5'	1.49	0.77
36:A1:3353:G:O2'	36:A1:3354:U:OP1	2.02	0.77
38:A4:77:A:OP2	86:A4:204:OHX:N2	2.15	0.77
80:A6:1559:A:H5''	20:CS:135:GLY:HA3	1.66	0.77
80:A6:1579:U:OP1	86:A6:2053:OHX:N4	2.17	0.77
6:CE:104:ASP:HB3	6:CE:106:LYS:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:15:C:H6	36:A5:15:C:H5'	1.49	0.77
36:A5:2877:G:N7	86:A5:3657:OHX:N1	2.31	0.77
1:A2:838:G:N7	86:A2:2074:OHX:N2	2.32	0.77
36:A1:2777:G:H5''	36:A1:2778:G:OP1	1.83	0.77
80:A6:815:G:H5'	80:A6:815:G:H8	1.49	0.77
7:CF:92:ARG:HG2	7:CF:92:ARG:HH11	1.47	0.77
37:A7:1:G:N3	42:DD:269:SER:OG	2.16	0.77
48:DJ:109:HIS:HD2	48:DJ:123:PHE:H	1.32	0.77
54:DQ:178:ARG:HD3	64:Da:50:PRO:HB2	1.66	0.77
3:AB:62:LYS:O	3:AB:64:ARG:N	2.18	0.77
36:A1:1233:G:O6	86:A1:3654:OHX:N6	2.17	0.77
80:A6:469:C:H2'	80:A6:470:A:H5''	1.67	0.77
80:A6:513:U:OP1	11:CJ:133:HIS:NE2	2.17	0.77
80:A6:1680:G:O6	86:A6:2070:OHX:N1	2.17	0.77
7:CF:124:LEU:HD11	27:CZ:59:TYR:HB2	1.64	0.77
17:CP:138:PHE:O	86:CP:202:OHX:N2	2.17	0.77
36:A5:437:G:N2	36:A5:622:A:H61	1.80	0.77
30:Ac:12:VAL:HG22	30:Ac:28:VAL:HG11	1.66	0.77
68:Be:91:THR:HG22	68:Be:92:TYR:CD2	2.19	0.77
78:Bo:77:CYS:SG	78:Bo:79:THR:HG23	2.24	0.77
44:DF:158:LYS:HD2	44:DF:159:GLN:HA	1.66	0.77
1:A2:40:A:OP1	11:AJ:3:ARG:NH1	2.18	0.77
20:AS:83:ALA:HA	20:AS:86:LEU:HD22	1.65	0.77
36:A5:1861:G:O6	86:A5:3567:OHX:N5	2.17	0.77
86:A5:3470:OHX:N6	86:A5:3807:OHX:N2	2.33	0.77
86:A5:3518:OHX:N2	86:A5:3803:OHX:N6	2.31	0.77
1:A2:452:A:OP2	86:A2:1916:OHX:N5	2.18	0.77
19:AR:63:LYS:HE2	34:Ag:284:ALA:HB2	1.64	0.77
80:A6:397:A:O3'	10:CI:50:GLY:HA2	1.84	0.77
36:A5:170:G:O6	86:A5:3753:OHX:N5	2.18	0.77
44:DF:216:VAL:HG11	44:DF:227:GLY:HA3	1.67	0.77
46:DH:77:ASN:HA	46:DH:80:THR:HG23	1.66	0.77
1:A2:1716:C:O2'	1:A2:1717:G:H8	1.67	0.77
3:AB:181:LEU:O	3:AB:184:LEU:N	2.18	0.77
20:CS:91:ASP:HB3	20:CS:95:GLY:H	1.50	0.77
22:CU:53:LYS:HB2	22:CU:92:ASP:HB2	1.65	0.77
24:AW:30:SER:HA	24:AW:34:ILE:HD12	1.67	0.77
36:A1:239:G:O2'	36:A1:240:U:OP1	2.00	0.77
36:A1:544:C:H1'	36:A1:548:G:H22	1.49	0.77
86:A1:3439:OHX:N6	86:A1:3802:OHX:N2	2.32	0.77
3:CB:144:ARG:NH2	3:CB:207:LEU:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:161:LYS:HG3	4:CC:166:THR:HG22	1.67	0.77
28:Ca:10:ARG:HB2	28:Ca:34:LYS:HA	1.66	0.77
36:A1:637:C:O2'	36:A1:638:C:O5'	2.02	0.77
36:A5:2997:G:N7	86:A5:3712:OHX:N4	2.32	0.77
1:A2:1370:U:O4	86:A2:2002:OHX:N1	2.17	0.77
9:AH:35:LYS:O	9:AH:37:GLU:N	2.18	0.77
36:A1:3139:A:H5'	36:A1:3139:A:H8	1.50	0.77
63:BZ:5:LEU:HD11	66:Bc:35:ARG:HD2	1.67	0.77
79:Bp:46:THR:HB	79:Bp:58:SER:HB2	1.67	0.77
80:A6:822:U:H2'	80:A6:823:G:H5''	1.67	0.77
5:CD:68:GLU:OE2	12:CK:67:THR:OG1	2.02	0.77
34:Cg:260:ILE:HB	34:Cg:274:LEU:HD12	1.65	0.77
36:A5:2093:A:H61	55:DR:114:LYS:HD3	1.50	0.77
38:A8:135:G:OP2	61:DX:56:ARG:NH2	2.18	0.77
39:DA:114:SER:HB2	39:DA:169:ILE:HD12	1.67	0.77
42:DD:40:HIS:HD2	42:DD:42:ALA:H	1.32	0.77
49:BL:3:ILE:HG12	64:Ba:34:MET:HE2	1.67	0.76
80:A6:104:A:H61	80:A6:308:C:H5''	1.47	0.76
41:DC:145:ILE:O	86:DC:401:OHX:N4	2.18	0.76
55:BR:105:LEU:HD12	55:BR:135:LYS:HD2	1.65	0.76
36:A5:1098:A:OP2	57:DT:130:ARG:HD3	1.85	0.76
36:A5:3254:G:O6	86:A5:3813:OHX:N4	2.17	0.76
86:A5:3457:OHX:N2	86:A5:3795:OHX:N4	2.33	0.76
18:AQ:40:GLU:HA	18:AQ:42:GLU:N	2.01	0.76
36:A1:1348:U:OP2	54:BQ:38:ARG:NH2	2.18	0.76
78:Bo:74:CYS:HG	88:Bo:205:ZN:ZN	0.95	0.76
80:A6:1537:C:N3	86:A6:2016:OHX:N6	2.33	0.76
36:A5:2211:U:O4	86:A5:3476:OHX:N4	2.19	0.76
36:A5:3049:A:H8	36:A5:3049:A:H5'	1.50	0.76
1:A2:1550:A:P	17:AP:42:ARG:HH22	2.08	0.76
36:A1:824:C:H5''	39:BA:21:ARG:HD3	1.68	0.76
36:A1:2675:C:H42	48:BJ:22:SER:HB2	1.51	0.76
86:A1:3491:OHX:N3	86:A1:3671:OHX:N6	2.32	0.76
80:A6:1700:N:O2'	80:A6:1701:N:OP2	2.01	0.76
44:DF:88:ARG:HD2	44:DF:90:LYS:O	1.86	0.76
59:DV:133:SER:O	86:DV:201:OHX:N3	2.19	0.76
1:A2:484:C:H42	1:A2:503:G:H22	1.33	0.76
1:A2:1234:A:O2'	33:Af:146:SER:HB3	1.85	0.76
1:A2:1559:A:H5''	20:AS:135:GLY:HA3	1.68	0.76
8:AG:153:VAL:O	8:AG:155:ASP:N	2.16	0.76
14:AM:76:GLU:OE2	14:AM:90:LYS:NZ	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:683:C:H3'	80:A6:684:A:H5''	1.67	0.76
86:A5:3518:OHX:N5	86:A5:3803:OHX:N6	2.34	0.76
36:A1:2924:U:O4	86:A1:3563:OHX:N1	2.18	0.76
45:BG:78:PHE:O	45:BG:80:TYR:N	2.18	0.76
63:BZ:15:ARG:NH2	70:Bg:83:ASN:OD1	2.19	0.76
1:A2:1715:G:C6	1:A2:1716:C:N4	2.54	0.76
10:AI:36:THR:HB	10:AI:57:ALA:O	1.85	0.76
25:AX:73:ARG:HE	25:AX:84:THR:HG22	1.49	0.76
12:CK:32:HIS:CD2	12:CK:33:GLU:H	2.02	0.76
36:A5:2511:A:H2'	36:A5:2512:C:H5''	1.66	0.76
62:DY:45:ILE:HD12	62:DY:119:ILE:HG23	1.66	0.76
1:A2:494:U:O2'	1:A2:495:C:O5'	2.01	0.76
36:A1:548:G:N7	86:A1:3604:OHX:N5	2.34	0.76
36:A1:1014:U:H2'	36:A1:1015:U:H5''	1.68	0.76
32:Ce:59:GLY:O	32:Ce:61:SER:N	2.18	0.76
37:A7:60:G:OP2	86:A7:212:OHX:N6	2.19	0.76
63:DZ:83:THR:HG23	63:DZ:85:TYR:H	1.50	0.76
12:CK:50:THR:HG22	12:CK:55:VAL:HG22	1.66	0.76
36:A5:150:A:H2'	36:A5:151:A:H5'	1.66	0.76
36:A1:1541:G:OP2	86:A1:3565:OHX:N5	2.19	0.76
36:A1:1790:G:O6	86:A1:3731:OHX:N4	2.19	0.76
86:A1:3506:OHX:N1	86:A1:3777:OHX:N4	2.33	0.76
63:BZ:16:GLY:O	63:BZ:18:TYR:N	2.16	0.76
71:Bh:78:LYS:HA	71:Bh:81:ARG:HD3	1.67	0.76
3:CB:62:LYS:O	3:CB:88:VAL:HB	1.86	0.76
11:AJ:175:ARG:HH11	11:AJ:175:ARG:HG3	1.51	0.75
28:Aa:35:ALA:HB3	28:Aa:37:LYS:HE3	1.67	0.75
80:A6:14:C:OP2	4:CC:206:THR:HG21	1.86	0.75
80:A6:1542:G:N2	80:A6:1569:A:OP2	2.17	0.75
64:Da:6:THR:HG23	64:Da:8:THR:HG23	1.68	0.75
20:AS:26:ILE:HD11	20:AS:31:ALA:N	2.02	0.75
80:A6:1130:G:OP2	86:A6:1969:OHX:N1	2.18	0.75
26:CY:29:HIS:O	26:CY:31:ASN:N	2.19	0.75
40:DB:188:ILE:H	40:DB:188:ILE:HD12	1.50	0.75
1:A2:1073:G:H2'	1:A2:1074:G:H5''	1.66	0.75
86:A2:1914:OHX:N2	10:AI:17:LYS:O	2.19	0.75
34:Ag:89:LEU:HB2	34:Ag:103:PHE:HB2	1.68	0.75
36:A1:112:U:O2'	36:A1:113:C:OP2	2.05	0.75
40:BB:139:GLN:O	40:BB:141:GLY:N	2.19	0.75
46:BH:48:VAL:HG13	46:BH:52:LEU:HB3	1.67	0.75
80:A6:1310:U:O4	86:A6:2098:OHX:N6	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CI:76:THR:HG22	10:CI:105:ASP:HB3	1.67	0.75
3:AB:83:LYS:NZ	16:AO:116:GLU:OE2	2.18	0.75
7:AF:57:SER:O	7:AF:59:VAL:N	2.20	0.75
23:AV:74:GLN:NE2	23:AV:81:ASN:O	2.18	0.75
41:BC:156:LEU:HD23	41:BC:159:ILE:HD12	1.67	0.75
41:BC:317:PRO:O	41:BC:319:LYS:N	2.19	0.75
46:BH:22:SER:OG	46:BH:23:ARG:N	2.16	0.75
80:A6:74:U:H3'	80:A6:75:U:H3'	1.69	0.75
80:A6:1765:A:OP1	86:A6:1981:OHX:N2	2.19	0.75
86:A5:3470:OHX:N4	86:A5:3807:OHX:N2	2.34	0.75
1:A2:355:G:OP2	86:A2:1914:OHX:N4	2.19	0.75
53:BP:109:ALA:HA	53:BP:112:LEU:HD22	1.69	0.75
34:Cg:164:ASP:O	34:Cg:166:SER:N	2.20	0.75
36:A5:410:U:O4	86:A5:3616:OHX:N1	2.20	0.75
1:A2:488:G:H4'	1:A2:488:G:OP1	1.86	0.75
1:A2:1587:A:H1'	7:AF:104:ASN:HD22	1.50	0.75
12:CK:21:VAL:HG12	12:CK:66:TYR:HB2	1.66	0.75
37:A7:93:C:H5'	47:DI:57:LEU:HD12	1.68	0.75
86:A2:1918:OHX:N1	86:A2:2067:OHX:N3	2.35	0.75
20:AS:84:TRP:HA	20:AS:89:GLN:HE22	1.50	0.75
36:A1:678:G:O6	86:A1:3517:OHX:N4	2.19	0.75
80:A6:127:G:N7	8:CG:202:ARG:NH2	2.35	0.75
32:Ce:13:LYS:O	32:Ce:17:GLN:HG2	1.86	0.75
36:A5:1937:U:O4	86:A5:3810:OHX:N5	2.20	0.75
40:DB:347:SER:HB3	40:DB:350:ALA:H	1.51	0.75
1:A2:1520:U:OP2	21:AT:75:LYS:NZ	2.20	0.75
36:A1:1794:G:H4'	39:BA:191:LEU:HD13	1.67	0.75
36:A1:2403:G:O3'	86:A1:3738:OHX:N2	2.19	0.75
36:A1:2767:U:O2'	78:Bo:30:ALA:O	2.04	0.75
38:A4:79:A:H2'	38:A4:80:A:H1'	1.68	0.75
42:BD:34:LYS:O	42:BD:38:THR:HG23	1.85	0.75
36:A1:1941:C:O2'	36:A1:3344:A:N6	2.20	0.75
80:A6:538:A:H8	80:A6:543:C:N4	1.85	0.75
80:A6:713:A:H2'	80:A6:714:G:H5''	1.69	0.75
36:A5:1178:G:H5''	69:Df:18:ARG:HD3	1.66	0.75
36:A5:3068:U:OP2	55:DR:62:ARG:NH2	2.20	0.75
48:DJ:92:ARG:HG2	48:DJ:92:ARG:HH11	1.51	0.75
1:A2:337:G:H3'	13:AL:133:LYS:HB2	1.69	0.74
3:AB:157:GLN:O	3:AB:159:SER:N	2.20	0.74
36:A1:2897:A:H2'	36:A1:2899:C:H5''	1.67	0.74
42:BD:261:THR:H	42:BD:264:GLN:HG3	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BP:29:THR:HG22	53:BP:87:SER:OG	1.86	0.74
40:BB:221:THR:HG22	40:BB:272:TYR:H	1.52	0.74
52:BO:61[B]:ALA:HA	52:BO:70[B]:PRO:HD2	1.69	0.74
34:Cg:184:ASN:HD22	34:Cg:185:GLN:H	1.34	0.74
36:A5:149:U:OP2	51:DN:49:ARG:NH1	2.19	0.74
18:AQ:5:PRO:HG2	18:AQ:24:ALA:HB2	1.70	0.74
36:A1:1887:A:OP1	86:A1:3634:OHX:N3	2.21	0.74
36:A1:3346:U:H3	36:A1:3359:A:H61	1.33	0.74
4:CC:225:LEU:HD13	24:CW:68:ARG:HA	1.69	0.74
36:A5:343:U:OP2	86:A5:3439:OHX:N3	2.21	0.74
36:A1:226:C:OP1	86:A1:3812:OHX:N4	2.19	0.74
80:A6:647:G:H22	80:A6:687:G:H22	1.29	0.74
67:Dd:13:THR:HG22	67:Dd:72:ARG:HH21	1.51	0.74
86:A1:3463:OHX:N2	86:A1:3687:OHX:N1	2.36	0.74
80:A6:660:N:H2'	80:A6:661:N:H4'	1.69	0.74
1:A2:127:G:N7	8:AG:202:ARG:NH2	2.35	0.74
86:A2:1921:OHX:N2	86:A2:2052:OHX:N4	2.36	0.74
8:CG:153:VAL:O	8:CG:155:ASP:N	2.20	0.74
86:A5:3458:OHX:N6	86:A5:3820:OHX:N3	2.36	0.74
86:A5:3470:OHX:N6	86:A5:3807:OHX:N5	2.35	0.74
1:A2:471:A:OP2	86:A2:1955:OHX:N4	2.21	0.74
1:A2:765:G:C2	11:AJ:149:ARG:HD2	2.23	0.74
1:A2:1521:G:O6	21:AT:68:ARG:NH1	2.21	0.74
86:A1:3502:OHX:N6	44:BF:217:PRO:O	2.20	0.74
42:BD:40:HIS:CD2	42:BD:42:ALA:H	2.06	0.74
45:BG:36:ILE:O	45:BG:38:GLN:N	2.21	0.74
46:BH:120:ASP:OD1	46:BH:124:ARG:NH2	2.20	0.74
57:BT:14:MET:HE1	57:BT:55:LYS:HB2	1.69	0.74
36:A5:2211:U:H5	36:A5:2234:G:O6	1.71	0.74
86:A5:3457:OHX:N5	86:A5:3795:OHX:N6	2.36	0.74
86:A7:203:OHX:N1	86:A7:211:OHX:N2	2.35	0.74
18:AQ:12:LYS:HD3	18:AQ:17:THR:HB	1.70	0.74
36:A1:1495:U:H5	36:A1:1835:A:N1	1.85	0.74
36:A1:2108:C:H1'	36:A1:3344:A:C8	2.22	0.74
64:Ba:6:THR:HG23	64:Ba:8:THR:HG23	1.70	0.74
80:A6:1060:U:O2'	86:A6:2050:OHX:N3	2.20	0.74
21:CT:89:ARG:HH11	21:CT:89:ARG:HG3	1.52	0.74
36:A5:2573:G:O6	86:A5:3725:OHX:N6	2.20	0.74
1:A2:1057:U:O2'	1:A2:1058:U:OP2	2.02	0.74
3:AB:109:LYS:HG3	3:AB:113:MET:HE3	1.69	0.74
5:AD:7:LYS:NZ	22:AU:115:GLU:OE2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1596:C:H2'	36:A1:1597:C:C6	2.22	0.74
36:A1:1752:A:OP2	86:A1:3593:OHX:N5	2.21	0.74
36:A1:3115:C:OP1	46:BH:62:ARG:NH2	2.21	0.74
43:BE:58:LEU:HD12	43:BE:78:ARG:HD3	1.67	0.74
48:BJ:18:VAL:HG22	48:BJ:70:THR:HB	1.70	0.74
27:CZ:85:LYS:HG3	27:CZ:86:GLU:H	1.51	0.74
86:A5:3517:OHX:N3	44:DF:217:PRO:O	2.21	0.74
42:DD:226:TYR:HE1	42:DD:236:LEU:HD11	1.51	0.74
78:Do:71:ARG:HH21	78:Do:80:ARG:NH1	1.86	0.74
1:A2:108:A:H2'	1:A2:109:G:C8	2.23	0.74
5:AD:65:ARG:HA	5:AD:68:GLU:HG3	1.70	0.74
36:A1:18:G:OP1	71:Bh:81:ARG:NH2	2.21	0.74
36:A1:1733:G:P	86:A1:3811:OHX:N6	2.61	0.74
36:A1:2403:G:H3'	86:A1:3738:OHX:N1	2.03	0.74
86:A1:3506:OHX:N1	86:A1:3777:OHX:N3	2.36	0.74
37:A3:9:C:OP1	57:BT:28:SER:OG	2.05	0.74
80:A6:1795:U:O2	28:Ca:10:ARG:NE	2.21	0.74
11:CJ:110:GLN:NE2	11:CJ:126:ARG:HG2	2.02	0.74
36:A1:1664:G:OP2	86:A1:3776:OHX:N5	2.21	0.73
36:A1:2875:U:O4	86:A1:3757:OHX:N6	2.21	0.73
86:A1:3506:OHX:N2	86:A1:3777:OHX:N4	2.36	0.73
40:BB:150:ARG:HG2	40:BB:150:ARG:HH11	1.53	0.73
53:BP:29:THR:HA	53:BP:32:THR:HG23	1.67	0.73
67:Bd:13:THR:HG22	67:Bd:72:ARG:HH11	1.54	0.73
22:CU:58:LEU:HD13	22:CU:88:LYS:HE3	1.70	0.73
32:Ce:43:ARG:HG3	32:Ce:43:ARG:HH11	1.53	0.73
36:A5:595:G:H1	36:A5:609:G:H5''	1.53	0.73
36:A5:2372:A:H5''	36:A5:2373:A:H5'	1.70	0.73
36:A5:3289:G:H2'	36:A5:3290:G:C8	2.23	0.73
49:DL:128:ARG:NH1	71:Dh:109:ILE:O	2.20	0.73
9:AH:50:ASP:N	9:AH:50:ASP:OD1	2.21	0.73
36:A5:1888:U:OP1	40:DB:247:ARG:HD3	1.88	0.73
51:DN:172:ARG:HB3	51:DN:174:ILE:HD13	1.70	0.73
72:Di:58:ILE:HG22	72:Di:90:MET:HG3	1.68	0.73
80:A6:1244:A:H3'	80:A6:1244:A:N3	2.04	0.73
36:A5:1724:U:H4'	36:A5:1725:C:OP1	1.87	0.73
36:A5:2404:A:OP2	86:A5:3762:OHX:N1	2.22	0.73
73:Dj:48:ASN:OD1	73:Dj:54:LYS:NZ	2.20	0.73
80:A6:833:U:OP2	86:A6:2027:OHX:N5	2.21	0.73
20:CS:145:ARG:HG3	81:Ch:68:ARG:NH2	2.01	0.73
1:A2:514:G:H1	1:A2:543:C:H5	1.33	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:717:C:H42	1:A2:720:G:H22	1.37	0.73
1:A2:1062:A:OP2	86:A2:2080:OHX:N4	2.22	0.73
14:AM:89:ILE:HG23	14:AM:90:LYS:H	1.51	0.73
40:BB:332:ARG:HG2	40:BB:332:ARG:HH11	1.52	0.73
41:BC:359:LEU:O	56:BS:26:ARG:NH2	2.22	0.73
45:BG:41:GLN:HG3	45:BG:44:ARG:HH12	1.53	0.73
45:BG:82:LEU:HD12	45:BG:83:ASP:H	1.54	0.73
52:BO:61[A]:ALA:HA	52:BO:70[A]:PRO:HD2	1.70	0.73
80:A6:691:C:OP1	80:A6:696:C:N4	2.21	0.73
36:A5:2509:U:H2'	36:A5:2510:U:H5''	1.68	0.73
1:A2:1229:G:HO2'	1:A2:1255:G:N2	1.86	0.73
46:BH:171:ASP:OD1	46:BH:173:ARG:HD2	1.89	0.73
2:AA:4:PRO:HB2	2:AA:7:PHE:HB2	1.70	0.73
7:AF:113:ILE:O	7:AF:117:THR:OG1	2.07	0.73
34:Ag:170:ILE:HG21	34:Ag:211:ILE:HD11	1.70	0.73
36:A1:2899:C:C5	46:BH:171:ASP:HA	2.24	0.73
36:A1:3060:C:OP1	86:A1:3585:OHX:N4	2.20	0.73
86:A1:3491:OHX:N5	86:A1:3671:OHX:N6	2.36	0.73
80:A6:1524:A:H2'	80:A6:1525:A:C8	2.23	0.73
25:CX:125:VAL:HG12	25:CX:126:LYS:HG3	1.71	0.73
1:A2:74:U:O2'	1:A2:75:U:OP2	2.06	0.73
80:A6:755:A:H2'	80:A6:756:A:C8	2.24	0.73
80:A6:868:G:H1	80:A6:960:U:H3	1.33	0.73
36:A5:2177:G:OP2	39:DA:128:ARG:NH1	2.22	0.73
57:DT:68:THR:HG22	57:DT:71:SER:H	1.51	0.73
7:AF:40:ILE:HG23	7:AF:42:LEU:HD22	1.70	0.73
36:A1:1552:G:OP2	86:A1:3693:OHX:N6	2.22	0.73
36:A1:2875:U:H3	36:A1:2952:G:H1	1.36	0.73
86:A1:3506:OHX:N2	86:A1:3777:OHX:N6	2.37	0.73
86:A6:1919:OHX:N3	86:A6:2076:OHX:N1	2.36	0.73
36:A5:990:U:O4	86:A5:3713:OHX:N6	2.22	0.73
36:A5:1308:A:C8	36:A5:1308:A:OP2	2.40	0.73
46:DH:171:ASP:OD1	46:DH:173:ARG:HD3	1.89	0.73
86:A2:1918:OHX:N4	86:A2:2067:OHX:N3	2.37	0.73
18:AQ:18:ALA:HB2	18:AQ:69:VAL:HG13	1.71	0.73
36:A1:186:U:OP2	86:A1:3812:OHX:N5	2.22	0.73
36:A1:2280:A:OP1	86:A1:3671:OHX:N5	2.22	0.73
51:BN:37:HIS:CE1	51:BN:63:ARG:HD2	2.23	0.73
18:CQ:97:VAL:HG12	18:CQ:98:ASP:H	1.53	0.73
33:Cf:126:CYS:HB3	33:Cf:130:VAL:HG21	1.70	0.73
36:A5:1781:C:H2'	36:A5:1782:U:H6	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2836:C:H5	36:A5:2852:C:N4	1.86	0.73
46:DH:166:ARG:NH2	46:DH:168:ARG:HH12	1.85	0.73
51:DN:73:ARG:HG2	51:DN:75:VAL:HG13	1.70	0.73
1:A2:582:U:C6	1:A2:582:U:H5''	2.24	0.72
36:A1:1798:A:H2'	36:A1:1799:A:C8	2.24	0.72
86:A1:3439:OHX:N6	86:A1:3802:OHX:N5	2.36	0.72
86:A1:3463:OHX:N2	86:A1:3687:OHX:N5	2.36	0.72
39:BA:209:HIS:HD2	39:BA:211:HIS:H	1.37	0.72
80:A6:639:U:H5''	9:CH:101:LYS:HB2	1.71	0.72
80:A6:1479:A:OP1	21:CT:57:ARG:NH1	2.22	0.72
13:CL:132:SER:O	13:CL:134:THR:N	2.22	0.72
17:CP:25:LEU:HA	17:CP:28:MET:HE2	1.71	0.72
36:A5:2434:U:H4'	36:A5:2435:G:H5''	1.70	0.72
36:A5:2560:C:O2	86:A5:3546:OHX:N2	2.22	0.72
86:A5:3518:OHX:N1	86:A5:3803:OHX:N4	2.37	0.72
59:DV:2:SER:HA	59:DV:56:ASP:HA	1.69	0.72
1:A2:581:U:OP2	5:AD:143:ARG:NH1	2.21	0.72
5:AD:64:ARG:O	5:AD:67:ASN:N	2.20	0.72
36:A1:637:C:H2'	36:A1:638:C:C6	2.24	0.72
80:A6:488:G:N2	80:A6:499:U:H3	1.86	0.72
36:A5:2278:C:OP1	86:A5:3603:OHX:N6	2.22	0.72
86:A5:3620:OHX:N5	38:A8:139:U:O4	2.21	0.72
1:A2:1542:G:N2	1:A2:1568:C:H1'	2.04	0.72
47:BI:171:TRP:O	47:BI:174:THR:HB	1.89	0.72
49:BL:180:ARG:HD3	72:Bi:11:LEU:HD21	1.69	0.72
80:A6:794:U:H4'	80:A6:795:U:OP2	1.90	0.72
36:A5:3374:U:O4	86:A5:3808:OHX:N5	2.22	0.72
43:DE:78:ARG:HH11	43:DE:78:ARG:HG3	1.53	0.72
1:A2:759:U:OP1	86:A2:2061:OHX:N1	2.22	0.72
86:A2:1921:OHX:N5	86:A2:2052:OHX:N3	2.36	0.72
7:AF:144:GLU:OE1	7:AF:225:ARG:NH2	2.21	0.72
38:A8:21:C:OP1	41:DC:193:LYS:NZ	2.22	0.72
1:A2:818:C:N4	1:A2:819:G:O6	2.21	0.72
1:A2:1160:A:H2'	1:A2:1161:C:C6	2.25	0.72
80:A6:831:U:OP1	86:A6:2087:OHX:N6	2.22	0.72
41:DC:60:THR:HG21	41:DC:77:VAL:HG22	1.71	0.72
54:DQ:170:ARG:HA	54:DQ:174:ARG:HD2	1.71	0.72
1:A2:1428:G:H5'	1:A2:1428:G:H8	1.53	0.72
3:AB:202:LYS:NZ	3:AB:202:LYS:O	2.23	0.72
36:A1:670:C:OP1	54:BQ:147:ARG:NH2	2.21	0.72
38:A4:11:C:OP2	86:A4:212:OHX:N1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:491:C:N3	1:A2:496:G:N2	2.38	0.72
1:A2:1290:U:H2'	1:A2:1291:G:C8	2.25	0.72
8:AG:24:ILE:O	8:AG:26:VAL:N	2.23	0.72
36:A1:1814:A:H4'	36:A1:1815:U:H5'	1.68	0.72
36:A1:2548:C:OP2	39:BA:93:LYS:NZ	2.23	0.72
55:BR:8:LYS:HD2	55:BR:22:VAL:HG23	1.72	0.72
80:A6:1241:G:OP2	17:CP:77:ARG:NH1	2.23	0.72
80:A6:1287:A:OP1	86:A6:2057:OHX:N4	2.22	0.72
80:A6:1330:G:N2	19:CR:8:THR:HG21	2.00	0.72
10:CI:48:THR:HG21	10:CI:54:LYS:HD2	1.71	0.72
20:CS:41:ARG:NH2	21:CT:36:ILE:O	2.20	0.72
36:A5:1196:C:O2	86:A5:3514:OHX:N1	2.22	0.72
68:De:11:LYS:O	68:De:12:LYS:HB2	1.90	0.72
86:A2:1921:OHX:N5	86:A2:2052:OHX:N6	2.38	0.72
16:AO:102:LEU:HD22	16:AO:105:LEU:HD11	1.71	0.72
36:A1:1507:G:N7	53:BP:129:THR:HG22	2.05	0.72
36:A1:3344:A:H2	36:A1:3361:G:H21	1.37	0.72
86:A1:3491:OHX:N5	86:A1:3671:OHX:N2	2.37	0.72
80:A6:161:U:OP2	8:CG:87:ARG:NH2	2.23	0.72
80:A6:478:A:O2'	11:CJ:124:HIS:HD2	1.73	0.72
80:A6:1239:U:O4	86:A6:1953:OHX:N1	2.23	0.72
80:A6:1280:C:H2'	80:A6:1281:G:H8	1.54	0.72
25:CX:73:ARG:HE	25:CX:84:THR:HG22	1.55	0.72
36:A5:2397:A:OP1	36:A5:2398:A:H5''	1.88	0.72
53:DP:29:THR:HG22	53:DP:87:SER:OG	1.90	0.72
3:AB:173:THR:O	3:AB:177:GLN:NE2	2.23	0.72
11:AJ:110:GLN:NE2	11:AJ:126:ARG:HG2	2.04	0.72
16:AO:29:HIS:HB3	16:AO:41:ARG:HG3	1.72	0.72
19:AR:82:ASP:O	19:AR:83:GLN:NE2	2.20	0.72
36:A1:1740:U:H1'	36:A1:1741:A:H2	1.55	0.72
48:BJ:94:ARG:O	48:BJ:96:PHE:N	2.22	0.72
10:CI:152:ILE:HD11	10:CI:157:GLU:HB2	1.72	0.72
16:CO:50:ALA:C	16:CO:52:ARG:H	1.97	0.72
36:A5:2875:U:H3	36:A5:2952:G:H1	1.35	0.72
48:DJ:59:ILE:HD12	48:DJ:65:ILE:HD11	1.72	0.72
72:Di:62:ARG:O	72:Di:63:ASN:ND2	2.22	0.72
14:AM:54:ARG:O	14:AM:56:GLU:N	2.23	0.72
20:AS:123:ARG:HG3	20:AS:133:VAL:HG21	1.69	0.72
41:BC:232:SER:OG	41:BC:233:LEU:N	2.18	0.72
53:BP:172:GLN:OE1	69:Bf:60:ARG:NH1	2.23	0.72
53:DP:69:ARG:HG2	53:DP:79:THR:HG23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:52:LYS:HD2	23:AV:82:VAL:HA	1.72	0.71
22:AU:106:ILE:HG13	22:AU:107:THR:H	1.54	0.71
36:A1:692:A:OP1	51:BN:201:ARG:NH2	2.23	0.71
48:BJ:49:LYS:HB3	48:BJ:62:ASN:HA	1.72	0.71
80:A6:151:G:N2	80:A6:163:G:N2	2.37	0.71
80:A6:604:A:OP2	86:A6:2006:OHX:N4	2.23	0.71
12:CK:77:ARG:NH2	12:CK:84:GLU:O	2.23	0.71
86:A5:3457:OHX:N5	86:A5:3795:OHX:N3	2.37	0.71
78:Do:50:PHE:O	86:Do:201:OHX:N1	2.23	0.71
1:A2:649:U:O2'	1:A2:650:U:O5'	2.07	0.71
5:AD:179:GLN:NE2	5:AD:179:GLN:O	2.23	0.71
34:Ag:76:ASP:OD1	34:Ag:76:ASP:N	2.18	0.71
36:A1:2585:G:N7	45:BG:47:SER:OG	2.23	0.71
80:A6:1492:A:O2'	80:A6:1493:A:H8	1.72	0.71
13:CL:33:ARG:NH1	13:CL:53:TYR:O	2.22	0.71
34:Cg:52:GLN:HG2	34:Cg:53:LYS:H	1.55	0.71
81:Ch:49:LYS:HZ1	81:Ch:53:ARG:HH12	1.37	0.71
86:A5:3457:OHX:N2	86:A5:3795:OHX:N6	2.37	0.71
62:DY:36:SER:HB2	62:DY:37:LYS:HE2	1.71	0.71
1:A2:1686:C:O2'	1:A2:1687:U:C5'	2.37	0.71
36:A1:1564:U:H2'	36:A1:1565:G:C8	2.22	0.71
86:A1:3506:OHX:N5	86:A1:3777:OHX:N6	2.39	0.71
86:A6:1919:OHX:N4	86:A6:2076:OHX:N1	2.38	0.71
10:CI:76:THR:HG23	10:CI:108:PRO:HG2	1.72	0.71
15:CN:93:LYS:HA	15:CN:150:VAL:HG21	1.72	0.71
36:A5:1024:G:H2'	36:A5:1026:A:H8	1.55	0.71
1:A2:159:U:O2'	8:AG:87:ARG:NH1	2.23	0.71
20:AS:145:ARG:HB3	35:Ah:68:ARG:HH22	1.54	0.71
36:A1:662:U:OP1	64:Ba:8:THR:HG21	1.90	0.71
36:A1:2112:U:H4'	36:A1:2113:A:H5'	1.71	0.71
36:A1:2854:U:OP2	47:BI:3:ARG:NH2	2.24	0.71
86:A1:3496:OHX:N3	86:A1:3650:OHX:N6	2.38	0.71
37:A3:4:U:H2'	37:A3:5:G:C8	2.25	0.71
37:A3:62:U:O3'	42:BD:285:ARG:NH1	2.23	0.71
52:BO:65[A]:ASN:OD1	52:BO:67[A]:THR:HB	1.90	0.71
80:A6:578:U:O2	86:A6:2010:OHX:N3	2.23	0.71
19:CR:31:ASN:ND2	19:CR:31:ASN:H	1.86	0.71
40:DB:103:THR:HG21	40:DB:147:GLU:OE2	1.90	0.71
2:AA:185:ARG:HB2	23:AV:45:ALA:HB3	1.72	0.71
18:AQ:113:ASP:CG	18:AQ:114:ARG:H	1.98	0.71
86:A1:3458:OHX:N2	86:A1:3811:OHX:N5	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BD:22:ARG:HG2	42:BD:28:THR:OG1	1.89	0.71
13:CL:99:ARG:NH1	25:CX:7:ARG:O	2.23	0.71
36:A5:2854:U:OP2	47:DI:3:ARG:NH2	2.24	0.71
86:A5:3518:OHX:N2	86:A5:3803:OHX:N4	2.38	0.71
56:DS:13:ARG:HH11	56:DS:13:ARG:HG3	1.55	0.71
1:A2:1683:C:O2'	1:A2:1684:U:O5'	2.07	0.71
36:A1:3035:A:OP2	86:A1:3621:OHX:N4	2.23	0.71
37:A3:39:C:N3	48:BJ:70:THR:HG23	2.06	0.71
48:BJ:109:HIS:HD2	48:BJ:123:PHE:H	1.39	0.71
59:BV:32:ARG:HB3	59:BV:64:LYS:HB3	1.72	0.71
17:CP:89:MET:O	17:CP:107:ILE:HD11	1.89	0.71
36:A5:1024:G:O6	36:A5:1029:G:N2	2.23	0.71
36:A5:2407:C:H2'	36:A5:2408:U:H6	1.56	0.71
36:A5:2437:G:H5'	36:A5:2437:G:H8	1.55	0.71
36:A5:2988:C:OP1	52:DO:68[B]:ARG:NH1	2.23	0.71
54:DQ:158:HIS:H	54:DQ:186:VAL:HG12	1.55	0.71
1:A2:1774:G:N7	77:Bn:4:LYS:NZ	2.38	0.71
13:AL:78:THR:HG22	13:AL:84:ILE:HG22	1.72	0.71
67:Bd:19:ARG:HD3	67:Bd:35:GLU:HG2	1.72	0.71
80:A6:491:C:N4	80:A6:496:G:O6	2.20	0.71
80:A6:1057:U:O2'	80:A6:1059:U:OP1	2.08	0.71
36:A5:1381:A:OP1	41:DC:197:ARG:NH1	2.24	0.71
36:A5:2403:G:OP2	86:A5:3762:OHX:N6	2.24	0.71
36:A5:2572:C:O2'	36:A5:2573:G:OP2	2.08	0.71
86:A5:3515:OHX:N2	86:A5:3723:OHX:N1	2.38	0.71
46:BH:49:ASN:O	46:BH:49:ASN:ND2	2.23	0.71
86:A5:3521:OHX:N2	86:A5:3809:OHX:N1	2.38	0.71
37:A7:76:A:O2'	56:DS:50:LYS:NZ	2.20	0.71
45:DG:95:ASN:OD1	45:DG:98:ARG:NH1	2.23	0.71
58:DU:98:THR:HG23	58:DU:104:ARG:HH21	1.55	0.71
62:DY:3:LYS:HD2	62:DY:8:VAL:HG23	1.72	0.71
1:A2:614:C:OP2	25:AX:5:LYS:NZ	2.23	0.71
11:AJ:117:GLY:O	11:AJ:119:ALA:N	2.24	0.71
36:A1:1952:G:H3'	36:A1:1953:G:H5''	1.73	0.71
66:Bc:22:LYS:HB2	66:Bc:94:GLU:HB2	1.71	0.71
36:A5:1875:G:H2'	36:A5:1876:U:H5''	1.73	0.71
36:A5:2875:U:O4	86:A5:3667:OHX:N5	2.24	0.71
1:A2:1600:A:H4'	1:A2:1601:G:OP1	1.90	0.71
17:AP:69:GLU:OE1	86:AP:201:OHX:N4	2.24	0.71
19:AR:20:TYR:CE1	19:AR:38:ILE:HD11	2.26	0.71
36:A1:1654:A:C2'	36:A1:1655:G:H5''	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2979:U:O4	86:A1:3757:OHX:N2	2.24	0.71
59:BV:33:ASN:C	59:BV:33:ASN:HD22	1.98	0.71
80:A6:539:G:H8	80:A6:539:G:OP2	1.73	0.71
10:CI:76:THR:HG21	10:CI:105:ASP:O	1.90	0.71
36:A5:2439:A:H2'	36:A5:2440:G:H5''	1.72	0.71
50:DM:17:VAL:HG21	50:DM:74:ARG:HB2	1.72	0.71
36:A1:764:U:O4	86:A1:3505:OHX:N5	2.23	0.70
36:A1:1613:A:OP2	74:Bk:46:ARG:NH2	2.24	0.70
36:A1:3139:A:H5'	36:A1:3139:A:C8	2.26	0.70
86:A1:3502:OHX:N4	44:BF:217:PRO:HA	2.06	0.70
40:DB:41:VAL:CA	40:DB:185:GLY:HA3	2.19	0.70
46:DH:166:ARG:HH21	46:DH:168:ARG:NH1	1.87	0.70
53:DP:138:LYS:HG3	53:DP:140:GLU:HG3	1.72	0.70
1:A2:867:G:OP2	15:AN:3:ARG:NH1	2.24	0.70
3:CB:48:VAL:HG21	3:CB:61:LEU:HD22	1.73	0.70
36:A5:1659:U:OP1	86:A5:3800:OHX:N3	2.24	0.70
36:A5:1781:C:H2'	36:A5:1782:U:C6	2.26	0.70
36:A5:2814:G:OP1	41:DC:73:ARG:NH2	2.23	0.70
86:A5:3470:OHX:N4	86:A5:3807:OHX:N1	2.39	0.70
38:A8:78:G:O6	86:A8:218:OHX:N3	2.24	0.70
1:A2:1564:U:H2'	1:A2:1565:C:C6	2.26	0.70
4:AC:203:LYS:O	4:AC:206:THR:HG23	1.91	0.70
6:AE:79:ASP:HB3	6:AE:82:TYR:HB2	1.73	0.70
36:A1:2513:U:H4'	36:A1:2514:U:OP1	1.91	0.70
86:A1:3491:OHX:N1	86:A1:3671:OHX:N2	2.39	0.70
6:CE:104:ASP:HB2	6:CE:108:ARG:H	1.55	0.70
6:CE:151:ASP:OD1	8:CG:215:ARG:NH1	2.24	0.70
13:CL:101:GLU:OE2	25:CX:16:ARG:NH2	2.24	0.70
36:A5:595:G:N1	36:A5:609:G:H5''	2.06	0.70
86:A5:3458:OHX:N4	86:A5:3820:OHX:N1	2.39	0.70
86:A5:3489:OHX:N4	86:DA:302:OHX:N3	2.39	0.70
86:A5:3518:OHX:N1	86:A5:3803:OHX:N3	2.38	0.70
65:Db:16:ALA:O	65:Db:20:GLY:HA3	1.92	0.70
68:De:91:THR:HG22	68:De:92:TYR:HD2	1.54	0.70
1:A2:653:C:H2'	1:A2:654:C:O4'	1.92	0.70
1:A2:1795:U:O2	28:Aa:10:ARG:HD2	1.89	0.70
21:AT:126:GLU:HA	21:AT:129:GLN:HG3	1.73	0.70
36:A1:2867:C:H5'	36:A1:2867:C:C6	2.26	0.70
39:BA:209:HIS:CD2	39:BA:211:HIS:H	2.10	0.70
51:BN:31:ARG:NH1	51:BN:124:ASP:OD1	2.22	0.70
3:CB:47:LEU:H	3:CB:47:LEU:HD12	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:1213:G:H4'	56:DS:90:MET:CG	2.20	0.70
36:A5:1631:C:H5''	36:A5:1632:A:H5''	1.73	0.70
40:DB:56:ILE:HD11	40:DB:359:ILE:HG12	1.74	0.70
42:DD:105:ILE:O	42:DD:109:THR:HG23	1.92	0.70
1:A2:930:A:OP1	28:Aa:32:LYS:NZ	2.23	0.70
36:A1:283:G:OP1	78:Bo:45:ARG:NH2	2.25	0.70
38:A4:124:G:H1	38:A4:129:C:H42	1.39	0.70
44:BF:150:LYS:HG2	44:BF:151:ARG:HG2	1.73	0.70
45:BG:36:ILE:HG22	45:BG:37:GLY:H	1.55	0.70
80:A6:67:A:O2'	80:A6:69:G:OP1	2.06	0.70
80:A6:474:A:OP1	11:CJ:145:SER:HB2	1.92	0.70
80:A6:1154:G:N7	86:A6:1990:OHX:N2	2.39	0.70
36:A5:1322:U:O2	56:DS:108:GLN:NE2	2.25	0.70
36:A5:3001:C:OP1	40:DB:120:LYS:NZ	2.23	0.70
86:A5:3513:OHX:N6	86:A5:3666:OHX:N4	2.39	0.70
45:DG:68:ARG:O	45:DG:69:LEU:HB2	1.89	0.70
1:A2:1533:C:H4'	1:A2:1539:G:N1	2.06	0.70
86:A2:1921:OHX:N1	86:A2:2052:OHX:N4	2.38	0.70
36:A1:2233:A:OP2	86:A1:3590:OHX:N5	2.25	0.70
36:A1:3165:A:H61	36:A1:3285:C:H42	1.38	0.70
43:BE:31:ARG:NH1	69:Bf:107:ILE:O	2.24	0.70
80:A6:138:A:N6	80:A6:266:A:H61	1.89	0.70
3:CB:113:MET:HE2	3:CB:142:PHE:HE2	1.57	0.70
25:CX:79:ASN:HB3	25:CX:81:LYS:HG3	1.74	0.70
26:CY:50:ALA:HB1	26:CY:54:ALA:HB3	1.74	0.70
36:A5:3035:A:OP2	86:A5:3565:OHX:N5	2.25	0.70
36:A5:3150:A:H5'	40:DB:129:ALA:O	1.91	0.70
86:A5:3518:OHX:N5	86:A5:3803:OHX:N3	2.39	0.70
2:AA:167:LYS:HB3	2:AA:168:HIS:CD2	2.27	0.70
3:AB:176:VAL:O	3:AB:178:GLY:N	2.25	0.70
15:AN:84:ILE:HG22	15:AN:135:LEU:HD21	1.73	0.70
36:A1:3343:G:H21	36:A1:3362:A:H2	1.39	0.70
36:A5:2818:U:H5'	36:A5:2818:U:C6	2.23	0.70
55:DR:43:LYS:O	55:DR:47:ASN:HB2	1.91	0.70
33:Af:102:VAL:O	33:Af:104:SER:N	2.23	0.70
80:A6:647:G:H22	80:A6:687:G:N2	1.88	0.70
80:A6:846:G:H2'	80:A6:847:A:C8	2.25	0.70
80:A6:1720:G:O6	86:A6:1950:OHX:N4	2.25	0.70
36:A1:860:G:OP1	79:Bp:17:ARG:NH1	2.24	0.70
46:BH:13:PRO:HD2	46:BH:16:VAL:HG22	1.74	0.70
36:A5:155:G:H5''	36:A5:156:G:C8	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:439:C:H4'	36:A5:440:A:H5'	1.74	0.70
86:A5:3458:OHX:N2	86:A5:3820:OHX:N1	2.40	0.70
86:A5:3515:OHX:N4	86:A5:3723:OHX:N1	2.40	0.70
63:DZ:5:LEU:HD22	63:DZ:77:TYR:CE2	2.27	0.70
1:A2:936:G:N7	28:Aa:15:ARG:NH1	2.39	0.70
1:A2:1769:U:OP2	86:A2:2032:OHX:N1	2.25	0.70
36:A1:1605:A:O2'	36:A1:1607:U:OP2	2.05	0.70
36:A1:3346:U:H3	36:A1:3359:A:N6	1.90	0.70
80:A6:1230:A:H8	80:A6:1258:U:C4	2.08	0.70
24:CW:111:MET:HE1	24:CW:121:VAL:HG21	1.73	0.70
48:DJ:23:VAL:HG12	48:DJ:25:GLU:H	1.56	0.70
52:DO:62[A]:THR:H	52:DO:69[A]:GLY:HA3	1.57	0.70
63:DZ:16:GLY:O	63:DZ:18:TYR:N	2.25	0.70
67:Dd:75:ILE:HG12	67:Dd:93:VAL:HG13	1.73	0.70
11:AJ:60:LEU:CD2	11:AJ:93:LEU:HD21	2.22	0.69
36:A1:2535:A:N6	36:A1:2544:U:H3	1.88	0.69
47:BI:33:ILE:HD11	47:BI:36:LEU:HG	1.72	0.69
68:Be:11:LYS:O	68:Be:12:LYS:HB2	1.92	0.69
80:A6:778:G:O6	26:CY:10:ARG:HD2	1.91	0.69
36:A5:1409:G:N7	86:A5:3686:OHX:N6	2.40	0.69
1:A2:565:C:O2	86:A2:1917:OHX:N5	2.25	0.69
1:A2:778:G:H22	26:AY:10:ARG:NH2	1.90	0.69
1:A2:1711:C:H2'	1:A2:1712:A:H5''	1.74	0.69
5:AD:29:LEU:HD21	5:AD:69:LEU:HD11	1.73	0.69
9:AH:133:THR:HG22	9:AH:159:VAL:HG12	1.73	0.69
13:AL:4:GLU:HG3	13:AL:5:LEU:HG	1.74	0.69
36:A1:172:G:N7	86:A1:3536:OHX:N5	2.40	0.69
36:A1:1841:A:H2	75:Bl:45:ARG:HH22	1.40	0.69
80:A6:1767:G:OP1	80:A6:1770:U:H4'	1.91	0.69
11:CJ:31:ALA:HA	11:CJ:36:LEU:HB2	1.74	0.69
36:A5:2201:G:H21	39:DA:224:THR:HG21	1.57	0.69
36:A5:2667:A:H5'	36:A5:2667:A:H8	1.56	0.69
36:A5:3182:G:OP1	52:DO:160[B]:ARG:NH2	2.25	0.69
86:A5:3577:OHX:N6	86:A5:3729:OHX:N3	2.40	0.69
1:A2:584:C:H1'	32:Ae:18:THR:HG21	1.72	0.69
2:AA:157:ASP:OD2	23:AV:60:ARG:NH2	2.25	0.69
15:AN:151:ASN:O	86:AN:201:OHX:N6	2.25	0.69
36:A1:1655:G:H5'	36:A1:1655:G:C8	2.26	0.69
36:A1:3107:U:OP1	76:Bm:114:LYS:NZ	2.25	0.69
53:BP:24:VAL:HG13	53:BP:86:LYS:HG2	1.74	0.69
80:A6:484:C:N4	80:A6:503:G:H1	1.88	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:833:U:O4	86:A6:1957:OHX:N5	2.26	0.69
1:A2:131:C:OP1	86:A2:1952:OHX:N4	2.26	0.69
21:AT:28:LEU:HD13	21:AT:29:GLU:H	1.56	0.69
36:A1:2534:G:N7	86:A1:3751:OHX:N2	2.40	0.69
59:BV:79:VAL:HG13	59:BV:100:GLY:HA2	1.74	0.69
73:Bj:88:ALA:O	86:Bj:101:OHX:N4	2.25	0.69
80:A6:151:G:N2	80:A6:163:G:H22	1.89	0.69
80:A6:653:C:H42	80:A6:677:G:H1	1.40	0.69
21:CT:105:LEU:HD13	21:CT:122:ARG:HD3	1.72	0.69
36:A5:556:U:OP2	86:A5:3732:OHX:N2	2.25	0.69
36:A5:1765:U:H4'	36:A5:1765:U:OP1	1.91	0.69
36:A5:3272:C:OP2	43:DE:78:ARG:NH1	2.26	0.69
63:DZ:102:GLU:OE1	63:DZ:103:GLN:N	2.25	0.69
66:Dc:22:LYS:HD3	66:Dc:94:GLU:HG3	1.75	0.69
1:A2:591:A:H2'	1:A2:592:A:C8	2.27	0.69
2:AA:193:GLN:O	2:AA:195:TRP:N	2.26	0.69
16:AO:29:HIS:ND1	16:AO:29:HIS:O	2.24	0.69
21:AT:49:ASP:HB3	21:AT:53:TRP:HB3	1.73	0.69
45:BG:45:ASN:HD21	45:BG:47:SER:HB3	1.58	0.69
80:A6:755:A:H2'	80:A6:756:A:H8	1.56	0.69
7:CF:57:SER:O	7:CF:59:VAL:N	2.25	0.69
36:A5:1613:A:OP2	74:Dk:46:ARG:NH2	2.25	0.69
36:A5:2195:C:OP2	86:A5:3405:OHX:N4	2.25	0.69
36:A5:2299:A:OP1	86:A5:3681:OHX:N1	2.26	0.69
40:DB:117:ARG:CZ	40:DB:175:LYS:HD2	2.23	0.69
1:A2:226:A:H2'	1:A2:227:U:H5'	1.74	0.69
1:A2:437:A:OP1	86:A2:2051:OHX:N3	2.26	0.69
86:A2:1915:OHX:N2	86:A2:2074:OHX:N2	2.40	0.69
4:AC:69:ILE:HD11	4:AC:133:LYS:HB3	1.73	0.69
15:AN:55:ARG:NH1	15:AN:56:ASP:OD2	2.26	0.69
19:AR:50:ILE:O	19:AR:54:THR:HG23	1.92	0.69
24:AW:15:ASN:HD21	24:AW:71:LYS:HA	1.58	0.69
36:A1:2310:U:OP1	86:A1:3697:OHX:N4	2.26	0.69
36:A1:3050:U:OP2	86:A1:3758:OHX:N2	2.25	0.69
36:A1:3122:A:N1	46:BH:70:THR:HG21	2.07	0.69
40:BB:152:LYS:HG2	40:BB:192:VAL:HG11	1.74	0.69
43:BE:158:TYR:OH	50:BM:114:ASP:OD2	2.08	0.69
80:A6:358:U:O4	86:A6:1931:OHX:N2	2.26	0.69
80:A6:542:A:OP1	80:A6:542:A:H2'	1.93	0.69
80:A6:755:A:O2'	80:A6:756:A:O4'	2.04	0.69
22:CU:22:ILE:HG22	22:CU:93:LEU:HB2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CY:122:GLY:O	26:CY:125:LEU:N	2.24	0.69
36:A1:2777:G:H3'	36:A1:2777:G:C8	2.28	0.69
42:BD:40:HIS:HB3	42:BD:43:LYS:HG3	1.75	0.69
62:BY:37:LYS:H	62:BY:37:LYS:CD	2.04	0.69
66:Bc:63:SER:HG	66:Bc:65:THR:HG1	1.33	0.69
17:CP:65:LEU:O	86:CP:201:OHX:N2	2.25	0.69
36:A5:2853:A:H5'	47:DI:63:GLU:HB2	1.74	0.69
86:A5:3489:OHX:N4	86:DA:302:OHX:N6	2.40	0.69
61:DX:51:VAL:HG21	71:Dh:62:GLN:HB3	1.75	0.69
1:A2:434:G:N7	86:A2:1926:OHX:N4	2.40	0.69
21:AT:86:ARG:HH11	21:AT:86:ARG:HG3	1.55	0.69
30:Ac:32:PHE:HE2	30:Ac:38:ARG:HB3	1.58	0.69
36:A1:2777:G:C8	36:A1:2777:G:C3'	2.76	0.69
36:A1:3129:A:OP2	86:A1:3802:OHX:N3	2.26	0.69
46:BH:57:VAL:HG23	46:BH:68:LEU:HG	1.75	0.69
50:BM:23:ILE:HA	50:BM:63:VAL:HG23	1.74	0.69
59:BV:68:GLU:OE1	59:BV:68:GLU:N	2.22	0.69
80:A6:1041:G:OP1	86:A6:2039:OHX:N4	2.26	0.69
80:A6:1112:G:OP1	77:Dn:6:ARG:NH2	2.26	0.69
80:A6:1542:G:N2	80:A6:1568:C:H1'	2.08	0.69
80:A6:1571:C:OP2	86:A6:2016:OHX:N2	2.26	0.69
36:A5:2403:G:N2	36:A5:2404:A:H62	1.91	0.69
36:A5:2924:U:O4	86:A5:3573:OHX:N2	2.25	0.69
86:A5:3610:OHX:N3	86:A5:3814:OHX:N6	2.40	0.69
40:DB:150:ARG:HG2	40:DB:150:ARG:HH11	1.58	0.69
53:DP:33:ALA:HB1	53:DP:117:ILE:HG12	1.74	0.69
1:A2:838:G:N7	86:A2:2074:OHX:N6	2.40	0.69
1:A2:1448:G:O6	86:A2:2086:OHX:N1	2.25	0.69
86:A2:1921:OHX:N1	86:A2:2052:OHX:N3	2.40	0.69
42:BD:85:ARG:NH1	42:BD:86:TYR:OH	2.25	0.69
80:A6:1199:G:O6	22:CU:67:THR:HG22	1.93	0.69
80:A6:1620:C:H2'	80:A6:1621:U:H6	1.58	0.69
7:CF:53:VAL:O	7:CF:55:ASP:N	2.26	0.69
24:CW:41:MET:HG2	24:CW:129:VAL:HG11	1.75	0.69
86:A5:3526:OHX:N6	86:A5:3739:OHX:N2	2.40	0.69
45:DG:90:THR:HA	45:DG:214:LEU:HD21	1.75	0.69
1:A2:176:C:OP1	86:A2:1952:OHX:N3	2.26	0.69
12:AK:68:LEU:HD11	12:AK:76:LEU:HD21	1.73	0.69
36:A1:1940:G:H21	36:A1:3362:A:H8	1.41	0.69
86:A1:3458:OHX:N4	86:A1:3811:OHX:N3	2.41	0.69
44:BF:143:THR:HG22	44:BF:241:LYS:HE3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BQ:34:THR:HG22	54:BQ:49:LEU:HD21	1.74	0.69
34:Cg:159:ASN:O	34:Cg:161:LYS:N	2.22	0.69
36:A5:300:G:O6	86:A5:3722:OHX:N2	2.25	0.69
36:A5:2507:C:O2'	36:A5:2508:U:OP1	2.10	0.69
86:A5:3470:OHX:N3	86:A5:3807:OHX:N5	2.41	0.69
64:Da:77:LYS:O	64:Da:79:TRP:N	2.24	0.69
1:A2:131:C:O2'	1:A2:132:U:OP1	2.11	0.68
1:A2:959:U:C6	15:AN:61:THR:HB	2.28	0.68
40:BB:37:ARG:HG2	40:BB:187:SER:H	1.57	0.68
40:BB:346:THR:O	40:BB:348:ARG:N	2.26	0.68
44:BF:151:ARG:HD2	44:BF:244:ASN:ND2	2.08	0.68
59:BV:108:GLU:HG2	59:BV:128:ARG:HH11	1.58	0.68
80:A6:1402:G:H5'	19:CR:4:VAL:HG22	1.73	0.68
19:CR:104:ASN:O	19:CR:106:THR:N	2.26	0.68
36:A5:549:U:H2'	36:A5:550:A:C8	2.27	0.68
86:A7:203:OHX:N1	86:A7:211:OHX:N5	2.41	0.68
46:DH:95:ALA:O	76:Dm:77:ILE:HG12	1.93	0.68
10:AI:114:GLU:HG2	10:AI:120:THR:HA	1.75	0.68
36:A1:13:A:OP2	86:A1:3786:OHX:N5	2.26	0.68
80:A6:228:G:H1	80:A6:236:A:H61	1.41	0.68
6:CE:125:LYS:N	6:CE:142:HIS:HD2	1.90	0.68
24:CW:6:VAL:HG13	24:CW:34:ILE:HD11	1.74	0.68
25:CX:23:ARG:HG3	25:CX:23:ARG:HH11	1.56	0.68
34:Cg:184:ASN:ND2	34:Cg:185:GLN:H	1.92	0.68
36:A5:1301:A:OP2	86:A5:3820:OHX:N6	2.26	0.68
36:A5:3317:U:H4'	36:A5:3318:G:O5'	1.92	0.68
36:A5:3330:A:H5''	36:A5:3330:A:H8	1.59	0.68
86:A5:3610:OHX:N3	86:A5:3814:OHX:N4	2.42	0.68
1:A2:701:U:H3	1:A2:737:A:N6	1.87	0.68
1:A2:839:U:H2'	1:A2:840:U:H5'	1.76	0.68
4:AC:116:LYS:HG2	4:AC:127:ALA:HB3	1.76	0.68
36:A1:129:U:O4	86:A1:3798:OHX:N3	2.25	0.68
36:A1:410:U:O4	86:A1:3602:OHX:N5	2.26	0.68
36:A1:1236:G:N2	36:A1:1244:A:H4'	2.08	0.68
36:A1:1278:A:O2'	36:A1:1279:C:O5'	2.10	0.68
36:A1:3188:G:O6	86:A1:3762:OHX:N3	2.26	0.68
86:A1:3542:OHX:N4	86:A1:3751:OHX:N3	2.41	0.68
74:Bk:26:LYS:NZ	74:Bk:28:ASN:OD1	2.27	0.68
2:CA:167:LYS:HB3	2:CA:168:HIS:CD2	2.28	0.68
11:CJ:3:ARG:HG2	11:CJ:3:ARG:HH21	1.57	0.68
13:CL:21:ASN:N	13:CL:21:ASN:OD1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:Cg:178:VAL:HB	34:Cg:192:PHE:HB2	1.75	0.68
36:A5:3053:G:O6	86:A5:3700:OHX:N6	2.26	0.68
86:A5:3458:OHX:N4	86:A5:3820:OHX:N3	2.40	0.68
23:AV:41:GLU:CD	23:AV:41:GLU:H	2.00	0.68
86:A1:3481:OHX:N6	86:A1:3742:OHX:N3	2.41	0.68
80:A6:139:C:H4'	80:A6:140:A:O5'	1.94	0.68
21:CT:16:ASN:OD1	21:CT:56:LYS:NZ	2.25	0.68
36:A5:1355:A:H4'	36:A5:1356:U:O5'	1.93	0.68
86:A5:3513:OHX:N5	86:A5:3666:OHX:N3	2.40	0.68
39:DA:204:MET:HE2	39:DA:209:HIS:HB2	1.75	0.68
52:DO:110[A]:PRO:O	52:DO:112[A]:TYR:N	2.26	0.68
1:A2:1339:C:O2'	1:A2:1340:U:OP1	2.12	0.68
1:A2:1449:U:H2'	1:A2:1450:U:C6	2.28	0.68
14:AM:61:VAL:HG13	14:AM:121:VAL:HG23	1.75	0.68
86:A1:3439:OHX:N4	86:A1:3802:OHX:N1	2.41	0.68
45:BG:67:ILE:HG22	45:BG:237:ILE:HB	1.75	0.68
80:A6:1429:G:H2'	80:A6:1430:U:C6	2.29	0.68
86:A6:1991:OHX:N3	10:CI:52:ASN:OD1	2.26	0.68
20:CS:68:ARG:HH11	20:CS:68:ARG:HG3	1.58	0.68
36:A5:1238:C:O2'	36:A5:1239:C:OP1	2.09	0.68
52:DO:121[B]:PRO:HA	52:DO:124[B]:LEU:HD22	1.76	0.68
6:AE:31:PRO:HG2	6:AE:38:LEU:HD13	1.76	0.68
8:AG:164:LYS:HB3	8:AG:167:LYS:HB3	1.75	0.68
25:AX:130:VAL:O	25:AX:131:SER:HB3	1.93	0.68
77:Bn:16:LYS:O	77:Bn:20:VAL:HG23	1.94	0.68
80:A6:837:G:O6	86:A6:1957:OHX:N1	2.26	0.68
41:DC:36:HIS:O	41:DC:40:THR:HG23	1.94	0.68
70:Dg:41:ARG:HG2	70:Dg:56:THR:HG21	1.76	0.68
1:A2:397:A:O3'	10:AI:50:GLY:HA2	1.94	0.68
11:AJ:163:PRO:O	11:AJ:165:GLY:N	2.26	0.68
11:AJ:169:PRO:HD2	11:AJ:174:ARG:HD2	1.76	0.68
36:A1:884:A:OP1	73:Bj:5:THR:HG23	1.94	0.68
58:BU:50:LEU:HB3	58:BU:54:VAL:HG23	1.76	0.68
11:CJ:171:ARG:HH11	11:CJ:174:ARG:HB3	1.57	0.68
36:A5:20:A:OP2	71:Dh:90:ARG:NH1	2.27	0.68
36:A5:1013:G:H2'	36:A5:1014:U:O4'	1.94	0.68
36:A5:3289:G:H2'	36:A5:3290:G:H8	1.59	0.68
86:A5:3509:OHX:N2	86:A5:3699:OHX:N1	2.41	0.68
41:DC:20:LEU:HD13	41:DC:256:THR:HG23	1.76	0.68
1:A2:38:C:H2'	1:A2:39:A:H5'	1.76	0.68
1:A2:582:U:H5''	1:A2:582:U:H6	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:764:U:O2'	36:A1:765:C:OP1	2.12	0.68
36:A1:2236:G:OP1	86:A1:3670:OHX:N6	2.26	0.68
36:A5:2957:G:H5'	36:A5:2957:G:H8	1.59	0.68
36:A5:3377:G:O6	86:A5:3601:OHX:N1	2.26	0.68
86:A5:3458:OHX:N6	86:A5:3820:OHX:N5	2.41	0.68
40:DB:283:TYR:HB3	40:DB:323:MET:HE2	1.76	0.68
44:DF:134:VAL:O	44:DF:229:PHE:HA	1.94	0.68
45:DG:86:THR:O	45:DG:90:THR:HG23	1.94	0.68
47:DI:99:ILE:HG13	47:DI:123:HIS:HB2	1.76	0.68
52:DO:110[A]:PRO:O	52:DO:113[A]:ASP:N	2.20	0.68
71:Dh:78:LYS:HA	71:Dh:81:ARG:HD3	1.76	0.68
57:BT:17:ARG:O	57:BT:18:ASP:HB2	1.93	0.68
70:Bg:41:ARG:HG2	70:Bg:56:THR:HG21	1.75	0.68
80:A6:1688:U:H2'	80:A6:1689:A:C8	2.29	0.68
68:De:91:THR:HG22	68:De:92:TYR:CD2	2.29	0.68
71:Dh:76:GLN:O	71:Dh:81:ARG:NH1	2.26	0.68
1:A2:386:G:OP2	10:AI:25:ARG:NH2	2.27	0.68
36:A1:1273:A:O2'	36:A1:1274:A:OP1	2.12	0.68
36:A1:2415:C:OP1	39:BA:2:GLY:HA2	1.94	0.68
86:A1:3481:OHX:N6	86:A1:3742:OHX:N5	2.41	0.68
46:BH:90:MET:HE3	46:BH:181:VAL:HG23	1.76	0.68
80:A6:1462:G:N7	20:CS:143:ARG:NH2	2.41	0.68
9:CH:173:TYR:CE1	9:CH:181:ILE:HD11	2.29	0.68
36:A5:2093:A:N6	55:DR:114:LYS:HD3	2.08	0.68
36:A5:2872:A:OP1	36:A5:2872:A:H4'	1.94	0.68
41:DC:300:ARG:HG2	41:DC:300:ARG:HH11	1.58	0.68
56:DS:9:VAL:HG22	56:DS:61:ILE:HD13	1.74	0.68
83:Dq:102:SER:OG	83:Dq:103:ASN:N	2.25	0.68
30:Ac:52:ASP:OD1	30:Ac:52:ASP:N	2.26	0.67
86:A1:3481:OHX:N2	86:A1:3742:OHX:N1	2.43	0.67
51:BN:190:THR:O	51:BN:194:GLN:HG2	1.94	0.67
80:A6:1386:G:OP2	19:CR:44:LYS:NZ	2.27	0.67
21:CT:28:LEU:O	21:CT:29:GLU:HB2	1.92	0.67
36:A5:3263:G:N7	86:A5:3634:OHX:N2	2.42	0.67
86:A5:3509:OHX:N5	86:A5:3699:OHX:N1	2.42	0.67
66:Dc:9:SER:OG	66:Dc:10:ILE:N	2.22	0.67
21:AT:52:GLY:O	21:AT:54:PHE:N	2.25	0.67
36:A1:837:A:OP1	79:Bp:5:THR:OG1	2.11	0.67
48:BJ:8:PRO:HG2	48:BJ:9:MET:HB3	1.75	0.67
80:A6:565:C:N3	86:A6:2054:OHX:N4	2.42	0.67
80:A6:1011:G:OP2	86:A6:1976:OHX:N3	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A6:1933:OHX:N5	86:A6:2071:OHX:N2	2.43	0.67
19:CR:50:ILE:O	19:CR:54:THR:HG23	1.93	0.67
36:A5:3216:G:OP2	69:Df:2:ALA:HB2	1.93	0.67
86:A5:3513:OHX:N5	86:A5:3666:OHX:N1	2.42	0.67
58:DU:19:VAL:O	58:DU:23:THR:OG1	2.11	0.67
66:Dc:26:GLY:O	66:Dc:30:THR:HG23	1.93	0.67
1:A2:838:G:O6	86:A2:2074:OHX:N2	2.28	0.67
30:Ac:36:THR:OG1	30:Ac:37:SER:N	2.28	0.67
36:A1:2946:A:H5''	36:A1:2947:G:H5'	1.75	0.67
45:BG:245:LYS:HZ3	45:BG:249:ARG:HH21	1.42	0.67
86:A5:3521:OHX:N2	86:A5:3809:OHX:N5	2.42	0.67
40:DB:139:GLN:O	40:DB:141:GLY:N	2.27	0.67
42:DD:187:THR:HG22	42:DD:189:GLU:HB2	1.76	0.67
1:A2:1199:G:O6	22:AU:67:THR:HG23	1.95	0.67
1:A2:1738:U:O4	86:A2:1919:OHX:N4	2.26	0.67
86:A2:1915:OHX:N4	86:A2:2074:OHX:N1	2.42	0.67
8:AG:67:VAL:HG21	8:AG:99:GLY:HA2	1.76	0.67
11:AJ:53:ARG:NH2	11:AJ:97:LEU:O	2.27	0.67
36:A1:781:G:N7	86:A1:3485:OHX:N5	2.43	0.67
86:A1:3542:OHX:N1	86:A1:3751:OHX:N3	2.41	0.67
40:BB:116:ARG:HG2	40:BB:175:LYS:HA	1.77	0.67
79:Bp:73:THR:HG22	79:Bp:76:ALA:H	1.59	0.67
86:A6:1940:OHX:N4	86:A6:2092:OHX:N6	2.42	0.67
7:CF:41:LYS:HZ2	18:CQ:112:TYR:HE2	1.42	0.67
17:CP:22:LEU:HA	17:CP:25:LEU:HB2	1.76	0.67
46:DH:188:THR:HG22	46:DH:189:GLU:HG2	1.75	0.67
56:DS:13:ARG:HG3	56:DS:13:ARG:NH1	2.08	0.67
1:A2:1619:C:OP2	86:A2:2076:OHX:N4	2.28	0.67
86:A2:1918:OHX:N2	86:A2:2067:OHX:N5	2.43	0.67
27:AZ:41:ILE:HG23	27:AZ:42:LEU:H	1.59	0.67
36:A1:1355:A:H4'	36:A1:1356:U:O5'	1.94	0.67
36:A1:3203:U:O4	86:A1:3762:OHX:N3	2.27	0.67
80:A6:800:U:H2'	80:A6:801:G:C8	2.30	0.67
34:Cg:128:ASP:OD1	34:Cg:130:THR:OG1	2.12	0.67
36:A5:947:G:H5'	68:De:55:ILE:HB	1.75	0.67
36:A5:1081:U:OP1	86:A5:3666:OHX:N3	2.28	0.67
36:A5:3228:C:O2'	36:A5:3229:G:OP2	2.11	0.67
36:A5:3295:A:H2'	36:A5:3296:A:C8	2.29	0.67
40:DB:221:THR:HG22	40:DB:273:HIS:H	1.60	0.67
1:A2:533:U:H4'	26:AY:33:ALA:HB2	1.77	0.67
1:A2:687:G:H5'	24:AW:119:LYS:HG2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:185:ARG:HA	23:AV:44:ARG:HA	1.77	0.67
7:AF:94:THR:HB	7:AF:114:ILE:HG13	1.77	0.67
9:AH:50:ASP:HA	9:AH:56:LYS:HA	1.76	0.67
9:AH:50:ASP:HB3	9:AH:56:LYS:HG2	1.75	0.67
11:AJ:109:LEU:HD13	11:AJ:129:ILE:HD13	1.75	0.67
25:AX:91:GLY:O	25:AX:93:LEU:N	2.25	0.67
36:A1:979:U:H1'	36:A1:980:A:C8	2.30	0.67
86:A1:3627:OHX:N1	72:Bi:28:TYR:O	2.27	0.67
46:BH:25:VAL:HG11	46:BH:78:MET:HE1	1.76	0.67
57:BT:54:HIS:CE1	57:BT:55:LYS:HD3	2.30	0.67
71:Bh:115:LYS:NZ	71:Bh:115:LYS:HB2	2.08	0.67
80:A6:1073:G:H2'	80:A6:1074:G:H5''	1.77	0.67
80:A6:1311:U:O4	86:A6:2098:OHX:N6	2.28	0.67
86:A5:3526:OHX:N6	86:A5:3739:OHX:N5	2.41	0.67
40:DB:299:ASP:OD1	40:DB:301:THR:HG23	1.94	0.67
42:DD:76:ALA:HB3	42:DD:109:THR:HG22	1.76	0.67
2:AA:10:THR:OG1	2:AA:13:ASP:OD2	2.13	0.67
6:AE:13:ALA:O	6:AE:39:ARG:NH2	2.27	0.67
36:A1:1117:G:OP1	65:Bb:4:SER:HB2	1.94	0.67
36:A1:3276:G:H1	69:Bf:60:ARG:NH2	1.93	0.67
55:BR:106:LEU:HB3	55:BR:120:TYR:CE1	2.29	0.67
80:A6:324:U:O2'	13:CL:80:MET:HE3	1.95	0.67
80:A6:1230:A:H2'	80:A6:1258:U:C5	2.30	0.67
80:A6:1366:U:O4	86:A6:2062:OHX:N3	2.28	0.67
31:Cd:19:ARG:HD3	31:Cd:32:ARG:HD2	1.76	0.67
36:A5:1239:C:H42	36:A5:1249:G:H1	1.41	0.67
36:A5:2244:A:H5''	39:DA:243:THR:OG1	1.95	0.67
36:A5:2996:U:H4'	36:A5:2996:U:OP1	1.95	0.67
86:A5:3489:OHX:N2	86:DA:302:OHX:N6	2.41	0.67
44:DF:178:ILE:HA	44:DF:183:ASP:HB3	1.77	0.67
36:A1:3049:A:H5'	36:A1:3049:A:C8	2.27	0.67
40:BB:173:GLN:O	40:BB:175:LYS:N	2.27	0.67
49:BL:24:VAL:HG21	49:BL:26:PHE:CE2	2.30	0.67
77:Bn:6:ARG:O	77:Bn:10:THR:HG23	1.95	0.67
80:A6:491:C:H42	80:A6:497:G:H21	1.42	0.67
80:A6:814:A:H2'	55:DR:170:ARG:HH12	1.59	0.67
80:A6:826:U:O4	86:A6:1922:OHX:N3	2.28	0.67
86:A6:1940:OHX:N1	86:A6:2092:OHX:N2	2.43	0.67
2:CA:184:LEU:O	2:CA:186:GLY:N	2.28	0.67
9:CH:40:PRO:HG2	9:CH:41:LEU:HD23	1.75	0.67
33:Cf:119:ARG:O	33:Cf:132:LEU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A5:3513:OHX:N2	86:A5:3666:OHX:N4	2.42	0.67
57:DT:51:GLY:HA3	57:DT:92:ARG:HG3	1.76	0.67
6:AE:85:GLY:N	6:AE:88:ASP:OD2	2.27	0.67
9:AH:38:LEU:HD23	9:AH:41:LEU:HD12	1.76	0.67
29:Ab:29:ARG:HG3	29:Ab:29:ARG:NH1	2.09	0.67
31:Ad:33:LYS:O	31:Ad:36:LEU:HD23	1.95	0.67
35:Ah:23:LYS:H	35:Ah:23:LYS:HD2	1.58	0.67
36:A1:3155:U:H3'	36:A1:3156:U:C4'	2.25	0.67
40:BB:41:VAL:CA	40:BB:185:GLY:HA3	2.21	0.67
11:CJ:8:TYR:O	86:CJ:201:OHX:N4	2.28	0.67
28:Ca:50:VAL:O	28:Ca:54:SER:N	2.27	0.67
34:Cg:216:LYS:HA	34:Cg:239:GLU:HG3	1.77	0.67
36:A5:252:U:H4'	36:A5:253:A:C5'	2.25	0.67
36:A5:1655:G:C5'	36:A5:1655:G:H8	2.08	0.67
38:A8:141:C:OP1	51:DN:109:ARG:NH1	2.27	0.67
68:De:40:SER:O	68:De:44:ARG:HG3	1.94	0.67
3:AB:76:SER:OG	3:AB:78:ASP:OD1	2.12	0.67
18:AQ:97:VAL:HG12	18:AQ:98:ASP:H	1.57	0.67
36:A1:715:A:H4'	36:A1:716:A:OP1	1.93	0.67
36:A1:2120:A:OP2	86:A1:3554:OHX:N2	2.28	0.67
41:BC:143:GLU:O	86:BC:401:OHX:N2	2.27	0.67
80:A6:753:A:H62	6:CE:187:ARG:HH22	1.42	0.67
80:A6:1491:U:H5'	80:A6:1492:A:OP1	1.95	0.67
80:A6:1584:G:H5''	18:CQ:122:ARG:HB3	1.76	0.67
6:CE:100:ARG:NH2	6:CE:122:LYS:HA	2.09	0.67
52:DO:12[B]:LYS:O	56:DS:167:ARG:NH2	2.28	0.67
55:DR:102:LEU:HD13	55:DR:127:SER:HB2	1.76	0.67
1:A2:730:G:O6	86:A2:2050:OHX:N4	2.28	0.66
36:A1:304:G:H5'	36:A1:304:G:N3	2.09	0.66
86:A1:3481:OHX:N4	86:A1:3742:OHX:N3	2.43	0.66
80:A6:1565:C:OP1	20:CS:41:ARG:HD3	1.94	0.66
10:CI:66:SER:HB3	10:CI:73:SER:OG	1.95	0.66
23:CV:9:VAL:HG22	23:CV:10:GLU:H	1.60	0.66
36:A5:1080:A:OP1	42:DD:140:ARG:HD3	1.95	0.66
36:A5:2667:A:H5'	36:A5:2667:A:C8	2.30	0.66
86:A5:3492:OHX:N6	86:A5:3737:OHX:N5	2.42	0.66
86:A5:3517:OHX:N5	44:DF:217:PRO:HA	2.10	0.66
86:A5:3532:OHX:N2	86:A5:3780:OHX:N6	2.43	0.66
1:A2:1507:G:O6	86:A2:2033:OHX:N5	2.28	0.66
36:A1:517:G:H5''	36:A1:517:G:C8	2.28	0.66
86:A1:3574:OHX:N2	86:A1:3706:OHX:N1	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BC:145:ILE:HD11	41:BC:148:ILE:HG13	1.77	0.66
43:BE:18:LEU:HD22	43:BE:18:LEU:H	1.60	0.66
45:BG:91:PHE:O	45:BG:95:ASN:HB2	1.95	0.66
80:A6:565:C:O2	86:A6:2015:OHX:N4	2.29	0.66
2:CA:190:ASP:C	2:CA:192:THR:H	2.03	0.66
16:CO:103:ARG:HH12	28:Ca:48:ALA:HB3	1.60	0.66
34:Cg:76:ASP:OD1	34:Cg:76:ASP:N	2.28	0.66
36:A5:249:U:O2'	36:A5:250:U:H5''	1.95	0.66
36:A5:2202:C:O4'	39:DA:224:THR:HG23	1.95	0.66
86:A5:3477:OHX:N3	86:A5:3779:OHX:N4	2.43	0.66
86:A5:3513:OHX:N2	86:A5:3666:OHX:N1	2.42	0.66
66:Dc:99:ASP:OD2	66:Dc:99:ASP:N	2.27	0.66
72:Di:54:GLU:HG2	72:Di:90:MET:HE1	1.76	0.66
1:A2:765:G:N3	11:AJ:149:ARG:NH1	2.42	0.66
1:A2:1267:G:H21	1:A2:1448:G:H5''	1.59	0.66
1:A2:1606:C:H2'	1:A2:1607:G:C8	2.31	0.66
36:A1:13:A:H5''	36:A1:13:A:H8	1.59	0.66
36:A1:1222:G:O2'	36:A1:1285:G:N1	2.16	0.66
42:BD:233:ALA:O	42:BD:235:SER:N	2.28	0.66
46:BH:20:ILE:HG13	50:BM:7:VAL:HG22	1.78	0.66
46:BH:75:VAL:HA	46:BH:78:MET:HE2	1.77	0.66
80:A6:653:C:N4	80:A6:677:G:H1	1.93	0.66
80:A6:914:G:H5'	80:A6:914:G:C8	2.30	0.66
80:A6:1160:A:H2'	80:A6:1161:C:C6	2.31	0.66
86:A6:1922:OHX:N6	86:A6:2100:OHX:N4	2.44	0.66
36:A5:1213:G:H4'	56:DS:90:MET:HG2	1.76	0.66
45:DG:148:ALA:HA	45:DG:201:THR:HG22	1.76	0.66
54:DQ:134:GLY:O	54:DQ:137:THR:OG1	2.11	0.66
62:DY:35:LEU:HD13	62:DY:39:LEU:HB3	1.77	0.66
69:Df:49:ILE:HG23	69:Df:100:ILE:HG13	1.78	0.66
1:A2:843:U:H2'	1:A2:844:A:C8	2.31	0.66
1:A2:1254:U:OP2	14:AM:46:ARG:NH1	2.28	0.66
1:A2:1756[B]:A:O2'	1:A2:1757:G:H5'	1.94	0.66
1:A2:1789:G:H5''	1:A2:1789:G:H8	1.60	0.66
2:AA:70:PRO:HB2	2:AA:94:GLY:HA3	1.77	0.66
36:A1:2280:A:P	86:A1:3671:OHX:N5	2.68	0.66
36:A1:2875:U:O4	86:A1:3757:OHX:N4	2.28	0.66
48:BJ:9:MET:HG3	48:BJ:9:MET:O	1.94	0.66
53:BP:32:THR:HG21	53:BP:87:SER:HB3	1.76	0.66
59:BV:81:GLN:O	59:BV:98:ASN:ND2	2.28	0.66
71:Bh:101:THR:HG22	71:Bh:104:GLN:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:417:A:H4'	80:A6:418:G:O5'	1.96	0.66
5:CD:222:VAL:HG11	34:Cg:229:LYS:HA	1.76	0.66
36:A5:420:G:O5'	36:A5:420:G:OP2	2.12	0.66
86:A5:3513:OHX:N6	86:A5:3666:OHX:N3	2.42	0.66
56:DS:137:ARG:HG2	56:DS:139:TYR:CE1	2.30	0.66
1:A2:169:A:H5''	8:AG:176:GLN:HG2	1.77	0.66
1:A2:1041:G:H2'	1:A2:1042:G:C8	2.30	0.66
1:A2:1592:A:H2'	1:A2:1593:A:H8	1.61	0.66
15:AN:27:LYS:H	15:AN:27:LYS:HE2	1.61	0.66
36:A1:807:A:H61	36:A1:934:G:H22	1.44	0.66
36:A1:1338:C:OP2	86:A1:3804:OHX:N2	2.28	0.66
36:A1:1409:G:N7	86:A1:3613:OHX:N3	2.43	0.66
36:A1:3276:G:O6	53:BP:171:ARG:NH1	2.28	0.66
86:A1:3506:OHX:N5	86:A1:3777:OHX:N3	2.42	0.66
7:CF:64:VAL:HG13	7:CF:89:ILE:HD11	1.78	0.66
36:A5:2586:G:N7	45:DG:241:LYS:HB2	2.09	0.66
47:DI:86:HIS:HB3	47:DI:139:ARG:HG2	1.77	0.66
1:A2:1686:C:H2'	1:A2:1687:U:O4'	1.96	0.66
36:A1:1234:G:O6	86:A1:3654:OHX:N6	2.29	0.66
36:A1:2397:A:O5'	36:A1:2398:A:H5'	1.95	0.66
44:BF:77:VAL:HG22	57:BT:139:ARG:HG2	1.77	0.66
47:BI:84:ALA:O	47:BI:140:THR:HG22	1.94	0.66
59:BV:40:LYS:HD3	59:BV:59:MET:HE2	1.76	0.66
68:Be:9:ILE:HG12	68:Be:63:THR:HB	1.78	0.66
80:A6:789:A:OP1	6:CE:108:ARG:NH2	2.29	0.66
14:CM:71:ILE:HD13	14:CM:72:ILE:HG13	1.75	0.66
36:A5:541:U:O4	86:A5:3528:OHX:N3	2.29	0.66
1:A2:356:G:OP2	86:A2:1914:OHX:N6	2.28	0.66
1:A2:992:A:H2	1:A2:1012:U:H3	1.38	0.66
1:A2:1310:U:O4	86:A2:2083:OHX:N3	2.28	0.66
36:A1:528:U:H2'	36:A1:529:A:C8	2.31	0.66
36:A1:1064:A:H4'	36:A1:1065:A:O5'	1.96	0.66
36:A1:1942:U:OP2	55:BR:74:ARG:NH1	2.21	0.66
86:A1:3497:OHX:N2	86:A1:3680:OHX:N5	2.42	0.66
40:BB:284:ARG:NH2	40:BB:295:ALA:O	2.29	0.66
48:BJ:85:LYS:O	48:BJ:88:GLU:N	2.28	0.66
51:BN:58:GLY:HA3	51:BN:142:ILE:CD1	2.26	0.66
63:BZ:53:VAL:HA	63:BZ:57:HIS:HD2	1.61	0.66
80:A6:66:U:H4'	80:A6:67:A:OP1	1.94	0.66
80:A6:747:C:OP2	86:A6:2090:OHX:N5	2.29	0.66
2:CA:79:ARG:NH1	2:CA:164:ASN:O	2.18	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CB:77:GLU:OE1	16:CO:114:ARG:NH2	2.28	0.66
5:CD:179:GLN:OE1	5:CD:180:GLY:N	2.29	0.66
6:CE:49:ARG:HG3	6:CE:50:ASN:N	2.10	0.66
16:CO:87:GLY:HA3	16:CO:120:PRO:HG2	1.78	0.66
19:CR:105:GLN:O	19:CR:109:LEU:N	2.28	0.66
22:CU:36:ASN:HA	22:CU:39:SER:HB2	1.77	0.66
25:CX:97:ASP:O	25:CX:100:ASP:HB2	1.96	0.66
37:A7:1:G:O2'	42:DD:270:LYS:HB3	1.95	0.66
37:A7:91:G:H2'	37:A7:92:A:C8	2.30	0.66
50:DM:48:GLY:HA3	50:DM:53:VAL:HG13	1.78	0.66
1:A2:740:A:H2'	1:A2:741:C:H5''	1.77	0.66
3:AB:70:LEU:O	3:AB:74:GLN:N	2.28	0.66
12:AK:56:LYS:HG3	12:AK:67:THR:HB	1.78	0.66
16:AO:81:VAL:H	16:AO:115:ILE:HG22	1.61	0.66
36:A1:595:G:N1	36:A1:609:G:H5''	2.11	0.66
36:A1:770:G:O6	86:A1:3774:OHX:N3	2.28	0.66
36:A1:916:G:H5'	36:A1:917:A:OP1	1.95	0.66
36:A1:3078:U:H4'	36:A1:3079:U:O5'	1.95	0.66
40:BB:53:MET:HE2	40:BB:77:THR:HG22	1.78	0.66
41:BC:47:ARG:NH1	41:BC:109:TRP:O	2.29	0.66
45:BG:74:THR:HB	45:BG:230:LYS:HZ2	1.59	0.66
56:BS:23:LYS:O	57:BT:146:ASN:ND2	2.21	0.66
80:A6:1017:U:H2'	80:A6:1018:U:C6	2.31	0.66
6:CE:95:THR:HG23	6:CE:97:GLU:CG	2.25	0.66
15:CN:151:ASN:O	86:CN:201:OHX:N3	2.29	0.66
17:CP:18:ARG:HD3	20:CS:90:ASN:ND2	2.11	0.66
36:A5:2204:C:H4'	36:A5:2205:U:OP1	1.95	0.66
51:DN:182:ASN:O	51:DN:183:THR:HG22	1.96	0.66
1:A2:1518:C:OP1	86:A2:2002:OHX:N5	2.29	0.66
1:A2:1688:U:H2'	1:A2:1689:A:C8	2.31	0.66
2:AA:71:GLU:O	2:AA:96:THR:HG22	1.95	0.66
24:AW:47:ILE:HG22	24:AW:65:LEU:HB3	1.76	0.66
40:BB:339:ARG:HG2	40:BB:340:LYS:O	1.95	0.66
63:BZ:95:VAL:HG21	63:BZ:113:VAL:HG11	1.78	0.66
80:A6:159:U:O2'	8:CG:87:ARG:NH1	2.27	0.66
80:A6:683:C:H5'	80:A6:684:A:OP2	1.96	0.66
86:A5:3458:OHX:N2	86:A5:3820:OHX:N5	2.43	0.66
38:A8:79:A:H3'	38:A8:80:A:C8	2.31	0.66
39:DA:116:VAL:HG13	39:DA:126:LEU:HB2	1.76	0.66
63:DZ:3:LYS:HE3	63:DZ:5:LEU:HD12	1.78	0.66
1:A2:205:U:O4	86:A2:1946:OHX:N3	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:422:G:N7	86:A2:1987:OHX:N5	2.44	0.66
24:AW:27:ILE:HG12	24:AW:61:ILE:HB	1.77	0.66
36:A1:1233:G:O6	86:A1:3654:OHX:N2	2.29	0.66
36:A1:1235:U:H4'	36:A1:1236:G:H5'	1.76	0.66
36:A1:1427:U:OP2	64:Ba:4:ARG:NH2	2.25	0.66
36:A1:1844:C:H2'	36:A1:1845:G:H5''	1.76	0.66
45:BG:74:THR:HB	45:BG:230:LYS:NZ	2.10	0.66
71:Bh:92:LEU:HB3	71:Bh:96:GLU:O	1.96	0.66
80:A6:235:G:H2'	80:A6:236:A:C8	2.31	0.66
80:A6:767:U:H5	11:CJ:142:ASN:ND2	1.94	0.66
80:A6:1533:C:H4'	80:A6:1539:G:N1	2.11	0.66
80:A6:1796:C:OP2	28:Ca:5:ARG:NH1	2.28	0.66
8:CG:48:TYR:CZ	8:CG:121:LEU:HD22	2.30	0.66
11:CJ:117:GLY:O	11:CJ:119:ALA:N	2.28	0.66
34:Cg:89:LEU:HB2	34:Cg:103:PHE:HB2	1.78	0.66
36:A5:2569:A:H4'	36:A5:2570:U:H5'	1.78	0.66
36:A5:2777:G:C8	36:A5:2777:G:H5''	2.31	0.66
36:A5:3294:A:OP2	40:DB:126:LYS:NZ	2.29	0.66
86:A5:3461:OHX:N4	86:A5:3772:OHX:N6	2.43	0.66
40:DB:308:MET:HE2	40:DB:372:THR:C	2.20	0.66
55:DR:84:THR:O	55:DR:88:ARG:HG2	1.96	0.66
56:DS:26:ARG:HH11	57:DT:150:THR:HG21	1.61	0.66
1:A2:901:G:N2	16:AO:54:GLU:OE1	2.29	0.65
1:A2:959:U:H6	15:AN:61:THR:HB	1.59	0.65
20:AS:11:PHE:CE2	20:AS:59:GLY:HA2	2.32	0.65
36:A1:1577:G:H2'	36:A1:1578:C:O4'	1.97	0.65
36:A1:1581:C:C2'	36:A1:1582:C:H5''	2.24	0.65
36:A1:2814:G:N7	86:A1:3738:OHX:N3	2.44	0.65
86:A6:1940:OHX:N3	86:A6:2092:OHX:N6	2.44	0.65
31:Cd:19:ARG:HD3	31:Cd:32:ARG:CD	2.26	0.65
36:A5:1097:G:H4'	57:DT:129:LYS:HB3	1.78	0.65
36:A5:1241:U:O2'	36:A5:1242:G:O5'	2.14	0.65
36:A5:2258:U:OP2	86:A5:3463:OHX:N4	2.29	0.65
36:A5:2549:G:C8	36:A5:2549:G:H5'	2.31	0.65
51:DN:80:THR:HG21	51:DN:87:GLN:HA	1.78	0.65
1:A2:61:A:H8	1:A2:269:G:HO2'	1.40	0.65
1:A2:836:U:OP1	86:A2:2079:OHX:N2	2.30	0.65
1:A2:1537:C:N3	86:A2:2048:OHX:N3	2.43	0.65
21:AT:30:VAL:O	21:AT:32:GLY:N	2.29	0.65
25:AX:96:VAL:HG23	25:AX:97:ASP:H	1.60	0.65
36:A1:73:C:C2	49:BL:59:ARG:HD3	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:558:U:H4'	36:A1:559:A:OP2	1.95	0.65
86:A1:3549:OHX:N3	86:A1:3735:OHX:N5	2.45	0.65
42:BD:144:VAL:HG12	42:BD:173:VAL:HG22	1.77	0.65
80:A6:759:U:OP1	86:CJ:201:OHX:N2	2.29	0.65
2:CA:122:ILE:HG23	2:CA:144:ILE:HB	1.78	0.65
18:CQ:114:ARG:O	18:CQ:115:THR:HB	1.96	0.65
36:A5:70:A:H5'	64:Da:64:GLN:HE22	1.61	0.65
36:A5:618:C:H2'	36:A5:619:A:C8	2.31	0.65
36:A5:1481:A:OP1	36:A5:1481:A:O4'	2.12	0.65
36:A5:1686:U:O4	58:DU:82:LYS:NZ	2.28	0.65
36:A5:2103:U:H2'	36:A5:2104:A:C8	2.31	0.65
36:A5:3155:U:H4'	36:A5:3156:U:OP2	1.93	0.65
86:A5:3532:OHX:N2	86:A5:3780:OHX:N5	2.45	0.65
41:DC:339:LEU:HA	41:DC:342:LYS:HB3	1.79	0.65
71:Dh:39:PRO:O	71:Dh:40:SER:HB3	1.96	0.65
1:A2:765:G:N1	11:AJ:149:ARG:HB3	2.11	0.65
1:A2:1446:A:P	86:A2:2086:OHX:N2	2.70	0.65
1:A2:1536:G:C5	1:A2:1538:U:H1'	2.32	0.65
27:AZ:59:TYR:HE2	27:AZ:61:SER:HB3	1.61	0.65
36:A1:1478:C:H2'	36:A1:1479:U:H6	1.61	0.65
45:BG:163:VAL:HG22	45:BG:166:LEU:HD12	1.78	0.65
56:BS:82:ASP:OD1	56:BS:87:THR:HB	1.96	0.65
5:CD:202:LEU:HD22	5:CD:202:LEU:H	1.61	0.65
36:A5:304:G:N3	36:A5:304:G:H5'	2.10	0.65
36:A5:892:U:C2'	36:A5:893:C:H5'	2.26	0.65
36:A5:2588:U:OP1	45:DG:48:ARG:NH2	2.28	0.65
45:DG:100:GLU:OE1	45:DG:108:ARG:NH1	2.30	0.65
48:DJ:9:MET:O	48:DJ:11:ASP:N	2.29	0.65
1:A2:711:U:H1'	1:A2:712:G:H5'	1.78	0.65
36:A1:1240:A:H61	36:A1:1244:A:H5''	1.60	0.65
80:A6:1490:C:O2'	80:A6:1491:U:O2	2.14	0.65
26:CY:15:ASN:OD1	26:CY:17:LEU:HB2	1.96	0.65
42:DD:270:LYS:O	42:DD:273:ARG:HB3	1.96	0.65
65:Db:23:LYS:HB3	65:Db:24:PRO:CD	2.25	0.65
1:A2:1034:C:HO2'	24:AW:2:THR:N	1.93	0.65
33:Af:126:CYS:O	33:Af:128:ALA:N	2.28	0.65
80:A6:218:A:H2'	80:A6:219:A:H5''	1.79	0.65
11:CJ:149:ARG:HH11	11:CJ:149:ARG:HG3	1.62	0.65
36:A5:2361:A:OP2	86:A5:3695:OHX:N2	2.29	0.65
42:DD:40:HIS:CD2	42:DD:42:ALA:H	2.11	0.65
63:DZ:25:ILE:HA	63:DZ:43:VAL:HG12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1429:G:C1'	22:AU:74:GLU:HG2	2.27	0.65
1:A2:1550:A:OP2	17:AP:42:ARG:NH2	2.27	0.65
3:AB:206:PRO:O	3:AB:207:LEU:HB2	1.95	0.65
6:AE:212:ASP:OD2	6:AE:216:ASN:HB2	1.97	0.65
21:AT:117:SER:HB2	21:AT:123:ARG:HB2	1.77	0.65
36:A1:1919:G:N7	86:A1:3559:OHX:N5	2.44	0.65
9:CH:30:SER:HB2	9:CH:34:LEU:HB2	1.78	0.65
36:A5:75:G:H5''	49:DL:58:VAL:HG13	1.79	0.65
36:A5:118:U:O2	36:A5:121:A:H5'	1.96	0.65
36:A5:900:G:H1'	36:A5:1589:A:N6	2.12	0.65
36:A5:1579:C:H5''	39:DA:68:LYS:NZ	2.11	0.65
62:DY:52:ARG:HA	62:DY:70:ILE:HG22	1.77	0.65
75:DL:10:LYS:HA	75:DL:13:MET:HE3	1.79	0.65
1:A2:702:G:O6	1:A2:736:C:N4	2.19	0.65
1:A2:819:G:O2'	1:A2:820:U:H5'	1.96	0.65
34:Ag:300:THR:HG23	34:Ag:314:GLN:HG3	1.76	0.65
36:A1:1243:G:N2	36:A1:1244:A:N7	2.44	0.65
36:A1:2107:A:H2	36:A1:3344:A:C8	2.14	0.65
36:A1:2206:G:H1	36:A1:2237:C:H42	1.45	0.65
36:A1:2683:U:H2'	36:A1:2684:C:C6	2.32	0.65
86:A1:3496:OHX:N1	86:A1:3650:OHX:N5	2.44	0.65
80:A6:741:C:O2	9:CH:107:ARG:NH2	2.30	0.65
80:A6:755:A:O2'	80:A6:756:A:OP1	2.14	0.65
86:A6:1940:OHX:N4	86:A6:2092:OHX:N2	2.44	0.65
5:CD:3:ALA:O	5:CD:4:LEU:HB2	1.94	0.65
36:A5:3212:C:OP2	50:DM:124:ARG:NH2	2.30	0.65
38:A8:77:A:H2'	38:A8:78:G:O4'	1.96	0.65
41:DC:20:LEU:HD11	41:DC:252:GLU:HG3	1.78	0.65
52:DO:88[A]:VAL:O	52:DO:90[A]:HIS:N	2.30	0.65
77:Dn:9:ARG:HG3	77:Dn:9:ARG:HH11	1.61	0.65
1:A2:895:G:H1	1:A2:917:U:H3	1.45	0.65
1:A2:901:G:H22	16:AO:54:GLU:CD	2.04	0.65
34:Ag:195:HIS:CD2	34:Ag:199:ILE:HD13	2.32	0.65
36:A1:2561:A:N1	45:BG:32:LYS:HB2	2.12	0.65
39:BA:14:SER:OG	39:BA:15:ILE:N	2.28	0.65
48:BJ:15:GLU:HG2	48:BJ:16:LYS:HD3	1.78	0.65
58:BU:49:ASN:O	58:BU:49:ASN:ND2	2.25	0.65
80:A6:521:A:O2'	26:CY:34:ASN:ND2	2.30	0.65
3:CB:82:ARG:NH1	3:CB:191:GLU:OE2	2.29	0.65
20:CS:90:ASN:ND2	20:CS:90:ASN:O	2.29	0.65
36:A5:799:G:O6	86:A5:3543:OHX:N4	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:1085:A:C5'	36:A5:1085:A:H8	2.10	0.65
36:A5:1818:U:H2'	36:A5:1819:U:C6	2.32	0.65
36:A5:2682:C:O2'	36:A5:2683:U:OP1	2.15	0.65
86:A5:3509:OHX:N6	86:A5:3699:OHX:N3	2.44	0.65
86:A5:3580:OHX:N3	86:A5:3660:OHX:N6	2.45	0.65
56:DS:137:ARG:HG2	56:DS:139:TYR:CZ	2.32	0.65
1:A2:1339:C:O2'	1:A2:1341:A:N7	2.30	0.65
11:AJ:96:VAL:HA	11:AJ:99:LEU:HD22	1.78	0.65
36:A1:2273:G:O6	86:A1:3697:OHX:N5	2.29	0.65
36:A1:2573:G:O6	86:A1:3543:OHX:N3	2.30	0.65
36:A1:3389:U:O2'	36:A1:3390:G:OP2	2.14	0.65
42:BD:294:ALA:O	42:BD:296:GLN:N	2.30	0.65
7:CF:92:ARG:NH2	7:CF:169:ASN:OD1	2.30	0.65
36:A5:2433:U:H1'	51:DN:125:SER:HB3	1.79	0.65
40:DB:117:ARG:HA	40:DB:175:LYS:HD3	1.78	0.65
46:DH:12:VAL:HG13	46:DH:16:VAL:HG22	1.79	0.65
1:A2:118:U:O4	86:A2:2047:OHX:N5	2.29	0.65
1:A2:647:G:N2	1:A2:687:G:H22	1.95	0.65
5:AD:53:THR:O	5:AD:53:THR:OG1	2.08	0.65
13:AL:6:THR:O	13:AL:8:GLN:N	2.30	0.65
18:AQ:95:LYS:O	34:Ag:59:ARG:NH2	2.30	0.65
32:Ae:14:VAL:O	32:Ae:18:THR:HG23	1.97	0.65
36:A1:3215:A:O5'	50:BM:121:MET:HE1	1.97	0.65
86:A1:3497:OHX:N4	86:A1:3680:OHX:N6	2.45	0.65
80:A6:797:G:OP2	86:A6:2090:OHX:N1	2.29	0.65
4:CC:56:ILE:HG23	4:CC:61:LEU:HB2	1.79	0.65
20:CS:83:ALA:O	20:CS:89:GLN:NE2	2.30	0.65
36:A5:284:A:OP2	78:Do:41:ARG:NH1	2.24	0.65
36:A5:2418:G:O6	86:A5:3790:OHX:N2	2.30	0.65
46:DH:90:MET:HB2	46:DH:144:ILE:HG22	1.79	0.65
58:DU:47:VAL:O	58:DU:49:ASN:N	2.29	0.65
1:A2:637:C:O2	9:AH:114:ARG:NH2	2.30	0.64
1:A2:1291:G:N2	1:A2:1324:G:N2	2.45	0.64
1:A2:1735:U:OP2	59:BV:32:ARG:NH1	2.30	0.64
19:AR:47:ARG:NH1	19:AR:48:ASN:OD1	2.29	0.64
36:A1:1876:U:H5''	36:A1:1876:U:H6	1.63	0.64
40:BB:293:ASN:HB2	40:BB:304:THR:HA	1.80	0.64
45:BG:75:ILE:HG22	45:BG:76:ALA:H	1.60	0.64
80:A6:205:U:O4	86:A6:1984:OHX:N6	2.30	0.64
80:A6:828:U:H2'	80:A6:829:A:H5''	1.79	0.64
80:A6:1506:G:O6	86:A6:2086:OHX:N3	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:1769:U:OP2	86:A6:1999:OHX:N2	2.29	0.64
13:CL:132:SER:O	13:CL:132:SER:OG	1.98	0.64
36:A5:1659:U:H2'	36:A5:1660:C:C6	2.32	0.64
55:DR:35:ALA:O	55:DR:36:ASN:ND2	2.29	0.64
1:A2:1015:U:H5''	1:A2:1016:C:OP2	1.98	0.64
4:AC:162:CYS:HA	86:AC:301:OHX:N5	2.12	0.64
12:AK:8:ARG:HD2	12:AK:12:HIS:HE1	1.63	0.64
36:A1:799:G:O6	86:A1:3525:OHX:N5	2.30	0.64
36:A1:1233:G:N2	36:A1:1255:C:N3	2.40	0.64
36:A1:3259:U:H6	36:A1:3259:U:H5'	1.63	0.64
86:A1:3481:OHX:N4	86:A1:3742:OHX:N1	2.45	0.64
67:Bd:13:THR:CG2	67:Bd:72:ARG:HH11	2.11	0.64
80:A6:230:C:N4	80:A6:235:G:H1	1.94	0.64
80:A6:677:G:H4'	80:A6:678:A:H5'	1.79	0.64
25:CX:50:LYS:HG2	25:CX:77:ILE:HD12	1.79	0.64
33:Cf:139:LEU:H	33:Cf:151:ASN:HB3	1.61	0.64
36:A5:173:G:HO2'	36:A5:174:C:H6	1.42	0.64
36:A5:860:G:O5'	39:DA:181:LYS:NZ	2.30	0.64
36:A5:1370:G:H5''	64:Da:18:GLY:O	1.98	0.64
36:A5:3192:U:O4	86:A5:3661:OHX:N2	2.31	0.64
48:DJ:60:ARG:NH1	78:Do:104:LEU:O	2.27	0.64
1:A2:418:G:O2'	8:AG:59:GLN:NE2	2.27	0.64
1:A2:1686:C:C2'	1:A2:1687:U:O4'	2.45	0.64
36:A1:1352:A:H4'	36:A1:1353:U:OP1	1.97	0.64
46:BH:9:GLN:HG2	46:BH:52:LEU:HD21	1.78	0.64
63:BZ:50:PRO:HD3	63:BZ:68:ILE:HG12	1.78	0.64
66:Bc:26:GLY:O	66:Bc:30:THR:HG23	1.97	0.64
80:A6:339:C:OP2	10:CI:10:LYS:NZ	2.30	0.64
80:A6:1600:A:H4'	80:A6:1601:G:OP1	1.98	0.64
9:CH:89:HIS:CG	9:CH:165:LYS:HG2	2.32	0.64
36:A5:2436:U:H3	36:A5:2511:A:N6	1.96	0.64
51:DN:143:ARG:HH21	71:Dh:92:LEU:HA	1.61	0.64
74:Dk:46:ARG:NH1	74:Dk:47:GLY:O	2.30	0.64
2:AA:168:HIS:HB3	2:AA:203:PHE:CZ	2.32	0.64
11:AJ:99:LEU:O	11:AJ:100:LYS:HB3	1.96	0.64
36:A1:1941:C:OP2	55:BR:74:ARG:HG2	1.97	0.64
36:A1:3138:U:C2'	36:A1:3139:A:H5''	2.27	0.64
36:A1:3319:U:O2'	36:A1:3320:A:OP1	2.14	0.64
39:BA:83:HIS:CE1	39:BA:86:GLN:HB2	2.32	0.64
44:BF:121:LYS:HB2	57:BT:133:ALA:HB3	1.80	0.64
55:BR:166:ASN:OD1	55:BR:170:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:443:C:OP2	26:CY:105:ARG:HB2	1.98	0.64
80:A6:815:G:H5'	80:A6:815:G:C8	2.32	0.64
80:A6:1234:A:O2'	80:A6:1235:C:O5'	2.14	0.64
10:CI:36:THR:HB	10:CI:57:ALA:O	1.98	0.64
28:Ca:87:ARG:HB3	28:Ca:91:ASP:HB2	1.79	0.64
33:Cf:144:CYS:HB3	33:Cf:147:VAL:HG13	1.80	0.64
1:A2:158:U:O2'	1:A2:159:U:H3'	1.98	0.64
1:A2:1498:G:C2'	1:A2:1499:G:H5'	2.28	0.64
1:A2:1585:U:N3	1:A2:1611:A:H2	1.81	0.64
17:AP:57:MET:HE1	17:AP:89:MET:HE3	1.78	0.64
30:Ac:10:ALA:HA	30:Ac:32:PHE:HA	1.78	0.64
36:A1:1240:A:H2	36:A1:1248:C:H41	1.44	0.64
36:A1:1273:A:H2'	36:A1:1274:A:H8	1.63	0.64
36:A1:2818:U:H5'	36:A1:2818:U:C6	2.30	0.64
36:A1:3243:A:H4'	40:BB:95:THR:HG22	1.79	0.64
39:BA:45:VAL:HG22	39:BA:84:THR:HA	1.78	0.64
80:A6:667:N:H4'	80:A6:668:N:OP1	1.97	0.64
80:A6:1241:G:P	17:CP:77:ARG:HH12	2.20	0.64
2:CA:9:LEU:HD11	2:CA:14:ALA:HB2	1.80	0.64
86:A5:3533:OHX:N3	86:DG:301:OHX:N6	2.45	0.64
42:DD:106:ALA:O	42:DD:110:LEU:HD22	1.97	0.64
64:Da:3:SER:O	64:Da:6:THR:HB	1.97	0.64
1:A2:867:G:H5'	15:AN:4:MET:HE3	1.79	0.64
1:A2:1459:C:OP1	20:AS:126:ARG:NH2	2.28	0.64
29:Ab:62:ILE:HG13	29:Ab:63:LEU:H	1.62	0.64
36:A1:2790:A:OP2	54:BQ:181:SER:HB3	1.97	0.64
38:A4:85:G:C8	38:A4:85:G:H3'	2.32	0.64
41:BC:338:LYS:O	41:BC:340:GLY:N	2.31	0.64
80:A6:197:A:H2'	80:A6:198:A:C8	2.33	0.64
4:CC:67:GLN:HA	4:CC:70:ASP:HB2	1.80	0.64
17:CP:33:PHE:O	17:CP:36:LEU:HD22	1.97	0.64
24:CW:55:ASP:O	24:CW:57:ARG:N	2.31	0.64
36:A5:552:G:O6	86:A5:3511:OHX:N5	2.30	0.64
36:A5:1560:G:O2'	36:A5:1561:G:OP1	2.12	0.64
86:A5:3580:OHX:N1	86:A5:3660:OHX:N4	2.46	0.64
86:A5:3591:OHX:N2	86:A5:3812:OHX:N6	2.46	0.64
45:DG:161:GLU:HA	45:DG:164:VAL:HG22	1.80	0.64
49:DL:56:PRO:HG3	49:DL:74:GLY:O	1.98	0.64
1:A2:66:U:H5	8:AG:173:PRO:HG3	1.63	0.64
1:A2:656:G:O2'	1:A2:657:U:O4'	2.15	0.64
7:AF:152:GLY:O	7:AF:154:ALA:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AY:91:LEU:HA	26:AY:96:LEU:HD12	1.80	0.64
36:A1:3358:U:H2'	36:A1:3359:A:O4'	1.98	0.64
49:BL:165:SER:HB3	49:BL:168:ARG:HB3	1.79	0.64
80:A6:123:G:N2	6:CE:146:THR:HG21	2.12	0.64
80:A6:1183:A:C4	17:CP:100:LYS:HD3	2.32	0.64
80:A6:1626:U:OP1	86:A6:2071:OHX:N3	2.30	0.64
11:CJ:151:ASP:OD1	11:CJ:151:ASP:N	2.30	0.64
18:CQ:83:GLN:HE21	18:CQ:115:THR:CG2	2.10	0.64
34:Cg:234:LEU:HD23	34:Cg:263:PHE:CD1	2.32	0.64
36:A5:2403:G:N7	36:A5:2870:C:H4'	2.12	0.64
86:A5:3509:OHX:N5	86:A5:3699:OHX:N3	2.45	0.64
70:Dg:58:ARG:HG3	70:Dg:59:PRO:HD2	1.80	0.64
71:Dh:62:GLN:O	71:Dh:66:VAL:HG23	1.97	0.64
78:Do:105:GLN:HB2	78:Do:106:PHE:CD1	2.33	0.64
24:AW:70:ASN:ND2	24:AW:130:TYR:O	2.29	0.64
28:Aa:37:LYS:O	28:Aa:38:ARG:HD2	1.98	0.64
36:A1:3166:C:H42	36:A1:3284:G:H1	1.43	0.64
45:BG:45:ASN:ND2	45:BG:47:SER:HB3	2.12	0.64
80:A6:639:U:OP2	9:CH:119:THR:HG23	1.98	0.64
80:A6:753:A:H62	6:CE:187:ARG:NH2	1.95	0.64
80:A6:800:U:H2'	80:A6:801:G:H8	1.62	0.64
86:A6:1922:OHX:N3	86:A6:2100:OHX:N4	2.46	0.64
86:A6:1933:OHX:N5	86:A6:2071:OHX:N1	2.44	0.64
86:A6:1951:OHX:N5	86:A6:2090:OHX:N2	2.46	0.64
3:CB:178:GLY:O	3:CB:179:SER:HB2	1.98	0.64
16:CO:81:VAL:HG22	16:CO:115:ILE:HG23	1.79	0.64
36:A5:1537:A:OP2	86:A5:3521:OHX:N1	2.31	0.64
36:A5:2875:U:O4	86:A5:3667:OHX:N3	2.31	0.64
86:A5:3473:OHX:N4	86:A5:3680:OHX:N6	2.45	0.64
12:AK:8:ARG:HD2	12:AK:12:HIS:CE1	2.33	0.64
36:A1:541:U:O4	86:A1:3816:OHX:N6	2.31	0.64
36:A1:1374:G:O6	64:Ba:10:LYS:NZ	2.26	0.64
36:A1:2155:G:O2'	39:BA:227:ARG:NH2	2.31	0.64
36:A1:3174:A:H2'	36:A1:3175:U:H5'	1.80	0.64
44:BF:143:THR:HG21	44:BF:237:ASN:HB3	1.80	0.64
17:CP:86:VAL:HG22	17:CP:89:MET:HE3	1.78	0.64
36:A5:247:C:C2	36:A5:248:U:H1'	2.33	0.64
36:A5:497:C:O3'	69:Df:86:ARG:NH2	2.30	0.64
36:A5:2970:C:O2'	36:A5:2971:A:OP2	2.16	0.64
86:A5:3533:OHX:N1	86:DG:301:OHX:N4	2.46	0.64
51:DN:68:ARG:HA	51:DN:98:LEU:HD21	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:279:G:C3'	1:A2:280:U:H5''	2.28	0.64
1:A2:470:A:H5''	1:A2:470:A:C8	2.33	0.64
1:A2:1202:A:N6	1:A2:1457:C:H5''	2.13	0.64
1:A2:1479:A:OP1	21:AT:57:ARG:NH1	2.31	0.64
1:A2:1762:A:H1'	1:A2:1783:C:H5'	1.80	0.64
5:AD:114:ALA:HB3	5:AD:117:ARG:HB2	1.80	0.64
28:Aa:84:VAL:O	28:Aa:86:VAL:N	2.29	0.64
34:Ag:216:LYS:HA	34:Ag:239:GLU:HG3	1.80	0.64
36:A1:1658:G:H2'	36:A1:1659:U:C6	2.32	0.64
86:A1:3414:OHX:N2	86:A1:3812:OHX:N4	2.45	0.64
63:BZ:70:PRO:HG3	63:BZ:115:LYS:HB2	1.80	0.64
36:A5:1819:U:O4	86:A5:3564:OHX:N3	2.31	0.64
62:DY:112:ASP:HB3	62:DY:115:ARG:HB2	1.80	0.64
1:A2:562:G:OP2	86:A2:2027:OHX:N5	2.31	0.63
1:A2:753:A:H5'	6:AE:221:ARG:HG3	1.80	0.63
18:AQ:115:THR:O	18:AQ:117:LEU:N	2.31	0.63
86:A1:3497:OHX:N1	86:A1:3680:OHX:N5	2.45	0.63
86:A1:3549:OHX:N3	86:A1:3735:OHX:N1	2.45	0.63
46:BH:28:VAL:HG22	46:BH:33:THR:HB	1.78	0.63
56:BS:137:ARG:HG2	56:BS:139:TYR:CE1	2.32	0.63
80:A6:66:U:O2'	80:A6:67:A:H5''	1.98	0.63
80:A6:833:U:O4	86:A6:1957:OHX:N2	2.30	0.63
80:A6:1097:U:H4'	80:A6:1098:U:H5'	1.79	0.63
28:Ca:87:ARG:NH2	28:Ca:94:ASN:O	2.31	0.63
36:A5:239:G:N7	86:A5:3647:OHX:N5	2.46	0.63
42:DD:211:LEU:HD13	42:DD:219:PHE:HA	1.80	0.63
70:Dg:65:VAL:HG12	70:Dg:70:LYS:HE2	1.80	0.63
74:Dk:22:THR:HG22	74:Dk:74:LYS:HB3	1.80	0.63
1:A2:9:U:O4	86:A2:2049:OHX:N6	2.32	0.63
1:A2:497:G:H4'	1:A2:498:G:OP1	1.97	0.63
2:AA:183:ARG:NH2	2:AA:191:ARG:O	2.31	0.63
15:AN:54:LEU:HB3	15:AN:60:VAL:HG21	1.79	0.63
34:Ag:90:ARG:NH1	34:Ag:99:THR:OG1	2.31	0.63
36:A1:742:G:O6	86:A1:3519:OHX:N1	2.31	0.63
36:A1:817:A:OP2	86:A1:3800:OHX:N3	2.31	0.63
86:A1:3481:OHX:N2	86:A1:3742:OHX:N5	2.46	0.63
49:BL:73:ARG:HG3	49:BL:73:ARG:HH21	1.63	0.63
80:A6:25:C:O2	86:A6:1964:OHX:N6	2.31	0.63
86:A6:1940:OHX:N3	86:A6:2092:OHX:N5	2.46	0.63
18:CQ:55:VAL:HG21	18:CQ:105:LEU:HG	1.79	0.63
36:A5:3152:U:O2	86:A5:3778:OHX:N5	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A5:3610:OHX:N5	86:A5:3814:OHX:N2	2.47	0.63
75:DI:5:LYS:HD3	75:DI:13:MET:HE1	1.79	0.63
1:A2:138:A:O2'	8:AG:149:LYS:NZ	2.31	0.63
1:A2:1623:C:H2'	1:A2:1624:C:C6	2.34	0.63
1:A2:1689:A:H2'	1:A2:1690:G:H8	1.64	0.63
3:AB:77:GLU:OE1	16:AO:114:ARG:NH2	2.30	0.63
6:AE:185:GLY:N	6:AE:189:LEU:HD13	2.14	0.63
6:AE:259:GLN:O	6:AE:261:LEU:N	2.31	0.63
25:AX:92:CYS:HG	25:AX:136:TRP:CD1	2.16	0.63
30:Ac:42:ARG:HH11	30:Ac:56:LEU:HD22	1.63	0.63
36:A1:1480:G:H4'	36:A1:1481:A:OP1	1.98	0.63
36:A1:1481:A:O2'	36:A1:1858:A:C2	2.50	0.63
36:A1:2611:U:H2'	36:A1:2612:U:C6	2.33	0.63
40:BB:296:THR:HB	40:BB:299:ASP:H	1.63	0.63
41:BC:181:VAL:O	41:BC:182:LEU:HB2	1.96	0.63
44:BF:24:GLU:O	44:BF:26:VAL:N	2.32	0.63
62:BY:37:LYS:H	62:BY:37:LYS:HD3	1.64	0.63
80:A6:765:G:N2	11:CJ:146:PHE:HZ	1.96	0.63
80:A6:1058:U:H4'	80:A6:1059:U:OP1	1.99	0.63
80:A6:1155:G:O2'	86:A6:2057:OHX:N5	2.31	0.63
80:A6:1769:U:O2	16:CO:136:ARG:HD2	1.99	0.63
86:A6:1940:OHX:N1	86:A6:2092:OHX:N5	2.46	0.63
8:CG:98:ARG:HD3	8:CG:99:GLY:N	2.13	0.63
36:A5:1019:G:O6	86:A5:3781:OHX:N2	2.32	0.63
36:A5:1818:U:H2'	36:A5:1819:U:H6	1.62	0.63
36:A5:3128:G:OP2	86:A5:3683:OHX:N3	2.32	0.63
5:AD:150:MET:HE3	35:Ah:110:TRP:HE3	1.64	0.63
7:AF:37:GLN:HB3	18:AQ:53:LEU:HB3	1.80	0.63
36:A1:542:G:H2'	36:A1:543:C:C6	2.33	0.63
36:A1:2107:A:H2	36:A1:3344:A:H8	1.44	0.63
40:BB:218:ILE:HG12	40:BB:276:THR:HG23	1.80	0.63
78:Bo:3:ASN:HA	78:Bo:92:GLU:O	1.98	0.63
80:A6:1724:U:OP2	86:A6:2080:OHX:N1	2.31	0.63
3:CB:169:SER:O	3:CB:173:THR:HG23	1.97	0.63
34:Cg:133:VAL:HG12	34:Cg:141:LEU:HD12	1.80	0.63
36:A5:528:U:H2'	36:A5:529:A:C8	2.33	0.63
54:DQ:86:THR:HB	54:DQ:105:ARG:HB3	1.81	0.63
55:DR:173:ARG:HH21	55:DR:177:VAL:HG21	1.62	0.63
3:AB:112:SER:O	3:AB:114:VAL:N	2.32	0.63
18:AQ:34:SER:HB3	18:AQ:38:LEU:HD12	1.80	0.63
18:AQ:50:GLU:OE2	18:AQ:82:ARG:NH2	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:Bl:44:TRP:CZ3	75:Bl:45:ARG:HG3	2.32	0.63
80:A6:1427:A:O2'	80:A6:1428:G:OP1	2.16	0.63
15:CN:22:ALA:HB1	15:CN:23:PRO:HA	1.79	0.63
34:Cg:123:ILE:HD11	34:Cg:156:VAL:HG23	1.81	0.63
36:A5:979:U:H1'	36:A5:980:A:C4	2.34	0.63
36:A5:2522:G:H1	39:DA:70:ARG:HH22	1.45	0.63
86:A5:3461:OHX:N1	86:A5:3772:OHX:N2	2.46	0.63
86:A5:3515:OHX:N4	86:A5:3723:OHX:N3	2.46	0.63
45:DG:121:SER:O	45:DG:123:GLN:N	2.31	0.63
59:DV:33:ASN:HD22	59:DV:63:LYS:HB2	1.63	0.63
71:Dh:85:THR:HG22	71:Dh:88:LEU:H	1.62	0.63
1:A2:1592:A:H2'	1:A2:1593:A:C8	2.34	0.63
1:A2:1657:U:O4	86:A2:1969:OHX:N4	2.31	0.63
3:AB:154:SER:O	3:AB:154:SER:OG	2.09	0.63
12:AK:14:TYR:HE2	12:AK:21:VAL:HG22	1.64	0.63
36:A1:300:G:O6	86:A1:3710:OHX:N1	2.32	0.63
36:A1:1230:G:H1	36:A1:1279:C:H42	1.47	0.63
36:A1:1507:G:C8	53:BP:129:THR:HG22	2.33	0.63
86:A1:3439:OHX:N3	86:A1:3802:OHX:N5	2.46	0.63
51:BN:91:GLU:O	51:BN:93:LYS:HE3	1.99	0.63
80:A6:913:G:O6	36:A5:2205:U:H1'	1.96	0.63
80:A6:1657:U:O2'	80:A6:1658:G:OP2	2.11	0.63
11:CJ:29:LYS:O	11:CJ:33:GLU:HG2	1.97	0.63
12:CK:54:TYR:CE2	12:CK:75:TYR:HB2	2.34	0.63
34:Cg:42:LEU:HB2	34:Cg:61:PHE:HB2	1.79	0.63
36:A5:541:U:H2'	36:A5:542:G:C8	2.34	0.63
36:A5:830:A:O2'	36:A5:1866:C:H2'	1.98	0.63
36:A5:1412:G:OP1	68:De:105:ARG:NH2	2.31	0.63
36:A5:1564:U:H2'	36:A5:1565:G:C8	2.34	0.63
36:A5:3215:A:O5'	50:DM:121:MET:HE1	1.98	0.63
56:DS:73:LYS:NZ	56:DS:97:VAL:O	2.32	0.63
70:Dg:16:ARG:HH11	70:Dg:16:ARG:HG3	1.63	0.63
4:AC:145:GLY:O	4:AC:146:THR:HB	1.98	0.63
12:AK:56:LYS:HE3	12:AK:58:GLN:HG2	1.80	0.63
17:AP:130:ARG:NH1	35:Ah:71:ASN:OD1	2.32	0.63
19:AR:76:GLU:HA	19:AR:79:GLU:HB2	1.81	0.63
36:A1:128:G:C8	86:A1:3798:OHX:N5	2.67	0.63
36:A1:595:G:H1	36:A1:609:G:H5''	1.64	0.63
36:A1:2403:G:O3'	86:A1:3738:OHX:N5	2.31	0.63
36:A1:3278:C:H3'	36:A1:3279:A:H5''	1.79	0.63
42:BD:131:LEU:HD22	42:BD:131:LEU:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BN:96:ARG:HG2	51:BN:96:ARG:HH11	1.64	0.63
54:BQ:30:VAL:O	54:BQ:34:THR:HG23	1.98	0.63
63:BZ:83:THR:HG23	63:BZ:85:TYR:H	1.62	0.63
77:Bn:22:ALA:HA	77:Bn:25:LYS:HG3	1.81	0.63
78:Bo:46:LYS:HD3	78:Bo:54:THR:HB	1.80	0.63
80:A6:1290:U:O2'	4:CC:119:LYS:NZ	2.29	0.63
80:A6:1639:C:OP1	86:A6:2012:OHX:N5	2.31	0.63
86:A6:1933:OHX:N6	86:A6:2071:OHX:N4	2.45	0.63
25:CX:65:ASN:ND2	25:CX:116:ASP:OD1	2.32	0.63
31:Cd:33:LYS:HE2	31:Cd:34:TYR:CZ	2.33	0.63
36:A5:73:C:C2	49:DL:59:ARG:HD3	2.33	0.63
86:A5:3489:OHX:N2	86:DA:302:OHX:N5	2.47	0.63
71:Dh:101:THR:HG22	71:Dh:104:GLN:HB2	1.80	0.63
1:A2:1716:C:O2'	1:A2:1717:G:C8	2.47	0.63
19:AR:37:GLU:HG3	34:Ag:150:TRP:HE1	1.64	0.63
36:A1:1215:U:C2'	36:A1:1216:C:H5''	2.29	0.63
86:A1:3491:OHX:N3	86:A1:3671:OHX:N4	2.47	0.63
40:BB:347:SER:HB3	40:BB:350:ALA:H	1.64	0.63
51:BN:38:ARG:HH11	51:BN:38:ARG:CG	2.11	0.63
63:BZ:88:ASP:HB3	63:BZ:121:ARG:HH22	1.64	0.63
67:Bd:11:GLU:HG2	67:Bd:74:ARG:HB2	1.79	0.63
80:A6:652:G:O5'	80:A6:653:C:H5	1.82	0.63
80:A6:1793:G:O2'	28:Ca:5:ARG:NH2	2.31	0.63
9:CH:66:SER:O	9:CH:68:ALA:N	2.32	0.63
36:A5:1023:C:H5''	36:A5:1024:G:OP2	1.99	0.63
36:A5:1283:C:OP1	83:Dq:81:LYS:HD3	1.99	0.63
36:A5:2404:A:OP2	86:A5:3762:OHX:N4	2.32	0.63
86:A5:3473:OHX:N4	86:A5:3680:OHX:N2	2.47	0.63
48:DJ:109:HIS:CD2	48:DJ:123:PHE:H	2.15	0.63
1:A2:1081:A:H5''	1:A2:1082:C:OP1	1.99	0.63
4:AC:103:VAL:HG12	4:AC:190:LEU:HD12	1.80	0.63
34:Ag:136:ILE:H	34:Ag:136:ILE:HD13	1.63	0.63
86:A1:3497:OHX:N2	86:A1:3680:OHX:N6	2.47	0.63
63:BZ:135:ARG:HG2	63:BZ:135:ARG:HH21	1.64	0.63
80:A6:543:C:H5''	80:A6:543:C:O2	1.99	0.63
80:A6:738:G:O6	86:A6:1930:OHX:N1	2.32	0.63
8:CG:10:ASN:HB3	8:CG:128:THR:HA	1.80	0.63
86:A5:3607:OHX:N1	86:A5:3801:OHX:N2	2.47	0.63
38:A8:126:A:O2'	38:A8:128:U:OP2	2.16	0.63
48:DJ:87:LYS:HD2	48:DJ:104:PHE:CD1	2.32	0.63
1:A2:1701:N:H3'	1:A2:1702:N:H5''	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:28:GLU:OE2	12:AK:56:LYS:NZ	2.29	0.62
36:A1:361:A:O3'	73:Bj:45:ARG:NH2	2.32	0.62
36:A1:1565:G:N2	36:A1:1574:C:N3	2.46	0.62
39:BA:30:ARG:NH2	39:BA:33:ASP:OD2	2.31	0.62
54:BQ:161:LYS:O	54:BQ:162:ALA:HB3	1.99	0.62
80:A6:25:C:O2	86:A6:1964:OHX:N5	2.32	0.62
80:A6:646:C:H2'	80:A6:647:G:C8	2.34	0.62
80:A6:678:A:O2'	80:A6:679:U:OP1	2.17	0.62
6:CE:247:SER:OG	6:CE:250:GLU:HG3	1.98	0.62
22:CU:96:PRO:HD2	22:CU:99:ILE:HD11	1.80	0.62
34:Cg:38:ARG:HG2	34:Cg:67:ILE:HG23	1.81	0.62
36:A5:1192:C:H5	86:A5:3604:OHX:N4	1.96	0.62
38:A8:156:U:O2'	38:A8:157:U:OP1	2.17	0.62
39:DA:204:MET:CE	39:DA:209:HIS:HB2	2.29	0.62
47:DI:174:THR:HG23	47:DI:175:ASN:H	1.63	0.62
57:DT:14:MET:HE3	57:DT:58:GLN:HB2	1.81	0.62
1:A2:140:A:N6	1:A2:281:G:OP1	2.21	0.62
1:A2:702:G:O2'	1:A2:703:G:H8	1.82	0.62
1:A2:794:U:O2	1:A2:794:U:H2'	2.00	0.62
4:AC:144:TRP:CE2	4:AC:173:PRO:HG3	2.34	0.62
40:BB:41:VAL:HA	40:BB:185:GLY:CA	2.24	0.62
40:BB:84:VAL:HG13	40:BB:162:VAL:HB	1.81	0.62
41:BC:59:GLN:OE1	73:Bj:55:ARG:NH2	2.32	0.62
80:A6:584:C:H1'	32:Ce:18:THR:HG21	1.81	0.62
80:A6:1773:C:OP2	77:Dn:2:ARG:HD2	1.99	0.62
36:A5:725:G:H2'	36:A5:726:G:H5''	1.81	0.62
36:A5:2440:G:H2'	36:A5:2441:A:C8	2.34	0.62
36:A5:3174:A:N6	36:A5:3278:C:N3	2.46	0.62
36:A5:3358:U:H2'	36:A5:3359:A:H8	1.65	0.62
49:DL:93:ILE:HG22	49:DL:94:GLY:H	1.64	0.62
51:DN:183:THR:O	51:DN:184:LYS:HB3	1.97	0.62
52:DO:180[B]:SER:OG	52:DO:181[B]:ALA:N	2.29	0.62
1:A2:197:A:H61	10:AI:138:ASN:ND2	1.98	0.62
1:A2:843:U:H2'	1:A2:844:A:H8	1.64	0.62
1:A2:1168:U:H2'	1:A2:1169:G:H5'	1.82	0.62
1:A2:1490:C:H4'	1:A2:1491:U:OP1	1.99	0.62
4:AC:98:PHE:CZ	35:Ah:116:GLU:HG3	2.34	0.62
9:AH:11:GLN:HG3	9:AH:13:PRO:HD2	1.80	0.62
20:AS:94:ASP:OD1	20:AS:98:TYR:OH	2.17	0.62
36:A1:2513:U:O2'	36:A1:2514:U:H2'	1.98	0.62
86:A1:3414:OHX:N1	86:A1:3812:OHX:N3	2.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BE:98:VAL:HA	43:BE:101:PHE:HD2	1.64	0.62
51:BN:155:VAL:HG23	51:BN:156:HIS:ND1	2.13	0.62
69:Bf:48:ARG:HG2	69:Bf:48:ARG:HH11	1.63	0.62
74:Bk:31:LEU:HA	74:Bk:37:PRO:HA	1.81	0.62
75:Bl:21:ARG:HD3	75:Bl:22:PRO:O	2.00	0.62
80:A6:729:G:O2'	80:A6:730:G:O5'	2.17	0.62
6:CE:11:ARG:O	6:CE:12:LEU:HB2	1.98	0.62
7:CF:91:GLU:HA	7:CF:94:THR:HG23	1.81	0.62
17:CP:21:ASP:O	17:CP:25:LEU:N	2.29	0.62
21:CT:33:TYR:HD1	21:CT:34:VAL:H	1.45	0.62
36:A5:1919:G:N7	86:A5:3586:OHX:N4	2.47	0.62
36:A5:3115:C:OP1	46:DH:62:ARG:NH2	2.32	0.62
86:A5:3470:OHX:N3	86:A5:3807:OHX:N1	2.47	0.62
45:DG:151:VAL:HG22	45:DG:199:ALA:HB1	1.81	0.62
63:DZ:115:LYS:NZ	63:DZ:119:GLU:OE2	2.32	0.62
1:A2:38:C:C2'	1:A2:39:A:H5'	2.29	0.62
1:A2:66:U:C5	8:AG:173:PRO:HG3	2.35	0.62
1:A2:245:U:O4	86:A2:1973:OHX:N5	2.32	0.62
1:A2:1597:A:OP2	31:Ad:32:ARG:NH2	2.31	0.62
1:A2:1619:C:H1'	30:Ac:22:ARG:HH21	1.64	0.62
3:AB:105:PHE:N	3:AB:214:LYS:HZ1	1.96	0.62
24:AW:111:MET:HE1	24:AW:121:VAL:HG23	1.81	0.62
25:AX:109:ARG:HB3	25:AX:112:LYS:HB2	1.81	0.62
36:A1:718:G:C2	36:A1:721:G:H1'	2.34	0.62
36:A1:1110:U:H2'	36:A1:1111:U:C6	2.35	0.62
86:A1:3516:OHX:N3	86:A1:3718:OHX:N1	2.47	0.62
77:Bn:9:ARG:HG3	77:Bn:9:ARG:NH1	2.12	0.62
80:A6:542:A:H1'	80:A6:543:C:OP1	2.00	0.62
80:A6:1553:G:O6	17:CP:43:ARG:HD3	1.99	0.62
8:CG:98:ARG:HD3	8:CG:99:GLY:H	1.64	0.62
23:CV:73:ALA:HB3	23:CV:79:LEU:HD12	1.80	0.62
34:Cg:21:THR:HG23	34:Cg:37:SER:HA	1.82	0.62
52:DO:110[A]:PRO:O	52:DO:111[A]:PRO:C	2.41	0.62
52:DO:110[B]:PRO:O	52:DO:113[B]:ASP:N	2.27	0.62
76:Dm:78:ILE:HD11	76:Dm:83:LYS:HA	1.80	0.62
1:A2:145:A:O2'	1:A2:146:U:O5'	2.16	0.62
1:A2:213:A:OP2	86:A2:1997:OHX:N2	2.32	0.62
2:AA:110:TYR:H	2:AA:110:TYR:HD2	1.46	0.62
4:AC:129:ILE:O	4:AC:133:LYS:HG2	1.99	0.62
36:A1:1492:G:N7	75:Bl:2:ALA:CB	2.62	0.62
86:A1:3414:OHX:N5	86:A1:3812:OHX:N3	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BI:185:ARG:C	47:BI:187:ALA:H	2.06	0.62
75:BI:23:LEU:O	75:BI:25:GLN:NE2	2.32	0.62
78:Bo:43:TYR:CZ	78:Bo:47:GLN:NE2	2.67	0.62
80:A6:76:A:H3'	86:A6:2075:OHX:N2	2.14	0.62
80:A6:825:U:O4	86:A6:2100:OHX:N3	2.32	0.62
80:A6:922:G:H2'	80:A6:923:A:H8	1.65	0.62
36:A5:2436:U:H3	36:A5:2511:A:H62	1.45	0.62
36:A5:2979:U:O4	86:A5:3667:OHX:N1	2.32	0.62
43:DE:109:GLU:H	43:DE:109:GLU:CD	2.07	0.62
53:DP:31:GLU:HG3	53:DP:60:PHE:HA	1.81	0.62
1:A2:1612:U:H2'	1:A2:1613:U:H5'	1.79	0.62
8:AG:114:VAL:HG12	8:AG:115:LYS:HD3	1.81	0.62
16:AO:113:GLY:HA2	28:Aa:59:TYR:HE2	1.64	0.62
20:AS:70:VAL:HA	20:AS:73:MET:HE3	1.80	0.62
22:AU:118:VAL:HG22	22:AU:119:ALA:H	1.63	0.62
36:A1:1227:C:H5'	36:A1:1228:C:OP2	1.99	0.62
36:A1:2593:A:H4'	36:A1:2594:C:O5'	2.00	0.62
48:BJ:47:GLN:HG2	48:BJ:67:VAL:HG12	1.81	0.62
48:BJ:63:GLU:O	48:BJ:64:LYS:HB2	1.99	0.62
50:BM:128:ARG:HG2	50:BM:132:LYS:HG3	1.82	0.62
59:BV:129:VAL:O	59:BV:133:SER:OG	2.17	0.62
80:A6:1429:G:H1'	22:CU:74:GLU:HG2	1.81	0.62
2:CA:185:ARG:H	23:CV:45:ALA:H	1.47	0.62
3:CB:125:VAL:HG11	3:CB:173:THR:HG22	1.81	0.62
15:CN:33:VAL:HG21	15:CN:66:ILE:HD11	1.82	0.62
36:A5:3195:U:O2'	36:A5:3196:U:H5'	1.99	0.62
86:A5:3610:OHX:N4	86:A5:3813:OHX:N1	2.47	0.62
1:A2:823:G:O2'	1:A2:824:G:P	2.57	0.62
1:A2:1657:U:H4'	1:A2:1658:G:O5'	1.99	0.62
86:A2:1915:OHX:N4	86:A2:2074:OHX:N5	2.48	0.62
21:AT:86:ARG:NH1	21:AT:90:PRO:O	2.32	0.62
36:A1:1638:A:H5''	36:A1:1639:C:OP2	1.99	0.62
36:A1:3298:C:OP1	53:BP:74:LYS:NZ	2.32	0.62
86:A1:3497:OHX:N1	86:A1:3680:OHX:N3	2.47	0.62
41:BC:98:ARG:HD2	41:BC:99:MET:O	2.00	0.62
47:BI:174:THR:CG2	47:BI:176:LEU:H	2.13	0.62
49:BL:46:ILE:HG23	49:BL:49:ARG:HB2	1.81	0.62
4:CC:234:PRO:O	4:CC:235:LEU:HB2	1.99	0.62
6:CE:93:ASP:O	6:CE:95:THR:N	2.32	0.62
6:CE:117:GLU:O	6:CE:119:ALA:N	2.26	0.62
25:CX:130:VAL:O	25:CX:131:SER:HB2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Ca:58:VAL:HG22	28:Ca:59:TYR:H	1.64	0.62
34:Cg:25:THR:OG1	34:Cg:26:SER:N	2.32	0.62
40:DB:293:ASN:HB2	40:DB:304:THR:HA	1.80	0.62
43:DE:40:LEU:HB3	43:DE:84:VAL:HG13	1.82	0.62
70:Dg:42:PRO:HD3	70:Dg:56:THR:HG22	1.80	0.62
84:Dr:34:UNK:O	84:Dr:36:UNK:N	2.32	0.62
1:A2:915:A:OP1	86:A2:1974:OHX:N3	2.32	0.62
3:AB:134:VAL:HB	3:AB:219:LYS:HB2	1.80	0.62
9:AH:145:GLY:O	9:AH:147:ASN:ND2	2.31	0.62
36:A1:1126:G:OP2	47:BI:14:ASN:ND2	2.31	0.62
86:A1:3496:OHX:N1	86:A1:3805:OHX:N3	2.48	0.62
39:BA:202:VAL:HG13	39:BA:217:GLN:HB3	1.80	0.62
42:BD:261:THR:N	42:BD:264:GLN:HG3	2.14	0.62
49:BL:153:ASP:OD1	49:BL:157:ARG:NH2	2.33	0.62
80:A6:717:C:O2'	80:A6:718:U:OP1	2.12	0.62
14:CM:62:LEU:HD12	14:CM:63:VAL:H	1.64	0.62
18:CQ:82:ARG:HH12	18:CQ:114:ARG:HG3	1.65	0.62
36:A5:29:C:O3'	51:DN:172:ARG:NH1	2.32	0.62
36:A5:2407:C:H2'	36:A5:2408:U:C6	2.35	0.62
86:A5:3477:OHX:N5	86:A5:3779:OHX:N6	2.47	0.62
61:DX:57:LEU:HD23	61:DX:61:LYS:HG2	1.82	0.62
1:A2:1031:U:H4'	1:A2:1032:G:OP2	1.99	0.62
1:A2:1523:G:N7	21:AT:64:HIS:HE1	1.98	0.62
1:A2:1571:C:OP2	86:A2:2048:OHX:N1	2.33	0.62
6:AE:11:ARG:O	6:AE:12:LEU:HB2	1.99	0.62
24:AW:80:ASN:HD22	24:AW:124:LYS:HG2	1.65	0.62
28:Aa:44:ILE:H	28:Aa:44:ILE:HD12	1.65	0.62
86:A1:3542:OHX:N2	86:A1:3751:OHX:N5	2.48	0.62
45:BG:245:LYS:NZ	45:BG:249:ARG:HH21	1.97	0.62
62:BY:3:LYS:HG3	62:BY:8:VAL:HG13	1.82	0.62
67:Bd:10:ARG:HH11	67:Bd:44:MET:HE1	1.65	0.62
80:A6:1280:C:H2'	80:A6:1281:G:C8	2.35	0.62
86:A6:1922:OHX:N3	86:A6:2100:OHX:N1	2.48	0.62
2:CA:74:VAL:HG23	2:CA:118:PRO:HB3	1.81	0.62
19:CR:47:ARG:NH1	19:CR:48:ASN:OD1	2.33	0.62
36:A5:150:A:C2'	36:A5:151:A:H5'	2.29	0.62
36:A5:817:A:OP2	36:A5:817:A:H4'	1.98	0.62
36:A5:3019:U:O4	86:A5:3499:OHX:N2	2.33	0.62
86:A5:3533:OHX:N1	86:DG:301:OHX:N2	2.47	0.62
38:A8:95:G:OP2	73:Dj:72:ARG:NH1	2.32	0.62
39:DA:204:MET:HE3	39:DA:208:ASP:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DI:14:ASN:O	47:DI:128:ARG:NH2	2.33	0.62
47:DI:61:SER:HB2	47:DI:63:GLU:HG2	1.82	0.62
63:DZ:50:PRO:HD3	63:DZ:68:ILE:HG12	1.81	0.62
3:AB:110:LEU:H	3:AB:110:LEU:HD12	1.63	0.62
3:AB:171:ILE:HA	3:AB:174:LYS:HE3	1.81	0.62
9:AH:74:GLN:HE22	9:AH:92:PHE:HB2	1.65	0.62
9:AH:185:ILE:HG22	9:AH:186:PRO:HD3	1.82	0.62
30:Ac:10:ALA:HB1	30:Ac:30:VAL:HB	1.81	0.62
36:A1:547:G:H2'	36:A1:548:G:C8	2.34	0.62
73:Bj:87:SER:O	86:Bj:101:OHX:N3	2.33	0.62
74:Bk:8:ILE:H	74:Bk:8:ILE:HD12	1.65	0.62
9:CH:28:GLU:HG2	9:CH:35:LYS:HA	1.82	0.62
10:CI:82:VAL:HG13	10:CI:196:LEU:HD21	1.81	0.62
12:CK:52:LYS:HG3	12:CK:54:TYR:CD1	2.35	0.62
86:A5:3542:OHX:N1	86:A5:3662:OHX:N3	2.47	0.62
86:A5:3610:OHX:N5	86:A5:3814:OHX:N6	2.48	0.62
53:DP:59:PRO:HG3	53:DP:76:PHE:CD1	2.35	0.62
1:A2:1524:A:H2'	1:A2:1525:A:C8	2.34	0.61
21:AT:61:VAL:O	21:AT:65:ILE:HG13	2.00	0.61
86:A1:3458:OHX:N6	86:A1:3811:OHX:N5	2.48	0.61
42:BD:279:LYS:HG2	42:BD:282:ARG:HH12	1.66	0.61
66:Bc:40:LYS:HB3	66:Bc:101:LEU:HD11	1.81	0.61
70:Bg:99:LYS:O	70:Bg:103:LYS:HG2	2.00	0.61
80:A6:496:G:O6	80:A6:497:G:N2	2.33	0.61
80:A6:959:U:O2	15:CN:61:THR:HB	2.00	0.61
80:A6:1783:C:OP2	77:Dn:1:MET:HB2	1.98	0.61
36:A5:734:C:H2'	36:A5:735:A:H5''	1.81	0.61
36:A5:1301:A:OP2	86:A5:3820:OHX:N4	2.33	0.61
37:A7:28:C:H5''	48:DJ:137:ARG:HG2	1.82	0.61
41:DC:144:LYS:HG2	41:DC:145:ILE:H	1.65	0.61
49:DL:177:LYS:HA	72:Di:11:LEU:HD22	1.82	0.61
65:Db:20:GLY:O	65:Db:21:ILE:HB	1.98	0.61
70:Dg:7:PHE:CD1	70:Dg:20:ILE:HD12	2.35	0.61
1:A2:677:G:H2'	1:A2:678:A:C8	2.36	0.61
1:A2:1358:G:H2'	1:A2:1359:C:C6	2.35	0.61
27:AZ:54:VAL:O	27:AZ:88:ILE:HG21	2.01	0.61
28:Aa:35:ALA:O	28:Aa:36:ILE:HG22	2.00	0.61
36:A1:1381:A:OP1	41:BC:197:ARG:NH1	2.33	0.61
36:A1:1753:G:O6	86:A1:3593:OHX:N6	2.33	0.61
36:A1:3066:U:H2'	36:A1:3067:C:C6	2.35	0.61
86:A1:3549:OHX:N6	86:A1:3735:OHX:N2	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:BV:17:LEU:HD21	59:BV:98:ASN:ND2	2.13	0.61
74:Bk:32:ASN:N	74:Bk:36:LYS:O	2.29	0.61
80:A6:1255:G:H4'	80:A6:1256:A:OP1	2.00	0.61
80:A6:1619:C:O2	30:Cc:22:ARG:NH1	2.33	0.61
20:CS:30:TYR:O	20:CS:33:THR:OG1	2.18	0.61
27:CZ:43:ASP:O	27:CZ:45:GLU:N	2.32	0.61
36:A5:1566:A:H2'	36:A5:1567:U:H5'	1.80	0.61
86:A5:3477:OHX:N5	86:A5:3779:OHX:N2	2.48	0.61
45:DG:33:ASN:O	45:DG:35:GLY:N	2.33	0.61
62:DY:37:LYS:CD	62:DY:37:LYS:H	2.13	0.61
1:A2:400:A:H5''	10:AI:25:ARG:HA	1.82	0.61
1:A2:1236:A:O4'	33:Af:138:ARG:NH2	2.33	0.61
9:AH:13:PRO:HB3	9:AH:14:THR:HB	1.82	0.61
24:AW:105:THR:HG23	24:AW:110:ILE:HG12	1.81	0.61
36:A1:329:U:OP2	86:A1:3589:OHX:N4	2.33	0.61
36:A1:3118:C:H4'	76:Bm:106:ARG:NH2	2.11	0.61
40:BB:77:THR:HG23	40:BB:326:GLY:O	1.99	0.61
49:BL:50:PRO:O	49:BL:52:ASP:N	2.33	0.61
61:BX:132:ALA:HA	61:BX:135:ILE:HG22	1.82	0.61
24:CW:26:LEU:HD11	24:CW:60:LYS:HB3	1.81	0.61
36:A5:3227:A:H2'	36:A5:3228:C:H5'	1.82	0.61
39:DA:209:HIS:HD2	39:DA:211:HIS:H	1.47	0.61
54:DQ:165:ILE:HD12	54:DQ:167:SER:O	1.99	0.61
75:Dl:9:ILE:HG22	75:Dl:13:MET:HE2	1.82	0.61
1:A2:1214:U:OP1	1:A2:1246:C:H1'	1.99	0.61
15:AN:16:ILE:HG22	24:AW:57:ARG:NH2	2.15	0.61
36:A1:838:G:O6	79:Bp:4:ARG:NH2	2.33	0.61
39:BA:20:THR:HA	39:BA:23:ARG:HD2	1.82	0.61
39:BA:209:HIS:HD2	39:BA:211:HIS:N	1.98	0.61
66:Bc:30:THR:HB	66:Bc:91:SER:HB2	1.81	0.61
80:A6:765:G:N7	11:CJ:82:ARG:NH1	2.48	0.61
80:A6:1034:C:HO2'	24:CW:2:THR:N	1.97	0.61
80:A6:1537:C:N3	86:A6:2016:OHX:N5	2.48	0.61
80:A6:1700:N:HO2'	80:A6:1701:N:P	2.20	0.61
86:A6:1961:OHX:N2	86:A6:2009:OHX:N6	2.49	0.61
21:CT:28:LEU:HD23	21:CT:111:ILE:HD11	1.83	0.61
26:CY:120:GLY:O	26:CY:122:GLY:N	2.34	0.61
36:A5:385:A:H2'	36:A5:386:A:C8	2.36	0.61
36:A5:1804:A:H2'	36:A5:1805:C:H6	1.63	0.61
40:DB:221:THR:HB	40:DB:273:HIS:O	2.00	0.61
40:DB:238:LEU:HB3	40:DB:242:THR:HG21	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Df:59:VAL:HG23	69:Df:60:ARG:H	1.66	0.61
1:A2:497:G:O2'	1:A2:498:G:O5'	2.17	0.61
1:A2:1460:A:O2'	35:Ah:72:ARG:NH2	2.33	0.61
25:AX:24:TRP:HE3	25:AX:30:LYS:HD3	1.66	0.61
36:A1:531:G:N7	86:A1:3687:OHX:N5	2.49	0.61
36:A1:1236:G:H22	36:A1:1244:A:H4'	1.66	0.61
36:A1:2403:G:H21	36:A1:2404:A:H62	1.47	0.61
36:A1:3242:G:H8	40:BB:154:TYR:CE2	2.18	0.61
86:A1:3452:OHX:N5	86:A1:3750:OHX:N3	2.49	0.61
86:A1:3574:OHX:N4	86:A1:3706:OHX:N3	2.49	0.61
80:A6:138:A:N3	80:A6:138:A:H5''	2.16	0.61
3:CB:179:SER:HB3	3:CB:183:GLN:HB2	1.81	0.61
36:A5:3318:G:OP2	86:A5:3656:OHX:N5	2.33	0.61
86:A5:3542:OHX:N5	86:A5:3662:OHX:N6	2.49	0.61
42:DD:152:ARG:HH11	42:DD:152:ARG:HG3	1.66	0.61
10:AI:122:GLY:O	86:AI:301:OHX:N6	2.34	0.61
16:AO:32:ASP:O	16:AO:35:GLY:N	2.33	0.61
24:AW:11:LEU:HD12	24:AW:74:VAL:HB	1.82	0.61
36:A1:191:U:H2'	36:A1:192:C:H6	1.63	0.61
86:A1:3496:OHX:N3	86:A1:3650:OHX:N5	2.49	0.61
40:BB:296:THR:HG22	40:BB:298:PHE:H	1.64	0.61
72:Bi:60:LEU:HD11	72:Bi:68:ARG:HD2	1.80	0.61
78:Bo:21:THR:OG1	78:Bo:74:CYS:SG	2.55	0.61
86:A6:1915:OHX:N5	86:A6:2002:OHX:N3	2.49	0.61
36:A5:15:C:H5'	36:A5:15:C:C6	2.31	0.61
86:A5:3591:OHX:N5	86:A5:3812:OHX:N6	2.49	0.61
41:DC:232:SER:O	41:DC:233:LEU:HB2	2.01	0.61
82:DK:109:UNK:O	82:DK:113:UNK:N	2.34	0.61
1:A2:820:U:H2'	1:A2:821:U:H4'	1.82	0.61
1:A2:1428:G:H5'	1:A2:1428:G:C8	2.35	0.61
1:A2:1492:A:O2'	1:A2:1493:A:H8	1.80	0.61
11:AJ:37:LYS:HB3	32:Ae:33:ARG:HB2	1.81	0.61
27:AZ:43:ASP:O	27:AZ:45:GLU:N	2.34	0.61
36:A1:409:A:OP2	86:A1:3602:OHX:N6	2.34	0.61
36:A1:830:A:OP1	86:A1:3556:OHX:N3	2.33	0.61
36:A1:3152:U:O2'	36:A1:3153:U:H5'	2.00	0.61
36:A1:3353:G:HO2'	36:A1:3354:U:P	2.23	0.61
80:A6:486:G:O6	80:A6:488:G:N2	2.33	0.61
6:CE:125:LYS:HB2	6:CE:226:PHE:CE2	2.36	0.61
7:CF:119:ASP:O	7:CF:123:VAL:HG23	2.00	0.61
36:A5:283:G:OP1	78:Do:45:ARG:NH2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:3269:U:H4'	36:A5:3270:U:O5'	2.00	0.61
86:A7:203:OHX:N4	86:A7:211:OHX:N6	2.49	0.61
1:A2:1615:C:H4'	1:A2:1616:G:O5'	2.00	0.61
1:A2:1686:C:N1	1:A2:1687:U:C6	2.69	0.61
11:AJ:146:PHE:CE1	11:AJ:149:ARG:HD3	2.36	0.61
13:AL:3:THR:OG1	13:AL:82:ARG:NE	2.34	0.61
22:AU:48:HIS:ND1	22:AU:48:HIS:O	2.34	0.61
28:Aa:87:ARG:NH2	28:Aa:94:ASN:O	2.34	0.61
33:Af:100:UNK:C	33:Af:102:VAL:H	2.14	0.61
86:A1:3516:OHX:N5	86:A1:3718:OHX:N2	2.49	0.61
86:A1:3578:OHX:N4	86:A1:3591:OHX:N1	2.48	0.61
80:A6:277:U:O2'	80:A6:278:U:OP1	2.15	0.61
80:A6:373:G:N7	86:A6:2060:OHX:N3	2.49	0.61
80:A6:1460:A:OP2	20:CS:145:ARG:NH2	2.34	0.61
14:CM:31:VAL:HG21	14:CM:136:ILE:HD12	1.83	0.61
21:CT:6:VAL:HG13	21:CT:66:TYR:CZ	2.36	0.61
36:A5:2940:A:N7	40:DB:2:SER:HA	2.16	0.61
36:A5:3165:A:H2'	36:A5:3166:C:H6	1.65	0.61
36:A5:3195:U:H1'	36:A5:3196:U:OP1	2.01	0.61
37:A7:121:U:H5''	42:DD:265:TYR:HE1	1.64	0.61
40:DB:296:THR:HG22	40:DB:298:PHE:N	2.03	0.61
52:DO:85[A]:ARG:HD3	52:DO:90[A]:HIS:CG	2.36	0.61
36:A1:1724:U:H1'	36:A1:1725:C:C6	2.36	0.61
36:A1:2534:G:H2'	36:A1:2535:A:H8	1.66	0.61
36:A1:2746:A:C6	42:BD:148:ILE:HD12	2.36	0.61
86:A1:3458:OHX:N6	86:A1:3811:OHX:N3	2.48	0.61
49:BL:64:LYS:HG3	64:Ba:69:TRP:CG	2.36	0.61
80:A6:188:A:H2'	80:A6:189:C:O4'	2.01	0.61
80:A6:1556:A:OP1	17:CP:115:TYR:OH	2.15	0.61
6:CE:159:THR:HG21	6:CE:227:VAL:O	2.01	0.61
13:CL:5:LEU:C	13:CL:7:VAL:H	2.07	0.61
36:A5:361:A:O3'	73:Dj:45:ARG:NH2	2.33	0.61
36:A5:2915:U:C5	40:DB:7:GLU:HG2	2.36	0.61
40:DB:151:ILE:O	40:DB:155:ALA:HB3	2.01	0.61
41:DC:330:TYR:O	41:DC:334:PHE:N	2.30	0.61
53:DP:125:GLN:HB2	53:DP:141:SER:HB2	1.83	0.61
3:AB:70:LEU:HD21	3:AB:79:HIS:CD2	2.36	0.61
36:A1:2505:U:H2'	36:A1:2506:U:H6	1.66	0.61
73:Bj:21:ARG:HD2	73:Bj:37:CYS:SG	2.41	0.61
80:A6:1166:A:H2'	80:A6:1167:G:O4'	2.01	0.61
80:A6:1529:C:OP1	7:CF:112:ARG:HD3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CU:109:GLU:HG3	22:CU:110:PRO:HD2	1.83	0.61
36:A5:412:G:OP1	53:DP:62:ARG:NH1	2.34	0.61
36:A5:1094:U:O2'	36:A5:1095:U:H3'	1.99	0.61
36:A5:2537:U:O2'	36:A5:2538:U:P	2.59	0.61
36:A5:3047:U:O2'	40:DB:53:MET:HE1	2.00	0.61
86:A5:3492:OHX:N2	86:A5:3737:OHX:N5	2.49	0.61
3:AB:181:LEU:HD13	3:AB:181:LEU:H	1.66	0.60
18:AQ:47:LYS:HZ1	18:AQ:114:ARG:HD2	1.65	0.60
20:AS:26:ILE:HD12	20:AS:27:LYS:N	2.16	0.60
21:AT:57:ARG:HG3	21:AT:57:ARG:NH1	2.03	0.60
27:AZ:60:VAL:HG22	27:AZ:101:TYR:HB2	1.83	0.60
34:Ag:93:ASP:HB2	34:Ag:100:TYR:HE1	1.66	0.60
36:A1:2338:C:OP1	40:BB:236:LYS:HE2	2.01	0.60
36:A1:2403:G:N2	36:A1:2404:A:H62	1.99	0.60
86:A1:3497:OHX:N4	86:A1:3680:OHX:N3	2.48	0.60
46:BH:124:ARG:HG2	46:BH:164:ILE:HD12	1.83	0.60
51:BN:102:ALA:O	51:BN:106:VAL:HG13	2.00	0.60
52:BO:119[B]:VAL:HG23	56:BS:164:SER:HB3	1.83	0.60
58:BU:56:VAL:HG22	58:BU:65:VAL:HG22	1.81	0.60
86:A6:1961:OHX:N5	86:A6:2009:OHX:N6	2.49	0.60
2:CA:147:THR:O	2:CA:161:PRO:HA	2.00	0.60
29:Cb:41:LEU:HD23	29:Cb:41:LEU:H	1.65	0.60
36:A5:132:C:H2'	36:A5:133:U:H5''	1.82	0.60
36:A5:240:U:O2'	36:A5:241:G:O5'	2.19	0.60
36:A5:2988:C:P	52:DO:68[B]:ARG:NH1	2.74	0.60
86:A5:3474:OHX:N3	86:A5:3681:OHX:N1	2.49	0.60
86:A5:3550:OHX:N6	86:A5:3808:OHX:N2	2.49	0.60
1:A2:248:U:H4'	13:AL:36:LYS:HD3	1.82	0.60
1:A2:992:A:C2	1:A2:1012:U:N3	2.65	0.60
36:A1:1246:G:H8	36:A1:1246:G:OP1	1.82	0.60
40:BB:57:VAL:HG23	40:BB:358:TRP:HE3	1.65	0.60
56:BS:12:ARG:HG2	56:BS:59:VAL:CG2	2.30	0.60
61:BX:92:LYS:HE3	61:BX:110:VAL:O	2.00	0.60
63:BZ:97:SER:HB3	63:BZ:99:GLU:HG3	1.82	0.60
80:A6:271:A:H5'	80:A6:272:U:OP2	2.00	0.60
86:A6:1941:OHX:N6	86:A6:2062:OHX:N4	2.49	0.60
4:CC:161:LYS:HE3	4:CC:164:SER:H	1.65	0.60
13:CL:26:LYS:HD2	13:CL:27:THR:H	1.65	0.60
15:CN:55:ARG:HD3	29:Cb:47:PHE:CD1	2.36	0.60
22:CU:96:PRO:HG2	22:CU:97:VAL:HG12	1.83	0.60
36:A5:2440:G:HO2'	36:A5:2441:A:P	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2533:G:O6	86:A5:3555:OHX:N1	2.34	0.60
36:A5:2895:G:H2'	36:A5:2896:A:H5''	1.82	0.60
86:A5:3644:OHX:N5	47:DI:112:GLN:O	2.34	0.60
48:DJ:166:LYS:O	48:DJ:168:ASP:N	2.34	0.60
1:A2:703:G:H2'	1:A2:704:C:H5'	1.83	0.60
1:A2:1474:G:H2'	1:A2:1475:A:C8	2.36	0.60
3:AB:28:GLU:OE2	3:AB:94:LYS:NZ	2.19	0.60
36:A1:1582:C:O2'	36:A1:1583:A:O5'	2.16	0.60
86:A1:3509:OHX:N4	86:A1:3746:OHX:N2	2.49	0.60
38:A4:55:U:O2	86:A4:206:OHX:N2	2.34	0.60
47:BI:193:ASP:OD2	47:BI:194:GLY:N	2.35	0.60
80:A6:783:G:OP2	26:CY:14:SER:OG	2.20	0.60
86:A6:1922:OHX:N5	86:A6:2100:OHX:N2	2.48	0.60
8:CG:63:MET:HE2	8:CG:106:LEU:HD22	1.82	0.60
9:CH:164:TYR:CE1	9:CH:165:LYS:HG3	2.36	0.60
20:CS:143:ARG:C	20:CS:145:ARG:H	2.08	0.60
36:A5:1817:G:OP1	86:A5:3709:OHX:N1	2.33	0.60
86:A5:3515:OHX:N6	86:A5:3723:OHX:N3	2.49	0.60
86:A5:3533:OHX:N5	86:DG:301:OHX:N6	2.49	0.60
42:DD:64:ILE:HG13	42:DD:109:THR:HG21	1.83	0.60
63:DZ:33:SER:HB3	63:DZ:36:HIS:HB2	1.83	0.60
1:A2:822:U:H2'	1:A2:823:G:H5''	1.83	0.60
86:A2:1922:OHX:N4	86:A2:1978:OHX:N3	2.50	0.60
5:AD:191:ASP:HB3	5:AD:194:LYS:HG3	1.82	0.60
15:AN:5:HIS:HB3	15:AN:117:LEU:HD13	1.84	0.60
19:AR:20:TYR:CD1	19:AR:38:ILE:HD11	2.36	0.60
36:A1:410:U:O4	86:A1:3602:OHX:N2	2.33	0.60
36:A1:1216:C:H5'	36:A1:1216:C:H6	1.66	0.60
36:A1:2318:U:O4	86:A1:3586:OHX:N2	2.34	0.60
86:A1:3452:OHX:N5	86:A1:3750:OHX:N1	2.49	0.60
53:BP:129:THR:HG23	53:BP:139:TYR:HB2	1.84	0.60
36:A5:1224:C:OP1	86:A5:3796:OHX:N6	2.34	0.60
36:A5:1500:G:H2'	36:A5:1501:U:O4'	2.02	0.60
36:A5:2818:U:H6	36:A5:2818:U:C5'	2.10	0.60
36:A5:3122:A:N1	46:DH:70:THR:HG21	2.17	0.60
86:A5:3436:OHX:N4	51:DN:91:GLU:OE2	2.34	0.60
38:A8:43:A:OP1	86:A8:212:OHX:N3	2.34	0.60
38:A8:78:G:H2'	38:A8:79:A:O4'	2.02	0.60
40:DB:41:VAL:HA	40:DB:185:GLY:CA	2.22	0.60
45:DG:27:THR:O	45:DG:28:HIS:ND1	2.34	0.60
66:Dc:40:LYS:HD3	66:Dc:93:LEU:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:143:G:N7	8:AG:177:ARG:NH2	2.49	0.60
36:A1:1478:C:H2'	36:A1:1479:U:C6	2.36	0.60
41:BC:138:ARG:HG3	41:BC:244:LEU:O	2.01	0.60
42:BD:236:LEU:HD12	42:BD:239:ILE:HD12	1.84	0.60
80:A6:1253:U:OP2	14:CM:46:ARG:NH2	2.34	0.60
4:CC:90:THR:O	4:CC:92:ALA:N	2.34	0.60
5:CD:34:TYR:HE2	5:CD:37:VAL:HG13	1.66	0.60
16:CO:80:HIS:ND1	16:CO:113:GLY:O	2.33	0.60
36:A5:368:G:OP1	86:A5:3439:OHX:N4	2.35	0.60
86:A5:3580:OHX:N3	86:A5:3660:OHX:N4	2.49	0.60
86:A5:3610:OHX:N6	86:A5:3813:OHX:N1	2.49	0.60
86:A8:203:OHX:N6	86:A8:211:OHX:N4	2.49	0.60
39:DA:105:GLY:HA3	39:DA:160:SER:HB3	1.83	0.60
40:DB:152:LYS:HD3	40:DB:189:SER:HA	1.83	0.60
40:DB:188:ILE:H	40:DB:188:ILE:CD1	2.14	0.60
52:DO:110[B]:PRO:O	52:DO:111[B]:PRO:C	2.44	0.60
1:A2:1672:G:H2'	1:A2:1673:G:C8	2.37	0.60
5:AD:27:ARG:HD2	12:AK:60:SER:HB2	1.83	0.60
36:A1:980:A:H2'	36:A1:981:U:N1	2.16	0.60
41:BC:211:GLU:OE2	41:BC:213:ASN:ND2	2.34	0.60
57:BT:14:MET:HE2	57:BT:15:PHE:CE2	2.35	0.60
80:A6:760:A:OP2	86:A6:1940:OHX:N5	2.34	0.60
80:A6:1506:G:O6	86:A6:2086:OHX:N4	2.34	0.60
86:A6:1933:OHX:N6	86:A6:2071:OHX:N2	2.49	0.60
8:CG:67:VAL:HG23	8:CG:68:LEU:O	2.02	0.60
12:CK:24:LYS:HB2	12:CK:63:TYR:CE1	2.36	0.60
36:A5:391:A:OP2	86:A5:3815:OHX:N2	2.34	0.60
36:A5:2372:A:H4'	36:A5:2373:A:OP2	2.02	0.60
86:A5:3509:OHX:N6	86:A5:3699:OHX:N4	2.49	0.60
86:A5:3607:OHX:N3	86:A5:3801:OHX:N6	2.50	0.60
86:A8:203:OHX:N6	73:Dj:87:SER:O	2.34	0.60
40:DB:171:LEU:O	86:DB:401:OHX:N3	2.34	0.60
63:DZ:83:THR:HG23	63:DZ:85:TYR:N	2.15	0.60
1:A2:732:G:O2'	1:A2:733:A:O4'	2.19	0.60
1:A2:1417:A:O3'	18:AQ:128:LYS:HE2	2.02	0.60
1:A2:1442:U:H2'	1:A2:1443:U:C6	2.37	0.60
3:AB:137:ILE:HD11	3:AB:172:LEU:HB3	1.83	0.60
20:AS:46:VAL:HG22	20:AS:72:ILE:HG22	1.83	0.60
36:A1:898:U:H2'	36:A1:899:U:O4'	2.02	0.60
36:A1:1862:U:OP2	86:A1:3805:OHX:N4	2.34	0.60
36:A1:2529:A:OP1	45:BG:248:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A1:3535:OHX:N6	40:BB:23:ALA:O	2.35	0.60
86:A1:3549:OHX:N4	86:A1:3735:OHX:N1	2.49	0.60
39:BA:143:GLU:O	39:BA:145:LYS:HG2	2.00	0.60
40:BB:80:ASP:OD1	40:BB:319:ASN:ND2	2.33	0.60
40:BB:81:THR:HB	40:BB:321:PHE:HA	1.84	0.60
54:BQ:158:HIS:H	54:BQ:186:VAL:CG1	2.13	0.60
80:A6:187:G:H8	80:A6:187:G:O5'	1.84	0.60
80:A6:219:A:H2'	80:A6:831:U:O2	2.02	0.60
80:A6:486:G:H22	80:A6:501:U:H3	1.49	0.60
36:A5:604:G:N7	86:A5:3692:OHX:N2	2.49	0.60
36:A5:739:G:O6	86:A5:3480:OHX:N6	2.34	0.60
36:A5:1560:G:HO2'	36:A5:1561:G:P	2.25	0.60
40:DB:147:GLU:OE1	40:DB:150:ARG:NH2	2.34	0.60
45:DG:213:LYS:O	45:DG:217:THR:HG22	2.02	0.60
67:Dd:50:ARG:CZ	67:Dd:90:PHE:CZ	2.85	0.60
68:De:41:VAL:HG12	68:De:46:PHE:CD2	2.37	0.60
70:Dg:41:ARG:HA	70:Dg:56:THR:HG22	1.83	0.60
79:Dp:6:LYS:HD3	79:Dp:7:LYS:HE3	1.84	0.60
1:A2:1542:G:H22	1:A2:1568:C:H1'	1.67	0.60
41:BC:152:VAL:HG22	41:BC:172:VAL:HG21	1.82	0.60
42:BD:289:LYS:HD2	47:BI:206:LEU:HD23	1.84	0.60
47:BI:47:PRO:HB3	47:BI:171:TRP:CZ2	2.37	0.60
75:BI:10:LYS:HA	75:BI:13:MET:HE3	1.81	0.60
80:A6:1050:G:O6	86:A6:2093:OHX:N4	2.35	0.60
80:A6:1067:C:H5''	3:CB:150:VAL:HG23	1.83	0.60
80:A6:1229:G:O6	14:CM:47:GLU:N	2.32	0.60
80:A6:1665:U:O4	86:A6:1979:OHX:N6	2.34	0.60
80:A6:1672:G:H2'	80:A6:1673:G:C8	2.37	0.60
80:A6:1797:A:C6	28:Ca:87:ARG:HD2	2.37	0.60
86:A6:1933:OHX:N3	86:A6:2071:OHX:N4	2.49	0.60
17:CP:10:ARG:NH2	17:CP:70:ASN:OD1	2.34	0.60
86:A5:3532:OHX:N3	86:A5:3786:OHX:N6	2.50	0.60
64:Da:76:ASP:HB2	64:Da:115:LYS:O	2.02	0.60
67:Dd:44:MET:HB3	67:Dd:77:ARG:NH1	2.17	0.60
20:AS:145:ARG:HD3	35:Ah:68:ARG:CZ	2.31	0.60
86:A1:3549:OHX:N4	86:A1:3735:OHX:N2	2.50	0.60
43:BE:18:LEU:HD22	43:BE:18:LEU:N	2.15	0.60
46:BH:86:TYR:CD1	46:BH:151:VAL:HG13	2.37	0.60
53:BP:53:ASP:O	86:BP:202:OHX:N3	2.35	0.60
80:A6:1254:U:OP1	33:Cf:143:LYS:HD3	2.02	0.60
80:A6:1595:U:N3	80:A6:1600:A:H2	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:52:LYS:HD3	23:CV:82:VAL:HA	1.83	0.60
14:CM:108:ARG:O	14:CM:110:GLY:N	2.35	0.60
20:CS:86:LEU:HG	20:CS:99:HIS:HB2	1.84	0.60
36:A5:171:G:N2	36:A5:248:U:O2	2.35	0.60
36:A5:726:G:H5'	36:A5:726:G:C8	2.31	0.60
36:A5:955:U:H2'	36:A5:956:U:C6	2.37	0.60
36:A5:3048:A:H5'	40:DB:53:MET:CE	2.26	0.60
36:A5:3364:C:OP1	86:A5:3457:OHX:N1	2.35	0.60
1:A2:498:G:O2'	1:A2:499:U:O5'	2.17	0.60
1:A2:543:C:H5'	1:A2:543:C:O2	2.02	0.60
1:A2:693:U:H5'	1:A2:694:U:H5'	1.83	0.60
29:Ab:50:ALA:O	29:Ab:52:THR:N	2.35	0.60
36:A1:428:A:H2'	36:A1:429:U:C6	2.37	0.60
36:A1:2307:G:O2'	36:A1:2310:U:OP2	2.15	0.60
44:BF:108:LEU:HD21	44:BF:115:THR:HG23	1.83	0.60
48:BJ:107:ASP:OD1	48:BJ:107:ASP:N	2.35	0.60
49:BL:75:PHE:H	49:BL:97:VAL:HA	1.66	0.60
80:A6:513:U:H2'	80:A6:514:G:C8	2.37	0.60
80:A6:675:U:H2'	80:A6:676:G:C8	2.37	0.60
80:A6:827:C:H2'	80:A6:828:U:H6	1.64	0.60
80:A6:1097:U:O3'	4:CC:159:THR:HG21	2.02	0.60
80:A6:1255:G:O2'	80:A6:1256:A:O5'	2.19	0.60
80:A6:1570:A:OP1	86:A6:2016:OHX:N4	2.35	0.60
6:CE:184:THR:C	6:CE:189:LEU:HD13	2.26	0.60
17:CP:68:PRO:O	86:CP:201:OHX:N5	2.35	0.60
26:CY:10:ARG:C	26:CY:12:VAL:H	2.10	0.60
32:Ce:14:VAL:O	32:Ce:18:THR:HG23	2.02	0.60
36:A5:1222:G:O6	86:A5:3643:OHX:N1	2.35	0.60
36:A5:2537:U:H2'	36:A5:2538:U:O4'	2.01	0.60
86:A7:203:OHX:N3	86:A7:211:OHX:N5	2.49	0.60
38:A8:107:G:OP2	86:A8:215:OHX:N1	2.35	0.60
39:DA:206:PRO:HD3	39:DA:213:GLY:HA2	1.84	0.60
42:DD:184:ASP:HB3	42:DD:187:THR:HB	1.84	0.60
42:DD:226:TYR:CE1	42:DD:236:LEU:HD11	2.36	0.60
82:DK:134:UNK:O	82:DK:137:UNK:N	2.35	0.60
72:Di:25:LYS:HB2	72:Di:28:TYR:HD2	1.67	0.60
1:A2:839:U:C4	86:A2:2074:OHX:N4	2.69	0.59
8:AG:135:PRO:HB2	8:AG:141:ILE:HG12	1.84	0.59
8:AG:219:ARG:O	8:AG:223:LYS:HB2	2.01	0.59
36:A1:208:C:C2'	36:A1:209:A:H5'	2.32	0.59
36:A1:1033:U:H2'	36:A1:1034:U:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BF:144:ILE:O	44:BF:148:VAL:HG23	2.02	0.59
80:A6:221:A:C2'	80:A6:222:A:H5'	2.32	0.59
15:CN:151:ASN:O	86:CN:201:OHX:N6	2.35	0.59
22:CU:104:THR:OG1	22:CU:105:GLN:N	2.35	0.59
34:Cg:93:ASP:HB3	34:Cg:96:THR:HG22	1.84	0.59
36:A5:920:A:OP1	36:A5:922:U:H5	1.84	0.59
86:A5:3489:OHX:N1	86:DA:302:OHX:N3	2.49	0.59
86:A5:3516:OHX:N4	86:A5:3603:OHX:N2	2.49	0.59
86:A5:3607:OHX:N5	86:A5:3801:OHX:N2	2.50	0.59
49:DL:93:ILE:HG22	49:DL:94:GLY:N	2.17	0.59
50:DM:113:THR:HG22	50:DM:115:PHE:H	1.66	0.59
62:DY:82:VAL:O	62:DY:84:LYS:N	2.35	0.59
78:Do:74:CYS:HG	88:Do:203:ZN:ZN	1.13	0.59
21:AT:111:ILE:HG23	21:AT:113:ILE:HG13	1.84	0.59
27:AZ:88:ILE:HA	27:AZ:104:ALA:HB2	1.85	0.59
34:Ag:93:ASP:HB2	34:Ag:100:TYR:CE1	2.37	0.59
35:Ah:53:ARG:HA	35:Ah:53:ARG:HE	1.67	0.59
36:A1:621:A:O2'	86:A1:3726:OHX:N5	2.35	0.59
36:A1:1176:C:H2'	36:A1:1177:G:N2	2.17	0.59
36:A1:1481:A:OP1	36:A1:1481:A:O4'	2.20	0.59
36:A1:2533:G:O6	86:A1:3751:OHX:N4	2.35	0.59
36:A1:2656:A:H4'	78:Bo:98:LYS:HD2	1.83	0.59
40:BB:345:ASN:OD1	40:BB:347:SER:HB2	2.02	0.59
80:A6:542:A:C8	80:A6:543:C:H2'	2.38	0.59
20:CS:129:TRP:O	81:Ch:68:ARG:HB2	2.02	0.59
36:A5:1081:U:HO2'	36:A5:1082:U:C5'	2.15	0.59
1:A2:470:A:H5''	1:A2:470:A:H8	1.67	0.59
1:A2:498:G:O2'	1:A2:499:U:P	2.60	0.59
1:A2:1381:U:H1'	1:A2:1516:A:N6	2.17	0.59
6:AE:200:ARG:NH2	6:AE:202:ASP:OD1	2.36	0.59
10:AI:39:GLY:N	10:AI:60:ILE:O	2.30	0.59
27:AZ:42:LEU:HD12	27:AZ:43:ASP:N	2.17	0.59
36:A1:191:U:H2'	36:A1:192:C:C6	2.37	0.59
36:A1:1565:G:H1'	36:A1:1575:A:C2	2.37	0.59
40:BB:214:MET:SD	40:BB:281:LYS:HG3	2.42	0.59
46:BH:180:TYR:HB2	76:Bm:85:LEU:HD13	1.83	0.59
80:A6:542:A:C8	80:A6:543:C:H5'	2.38	0.59
80:A6:1228:G:OP1	14:CM:119:SER:OG	2.19	0.59
80:A6:1701:N:H3'	80:A6:1702:N:H5''	1.85	0.59
80:A6:1714:A:H2'	80:A6:1715:G:O4'	2.02	0.59
86:A6:1951:OHX:N5	86:A6:2090:OHX:N6	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CF:68:ILE:HD13	7:CF:69:PHE:H	1.66	0.59
9:CH:117:THR:HG22	9:CH:120:ALA:CB	2.32	0.59
23:CV:60:ARG:HA	23:CV:65:SER:HB2	1.84	0.59
36:A5:22:G:H1'	38:A8:104:A:N3	2.16	0.59
36:A5:1879:A:H4'	36:A5:1880:U:OP2	2.02	0.59
36:A5:3078:U:H4'	36:A5:3079:U:O5'	2.03	0.59
86:A5:3474:OHX:N5	86:A5:3681:OHX:N1	2.49	0.59
86:A5:3569:OHX:N3	86:A5:3738:OHX:N6	2.51	0.59
86:A5:3591:OHX:N1	86:A5:3812:OHX:N4	2.51	0.59
37:A7:2:G:H5'	42:DD:270:LYS:HG2	1.84	0.59
47:DI:177:ASP:OD2	47:DI:177:ASP:N	2.35	0.59
1:A2:1370:U:H4'	1:A2:1371:A:C5'	2.31	0.59
14:AM:56:GLU:HB3	14:AM:124:LYS:HG2	1.84	0.59
18:AQ:49:TYR:HB3	18:AQ:53:LEU:HD11	1.82	0.59
24:AW:104:LEU:HB2	24:AW:124:LYS:O	2.01	0.59
26:AY:104:SER:HB3	26:AY:107:GLN:HB2	1.85	0.59
36:A1:385:A:H2'	36:A1:386:A:C8	2.37	0.59
36:A1:917:A:OP2	86:A1:3703:OHX:N2	2.35	0.59
36:A1:1621:A:H2'	36:A1:1622:U:C6	2.38	0.59
36:A1:1636:U:H5''	63:BZ:73:LYS:HZ2	1.68	0.59
36:A1:2688:U:OP1	42:BD:12:TYR:OH	2.20	0.59
66:Bc:16:LEU:HD11	66:Bc:97:ASP:HB3	1.83	0.59
75:Bl:23:LEU:HD22	75:Bl:24:PRO:HD2	1.84	0.59
80:A6:138:A:H62	80:A6:266:A:H61	1.49	0.59
80:A6:189:C:H2'	80:A6:190:C:H5'	1.83	0.59
80:A6:213:A:OP2	86:A6:2005:OHX:N1	2.35	0.59
80:A6:381:C:OP1	6:CE:10:LYS:HD3	2.02	0.59
3:CB:35:PRO:HB3	3:CB:231:LEU:HD21	1.84	0.59
6:CE:251:GLU:O	6:CE:255:ARG:HG2	2.01	0.59
9:CH:98:ILE:HD13	9:CH:118:LEU:HA	1.84	0.59
10:CI:62:THR:HA	10:CI:76:THR:O	2.02	0.59
17:CP:85:ILE:HG22	17:CP:112:LEU:HD23	1.85	0.59
26:CY:49:LYS:HD3	26:CY:49:LYS:N	2.17	0.59
81:Ch:65:THR:OG1	81:Ch:66:ALA:N	2.34	0.59
36:A5:96:G:OP1	49:DL:15:ARG:NH2	2.35	0.59
36:A5:2103:U:H2'	36:A5:2104:A:H8	1.66	0.59
36:A5:2511:A:C2'	36:A5:2512:C:H5''	2.32	0.59
42:DD:41:LYS:HB2	57:DT:68:THR:O	2.01	0.59
45:DG:132:VAL:HG21	45:DG:190:VAL:HG22	1.83	0.59
83:Dq:97:LYS:O	83:Dq:101:VAL:HG23	2.02	0.59
3:AB:147:ALA:O	3:AB:148:ASN:ND2	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:177:MET:SD	5:AD:182:LEU:HD11	2.43	0.59
10:AI:39:GLY:O	10:AI:59:ARG:HB3	2.02	0.59
36:A1:603:A:H2'	36:A1:604:G:O4'	2.03	0.59
86:A1:3549:OHX:N6	86:A1:3735:OHX:N5	2.51	0.59
39:BA:117:GLU:HB3	39:BA:119:LYS:O	2.02	0.59
47:BI:66:GLU:CD	47:BI:69:ARG:HH21	2.09	0.59
69:Bf:73:ARG:HG3	69:Bf:82:ARG:HG3	1.83	0.59
17:CP:127:ARG:NH2	81:Ch:66:ALA:HB2	2.18	0.59
36:A5:566:G:N7	86:A5:3646:OHX:N5	2.50	0.59
86:A5:3492:OHX:N6	86:A5:3737:OHX:N3	2.51	0.59
42:DD:85:ARG:HD3	42:DD:86:TYR:CE2	2.38	0.59
42:DD:261:THR:OG1	42:DD:264:GLN:HG3	2.02	0.59
1:A2:229:U:H3	1:A2:236:A:H61	1.51	0.59
1:A2:514:G:N1	1:A2:543:C:H5	2.00	0.59
1:A2:538:A:H8	1:A2:543:C:C4	2.19	0.59
1:A2:1711:C:O2'	1:A2:1712:A:OP1	2.14	0.59
36:A1:650:C:H2'	36:A1:651:G:C8	2.37	0.59
41:BC:204:GLY:O	41:BC:246:ARG:NH1	2.35	0.59
78:Bo:74:CYS:SG	78:Bo:77:CYS:SG	3.01	0.59
80:A6:555:A:C8	80:A6:555:A:H3'	2.38	0.59
20:CS:7:GLU:HB3	20:CS:10:SER:OG	2.03	0.59
36:A5:1329:U:H4'	36:A5:1330:A:OP1	2.02	0.59
36:A5:1567:U:H1'	36:A5:1570:U:H5	1.66	0.59
36:A5:1764:U:H3'	36:A5:1765:U:H5''	1.84	0.59
36:A5:3049:A:H5'	36:A5:3049:A:C8	2.34	0.59
86:A5:3526:OHX:N4	86:A5:3739:OHX:N1	2.51	0.59
86:A5:3607:OHX:N3	86:A5:3801:OHX:N4	2.51	0.59
47:DI:168:SER:HB2	57:DT:160:ILE:O	2.03	0.59
62:DY:120:GLN:NE2	62:DY:126:LEU:HA	2.18	0.59
63:DZ:54:THR:H	63:DZ:57:HIS:CD2	2.20	0.59
1:A2:987:G:C2	39:BA:249:SER:HB2	2.38	0.59
14:AM:28:LEU:HD13	14:AM:32:LEU:HD11	1.84	0.59
36:A1:3295:A:OP2	40:BB:126:LYS:N	2.33	0.59
40:BB:305:ILE:HG12	40:BB:321:PHE:CZ	2.36	0.59
46:BH:91:ARG:HG3	46:BH:91:ARG:NH2	1.98	0.59
49:BL:157:ARG:HG2	49:BL:158:ALA:N	2.18	0.59
71:Bh:101:THR:HG22	71:Bh:104:GLN:H	1.66	0.59
79:Bp:56:THR:HG22	79:Bp:63:THR:HG23	1.85	0.59
5:CD:44:THR:O	5:CD:45:LYS:HB2	2.01	0.59
14:CM:40:GLY:O	14:CM:124:LYS:N	2.32	0.59
18:CQ:50:GLU:OE2	18:CQ:82:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CU:97:VAL:HG13	22:CU:98:GLN:H	1.67	0.59
36:A5:1790:G:O6	86:A5:3731:OHX:N4	2.35	0.59
36:A5:2653:C:OP1	78:DO:89:LYS:HB2	2.03	0.59
36:A5:3008:A:OP1	52:DO:72[A]:HIS:HD2	1.86	0.59
45:DG:108:ARG:O	45:DG:112:GLU:N	2.31	0.59
57:DT:17:ARG:HG2	57:DT:17:ARG:NH1	2.17	0.59
72:Di:40:VAL:O	72:Di:44:VAL:HG23	2.02	0.59
1:A2:143:G:H2'	1:A2:144:U:H5''	1.85	0.59
1:A2:399:A:H4'	6:AE:3:ARG:HG2	1.85	0.59
1:A2:1657:U:H1'	1:A2:1658:G:OP2	2.02	0.59
7:AF:145:ASP:OD2	7:AF:146:THR:N	2.36	0.59
8:AG:3:LEU:HD13	8:AG:111:LEU:HD11	1.85	0.59
9:AH:51:VAL:HG23	9:AH:53:GLY:H	1.67	0.59
21:AT:16:ASN:OD1	21:AT:56:LYS:NZ	2.35	0.59
36:A1:339:C:H6	36:A1:339:C:H5'	1.66	0.59
36:A1:1017:C:O2'	36:A1:1018:G:P	2.61	0.59
36:A1:1213:G:OP1	56:BS:137:ARG:HD3	2.01	0.59
36:A1:3280:U:O2'	36:A1:3281:U:OP2	2.18	0.59
78:Bo:14:GLY:O	78:Bo:16:THR:N	2.35	0.59
80:A6:151:G:H1	80:A6:163:G:H1	1.51	0.59
80:A6:762:A:OP1	11:CJ:79:ARG:NH1	2.31	0.59
14:CM:42:ALA:HB1	14:CM:47:GLU:HB3	1.84	0.59
86:A5:3550:OHX:N6	86:A5:3808:OHX:N5	2.51	0.59
86:A5:3577:OHX:N2	86:A5:3729:OHX:N1	2.51	0.59
1:A2:407:A:H2'	1:A2:408:C:C6	2.38	0.59
1:A2:580:A:OP1	86:A2:2027:OHX:N4	2.36	0.59
3:AB:141:ALA:HB1	3:AB:207:LEU:HD23	1.84	0.59
4:AC:245:ASP:OD1	4:AC:245:ASP:N	2.34	0.59
7:AF:166:ARG:HD3	30:Ac:45:LYS:HG3	1.83	0.59
36:A1:1765:U:H5''	55:BR:43:LYS:HE2	1.84	0.59
36:A1:2898:G:OP2	36:A1:2899:C:H5'	2.03	0.59
86:A1:3483:OHX:N5	86:A1:3806:OHX:N2	2.51	0.59
51:BN:34:ASN:O	51:BN:37:HIS:HD2	1.86	0.59
62:BY:91:ASN:O	62:BY:93:ALA:N	2.35	0.59
63:BZ:9:LYS:HD2	63:BZ:83:THR:O	2.02	0.59
71:Bh:21:LEU:HD22	71:Bh:25:LYS:HE3	1.85	0.59
77:Bn:20:VAL:O	77:Bn:23:ARG:HB2	2.02	0.59
80:A6:476:U:OP1	80:A6:477:A:O2'	2.20	0.59
80:A6:1595:U:N3	80:A6:1600:A:C2	2.71	0.59
3:CB:190:PRO:HG2	3:CB:192:VAL:HG23	1.85	0.59
5:CD:67:ASN:HA	5:CD:70:THR:OG1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CI:8:ARG:NH2	10:CI:28:GLU:OE1	2.36	0.59
19:CR:77:GLU:HG2	19:CR:80:ARG:HH21	1.68	0.59
36:A5:692:A:OP1	51:DN:201:ARG:NH2	2.32	0.59
36:A5:1113:G:OP2	86:A5:3650:OHX:N2	2.36	0.59
36:A5:1581:C:OP2	36:A5:1581:C:H4'	2.03	0.59
36:A5:2439:A:N6	36:A5:2508:U:H3	2.01	0.59
36:A5:2546:C:H2'	36:A5:2547:A:H8	1.68	0.59
36:A5:3074:G:OP1	86:A5:3633:OHX:N4	2.35	0.59
36:A5:3219:G:N7	69:Df:2:ALA:HB1	2.18	0.59
86:A5:3474:OHX:N5	86:A5:3681:OHX:N2	2.50	0.59
86:A5:3492:OHX:N4	86:A5:3737:OHX:N5	2.51	0.59
86:A5:3569:OHX:N5	86:A5:3738:OHX:N2	2.50	0.59
86:A5:3607:OHX:N1	86:A5:3801:OHX:N4	2.50	0.59
63:DZ:46:ILE:HG12	63:DZ:49:TYR:CE1	2.37	0.59
74:Dk:32:ASN:HD21	74:Dk:34:ALA:HB3	1.67	0.59
1:A2:7:G:N7	4:AC:205:ARG:NH1	2.51	0.59
1:A2:569:C:H41	25:AX:69:ARG:HH12	1.49	0.59
1:A2:702:G:C6	1:A2:737:A:N6	2.71	0.59
1:A2:1071:U:H2'	1:A2:1072:C:C6	2.38	0.59
17:AP:52:LYS:HG3	17:AP:53:PRO:HD3	1.85	0.59
34:Ag:214:ALA:HB2	34:Ag:220:ILE:HA	1.85	0.59
36:A1:929:A:H2'	36:A1:930:U:C6	2.38	0.59
36:A1:2655:U:C5	78:Bo:4:VAL:HG12	2.38	0.59
36:A1:3329:U:H5''	40:BB:308:MET:HE3	1.84	0.59
64:Ba:77:LYS:O	64:Ba:79:TRP:N	2.36	0.59
70:Bg:8:ARG:HG2	70:Bg:8:ARG:HH11	1.67	0.59
78:Bo:17:CYS:HG	78:Bo:74:CYS:HG	1.51	0.59
3:CB:113:MET:HE2	3:CB:142:PHE:CE2	2.36	0.59
5:CD:7:LYS:HE3	22:CU:27:THR:HG21	1.85	0.59
9:CH:109:VAL:O	9:CH:110:GLN:HB2	2.01	0.59
11:CJ:146:PHE:O	11:CJ:147:MET:HB2	2.02	0.59
22:CU:100:VAL:O	22:CU:104:THR:HG23	2.03	0.59
36:A5:30:G:P	51:DN:172:ARG:HH11	2.26	0.59
36:A5:531:G:N7	86:A5:3732:OHX:N3	2.50	0.59
36:A5:2236:G:OP1	86:A5:3790:OHX:N3	2.35	0.59
36:A5:2248:C:OP1	86:A5:3775:OHX:N2	2.36	0.59
36:A5:3341:U:H5''	36:A5:3342:A:OP2	2.01	0.59
86:A5:3550:OHX:N4	86:A5:3808:OHX:N1	2.51	0.59
39:DA:52:SER:HB3	39:DA:191:LEU:HD12	1.85	0.59
57:DT:12:ARG:HD3	57:DT:13:TYR:CZ	2.38	0.59
1:A2:1738:U:H2'	1:A2:1739:C:C6	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1796:C:H5	28:Aa:6:ALA:H	1.50	0.58
2:AA:121:VAL:HG23	2:AA:141:ILE:HG21	1.84	0.58
17:AP:28:MET:O	17:AP:29:SER:HB3	2.02	0.58
18:AQ:55:VAL:HG21	18:AQ:105:LEU:HG	1.85	0.58
20:AS:54:LEU:H	20:AS:54:LEU:HD22	1.66	0.58
36:A1:626:U:O4	86:A1:3544:OHX:N5	2.36	0.58
86:A1:3483:OHX:N3	86:A1:3806:OHX:N6	2.51	0.58
40:BB:150:ARG:HH11	40:BB:150:ARG:CG	2.16	0.58
48:BJ:15:GLU:HB3	48:BJ:130:VAL:HG22	1.85	0.58
56:BS:91:TYR:O	56:BS:137:ARG:NH1	2.36	0.58
67:Bd:19:ARG:HD3	67:Bd:35:GLU:CG	2.33	0.58
70:Bg:58:ARG:CG	70:Bg:58:ARG:HH11	2.16	0.58
80:A6:491:C:N4	80:A6:497:G:H21	2.01	0.58
80:A6:820:U:O2'	80:A6:821:U:H5''	2.03	0.58
80:A6:1637:C:OP2	86:A6:1971:OHX:N4	2.36	0.58
86:A6:2015:OHX:N2	25:CX:64:PRO:O	2.36	0.58
12:CK:70:GLU:O	12:CK:73:VAL:HG22	2.02	0.58
30:Cc:8:THR:HB	30:Cc:56:LEU:HB2	1.85	0.58
36:A5:1481:A:O2'	36:A5:1858:A:C2	2.56	0.58
36:A5:1605:A:O2'	36:A5:1607:U:OP2	2.12	0.58
36:A5:3280:U:O2'	36:A5:3281:U:H5''	2.03	0.58
86:A5:3516:OHX:N2	77:Dn:23:ARG:O	2.35	0.58
41:DC:300:ARG:HH11	41:DC:300:ARG:CG	2.15	0.58
71:Dh:10:ARG:NH1	71:Dh:60:GLU:OE1	2.36	0.58
73:Dj:65:ARG:HH11	73:Dj:65:ARG:HG3	1.67	0.58
1:A2:67:A:O3'	1:A2:68:A:H3'	2.04	0.58
1:A2:497:G:H2'	1:A2:498:G:C8	2.36	0.58
2:AA:169:SER:O	2:AA:173:ILE:HG12	2.03	0.58
3:AB:193:ILE:O	3:AB:197:ILE:HG12	2.03	0.58
6:AE:49:ARG:HB2	6:AE:55:ALA:HB3	1.85	0.58
35:Ah:79:SER:O	35:Ah:82:THR:OG1	2.21	0.58
36:A1:149:U:OP2	51:BN:49:ARG:NH2	2.35	0.58
36:A1:1073:U:H1'	65:Bb:50:THR:HG22	1.85	0.58
36:A1:1119:C:OP2	86:A1:3498:OHX:N1	2.36	0.58
36:A1:2216:G:OP1	72:Bi:75:LYS:NZ	2.28	0.58
36:A1:2523:A:OP1	61:BX:31:THR:OG1	2.19	0.58
36:A1:2736:A:O2'	57:BT:68:THR:HG21	2.02	0.58
86:A1:3432:OHX:N5	86:A1:3798:OHX:N6	2.51	0.58
53:BP:169:THR:HG23	69:Bf:60:ARG:HH11	1.68	0.58
58:BU:37:LEU:O	58:BU:41:ILE:HG13	2.03	0.58
80:A6:1230:A:H2'	80:A6:1258:U:H5	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:1511:U:H2'	80:A6:1512:G:C8	2.37	0.58
18:CQ:18:ALA:HB2	18:CQ:69:VAL:HG13	1.85	0.58
36:A5:547:G:H2'	36:A5:548:G:O4'	2.03	0.58
36:A5:2897:A:H2'	36:A5:2899:C:C5'	2.32	0.58
86:A5:3489:OHX:N1	86:DA:302:OHX:N5	2.50	0.58
86:A5:3569:OHX:N5	86:A5:3738:OHX:N6	2.51	0.58
41:DC:259:ASP:OD1	41:DC:259:ASP:N	2.35	0.58
77:Dn:16:LYS:O	77:Dn:20:VAL:HG23	2.02	0.58
1:A2:380:U:H5	11:AJ:5:PRO:HA	1.68	0.58
1:A2:975:C:H5''	15:AN:109:LYS:HE2	1.85	0.58
10:AI:5:ARG:HD3	10:AI:29:LEU:O	2.02	0.58
24:AW:111:MET:HE3	24:AW:116:ALA:HA	1.85	0.58
33:Af:144:CYS:HB3	33:Af:147:VAL:HG13	1.85	0.58
36:A1:230:U:H2'	36:A1:231:G:O4'	2.04	0.58
36:A1:508:U:H2'	36:A1:509:U:C6	2.39	0.58
36:A1:1278:A:HO2'	36:A1:1279:C:H6	1.49	0.58
36:A1:1320:C:O2	56:BS:115:ARG:NH2	2.37	0.58
36:A1:3228:C:O2'	36:A1:3229:G:OP2	2.21	0.58
48:BJ:82:ARG:HG3	48:BJ:112:LEU:HB2	1.85	0.58
55:BR:99:LEU:O	55:BR:103:ARG:HB2	2.04	0.58
80:A6:80:A:OP2	86:A6:2075:OHX:N5	2.36	0.58
15:CN:26:PHE:CE2	15:CN:28:LEU:HB2	2.39	0.58
20:CS:30:TYR:CE2	20:CS:40:ARG:HD2	2.38	0.58
22:CU:50:LEU:HD22	22:CU:95:ALA:HB2	1.86	0.58
36:A5:626:U:O4	86:A5:3497:OHX:N4	2.36	0.58
36:A5:776:U:C5	36:A5:2719:U:O2	2.52	0.58
36:A5:1942:U:OP2	55:DR:74:ARG:NH1	2.30	0.58
36:A5:2579:G:O6	86:A5:3546:OHX:N1	2.36	0.58
36:A5:3228:C:H4'	36:A5:3229:G:O5'	2.03	0.58
86:A5:3461:OHX:N4	86:A5:3772:OHX:N2	2.51	0.58
43:DE:176:PHE:H	50:DM:117:ARG:HH22	1.51	0.58
64:Da:120:ASN:O	64:Da:141:ALA:HB1	2.03	0.58
1:A2:68:A:OP1	8:AG:160:ARG:NH1	2.36	0.58
1:A2:702:G:O2'	1:A2:703:G:O4'	2.21	0.58
3:AB:97:LEU:CD1	3:AB:98:THR:H	2.11	0.58
8:AG:8:PRO:HG3	8:AG:112:VAL:HG13	1.84	0.58
16:AO:38:THR:OG1	16:AO:39:ILE:N	2.36	0.58
16:AO:107:ARG:HG3	16:AO:107:ARG:NH2	2.15	0.58
27:AZ:92:ILE:HG12	27:AZ:100:ILE:HG22	1.84	0.58
34:Ag:74:THR:HG23	34:Ag:79:TYR:HB2	1.85	0.58
36:A1:621:A:O2'	86:A1:3726:OHX:N3	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2726:C:OP1	86:A1:3681:OHX:N3	2.36	0.58
86:A1:3496:OHX:N2	86:A1:3805:OHX:N5	2.51	0.58
67:Bd:79:ARG:NE	67:Bd:79:ARG:H	2.02	0.58
80:A6:416:A:H4'	80:A6:417:A:OP2	2.03	0.58
80:A6:1542:G:H22	80:A6:1568:C:H1'	1.68	0.58
86:A6:1941:OHX:N3	86:A6:2062:OHX:N4	2.52	0.58
2:CA:139:VAL:HG22	4:CC:62:PRO:HG3	1.84	0.58
2:CA:179:ARG:HD3	2:CA:183:ARG:CZ	2.34	0.58
5:CD:90:ARG:HD3	5:CD:91:VAL:HG12	1.84	0.58
27:CZ:49:ARG:NH2	27:CZ:53:GLU:OE2	2.34	0.58
31:Cd:18:SER:O	31:Cd:18:SER:OG	2.05	0.58
61:DX:103:TYR:O	61:DX:105:VAL:HG23	2.03	0.58
1:A2:45:U:O2'	1:A2:46:A:H2'	2.03	0.58
1:A2:833:U:OP2	86:A2:2026:OHX:N4	2.36	0.58
1:A2:1488:G:H3'	1:A2:1515:A:H61	1.68	0.58
1:A2:1796:C:OP1	28:Aa:87:ARG:NH1	2.36	0.58
6:AE:37:LYS:HB2	6:AE:40:GLU:HG2	1.84	0.58
10:AI:37:LYS:H	10:AI:59:ARG:H	1.51	0.58
20:AS:30:TYR:O	20:AS:33:THR:OG1	2.15	0.58
36:A1:239:G:O3'	71:Bh:94:LYS:NZ	2.35	0.58
36:A1:1566:A:H2'	36:A1:1567:U:H5''	1.84	0.58
36:A1:1818:U:C3'	36:A1:1819:U:H5''	2.30	0.58
36:A1:2108:C:H1'	36:A1:3344:A:H8	1.68	0.58
36:A1:2947:G:C2	40:BB:250:ALA:HB1	2.39	0.58
80:A6:567:A:O2'	25:CX:90:ASP:OD2	2.18	0.58
80:A6:754:A:N6	80:A6:793:A:N7	2.36	0.58
5:CD:75:LYS:HB3	12:CK:22:VAL:HG22	1.85	0.58
6:CE:62:LYS:CE	6:CE:66:MET:HE3	2.34	0.58
21:CT:126:GLU:CD	21:CT:126:GLU:H	2.12	0.58
36:A5:1841:A:N3	75:Dl:45:ARG:NH2	2.51	0.58
86:A5:3464:OHX:N5	86:A5:3732:OHX:N2	2.52	0.58
41:DC:138:ARG:NH2	41:DC:240:PRO:HB2	2.18	0.58
53:DP:30:ARG:HA	53:DP:119:VAL:CG1	2.33	0.58
53:DP:67:ILE:HD12	53:DP:82:ARG:CZ	2.34	0.58
58:DU:19:VAL:HG12	58:DU:105:LEU:HD22	1.85	0.58
65:Db:14:ARG:NH2	65:Db:18:ARG:HH11	2.02	0.58
1:A2:765:G:H1	11:AJ:149:ARG:HB3	1.67	0.58
1:A2:1480:G:H4'	21:AT:11:ALA:HB1	1.84	0.58
2:AA:150:ASP:OD1	2:AA:165:ARG:NH2	2.36	0.58
2:AA:198:MET:SD	19:AR:85:VAL:HG11	2.44	0.58
8:AG:142:ARG:HA	8:AG:147:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AN:67:THR:O	15:AN:69:ASN:N	2.36	0.58
36:A1:722:G:OP1	86:A1:3779:OHX:N6	2.37	0.58
36:A1:1819:U:O4	86:A1:3587:OHX:N6	2.36	0.58
36:A1:2403:G:OP2	86:A1:3738:OHX:N1	2.37	0.58
36:A1:2443:A:N6	36:A1:2504:U:C4	2.71	0.58
86:A1:3471:OHX:N6	86:A1:3785:OHX:N3	2.50	0.58
86:A1:3509:OHX:N4	86:A1:3746:OHX:N6	2.51	0.58
47:BI:218:ALA:C	86:BI:303:OHX:N3	2.61	0.58
48:BJ:94:ARG:C	48:BJ:96:PHE:H	2.09	0.58
49:BL:94:GLY:HA3	71:Bh:116:TYR:OH	2.03	0.58
78:Bo:9:LYS:HE2	78:Bo:22:GLN:HE22	1.68	0.58
80:A6:469:C:C2'	80:A6:470:A:H5''	2.33	0.58
80:A6:1619:C:H5'	30:Cc:21:SER:HB2	1.85	0.58
80:A6:1620:C:H2'	80:A6:1621:U:C6	2.37	0.58
9:CH:173:TYR:CD1	9:CH:181:ILE:HD11	2.37	0.58
15:CN:20:ARG:HH11	15:CN:20:ARG:HG3	1.68	0.58
36:A5:2440:G:O2'	36:A5:2441:A:OP1	2.18	0.58
36:A5:3358:U:H2'	36:A5:3359:A:C8	2.39	0.58
41:DC:283:THR:HG21	41:DC:288:ARG:HH22	1.69	0.58
47:DI:72:ALA:O	47:DI:76:MET:HG2	2.02	0.58
52:DO:36[B]:VAL:HB	52:DO:108[B]:ILE:HB	1.85	0.58
72:Di:58:ILE:HA	72:Di:61:ILE:HG13	1.84	0.58
1:A2:1385:G:N7	86:A2:2016:OHX:N3	2.51	0.58
1:A2:1525:A:OP1	21:AT:93:HIS:ND1	2.36	0.58
8:AG:186:ARG:O	8:AG:190:GLN:HG2	2.04	0.58
23:AV:17:CYS:HB2	23:AV:56:SER:HB3	1.84	0.58
36:A1:1834:U:OP1	75:BI:5:LYS:HE2	2.03	0.58
36:A1:3156:U:O2'	36:A1:3157:U:O5'	2.19	0.58
41:BC:269:SER:O	41:BC:271:LYS:N	2.37	0.58
54:BQ:123:THR:OG1	54:BQ:125:ASP:OD2	2.21	0.58
72:Bi:53:TYR:HB2	72:Bi:76:ARG:HD2	1.84	0.58
80:A6:782:U:OP2	86:A6:2056:OHX:N3	2.37	0.58
80:A6:894:U:H2'	80:A6:895:G:C8	2.38	0.58
80:A6:1230:A:H2	80:A6:1255:G:H21	1.49	0.58
80:A6:1665:U:C5'	80:A6:1665:U:H6	2.17	0.58
86:A6:1941:OHX:N5	86:A6:2062:OHX:N1	2.51	0.58
3:CB:71:ALA:HB3	16:CO:114:ARG:NH1	2.19	0.58
21:CT:86:ARG:NH1	21:CT:90:PRO:O	2.36	0.58
26:CY:20:ARG:HE	26:CY:22:GLN:HE21	1.52	0.58
36:A5:200:C:OP1	62:DY:60:ARG:NH1	2.36	0.58
36:A5:1863:G:O6	86:A5:3509:OHX:N5	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A5:3550:OHX:N3	86:A5:3808:OHX:N1	2.51	0.58
40:DB:256:HIS:HA	40:DB:257:PRO:C	2.29	0.58
47:DI:86:HIS:HB3	47:DI:139:ARG:CG	2.34	0.58
49:DL:153:ASP:OD1	49:DL:157:ARG:NH2	2.36	0.58
57:DT:14:MET:HE1	57:DT:55:LYS:HB2	1.85	0.58
74:Dk:58:ASP:HB3	74:Dk:61:LYS:HG3	1.86	0.58
1:A2:373:G:N7	86:A2:2060:OHX:N6	2.51	0.58
1:A2:542:A:H2'	1:A2:543:C:H3'	1.85	0.58
1:A2:1160:A:H2'	1:A2:1161:C:H6	1.69	0.58
1:A2:1483:A:H2'	1:A2:1484:G:C8	2.39	0.58
1:A2:1498:G:H2'	1:A2:1499:G:H5'	1.85	0.58
86:A2:1922:OHX:N4	86:A2:1978:OHX:N6	2.52	0.58
2:AA:27:ARG:HG3	2:AA:44:GLY:O	2.04	0.58
10:AI:8:ARG:HG3	10:AI:8:ARG:O	2.04	0.58
10:AI:10:LYS:HG2	13:AL:133:LYS:HE3	1.85	0.58
16:AO:19:ILE:HB	16:AO:83:ILE:HD12	1.84	0.58
36:A1:127:G:H3'	86:A1:3798:OHX:N2	2.19	0.58
36:A1:1532:C:H2'	36:A1:1533:U:C6	2.39	0.58
36:A1:3215:A:C5'	50:BM:121:MET:HE1	2.33	0.58
86:A1:3496:OHX:N4	86:A1:3650:OHX:N6	2.51	0.58
47:BI:191:LYS:HB3	47:BI:213:PHE:CE2	2.38	0.58
52:BO:73[A]:PHE:CD1	52:BO:78[A]:ARG:HG2	2.39	0.58
53:BP:30:ARG:HD3	53:BP:30:ARG:C	2.29	0.58
4:CC:163:GLY:O	4:CC:164:SER:HB3	2.03	0.58
6:CE:100:ARG:HG2	6:CE:102:VAL:HG12	1.86	0.58
11:CJ:171:ARG:HE	11:CJ:174:ARG:HB2	1.67	0.58
16:CO:103:ARG:HH12	28:Ca:48:ALA:CB	2.17	0.58
26:CY:29:HIS:HB3	26:CY:32:ARG:HB2	1.86	0.58
33:Cf:86:UNK:C	33:Cf:87:UNK:HG3	2.33	0.58
36:A5:155:G:H1'	72:Di:26:ILE:HD13	1.86	0.58
36:A5:1308:A:OP2	36:A5:1308:A:H8	1.85	0.58
36:A5:3043:C:OP2	59:DV:48:ARG:NH2	2.37	0.58
86:A5:3533:OHX:N3	86:DG:301:OHX:N4	2.51	0.58
86:A5:3591:OHX:N2	86:A5:3812:OHX:N4	2.51	0.58
47:DI:81:GLY:O	47:DI:83:ASP:N	2.36	0.58
52:DO:65[A]:ASN:OD1	52:DO:67[A]:THR:HB	2.04	0.58
74:Dk:44:LYS:HG2	74:Dk:53:THR:HB	1.85	0.58
1:A2:1178:G:H2'	1:A2:1179:G:O4'	2.04	0.58
1:A2:1338:C:H1'	1:A2:1410:A:C4	2.39	0.58
1:A2:1715:G:H2'	1:A2:1716:C:H5'	1.85	0.58
6:AE:104:ASP:HB3	6:AE:106:LYS:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AQ:113:ASP:CG	18:AQ:115:THR:H	2.12	0.58
25:AX:59:ILE:HD12	32:Ae:4:VAL:HG22	1.85	0.58
34:Ag:36:ALA:HB2	34:Ag:71:CYS:HB3	1.85	0.58
36:A1:155:G:O2'	72:Bi:27:SER:HB3	2.03	0.58
36:A1:517:G:P	44:BF:60:ARG:HH22	2.27	0.58
36:A1:980:A:H2'	36:A1:981:U:C2	2.38	0.58
36:A1:3065:G:OP1	55:BR:80:LYS:NZ	2.36	0.58
36:A1:3119:U:OP2	86:A1:3433:OHX:N6	2.37	0.58
40:BB:299:ASP:OD1	40:BB:301:THR:HG23	2.02	0.58
80:A6:1765:A:OP2	86:A6:1981:OHX:N4	2.37	0.58
12:CK:14:TYR:CZ	12:CK:18:GLU:HG3	2.39	0.58
36:A5:3155:U:H3'	36:A5:3156:U:H5''	1.85	0.58
86:A5:3487:OHX:N4	86:A5:3644:OHX:N2	2.52	0.58
86:A5:3591:OHX:N5	86:A5:3812:OHX:N3	2.52	0.58
38:A8:113:U:H5''	75:Dl:7:PHE:HB3	1.84	0.58
41:DC:16:THR:HG23	41:DC:18:ASN:H	1.68	0.58
41:DC:170:LYS:HG3	41:DC:175:HIS:HB2	1.85	0.58
67:Dd:44:MET:O	67:Dd:46:THR:N	2.37	0.58
83:Dq:25:LEU:HB3	83:Dq:191:TYR:HD2	1.68	0.58
1:A2:218:A:O2'	1:A2:219:A:OP1	2.15	0.58
86:A2:1906:OHX:N5	86:AC:301:OHX:N6	2.52	0.58
7:AF:42:LEU:HB2	7:AF:46:TRP:O	2.04	0.58
17:AP:65:LEU:O	86:AP:201:OHX:N1	2.36	0.58
18:AQ:40:GLU:HG3	18:AQ:42:GLU:HB2	1.84	0.58
24:AW:103:ILE:HD11	24:AW:126:LEU:HD12	1.86	0.58
39:BA:129:ALA:HB3	39:BA:132:ASN:ND2	2.19	0.58
52:BO:18[A]:ARG:O	52:BO:22[A]:VAL:HG13	2.04	0.58
24:CW:37:PHE:HD1	24:CW:41:MET:HE2	1.68	0.58
27:CZ:49:ARG:O	27:CZ:53:GLU:HB2	2.03	0.58
36:A5:2510:U:O2'	36:A5:2511:A:H5''	2.03	0.58
36:A5:2852:C:N3	47:DI:158:LYS:NZ	2.52	0.58
36:A5:3045:G:O3'	40:DB:275:ARG:NH1	2.36	0.58
36:A5:3343:G:N2	36:A5:3362:A:H2	1.97	0.58
86:A5:3550:OHX:N3	86:A5:3808:OHX:N5	2.51	0.58
86:A5:3607:OHX:N5	86:A5:3801:OHX:N6	2.51	0.58
86:A7:203:OHX:N4	86:A7:211:OHX:N2	2.51	0.58
41:DC:361:HIS:CG	41:DC:362:ASP:H	2.21	0.58
51:DN:168:GLY:O	51:DN:172:ARG:HB2	2.04	0.58
60:DW:120:LYS:HA	60:DW:123:ARG:HH11	1.69	0.58
65:Db:24:PRO:HD2	65:Db:25:LYS:H	1.69	0.58
1:A2:1332:C:O2'	5:AD:162:GLN:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:179:LYS:N	6:AE:194:THR:O	2.35	0.57
36:A1:2314:U:O2'	36:A1:2315:G:OP1	2.13	0.57
86:A1:3483:OHX:N3	86:A1:3806:OHX:N4	2.52	0.57
86:A1:3801:OHX:N5	53:BP:138:LYS:HE2	2.18	0.57
80:A6:290:G:OP2	86:A6:2099:OHX:N4	2.37	0.57
80:A6:532:U:H2'	80:A6:533:U:O4'	2.04	0.57
80:A6:823:G:H2'	80:A6:824:G:O4'	2.02	0.57
80:A6:1677:C:OP1	10:CI:42:ARG:NH1	2.36	0.57
4:CC:178:ILE:HG21	4:CC:185:LYS:HA	1.86	0.57
5:CD:37:VAL:HG12	5:CD:50:ILE:HA	1.84	0.57
19:CR:86:PRO:HG2	19:CR:88:VAL:HA	1.85	0.57
36:A5:30:G:P	51:DN:172:ARG:NH1	2.77	0.57
36:A5:243:G:H2'	36:A5:244:G:C8	2.39	0.57
36:A5:252:U:H4'	36:A5:253:A:H5''	1.86	0.57
36:A5:1318:A:OP1	52:DO:18[B]:ARG:NH2	2.36	0.57
86:A5:3550:OHX:N4	86:A5:3808:OHX:N2	2.51	0.57
55:DR:27:ASN:O	86:DR:201:OHX:N3	2.37	0.57
1:A2:495:C:H3'	1:A2:496:G:O4'	2.05	0.57
1:A2:639:U:OP2	1:A2:639:U:H4'	2.04	0.57
1:A2:1166:A:H5''	7:AF:101:GLY:H	1.68	0.57
1:A2:1301:U:OP1	4:AC:88:LYS:HB2	2.04	0.57
13:AL:80:MET:HB2	13:AL:83:THR:HG23	1.86	0.57
25:AX:24:TRP:CE3	25:AX:30:LYS:HD3	2.39	0.57
28:Aa:75:VAL:O	28:Aa:79:ILE:N	2.26	0.57
36:A1:169:U:H4'	36:A1:170:G:OP1	2.03	0.57
36:A1:1345:G:N7	86:A1:3503:OHX:N4	2.51	0.57
36:A1:2296:A:OP1	86:A1:3707:OHX:N2	2.36	0.57
36:A1:2726:C:O2'	36:A1:2727:A:H2'	2.04	0.57
80:A6:325:G:H4'	13:CL:80:MET:HE2	1.87	0.57
80:A6:489:C:O2'	80:A6:490:C:O4'	2.21	0.57
80:A6:1559:A:H5''	20:CS:135:GLY:CA	2.35	0.57
36:A5:208:C:C2'	36:A5:209:A:H5'	2.33	0.57
36:A5:370:U:OP1	86:A5:3690:OHX:N1	2.37	0.57
36:A5:2211:U:H5	36:A5:2234:G:C6	2.22	0.57
36:A5:2440:G:H5'	36:A5:2440:G:C8	2.35	0.57
36:A5:2555:G:N2	63:DZ:135:ARG:O	2.35	0.57
40:DB:166:ILE:O	40:DB:169:THR:HB	2.05	0.57
1:A2:241:U:H5'	1:A2:242:U:OP2	2.04	0.57
1:A2:625:C:H2'	1:A2:626:U:C6	2.39	0.57
1:A2:990:C:H2'	1:A2:991:G:O4'	2.05	0.57
1:A2:1595:U:N3	1:A2:1600:A:H2	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:14:PHE:HZ	21:AT:132:LEU:HD23	1.69	0.57
30:Ac:32:PHE:CE2	30:Ac:38:ARG:HB3	2.38	0.57
36:A1:291:C:OP1	51:BN:68:ARG:NH1	2.36	0.57
36:A1:911:C:H42	39:BA:3:ARG:HD3	1.67	0.57
44:BF:163:LEU:O	44:BF:165:ASP:N	2.35	0.57
80:A6:825:U:O2'	80:A6:826:U:OP2	2.22	0.57
86:A6:1941:OHX:N5	86:A6:2062:OHX:N2	2.52	0.57
15:CN:94:LYS:HG2	15:CN:118:ILE:HD13	1.85	0.57
16:CO:129:LYS:HG2	16:CO:130:GLY:N	2.18	0.57
20:CS:145:ARG:HB3	81:Ch:68:ARG:HH12	1.68	0.57
36:A5:892:U:O2'	36:A5:893:C:H5'	2.04	0.57
36:A5:2207:A:H62	36:A5:2236:G:H1	1.52	0.57
36:A5:2537:U:O2'	36:A5:2538:U:O5'	2.22	0.57
36:A5:2946:A:H5''	36:A5:2947:G:H5'	1.86	0.57
36:A5:2971:A:OP2	36:A5:2971:A:H3'	2.04	0.57
40:DB:187:SER:HB3	40:DB:190:GLU:OE1	2.04	0.57
45:DG:133:LYS:HB2	45:DG:199:ALA:O	2.04	0.57
46:DH:22:SER:HB2	46:DH:39:LYS:NZ	2.19	0.57
46:DH:86:TYR:CD1	46:DH:151:VAL:HG13	2.39	0.57
52:DO:10[A]:ASP:OD2	52:DO:37[A]:ARG:NH2	2.31	0.57
58:DU:47:VAL:C	58:DU:49:ASN:H	2.13	0.57
65:Db:46:ALA:O	65:Db:50:THR:HG23	2.03	0.57
1:A2:1029:U:O4	86:A2:2036:OHX:N3	2.38	0.57
7:AF:72:HIS:O	18:AQ:47:LYS:HE2	2.04	0.57
8:AG:78:THR:HG23	8:AG:92:ARG:HG2	1.86	0.57
14:AM:67:THR:C	14:AM:69:ALA:H	2.11	0.57
28:Aa:24:VAL:HG11	28:Aa:71:LEU:HD12	1.85	0.57
36:A1:1770:G:H5'	36:A1:1771:C:OP2	2.05	0.57
36:A1:2850:G:O6	86:A1:3622:OHX:N6	2.36	0.57
86:A1:3439:OHX:N3	86:A1:3802:OHX:N1	2.52	0.57
42:BD:111:GLN:C	42:BD:113:LEU:H	2.12	0.57
42:BD:187:THR:O	42:BD:189:GLU:N	2.36	0.57
68:Be:40:SER:O	68:Be:44:ARG:HG3	2.04	0.57
80:A6:140:A:N6	80:A6:281:G:OP1	2.38	0.57
80:A6:191:C:O2'	80:A6:192:U:O5'	2.19	0.57
2:CA:10:THR:HB	2:CA:12:GLU:HG2	1.86	0.57
2:CA:179:ARG:HD3	2:CA:183:ARG:NE	2.19	0.57
5:CD:202:LEU:C	5:CD:204:ASP:H	2.12	0.57
17:CP:121:ILE:N	81:Ch:57:ASN:OD1	2.37	0.57
36:A5:662:U:OP1	64:Da:8:THR:HG21	2.03	0.57
36:A5:837:A:OP2	79:Dp:4:ARG:NH1	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:1378:U:OP1	86:A5:3542:OHX:N3	2.38	0.57
36:A5:2101:C:O2'	36:A5:2102:U:OP1	2.22	0.57
36:A5:2112:U:H4'	36:A5:2113:A:H5'	1.86	0.57
86:A5:3617:OHX:N3	86:A5:3743:OHX:N6	2.52	0.57
42:DD:152:ARG:HG3	42:DD:152:ARG:NH1	2.19	0.57
46:DH:26:LYS:HG3	46:DH:35:THR:HG22	1.85	0.57
50:DM:113:THR:HG22	50:DM:115:PHE:N	2.20	0.57
67:Dd:13:THR:CG2	67:Dd:72:ARG:HH21	2.17	0.57
67:Dd:46:THR:HG23	67:Dd:47:ASP:N	2.19	0.57
1:A2:104:A:OP2	1:A2:308:C:N4	2.37	0.57
1:A2:704:C:H3'	1:A2:704:C:OP2	2.04	0.57
2:AA:66:ALA:HB2	23:AV:37:ALA:HB2	1.85	0.57
9:AH:74:GLN:NE2	9:AH:92:PHE:HB2	2.20	0.57
36:A1:776:U:C5	36:A1:2719:U:O2	2.54	0.57
36:A1:1029:G:H2'	36:A1:1030:A:C8	2.39	0.57
36:A1:1724:U:OP2	55:BR:128:LYS:NZ	2.37	0.57
36:A1:2442:G:H22	36:A1:2505:U:H3	1.51	0.57
36:A1:3139:A:H8	36:A1:3139:A:C5'	2.14	0.57
36:A1:3151:U:OP2	40:BB:132:LYS:NZ	2.26	0.57
44:BF:173:LEU:HD23	44:BF:178:ILE:HG21	1.87	0.57
80:A6:407:A:H2'	80:A6:408:C:C6	2.40	0.57
80:A6:578:U:O2	86:A6:2010:OHX:N5	2.37	0.57
80:A6:1797:A:N1	28:Ca:87:ARG:HD2	2.19	0.57
7:CF:140:THR:HA	7:CF:214:LYS:HD2	1.86	0.57
8:CG:137:ARG:O	8:CG:141:ILE:HG13	2.03	0.57
10:CI:115:ALA:O	10:CI:117:TYR:N	2.37	0.57
15:CN:3:ARG:HA	15:CN:3:ARG:NE	2.20	0.57
36:A5:830:A:OP1	86:A5:3576:OHX:N6	2.37	0.57
36:A5:979:U:H4'	36:A5:980:A:OP1	2.04	0.57
36:A5:1579:C:H2'	36:A5:1580:A:H5'	1.86	0.57
36:A5:2725:U:O4	86:A5:3473:OHX:N1	2.38	0.57
36:A5:2897:A:H2'	36:A5:2899:C:H5''	1.86	0.57
42:DD:258:LYS:HG2	42:DD:258:LYS:O	2.02	0.57
82:DK:118:UNK:O	82:DK:120:UNK:N	2.37	0.57
51:DN:46:ASP:OD2	51:DN:46:ASP:N	2.38	0.57
56:DS:155:ARG:HD3	56:DS:172:TYR:CG	2.39	0.57
60:DW:25:ASP:OD2	60:DW:25:ASP:N	2.36	0.57
66:Dc:99:ASP:O	66:Dc:101:LEU:N	2.37	0.57
70:Dg:8:ARG:HH21	70:Dg:31:ARG:HD2	1.70	0.57
1:A2:83:G:OP2	86:A2:1945:OHX:N5	2.38	0.57
1:A2:918:U:H2'	1:A2:919:A:C8	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1130:G:OP2	86:A2:1953:OHX:N2	2.38	0.57
36:A1:551:A:O2'	36:A1:552:G:O5'	2.22	0.57
36:A1:1482:A:H4'	36:A1:1483:G:OP2	2.04	0.57
41:BC:152:VAL:CG2	41:BC:172:VAL:HG21	2.35	0.57
52:BO:32[A]:LYS:HA	52:BO:101[A]:ARG:HB3	1.87	0.57
80:A6:600:U:OP2	25:CX:108:GLY:HA2	2.05	0.57
80:A6:651:G:H3'	86:A6:2022:OHX:N3	2.19	0.57
80:A6:717:C:H42	80:A6:720:G:H1	1.51	0.57
80:A6:952:A:H5''	15:CN:94:LYS:HE3	1.87	0.57
86:A6:1915:OHX:N2	86:A6:2002:OHX:N6	2.52	0.57
86:A6:1941:OHX:N6	86:A6:2062:OHX:N2	2.53	0.57
6:CE:23:LEU:O	6:CE:24:SER:HB2	2.05	0.57
86:CG:301:OHX:N2	86:CG:302:OHX:N6	2.53	0.57
20:CS:91:ASP:OD1	20:CS:92:ILE:N	2.37	0.57
36:A5:708:G:H5''	36:A5:708:G:H8	1.70	0.57
36:A5:3298:C:OP1	53:DP:74:LYS:NZ	2.36	0.57
86:A5:3473:OHX:N3	86:A5:3680:OHX:N5	2.52	0.57
44:DF:151:ARG:HD2	44:DF:244:ASN:OD1	2.04	0.57
45:DG:90:THR:HG22	45:DG:214:LEU:HG	1.87	0.57
1:A2:324:U:OP1	13:AL:133:LYS:NZ	2.36	0.57
1:A2:735:C:H2'	1:A2:735:C:OP2	2.05	0.57
5:AD:115:ILE:HG23	5:AD:116:ARG:HG3	1.87	0.57
9:AH:143:LEU:HB2	9:AH:147:ASN:HB2	1.85	0.57
10:AI:48:THR:HG21	10:AI:54:LYS:HB2	1.87	0.57
20:AS:70:VAL:HG12	20:AS:74:GLN:OE1	2.05	0.57
36:A1:1108:U:H2'	36:A1:1109:U:C6	2.40	0.57
36:A1:2617:U:H5	36:A1:2621:G:OP2	1.88	0.57
86:A1:3471:OHX:N2	86:A1:3785:OHX:N1	2.53	0.57
86:A1:3542:OHX:N1	86:A1:3751:OHX:N5	2.53	0.57
39:BA:116:VAL:HG22	39:BA:126:LEU:HD12	1.86	0.57
40:BB:188:ILE:HA	40:BB:191:LYS:HD2	1.87	0.57
63:BZ:54:THR:O	63:BZ:57:HIS:HB2	2.04	0.57
71:Bh:10:ARG:NH1	71:Bh:60:GLU:OE2	2.38	0.57
80:A6:144:U:H5	8:CG:137:ARG:NH1	2.02	0.57
80:A6:329:G:H5'	10:CI:99:ALA:HB3	1.87	0.57
3:CB:30:PHE:HB3	3:CB:96:LEU:HD22	1.86	0.57
3:CB:62:LYS:O	3:CB:64:ARG:N	2.37	0.57
3:CB:113:MET:HE3	3:CB:209:ASN:HB3	1.86	0.57
18:CQ:115:THR:O	18:CQ:117:LEU:N	2.38	0.57
36:A5:438:A:H2'	36:A5:494:G:H21	1.68	0.57
36:A5:2555:G:N1	70:Dg:96:GLU:OE1	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2726:C:O2'	36:A5:2727:A:H2'	2.04	0.57
37:A7:121:U:OP2	42:DD:265:TYR:OH	2.15	0.57
68:De:19:ARG:HD2	68:De:28:VAL:HG13	1.87	0.57
1:A2:190:C:N4	1:A2:196:G:O6	2.37	0.57
1:A2:324:U:O2'	13:AL:80:MET:HE3	2.03	0.57
1:A2:499:U:O2'	1:A2:500:C:O4'	2.15	0.57
1:A2:855:A:C2	1:A2:857:U:H1'	2.40	0.57
1:A2:1015:U:OP1	86:A2:1923:OHX:N6	2.38	0.57
1:A2:1242:A:OP1	17:AP:59:LYS:NZ	2.37	0.57
8:AG:131:LYS:O	60:BW:82:ILE:HA	2.04	0.57
20:AS:91:ASP:O	20:AS:92:ILE:HB	2.03	0.57
28:Aa:24:VAL:HG12	28:Aa:72:HIS:O	2.05	0.57
36:A1:59:G:H2'	38:A4:33:A:O2'	2.05	0.57
36:A1:209:A:H2'	41:BC:162:THR:OG1	2.05	0.57
36:A1:3129:A:P	86:A1:3802:OHX:N6	2.78	0.57
38:A4:63:G:O2'	71:Bh:49:LYS:HE2	2.05	0.57
47:BI:216:TYR:HA	86:BI:303:OHX:N2	2.19	0.57
54:BQ:64:VAL:HG22	54:BQ:96:PHE:CE2	2.38	0.57
57:BT:39:ILE:HD12	57:BT:102:ARG:HD3	1.86	0.57
70:Bg:46:ASP:HB2	70:Bg:80:ARG:HD2	1.86	0.57
80:A6:163:G:H8	80:A6:163:G:O5'	1.88	0.57
80:A6:831:U:H1'	80:A6:832:U:H5'	1.85	0.57
80:A6:1178:G:H4'	81:Ch:83:LYS:HE2	1.87	0.57
86:A6:1922:OHX:N6	86:A6:2100:OHX:N2	2.52	0.57
22:CU:83:GLU:HG3	31:Cd:55:PHE:HD2	1.70	0.57
36:A5:1064:A:H4'	36:A5:1065:A:O5'	2.04	0.57
36:A5:1238:C:H2'	36:A5:1239:C:H5''	1.87	0.57
36:A5:1331:U:OP2	86:A5:3414:OHX:N3	2.38	0.57
86:A8:203:OHX:N2	86:A8:211:OHX:N1	2.52	0.57
41:DC:59:GLN:OE1	73:Dj:55:ARG:NH2	2.38	0.57
46:DH:120:ASP:OD1	46:DH:124:ARG:NH2	2.37	0.57
1:A2:116:U:H2'	1:A2:117:U:C6	2.40	0.57
3:AB:39:GLU:HB3	3:AB:73:LEU:O	2.04	0.57
19:AR:5:ARG:O	19:AR:10:LYS:HE2	2.05	0.57
23:AV:74:GLN:HB2	23:AV:79:LEU:HB2	1.86	0.57
33:Af:135:HIS:ND1	33:Af:138:ARG:HD2	2.20	0.57
36:A1:745:C:H5''	54:BQ:145:ASN:HD22	1.70	0.57
36:A1:1573:G:C2	36:A1:1574:C:H1'	2.40	0.57
40:BB:19:ARG:HB3	40:BB:232:ARG:NH1	2.20	0.57
43:BE:98:VAL:HA	43:BE:101:PHE:CD2	2.39	0.57
47:BI:43:VAL:HG21	47:BI:197:VAL:HB	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Ba:96:LYS:O	64:Ba:98:THR:N	2.36	0.57
80:A6:1287:A:H4'	80:A6:1288:G:OP1	2.04	0.57
4:CC:58:LEU:HD21	4:CC:236:PRO:HG2	1.86	0.57
5:CD:110:LEU:C	5:CD:112:GLY:H	2.13	0.57
29:Cb:46:VAL:HG22	29:Cb:54:VAL:HG11	1.87	0.57
34:Cg:36:ALA:HB2	34:Cg:42:LEU:HD23	1.86	0.57
36:A5:1573:G:C6	36:A5:1574:C:H1'	2.40	0.57
36:A5:1816:A:O2'	36:A5:1817:G:OP1	2.15	0.57
36:A5:1949:G:H1	36:A5:2097:U:H3	1.50	0.57
36:A5:2434:U:C4'	36:A5:2435:G:H5''	2.33	0.57
36:A5:2442:G:H22	36:A5:2506:U:H3	1.53	0.57
40:DB:46:PHE:CE2	40:DB:205:VAL:HG13	2.39	0.57
51:DN:67:ARG:O	51:DN:68:ARG:HB3	2.04	0.57
59:DV:87:ARG:HH22	59:DV:137:VAL:HG22	1.68	0.57
1:A2:448:C:OP1	6:AE:29:PRO:HD3	2.05	0.57
1:A2:1207:C:H42	1:A2:1456:C:H5	1.53	0.57
29:Ab:37:CYS:O	29:Ab:39:GLY:N	2.37	0.57
30:Ac:25:VAL:HG11	30:Ac:66:LEU:HD12	1.85	0.57
34:Ag:16:HIS:CE1	34:Ag:43:ILE:HG12	2.40	0.57
34:Ag:255:ALA:HB2	34:Ag:292:LEU:HD22	1.86	0.57
36:A1:408:A:OP1	86:A1:3602:OHX:N3	2.38	0.57
36:A1:662:U:H2'	36:A1:663:C:C6	2.40	0.57
36:A1:729:C:O2'	54:BQ:79:LYS:HE2	2.04	0.57
36:A1:1763:U:H5'	36:A1:1764:U:OP2	2.04	0.57
36:A1:1915:A:H2'	36:A1:1916:U:C6	2.40	0.57
36:A1:3233:C:H2'	36:A1:3234:A:C8	2.39	0.57
86:A1:3471:OHX:N4	86:A1:3785:OHX:N1	2.53	0.57
86:A1:3693:OHX:N2	86:A1:3712:OHX:N1	2.53	0.57
40:BB:232:ARG:HG2	40:BB:233:TRP:CD1	2.40	0.57
52:BO:49[A]:ARG:HG2	52:BO:49[A]:ARG:HH11	1.69	0.57
74:Bk:24:THR:HG23	74:Bk:44:LYS:HB2	1.87	0.57
80:A6:658:C:H5'	80:A6:659:N:OP2	2.05	0.57
80:A6:1122:G:O6	86:A6:2020:OHX:N6	2.38	0.57
80:A6:1558:U:H3	17:CP:122:THR:HG22	1.70	0.57
80:A6:1688:U:H3	80:A6:1713:G:H1	1.52	0.57
25:CX:100:ASP:O	25:CX:101:GLU:HB2	2.05	0.57
36:A5:838:G:O6	79:Dp:4:ARG:NH2	2.37	0.57
36:A5:1085:A:C5'	36:A5:1085:A:C8	2.88	0.57
36:A5:1466:G:O6	86:A5:3427:OHX:N5	2.38	0.57
36:A5:2833:A:O2'	86:A5:3820:OHX:N3	2.37	0.57
46:DH:86:TYR:CE2	46:DH:151:VAL:HG22	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:Dh:67:ARG:HG3	71:Dh:80:LEU:HD22	1.87	0.57
1:A2:93:A:O2'	6:AE:4:GLY:HA3	2.05	0.56
1:A2:1066:C:H4'	3:AB:149:GLN:NE2	2.20	0.56
11:AJ:38:ASN:HB2	11:AJ:41:GLU:HG3	1.87	0.56
16:AO:81:VAL:HG22	16:AO:115:ILE:HB	1.87	0.56
36:A1:1094:U:O2	36:A1:1096:U:O2'	2.22	0.56
36:A1:2784:G:N7	86:A1:3807:OHX:N2	2.53	0.56
3:CB:144:ARG:HB3	3:CB:208:GLN:HG2	1.87	0.56
7:CF:43:PHE:N	7:CF:46:TRP:O	2.38	0.56
21:CT:115:GLU:OE1	21:CT:123:ARG:NH1	2.35	0.56
34:Cg:198:ASN:O	34:Cg:215:GLY:HA3	2.05	0.56
36:A5:110:G:OP2	49:DL:73:ARG:NH1	2.37	0.56
36:A5:550:A:H2'	36:A5:551:A:C8	2.40	0.56
36:A5:1093:A:OP1	36:A5:1093:A:H4'	2.05	0.56
36:A5:1835:A:H5''	36:A5:1836:C:OP2	2.05	0.56
36:A5:2989:U:O2'	40:DB:232:ARG:NH2	2.38	0.56
86:A5:3477:OHX:N3	86:A5:3779:OHX:N6	2.53	0.56
86:A5:3542:OHX:N1	86:A5:3662:OHX:N6	2.54	0.56
41:DC:144:LYS:CG	41:DC:145:ILE:H	2.17	0.56
57:DT:56:PHE:CZ	57:DT:78:LYS:HD3	2.39	0.56
1:A2:1169:G:N1	1:A2:1575:G:OP2	2.37	0.56
1:A2:1489:U:OP2	5:AD:9:ARG:NH2	2.38	0.56
1:A2:1555:A:OP2	17:AP:47:ARG:NH2	2.39	0.56
1:A2:1796:C:OP2	28:Aa:5:ARG:NH1	2.39	0.56
4:AC:98:PHE:CE1	35:Ah:116:GLU:HG3	2.40	0.56
36:A1:565:U:H2'	36:A1:566:G:H8	1.69	0.56
36:A1:1464:G:O6	86:A1:3483:OHX:N6	2.38	0.56
36:A1:2547:A:OP1	36:A1:2547:A:H4'	2.05	0.56
86:A1:3574:OHX:N2	86:A1:3706:OHX:N5	2.53	0.56
86:A1:3578:OHX:N6	86:A1:3591:OHX:N3	2.53	0.56
41:BC:20:LEU:HD11	41:BC:252:GLU:HG3	1.87	0.56
47:BI:74:LYS:O	47:BI:78:THR:HG23	2.05	0.56
53:BP:84:PRO:HB2	53:BP:87:SER:HB2	1.86	0.56
70:Bg:55:SER:OG	70:Bg:69:HIS:HB3	2.06	0.56
80:A6:363:G:OP1	86:A6:1968:OHX:N1	2.38	0.56
80:A6:538:A:H8	80:A6:543:C:H41	1.50	0.56
80:A6:542:A:H1'	80:A6:543:C:H5'	1.87	0.56
20:CS:12:GLN:NE2	20:CS:13:HIS:O	2.38	0.56
81:Ch:129:UNK:O	81:Ch:133:UNK:N	2.38	0.56
86:A5:3509:OHX:N2	86:A5:3699:OHX:N4	2.53	0.56
42:DD:191:ASP:OD2	42:DD:193:GLU:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:161:GLU:OE2	51:DN:26:ARG:NH2	2.32	0.56
74:Dk:65:LEU:HD23	74:Dk:68:SER:HB2	1.87	0.56
75:Dl:9:ILE:HG22	75:Dl:13:MET:CE	2.36	0.56
1:A2:885:G:H2'	1:A2:886:U:C6	2.40	0.56
1:A2:1075:C:O2'	28:Aa:13:LYS:O	2.20	0.56
1:A2:1686:C:O2'	1:A2:1687:U:H5'	2.06	0.56
5:AD:29:LEU:HB2	5:AD:34:TYR:HB2	1.87	0.56
5:AD:141:LYS:HD2	5:AD:179:GLN:CG	2.36	0.56
11:Aj:17:ARG:O	11:Aj:23:ARG:NH2	2.38	0.56
15:AN:72:MET:HE1	15:AN:82:PRO:HD2	1.87	0.56
33:Af:135:HIS:HB2	33:Af:138:ARG:CB	2.36	0.56
36:A1:1081:U:O4'	86:A1:3746:OHX:N4	2.38	0.56
36:A1:3308:C:N3	53:BP:69:ARG:NH1	2.53	0.56
36:A1:3316:A:O2'	36:A1:3317:U:OP2	2.20	0.56
86:A1:3604:OHX:N6	86:A1:3816:OHX:N1	2.53	0.56
39:BA:145:LYS:HB3	39:BA:157:VAL:HG23	1.85	0.56
40:BB:92:TYR:O	40:BB:155:ALA:HA	2.05	0.56
41:BC:158:SER:HA	41:BC:213:ASN:O	2.06	0.56
42:BD:152:ARG:HG3	42:BD:152:ARG:NH1	2.20	0.56
42:BD:292:ALA:O	42:BD:294:ALA:N	2.38	0.56
45:BG:26:LEU:HD13	63:BZ:53:VAL:HG11	1.86	0.56
49:BL:56:PRO:HG3	49:BL:74:GLY:O	2.06	0.56
53:BP:8:SER:O	53:BP:8:SER:OG	2.21	0.56
63:BZ:26:VAL:HG21	63:BZ:96:VAL:HG11	1.87	0.56
66:Bc:32:LYS:O	66:Bc:36:GLN:HB2	2.05	0.56
80:A6:196:G:O2'	80:A6:197:A:OP2	2.16	0.56
80:A6:523:G:H5'	26:CY:60:PHE:O	2.06	0.56
80:A6:639:U:H1'	80:A6:640:U:C6	2.40	0.56
80:A6:834:G:O2'	80:A6:835:U:OP1	2.22	0.56
80:A6:1685:G:O6	80:A6:1716:C:N4	2.38	0.56
2:CA:36:TYR:OH	2:CA:56:LYS:HE3	2.05	0.56
2:CA:139:VAL:CG2	4:CC:62:PRO:HG3	2.34	0.56
16:CO:25:ASP:OD1	16:CO:26:THR:N	2.37	0.56
18:CQ:83:GLN:HE21	18:CQ:115:THR:HG21	1.70	0.56
22:CU:51:VAL:O	22:CU:52:LYS:HB2	2.05	0.56
25:CX:69:ARG:NH1	25:CX:116:ASP:OD1	2.39	0.56
32:Ce:53:LYS:O	32:Ce:54:ARG:HB3	2.06	0.56
36:A5:742:G:O6	86:A5:3803:OHX:N2	2.39	0.56
36:A5:1032:C:H5'	36:A5:1033:U:OP2	2.06	0.56
36:A5:1568:U:H4'	36:A5:1569:U:OP1	2.06	0.56
86:A5:3526:OHX:N3	86:A5:3739:OHX:N1	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DA:45:VAL:HG22	39:DA:84:THR:HA	1.88	0.56
40:DB:169:THR:CG2	40:DB:171:LEU:H	2.18	0.56
41:DC:288:ARG:O	41:DC:291:ASN:N	2.31	0.56
45:DG:151:VAL:HG13	45:DG:199:ALA:HB2	1.87	0.56
48:DJ:90:GLN:HG2	48:DJ:170:ASP:HB2	1.88	0.56
48:DJ:166:LYS:C	48:DJ:168:ASP:H	2.13	0.56
49:DL:3:ILE:HG12	64:Da:34:MET:HE2	1.86	0.56
57:DT:7:TYR:OH	57:DT:54:HIS:HB2	2.04	0.56
57:DT:14:MET:HE3	57:DT:58:GLN:CB	2.35	0.56
59:DV:3:GLY:HA2	59:DV:40:LYS:HB3	1.87	0.56
62:DY:51:ARG:HG2	62:DY:115:ARG:NH2	2.20	0.56
79:Dp:53:GLY:HA2	79:Dp:67:GLY:O	2.04	0.56
1:A2:66:U:C4	8:AG:158:ILE:HG21	2.40	0.56
1:A2:513:U:OP1	11:AJ:133:HIS:NE2	2.38	0.56
1:A2:540:G:O3'	1:A2:541:A:H3'	2.06	0.56
1:A2:1511:U:H2'	1:A2:1512:G:C8	2.41	0.56
5:AD:64:ARG:O	5:AD:66:ILE:N	2.39	0.56
7:AF:91:GLU:HA	7:AF:94:THR:HG23	1.87	0.56
9:AH:63:PRO:C	9:AH:65:PRO:HD2	2.29	0.56
28:Aa:23:CYS:HB2	28:Aa:74:CYS:HB3	1.88	0.56
36:A1:2207:A:H2'	36:A1:2208:A:H8	1.70	0.56
86:A1:3483:OHX:N5	86:A1:3806:OHX:N6	2.53	0.56
86:A1:3574:OHX:N6	86:A1:3706:OHX:N3	2.53	0.56
86:A1:3578:OHX:N2	86:A1:3591:OHX:N1	2.53	0.56
40:BB:70:ARG:HH22	59:BV:120:LYS:HE3	1.70	0.56
41:BC:181:VAL:O	41:BC:182:LEU:CB	2.52	0.56
58:BU:36:TYR:OH	58:BU:82:LYS:HG2	2.05	0.56
72:Bi:45:ARG:NH2	72:Bi:54:GLU:OE1	2.39	0.56
80:A6:845:G:H2'	80:A6:846:G:H8	1.71	0.56
80:A6:1342:C:C2'	80:A6:1343:U:H5'	2.35	0.56
5:CD:105:MET:HG2	5:CD:122:VAL:HG21	1.86	0.56
19:CR:104:ASN:H	19:CR:106:THR:HG22	1.71	0.56
34:Cg:184:ASN:HD22	34:Cg:185:GLN:N	2.03	0.56
34:Cg:274:LEU:HD22	34:Cg:313:TRP:CD1	2.41	0.56
36:A5:851:C:H5''	36:A5:851:C:C6	2.34	0.56
36:A5:1117:G:OP1	65:Db:4:SER:HB2	2.06	0.56
36:A5:1688:U:H2'	36:A5:1689:U:C6	2.41	0.56
36:A5:2659:G:H4'	36:A5:2751:G:O2'	2.05	0.56
86:A5:3461:OHX:N1	86:A5:3772:OHX:N5	2.53	0.56
86:A5:3617:OHX:N1	86:A5:3743:OHX:N2	2.52	0.56
38:A8:53:A:OP1	75:Dl:19:GLN:NE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DC:144:LYS:NZ	41:DC:144:LYS:H	2.03	0.56
58:DU:42:LYS:HG2	58:DU:46:ALA:HA	1.88	0.56
63:DZ:36:HIS:CD2	63:DZ:74:VAL:HG11	2.41	0.56
70:Dg:99:LYS:O	70:Dg:103:LYS:HG2	2.06	0.56
1:A2:780:A:C8	26:AY:8:ARG:HB3	2.40	0.56
1:A2:886:U:O2'	16:AO:121:VAL:O	2.23	0.56
3:AB:117:TRP:HE1	3:AB:152:ARG:CZ	2.18	0.56
6:AE:151:ASP:HB3	6:AE:154:ILE:HG13	1.87	0.56
7:AF:73:THR:HG23	18:AQ:114:ARG:CD	2.30	0.56
36:A1:1108:U:H2'	36:A1:1109:U:H6	1.69	0.56
36:A1:1717:U:H2'	36:A1:1718:G:C8	2.41	0.56
36:A1:2177:G:OP2	39:BA:128:ARG:NH1	2.39	0.56
36:A1:2513:U:H2'	36:A1:2592:G:N1	2.18	0.56
37:A3:4:U:H2'	37:A3:5:G:H8	1.69	0.56
38:A4:85:G:H3'	38:A4:85:G:H8	1.68	0.56
52:BO:38[B]:ALA:O	52:BO:41[B]:LEU:HB2	2.05	0.56
71:Bh:71:LYS:HB3	62:DY:125:LYS:HD2	1.88	0.56
74:Bk:5:ILE:HG22	74:Bk:54:LEU:HB2	1.87	0.56
80:A6:57:G:OP1	26:CY:112:LYS:NZ	2.36	0.56
80:A6:1664:C:H2'	80:A6:1665:U:H5''	1.88	0.56
2:CA:60:ALA:O	2:CA:64:ILE:HG13	2.05	0.56
2:CA:102:PHE:O	2:CA:103:THR:HB	2.03	0.56
9:CH:46:ILE:HG12	9:CH:60:ILE:HG23	1.86	0.56
9:CH:98:ILE:HG12	9:CH:121:VAL:HG21	1.88	0.56
9:CH:103:SER:OG	9:CH:104:ARG:N	2.39	0.56
11:CJ:118:LEU:HD23	11:CJ:158:PHE:CE1	2.41	0.56
16:CO:11:SER:OG	16:CO:12:GLN:N	2.28	0.56
27:CZ:38:HIS:HA	27:CZ:70:LYS:HD3	1.87	0.56
36:A5:913:A:H2	36:A5:2134:G:N3	2.04	0.56
36:A5:1240:A:H2'	36:A5:1241:U:H5'	1.87	0.56
36:A5:2530:G:H2'	36:A5:2531:C:H5'	1.87	0.56
51:DN:16:SER:O	51:DN:20:ARG:HG2	2.05	0.56
83:Dq:97:LYS:HG3	83:Dq:98:ASN:N	2.20	0.56
1:A2:1258:U:H4'	12:AK:2:LEU:HD13	1.87	0.56
1:A2:1413:U:H4'	1:A2:1414:U:OP2	2.06	0.56
11:AJ:175:ARG:HD3	11:AJ:179:ARG:NH1	2.21	0.56
14:AM:30:VAL:HB	14:AM:132:GLU:HG3	1.86	0.56
14:AM:67:THR:O	14:AM:69:ALA:N	2.35	0.56
16:AO:13:VAL:HG22	16:AO:76:ILE:HA	1.87	0.56
36:A1:2177:G:O6	86:A1:3467:OHX:N2	2.39	0.56
36:A1:2571:U:O2'	36:A1:2572:C:O2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3085:G:H5''	36:A1:3086:A:OP1	2.05	0.56
38:A4:23:U:O4'	62:BY:17:LYS:HG2	2.06	0.56
38:A4:85:G:O6	62:BY:112:ASP:HB3	2.05	0.56
39:BA:130:SER:HA	39:BA:169:ILE:HG22	1.88	0.56
40:BB:221:THR:HG22	40:BB:272:TYR:N	2.20	0.56
42:BD:208:MET:HG3	42:BD:223:PHE:CZ	2.40	0.56
43:BE:22:ARG:C	43:BE:23:LYS:HG2	2.30	0.56
49:BL:126:PHE:HD2	71:Bh:115:LYS:HG2	1.70	0.56
59:BV:33:ASN:HD21	59:BV:63:LYS:H	1.54	0.56
67:Bd:102:LYS:HZ2	67:Bd:103:GLY:H	1.52	0.56
80:A6:196:G:N3	80:A6:197:A:H1'	2.20	0.56
80:A6:1489:U:H5'	80:A6:1494:C:H1'	1.85	0.56
7:CF:94:THR:HG22	7:CF:114:ILE:HG13	1.88	0.56
10:CI:176:SER:HB2	10:CI:178:ARG:H	1.69	0.56
14:CM:24:ILE:O	14:CM:26:ASP:N	2.37	0.56
16:CO:122:PRO:C	16:CO:124:ASP:H	2.14	0.56
17:CP:107:ILE:H	17:CP:107:ILE:HD13	1.70	0.56
36:A5:116:A:OP1	72:Di:36:ARG:NH1	2.38	0.56
36:A5:654:C:OP1	68:De:27:ARG:NH2	2.38	0.56
86:A5:3473:OHX:N1	86:A5:3680:OHX:N2	2.53	0.56
86:A5:3532:OHX:N3	86:A5:3786:OHX:N5	2.54	0.56
40:DB:265:ALA:C	40:DB:266:ARG:HG2	2.30	0.56
1:A2:647:G:N2	1:A2:687:G:N2	2.54	0.56
1:A2:1173:C:H3'	20:AS:141:THR:HG21	1.86	0.56
13:AL:59:PRO:HG2	13:AL:60:PHE:CE2	2.41	0.56
17:AP:96:ILE:HD11	17:AP:116:LEU:HD22	1.88	0.56
36:A1:622:A:OP2	86:A1:3726:OHX:N1	2.39	0.56
36:A1:1560:G:H2'	36:A1:1561:G:H5'	1.86	0.56
36:A1:2108:C:O2'	36:A1:3362:A:N6	2.39	0.56
36:A1:2663:G:H5'	42:BD:152:ARG:HD3	1.87	0.56
36:A1:3276:G:H1	69:Bf:60:ARG:CZ	2.19	0.56
86:A1:3471:OHX:N2	86:A1:3785:OHX:N5	2.53	0.56
86:A1:3471:OHX:N4	86:A1:3785:OHX:N3	2.54	0.56
40:BB:153:LYS:HG2	40:BB:154:TYR:CE2	2.41	0.56
42:BD:108:ARG:CZ	42:BD:253:PHE:HB2	2.36	0.56
46:BH:86:TYR:CE2	46:BH:151:VAL:HG22	2.41	0.56
49:BL:109:PHE:O	49:BL:113:VAL:HG23	2.05	0.56
50:BM:36:VAL:HB	50:BM:45:LEU:HD23	1.88	0.56
52:BO:181[A]:ALA:O	52:BO:183[A]:ALA:N	2.38	0.56
80:A6:149:C:OP1	26:CY:121:THR:HB	2.06	0.56
80:A6:194:U:O2	80:A6:195:G:O2'	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A6:1941:OHX:N3	86:A6:2062:OHX:N1	2.54	0.56
36:A5:1272:C:H2'	36:A5:1273:A:H5'	1.88	0.56
43:DE:78:ARG:HG3	43:DE:78:ARG:NH1	2.19	0.56
54:DQ:100:THR:HG22	54:DQ:120:GLU:HB3	1.86	0.56
78:Do:77:CYS:SG	78:Do:77:CYS:O	2.64	0.56
1:A2:312:A:C2	1:A2:314:C:H2'	2.40	0.56
1:A2:827:C:H2'	1:A2:828:U:C6	2.40	0.56
1:A2:885:G:OP1	3:AB:136:ARG:NH1	2.39	0.56
2:AA:179:ARG:HD3	2:AA:183:ARG:NH1	2.17	0.56
6:AE:152:PRO:O	6:AE:154:ILE:N	2.39	0.56
6:AE:194:THR:O	6:AE:195:ILE:HB	2.05	0.56
10:AI:138:ASN:O	10:AI:141:ARG:HB2	2.06	0.56
21:AT:6:VAL:HG13	21:AT:66:TYR:CE1	2.41	0.56
22:AU:57:ARG:HG3	22:AU:89:ARG:CZ	2.36	0.56
36:A1:2871:G:H5'	36:A1:2872:A:H5'	1.88	0.56
36:A1:3129:A:O5'	86:A1:3802:OHX:N6	2.39	0.56
86:A1:3578:OHX:N4	86:A1:3591:OHX:N3	2.53	0.56
40:BB:81:THR:HG22	40:BB:81:THR:O	2.06	0.56
45:BG:41:GLN:HG3	45:BG:44:ARG:NH1	2.20	0.56
45:BG:112:GLU:O	45:BG:116:VAL:HB	2.06	0.56
47:BI:86:HIS:HB3	47:BI:139:ARG:HG2	1.87	0.56
48:BJ:52:TYR:HA	48:BJ:61:ARG:HG3	1.87	0.56
4:CC:215:PHE:HA	4:CC:218:ILE:HD11	1.86	0.56
9:CH:21:ALA:O	9:CH:25:VAL:HG23	2.06	0.56
9:CH:122:HIS:HD2	9:CH:179:LYS:HE3	1.70	0.56
21:CT:53:TRP:HH2	21:CT:100:ILE:HD12	1.71	0.56
27:CZ:47:TYR:CZ	27:CZ:51:LEU:HD11	2.41	0.56
36:A5:420:G:OP2	36:A5:420:G:OP1	2.24	0.56
36:A5:1157:G:H2'	36:A5:1158:A:O4'	2.06	0.56
36:A5:3334:U:H4'	36:A5:3335:A:H5''	1.88	0.56
86:A5:3477:OHX:N1	86:A5:3779:OHX:N4	2.54	0.56
86:A5:3480:OHX:N4	86:A5:3763:OHX:N2	2.53	0.56
86:A5:3801:OHX:N3	42:DD:188:GLU:OE1	2.39	0.56
43:DE:18:LEU:H	43:DE:18:LEU:HD12	1.71	0.56
62:DY:55:GLU:HB2	62:DY:108:LYS:HB2	1.87	0.56
63:DZ:135:ARG:HH21	63:DZ:135:ARG:HB3	1.71	0.56
67:Dd:74:ARG:HB3	67:Dd:94:GLU:HG2	1.87	0.56
1:A2:577:G:H8	1:A2:577:G:H3'	1.71	0.56
1:A2:885:G:H21	16:AO:123:SER:HB2	1.71	0.56
1:A2:1158:C:OP2	86:A2:2015:OHX:N5	2.38	0.56
21:AT:9:VAL:HG12	21:AT:14:PHE:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Ah:102:THR:O	35:Ah:106:VAL:HG23	2.06	0.56
36:A1:1018:G:H2'	36:A1:1019:G:O4'	2.05	0.56
36:A1:1074:U:O2'	36:A1:1075:A:H2'	2.05	0.56
36:A1:2392:C:HO2'	40:BB:266:ARG:HH22	1.47	0.56
36:A1:3178:A:C2	52:BO:115[A]:LYS:HG2	2.41	0.56
86:A1:3466:OHX:N2	86:A1:3667:OHX:N1	2.54	0.56
86:A1:3793:OHX:N2	86:A1:3816:OHX:N1	2.53	0.56
43:BE:31:ARG:NH2	43:BE:81:ALA:O	2.39	0.56
49:BL:74:GLY:O	49:BL:101:ARG:NH1	2.38	0.56
55:BR:138:LEU:O	55:BR:142:ILE:HG13	2.05	0.56
66:Bc:16:LEU:HB3	66:Bc:98:SER:HB2	1.87	0.56
80:A6:470:A:C5'	80:A6:470:A:H8	2.19	0.56
80:A6:530:C:O2	26:CY:61:ARG:NH2	2.38	0.56
80:A6:846:G:H2'	80:A6:847:A:H8	1.69	0.56
80:A6:1064:G:H2'	80:A6:1065:A:C8	2.41	0.56
80:A6:1224:A:C5	80:A6:1225:U:C4	2.93	0.56
4:CC:116:LYS:HG2	4:CC:127:ALA:HB3	1.86	0.56
9:CH:155:ASP:OD2	9:CH:156:SER:N	2.36	0.56
9:CH:173:TYR:HE1	9:CH:179:LYS:HB2	1.70	0.56
36:A5:725:G:C3'	36:A5:726:G:H5''	2.36	0.56
36:A5:2676:A:H4'	36:A5:2677:G:O5'	2.05	0.56
37:A7:91:G:H2'	37:A7:92:A:H8	1.69	0.56
41:DC:316:ASN:O	41:DC:319:LYS:O	2.24	0.56
52:DO:15[A]:LEU:HD21	52:DO:125[A]:ARG:HG3	1.86	0.56
1:A2:286:C:H2'	1:A2:287:G:H5'	1.88	0.56
1:A2:501:U:HO2'	1:A2:502:U:H6	1.53	0.56
1:A2:514:G:O2'	1:A2:515:A:H5'	2.06	0.56
1:A2:896:U:O4'	16:AO:38:THR:HG21	2.06	0.56
11:AJ:163:PRO:C	11:AJ:165:GLY:H	2.14	0.56
16:AO:81:VAL:HG13	16:AO:115:ILE:HG21	1.87	0.56
20:AS:26:ILE:HD11	20:AS:31:ALA:H	1.68	0.56
22:AU:28:SER:OG	22:AU:29:THR:N	2.38	0.56
27:AZ:43:ASP:O	27:AZ:46:LYS:N	2.27	0.56
32:Ae:55:ARG:HB3	32:Ae:58:PRO:HG3	1.87	0.56
36:A1:1724:U:H4'	36:A1:1725:C:OP1	2.06	0.56
47:BI:210:ILE:HA	47:BI:217:PHE:CE2	2.41	0.56
48:BJ:41:SER:O	48:BJ:75:LYS:NZ	2.25	0.56
67:Bd:46:THR:HG21	67:Bd:91:SER:OG	2.05	0.56
70:Bg:74:ARG:HG2	70:Bg:75:ALA:N	2.20	0.56
71:Bh:68:GLN:C	71:Bh:70:TYR:H	2.13	0.56
74:Bk:66:ILE:HA	74:Bk:69:LEU:HD23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Bo:50:PHE:O	86:Bo:201:OHX:N2	2.39	0.56
78:Bo:77:CYS:O	78:Bo:79:THR:HG22	2.05	0.56
80:A6:190:C:N4	80:A6:196:G:O6	2.38	0.56
80:A6:239:C:H5	80:A6:240:U:H5	1.52	0.56
80:A6:453:U:H3'	80:A6:453:U:O2	2.06	0.56
80:A6:1203:A:OP2	86:A6:1985:OHX:N4	2.39	0.56
80:A6:1699:N:C2'	80:A6:1700:N:H5'	2.36	0.56
14:CM:103:LEU:HG	14:CM:116:VAL:HG13	1.88	0.56
81:Ch:64:LYS:O	81:Ch:66:ALA:N	2.39	0.56
36:A5:269:G:H5''	51:DN:14:LYS:HE2	1.88	0.56
36:A5:670:C:OP1	54:DQ:147:ARG:NH2	2.39	0.56
36:A5:701:G:H2'	36:A5:702:C:C6	2.41	0.56
36:A5:1635:G:O6	63:DZ:17:ARG:HB2	2.06	0.56
36:A5:2960:C:OP1	86:A5:3486:OHX:N5	2.39	0.56
86:A5:3591:OHX:N1	86:A5:3812:OHX:N3	2.53	0.56
46:DH:20:ILE:HG23	46:DH:25:VAL:HG22	1.87	0.56
47:DI:210:ILE:HA	47:DI:217:PHE:CE2	2.41	0.56
57:DT:54:HIS:CE1	57:DT:55:LYS:HD3	2.41	0.56
72:Di:91:ASN:O	72:Di:94:ILE:HG22	2.06	0.56
1:A2:25:C:O2	86:A2:1963:OHX:N1	2.39	0.55
1:A2:591:A:H2'	1:A2:592:A:H8	1.70	0.55
1:A2:802:G:H21	24:AW:107:SER:HB3	1.71	0.55
12:AK:15:LEU:HD13	12:AK:21:VAL:HG23	1.87	0.55
25:AX:102:VAL:HG12	25:AX:127:VAL:HG12	1.88	0.55
26:AY:77:ASN:O	26:AY:78:SER:HB3	2.05	0.55
34:Ag:160:GLU:O	34:Ag:162:ALA:N	2.35	0.55
36:A1:191:U:H6	36:A1:191:U:H5'	1.70	0.55
36:A1:847:A:H2'	36:A1:848:A:C8	2.40	0.55
36:A1:1603:A:OP1	55:BR:38:ARG:NH1	2.40	0.55
36:A1:2572:C:O2'	36:A1:2573:G:C8	2.60	0.55
36:A1:3128:G:OP2	86:A1:3730:OHX:N6	2.38	0.55
45:BG:26:LEU:H	45:BG:26:LEU:HD12	1.72	0.55
46:BH:17:THR:HG21	50:BM:3:THR:HB	1.89	0.55
54:BQ:64:VAL:HG13	54:BQ:93:ILE:HD11	1.88	0.55
70:Bg:44:CYS:SG	70:Bg:46:ASP:HB3	2.45	0.55
80:A6:71:A:H2'	80:A6:72:A:H4'	1.86	0.55
80:A6:829:A:O2'	80:A6:830:U:O5'	2.23	0.55
80:A6:891:A:H2'	80:A6:892:A:C8	2.41	0.55
80:A6:1253:U:P	14:CM:46:ARG:HH22	2.29	0.55
80:A6:1564:U:H2'	80:A6:1565:C:C6	2.41	0.55
86:A6:1922:OHX:N5	86:A6:2100:OHX:N1	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:167:LYS:HB3	2:CA:168:HIS:HD2	1.69	0.55
17:CP:37:ALA:O	17:CP:42:ARG:HD3	2.05	0.55
18:CQ:83:GLN:NE2	18:CQ:119:ALA:HA	2.20	0.55
19:CR:103:ASP:O	19:CR:104:ASN:HB3	2.06	0.55
29:Cb:37:CYS:O	29:Cb:39:GLY:N	2.39	0.55
36:A5:3112:G:O2'	46:DH:70:THR:HB	2.06	0.55
86:A8:211:OHX:N3	73:Dj:88:ALA:O	2.39	0.55
40:DB:367:LYS:HZ1	60:DW:34:SER:H	1.54	0.55
41:DC:18:ASN:OD1	41:DC:18:ASN:N	2.37	0.55
41:DC:35:VAL:HG21	41:DC:244:LEU:HD21	1.89	0.55
68:De:123:LYS:HA	68:De:126:LEU:HG	1.87	0.55
1:A2:558:U:O2'	1:A2:559:C:O5'	2.25	0.55
1:A2:567:A:O2'	25:AX:90:ASP:OD2	2.21	0.55
1:A2:852:C:O5'	1:A2:852:C:H6	1.89	0.55
1:A2:1097:U:O4	4:AC:201:ASN:ND2	2.39	0.55
86:A2:1954:OHX:N6	86:A2:2071:OHX:N5	2.54	0.55
7:AF:37:GLN:CD	18:AQ:53:LEU:HD22	2.32	0.55
18:AQ:9:THR:HG21	18:AQ:88:GLY:HA2	1.88	0.55
19:AR:26:LEU:HD23	19:AR:26:LEU:H	1.70	0.55
19:AR:71:PHE:HE1	19:AR:73:LEU:HD22	1.71	0.55
20:AS:83:ALA:O	20:AS:89:GLN:NE2	2.39	0.55
34:Ag:93:ASP:OD1	34:Ag:96:THR:HB	2.06	0.55
36:A1:92:G:OP2	36:A1:93:C:H5''	2.06	0.55
36:A1:3160:U:H2'	36:A1:3161:C:C6	2.41	0.55
40:BB:283:TYR:OH	40:BB:325:LYS:HD2	2.06	0.55
44:BF:89:ILE:HD12	44:BF:214:TRP:CH2	2.41	0.55
80:A6:453:U:O4	86:A6:1917:OHX:N4	2.39	0.55
36:A5:209:A:H4'	36:A5:211:A:C8	2.42	0.55
36:A5:599:C:H2'	36:A5:600:G:O4'	2.06	0.55
36:A5:1541:G:H2'	36:A5:1542:G:O5'	2.06	0.55
36:A5:2158:A:OP2	39:DA:156:LYS:NZ	2.37	0.55
74:Dk:16:ARG:O	74:Dk:18:ALA:N	2.39	0.55
1:A2:238:U:O2'	1:A2:239:C:H5'	2.05	0.55
1:A2:896:U:C4'	16:AO:38:THR:HG21	2.37	0.55
6:AE:246:LEU:HD13	6:AE:251:GLU:HG2	1.88	0.55
8:AG:109:LEU:HD13	8:AG:111:LEU:HD21	1.87	0.55
9:AH:71:HIS:CG	9:AH:131:PHE:HZ	2.24	0.55
10:AI:192:TYR:O	10:AI:196:LEU:HB2	2.05	0.55
36:A1:901:G:N7	86:A1:3482:OHX:N5	2.54	0.55
36:A1:3356:G:H2'	36:A1:3357:U:C6	2.42	0.55
86:A1:3503:OHX:N2	86:A1:3698:OHX:N3	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BB:103:THR:HG21	40:BB:147:GLU:OE2	2.06	0.55
42:BD:155:THR:HG22	42:BD:179:ARG:NH1	2.22	0.55
45:BG:130:TYR:HD1	45:BG:202:GLU:HB3	1.72	0.55
49:BL:56:PRO:HG2	49:BL:72:GLY:HA3	1.89	0.55
49:BL:130:GLY:O	49:BL:132:ALA:N	2.39	0.55
50:BM:113:THR:HB	50:BM:116:GLU:OE1	2.06	0.55
53:BP:168:LEU:HD12	53:BP:173:ARG:HG2	1.88	0.55
80:A6:297:U:H5''	6:CE:37:LYS:HG2	1.88	0.55
80:A6:500:C:O2'	80:A6:501:U:O4'	2.25	0.55
80:A6:992:A:OP1	80:A6:1786:G:H5'	2.05	0.55
80:A6:1211:A:H1'	17:CP:99:GLY:O	2.06	0.55
80:A6:1420:C:O2'	5:CD:160:SER:O	2.09	0.55
5:CD:162:GLN:O	5:CD:164:VAL:N	2.39	0.55
20:CS:5:VAL:O	27:CZ:42:LEU:HB2	2.06	0.55
22:CU:35:GLU:OE1	22:CU:57:ARG:NH2	2.38	0.55
81:Ch:68:ARG:HH22	81:Ch:72:ARG:HD3	1.72	0.55
36:A5:115:A:OP1	51:DN:49:ARG:NH2	2.40	0.55
36:A5:1320:C:O2	56:DS:115:ARG:NH2	2.39	0.55
36:A5:2239:G:N7	86:A5:3723:OHX:N5	2.55	0.55
86:A5:3487:OHX:N3	86:A5:3644:OHX:N6	2.54	0.55
43:DE:50:LYS:HG2	43:DE:74:VAL:CG2	2.37	0.55
64:Da:65:GLN:O	64:Da:66:ALA:HB3	2.07	0.55
74:Dk:18:ALA:C	74:Dk:20:VAL:H	2.15	0.55
1:A2:115:G:OP1	13:AL:67:ARG:NH1	2.39	0.55
1:A2:149:C:O2'	8:AG:132:ARG:NH1	2.38	0.55
1:A2:489:C:H42	1:A2:497:G:H22	1.53	0.55
1:A2:749:U:H2'	1:A2:750:U:C6	2.41	0.55
1:A2:1650:U:H2'	1:A2:1651:A:C8	2.42	0.55
9:AH:35:LYS:HZ2	9:AH:39:ARG:HD2	1.70	0.55
31:Ad:7:TRP:O	31:Ad:8:PHE:HB2	2.06	0.55
36:A1:1145:G:OP1	68:Be:44:ARG:NH1	2.37	0.55
36:A1:1507:G:H5'	36:A1:1507:G:N3	2.21	0.55
36:A1:2355:G:H4'	53:BP:139:TYR:CE2	2.40	0.55
36:A1:2689:A:N3	36:A1:2689:A:H2'	2.20	0.55
46:BH:3:TYR:HA	56:BS:142:GLN:OE1	2.06	0.55
63:BZ:88:ASP:HB3	63:BZ:121:ARG:NH2	2.21	0.55
4:CC:45:VAL:HG21	4:CC:68:ILE:HG23	1.87	0.55
7:CF:25:LEU:HB2	18:CQ:27:GLY:O	2.06	0.55
7:CF:61:TYR:CD2	7:CF:164:PRO:HB2	2.41	0.55
7:CF:143:ARG:HB2	7:CF:218:GLU:OE2	2.06	0.55
16:CO:84:ARG:HG3	16:CO:85:ALA:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CY:44:LEU:HA	26:CY:47:VAL:HG13	1.88	0.55
36:A5:3285:C:H2'	36:A5:3286:G:H5''	1.88	0.55
86:A5:3533:OHX:N5	86:DG:301:OHX:N2	2.55	0.55
40:DB:50:LYS:HE2	40:DB:328:ILE:HG22	1.88	0.55
41:DC:138:ARG:HH21	41:DC:240:PRO:HB2	1.72	0.55
43:DE:176:PHE:H	50:DM:117:ARG:NH2	2.04	0.55
44:DF:175:LYS:HD3	44:DF:176:TYR:CZ	2.42	0.55
47:DI:74:LYS:O	47:DI:78:THR:HG23	2.06	0.55
47:DI:82:ARG:O	47:DI:82:ARG:HG2	2.07	0.55
52:DO:172[A]:ARG:HA	52:DO:175[A]:THR:HG23	1.89	0.55
56:DS:155:ARG:HH21	56:DS:172:TYR:H	1.54	0.55
76:Dm:97:ARG:HB2	76:Dm:120:GLN:O	2.07	0.55
1:A2:180:A:H2'	1:A2:181:A:O4'	2.05	0.55
1:A2:872:G:O6	86:A2:2009:OHX:N3	2.40	0.55
1:A2:1157:A:H2'	1:A2:1160:A:N7	2.21	0.55
1:A2:1433:G:H2'	1:A2:1434:U:C6	2.42	0.55
1:A2:1445:G:C4	33:Af:91:UNK:HG2	2.41	0.55
86:A2:1970:OHX:N3	86:A2:2014:OHX:N6	2.54	0.55
3:AB:110:LEU:HD21	3:AB:213:ARG:HD2	1.89	0.55
6:AE:158:ASP:OD2	6:AE:174:LYS:NZ	2.38	0.55
18:AQ:116:LEU:H	18:AQ:116:LEU:HD22	1.70	0.55
24:AW:8:ALA:HA	24:AW:74:VAL:HG11	1.88	0.55
36:A1:748:U:H2'	36:A1:749:C:C6	2.42	0.55
36:A1:1220:U:H4'	36:A1:1221:A:H5''	1.89	0.55
36:A1:1748:G:OP2	74:Bk:42:LYS:NZ	2.37	0.55
86:A1:3509:OHX:N3	86:A1:3746:OHX:N5	2.55	0.55
86:A1:3509:OHX:N3	86:A1:3746:OHX:N6	2.54	0.55
37:A3:13:A:C3'	37:A3:14:U:H5'	2.36	0.55
45:BG:116:VAL:HG23	45:BG:125:ALA:HB3	1.87	0.55
47:BI:77:THR:HG22	47:BI:85:PHE:HZ	1.71	0.55
47:BI:142:ASP:OD1	47:BI:178:ARG:NH2	2.37	0.55
56:BS:166:LYS:O	56:BS:167:ARG:HB2	2.06	0.55
63:BZ:10:VAL:HB	63:BZ:83:THR:HG21	1.87	0.55
64:Ba:6:THR:HG22	64:Ba:9:ARG:HG2	1.89	0.55
80:A6:1054:U:H2'	80:A6:1055:U:C6	2.42	0.55
2:CA:41:ARG:HH21	19:CR:103:ASP:CB	2.20	0.55
16:CO:107:ARG:HB2	16:CO:107:ARG:HH21	1.71	0.55
28:Ca:26:CYS:SG	28:Ca:74:CYS:SG	3.05	0.55
36:A5:3317:U:H6	86:A5:3656:OHX:N6	2.05	0.55
37:A7:62:U:O3'	42:DD:285:ARG:NH1	2.39	0.55
39:DA:116:VAL:HG11	39:DA:134:VAL:HG11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DC:361:HIS:CG	41:DC:362:ASP:N	2.74	0.55
47:DI:52:LEU:HD22	47:DI:163:GLN:HB2	1.88	0.55
84:Dr:38:UNK:O	84:Dr:42:UNK:N	2.40	0.55
1:A2:348:U:O4	86:A2:2010:OHX:N5	2.40	0.55
1:A2:652:G:H1	1:A2:682:C:N4	2.04	0.55
1:A2:717:C:N3	1:A2:720:G:N1	2.48	0.55
1:A2:1099:U:OP1	24:AW:71:LYS:NZ	2.37	0.55
1:A2:1157:A:C8	1:A2:1157:A:H3'	2.42	0.55
1:A2:1446:A:O5'	86:A2:2086:OHX:N2	2.39	0.55
8:AG:70:PRO:C	8:AG:98:ARG:HH11	2.14	0.55
9:AH:122:HIS:HA	9:AH:125:ILE:HD12	1.89	0.55
12:AK:9:ASN:O	12:AK:13:GLN:HB3	2.07	0.55
36:A1:132:C:H2'	36:A1:133:U:H5''	1.89	0.55
86:A1:3516:OHX:N3	86:A1:3718:OHX:N2	2.54	0.55
86:A1:3574:OHX:N4	86:A1:3706:OHX:N1	2.55	0.55
43:BE:18:LEU:H	43:BE:18:LEU:CD2	2.18	0.55
52:BO:124[A]:LEU:O	52:BO:128[A]:ARG:HB2	2.07	0.55
59:BV:86:ARG:HG3	59:BV:92:PHE:CE2	2.42	0.55
70:Bg:86:LYS:O	70:Bg:90:ILE:HG12	2.07	0.55
71:Bh:85:THR:O	71:Bh:89:ARG:HB2	2.05	0.55
80:A6:66:U:OP1	8:CG:136:LYS:NZ	2.28	0.55
80:A6:694:U:H3'	80:A6:695:U:O2	2.07	0.55
80:A6:953:G:P	15:CN:94:LYS:HE2	2.46	0.55
80:A6:1251:U:H4'	33:Cf:134:ASN:H	1.72	0.55
80:A6:1482:C:OP2	80:A6:1521:G:N1	2.39	0.55
2:CA:175:TYR:HE1	2:CA:197:ILE:HG22	1.72	0.55
11:CJ:134:ILE:HD13	11:CJ:141:VAL:O	2.07	0.55
20:CS:118:LYS:O	20:CS:120:ARG:HG3	2.06	0.55
36:A5:1811:G:H2'	36:A5:1812:G:O4'	2.07	0.55
36:A5:3369:G:C6	40:DB:380:MET:HE3	2.41	0.55
86:A5:3487:OHX:N3	86:A5:3644:OHX:N5	2.55	0.55
43:DE:40:LEU:HD11	43:DE:54:TYR:HB2	1.87	0.55
51:DN:73:ARG:O	51:DN:75:VAL:N	2.38	0.55
51:DN:184:LYS:C	51:DN:186:GLY:H	2.13	0.55
60:DW:63:ILE:O	60:DW:65:GLU:N	2.36	0.55
1:A2:499:U:O2'	1:A2:500:C:OP1	2.24	0.55
1:A2:1776:A:H2'	1:A2:1777:G:C8	2.42	0.55
2:AA:13:ASP:HA	2:AA:16:LEU:HD12	1.88	0.55
10:AI:188:GLU:HG2	13:AL:13:PHE:CD2	2.42	0.55
21:AT:42:GLY:HA2	21:AT:84:LYS:HB2	1.89	0.55
27:AZ:65:LEU:HB3	27:AZ:71:ILE:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:161:G:H8	36:A1:161:G:H5''	1.71	0.55
49:BL:75:PHE:O	49:BL:79:GLU:HB2	2.06	0.55
79:Bp:59:CYS:O	79:Bp:60:CYS:HB3	2.07	0.55
80:A6:653:C:N3	80:A6:677:G:N2	2.49	0.55
80:A6:1220:C:H5'	12:CK:52:LYS:HE2	1.88	0.55
80:A6:1558:U:H3	17:CP:122:THR:CG2	2.19	0.55
6:CE:195:ILE:HG22	6:CE:196:VAL:N	2.21	0.55
36:A5:541:U:H2'	36:A5:542:G:H8	1.70	0.55
36:A5:585:A:H2'	36:A5:586:C:C6	2.41	0.55
36:A5:1654:A:H2'	36:A5:1655:G:H5''	1.89	0.55
86:A5:3464:OHX:N3	86:A5:3732:OHX:N6	2.55	0.55
43:DE:31:ARG:NH2	43:DE:81:ALA:O	2.40	0.55
52:DO:180[B]:SER:O	52:DO:183[B]:ALA:N	2.39	0.55
54:DQ:122:ILE:HD11	54:DQ:130:ARG:NH1	2.21	0.55
66:Dc:75:ASN:HA	66:Dc:86:ARG:HB2	1.89	0.55
83:Dq:37:GLN:HE22	83:Dq:184:GLY:HA2	1.72	0.55
1:A2:832:U:H2'	1:A2:833:U:H5''	1.89	0.55
1:A2:1639:C:OP1	86:A2:2073:OHX:N4	2.39	0.55
3:AB:179:SER:O	3:AB:179:SER:OG	2.21	0.55
8:AG:160:ARG:HG3	60:BW:84:GLY:HA3	1.89	0.55
11:AJ:125:ALA:O	11:AJ:129:ILE:HG13	2.07	0.55
15:AN:12:SER:O	15:AN:13:SER:HB3	2.06	0.55
18:AQ:22:VAL:HG22	18:AQ:65:ILE:HD13	1.89	0.55
21:AT:45:MET:HE3	21:AT:46:PRO:HD2	1.87	0.55
36:A1:829:U:H3	36:A1:895:A:H62	1.55	0.55
36:A1:1026:A:H2'	36:A1:1027:A:C8	2.42	0.55
36:A1:1522:U:H4'	36:A1:1523:U:OP2	2.07	0.55
36:A1:2320:A:H2	79:Bp:16:VAL:HG13	1.72	0.55
36:A1:2572:C:O2'	36:A1:2573:G:O4'	2.25	0.55
41:BC:5:GLN:HA	41:BC:20:LEU:O	2.06	0.55
44:BF:25:GLN:O	44:BF:28:ALA:N	2.40	0.55
48:BJ:86:VAL:HG22	48:BJ:111:ASP:O	2.07	0.55
73:Bj:69:HIS:O	73:Bj:73:ARG:HG3	2.07	0.55
80:A6:470:A:H8	80:A6:470:A:H5'	1.72	0.55
80:A6:632:U:OP1	13:CL:102:LYS:HE2	2.07	0.55
80:A6:1413:U:H4'	80:A6:1414:U:OP2	2.06	0.55
3:CB:71:ALA:HB3	16:CO:114:ARG:HH12	1.71	0.55
14:CM:84:ASN:O	14:CM:86:VAL:N	2.40	0.55
29:Cb:19:HIS:CD2	29:Cb:21:LEU:H	2.24	0.55
29:Cb:59:CYS:O	29:Cb:61:THR:N	2.40	0.55
36:A5:173:G:H22	36:A5:246:U:H1'	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2589:G:C2'	36:A5:2590:A:H5'	2.37	0.55
86:A5:3477:OHX:N1	86:A5:3779:OHX:N2	2.54	0.55
86:A5:3492:OHX:N4	86:A5:3737:OHX:N1	2.55	0.55
40:DB:21:ARG:HD3	40:DB:269:GLN:OE1	2.06	0.55
42:DD:270:LYS:HG3	42:DD:273:ARG:CB	2.36	0.55
46:DH:88:TYR:CZ	46:DH:184:LYS:HD3	2.42	0.55
51:DN:183:THR:O	51:DN:183:THR:HG23	2.07	0.55
70:Dg:84:CYS:O	70:Dg:88:ARG:HB2	2.07	0.55
1:A2:503:G:O2'	1:A2:504:U:P	2.65	0.55
1:A2:706:A:C6	1:A2:734:A:N6	2.75	0.55
1:A2:741:C:O2	9:AH:107:ARG:NH2	2.38	0.55
1:A2:1098:U:OP1	4:AC:159:THR:HB	2.07	0.55
1:A2:1226:A:O2'	1:A2:1227:A:OP1	2.23	0.55
1:A2:1332:C:H6	1:A2:1332:C:O5'	1.89	0.55
1:A2:1783:C:H2'	1:A2:1784:C:H6	1.72	0.55
86:A2:1970:OHX:N5	86:A2:2014:OHX:N6	2.55	0.55
2:AA:167:LYS:HB3	2:AA:168:HIS:HD2	1.72	0.55
3:AB:34:ALA:HB3	3:AB:41:ARG:HA	1.89	0.55
6:AE:192:ILE:HG13	6:AE:243:GLY:HA3	1.89	0.55
14:AM:98:GLY:C	14:AM:103:LEU:HD21	2.32	0.55
18:AQ:50:GLU:OE1	18:AQ:112:TYR:OH	2.24	0.55
36:A1:89:A:OP2	54:BQ:171:LYS:HE2	2.07	0.55
36:A1:975:C:H2'	36:A1:976:U:H6	1.72	0.55
36:A1:2128:C:OP1	86:A1:3501:OHX:N2	2.40	0.55
36:A1:2534:G:O6	86:A1:3751:OHX:N6	2.39	0.55
36:A1:3019:U:O4	86:A1:3532:OHX:N1	2.40	0.55
36:A1:3279:A:H5'	36:A1:3279:A:C8	2.37	0.55
41:BC:120:TYR:CE2	41:BC:277:PRO:HB3	2.41	0.55
50:BM:113:THR:HG22	50:BM:116:GLU:N	2.14	0.55
64:Ba:65:GLN:O	64:Ba:66:ALA:HB2	2.07	0.55
80:A6:771:A:OP1	86:A6:2092:OHX:N6	2.40	0.55
80:A6:1171:A:H2'	80:A6:1172:G:C8	2.41	0.55
8:CG:12:SER:HB3	8:CG:124:LEU:HD12	1.89	0.55
22:CU:69:LYS:HE2	22:CU:80:GLU:HG3	1.88	0.55
36:A5:8:C:H2'	36:A5:9:U:O4'	2.07	0.55
36:A5:66:A:N3	51:DN:176:LYS:HE2	2.20	0.55
36:A5:495:G:H2'	36:A5:496:C:O4'	2.07	0.55
36:A5:891:G:OP1	86:A5:3431:OHX:N6	2.40	0.55
36:A5:1110:U:H2'	36:A5:1111:U:C6	2.41	0.55
36:A5:1724:U:H1'	36:A5:1725:C:C6	2.42	0.55
36:A5:2436:U:H2'	36:A5:2437:G:H5''	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A5:3464:OHX:N3	86:A5:3732:OHX:N4	2.54	0.55
66:Dc:78:GLY:HA2	66:Dc:87:VAL:HG13	1.89	0.55
1:A2:866:G:OP1	15:AN:2:GLY:HA2	2.07	0.55
1:A2:1760:G:H2'	1:A2:1761:U:H5'	1.88	0.55
3:AB:48:VAL:HG13	3:AB:61:LEU:HD21	1.89	0.55
6:AE:42:LEU:HD12	6:AE:109:PHE:HB2	1.89	0.55
21:AT:57:ARG:HH11	21:AT:57:ARG:CG	2.09	0.55
26:AY:94:TYR:HD2	26:AY:96:LEU:HD11	1.72	0.55
27:AZ:60:VAL:CG2	27:AZ:101:TYR:HB2	2.37	0.55
27:AZ:85:LYS:HG3	27:AZ:86:GLU:N	2.22	0.55
36:A1:1233:G:H1	36:A1:1255:C:N4	1.94	0.55
36:A1:2193:U:H5'	36:A1:2194:G:H5'	1.89	0.55
86:A1:3414:OHX:N2	86:A1:3812:OHX:N6	2.55	0.55
86:A1:3516:OHX:N5	86:A1:3718:OHX:N1	2.55	0.55
38:A4:43:A:OP1	86:A4:215:OHX:N6	2.40	0.55
39:BA:27:ALA:O	39:BA:128:ARG:NH2	2.39	0.55
40:BB:246:LEU:C	40:BB:246:LEU:HD12	2.32	0.55
41:BC:99:MET:SD	41:BC:102:PRO:HA	2.47	0.55
46:BH:156:GLN:NE2	46:BH:160:ASP:OD1	2.38	0.55
80:A6:687:G:H5''	24:CW:119:LYS:HG2	1.88	0.55
80:A6:1711:C:H2'	80:A6:1712:A:H5''	1.88	0.55
2:CA:148:ASP:OD1	2:CA:149:LEU:N	2.30	0.55
3:CB:120:LEU:HG	3:CB:142:PHE:CE1	2.41	0.55
16:CO:50:ALA:C	16:CO:52:ARG:N	2.57	0.55
22:CU:70:THR:HB	22:CU:71:PRO:O	2.08	0.55
25:CX:23:ARG:HB3	25:CX:29:TYR:CE1	2.42	0.55
36:A5:1235:U:C4'	36:A5:1236:G:H5'	2.29	0.55
47:DI:171:TRP:O	47:DI:174:THR:HG22	2.07	0.55
48:DJ:92:ARG:O	48:DJ:95:ASN:HB2	2.07	0.55
48:DJ:155:THR:O	48:DJ:159:THR:HG23	2.07	0.55
48:DJ:168:ASP:OD1	86:DJ:201:OHX:N3	2.39	0.55
49:DL:157:ARG:HH12	64:Da:146:GLU:CD	2.15	0.55
1:A2:133:U:OP2	1:A2:133:U:H3'	2.07	0.54
1:A2:1559:A:C6	20:AS:134:ARG:HD2	2.42	0.54
2:AA:58:VAL:O	2:AA:62:ARG:HB2	2.08	0.54
11:AJ:65:LYS:HA	11:AJ:70:LEU:HD11	1.89	0.54
36:A1:1786:G:H2'	36:A1:1787:A:C8	2.42	0.54
36:A1:2274:U:OP2	86:A1:3508:OHX:N4	2.40	0.54
36:A1:2444:C:H3'	36:A1:2445:A:H5''	1.89	0.54
36:A1:2736:A:OP1	57:BT:92:ARG:NH1	2.38	0.54
36:A1:2947:G:OP2	36:A1:2947:G:H4'	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A1:3466:OHX:N6	86:A1:3667:OHX:N3	2.55	0.54
86:A1:3479:OHX:N6	86:A1:3795:OHX:N3	2.55	0.54
42:BD:86:TYR:CE1	42:BD:247:ILE:HA	2.43	0.54
47:BI:19:LYS:HG2	47:BI:26:VAL:CG1	2.37	0.54
51:BN:38:ARG:HG3	51:BN:38:ARG:NH1	2.21	0.54
63:BZ:23:VAL:HG12	63:BZ:45:GLY:HA3	1.89	0.54
66:Bc:13:LYS:O	66:Bc:17:VAL:HG23	2.07	0.54
80:A6:300:A:O2'	80:A6:301:A:H5'	2.07	0.54
80:A6:758:U:OP1	11:CJ:7:THR:HG21	2.06	0.54
80:A6:1214:U:OP1	80:A6:1246:C:H1'	2.07	0.54
80:A6:1537:C:N4	86:A6:2016:OHX:N3	2.55	0.54
80:A6:1660:A:H2'	80:A6:1661:U:C6	2.42	0.54
2:CA:88:LYS:HB3	2:CA:202:TYR:CZ	2.41	0.54
6:CE:34:GLY:HA3	6:CE:83:PRO:HG3	1.89	0.54
14:CM:90:LYS:O	14:CM:91:VAL:HB	2.08	0.54
22:CU:21:LYS:HA	22:CU:94:GLU:HG2	1.88	0.54
31:Cd:8:PHE:O	31:Cd:9:SER:OG	2.19	0.54
36:A5:1716:U:H6	36:A5:1716:U:H5'	1.71	0.54
36:A5:2356:A:OP1	53:DP:138:LYS:NZ	2.39	0.54
36:A5:3279:A:C2'	36:A5:3280:U:H5'	2.36	0.54
49:DL:61:PRO:HD2	49:DL:70:ARG:HH21	1.72	0.54
71:Dh:59:ASN:O	71:Dh:63:ARG:HG2	2.07	0.54
75:Dl:15:LYS:O	75:Dl:19:GLN:HG3	2.07	0.54
1:A2:178:U:C4	8:AG:191:ARG:HD3	2.43	0.54
1:A2:711:U:H4'	1:A2:712:G:OP1	2.07	0.54
1:A2:850:A:H5'	55:BR:165:LYS:HD3	1.88	0.54
1:A2:851:U:H2'	1:A2:852:C:C6	2.43	0.54
86:A2:1954:OHX:N4	86:A2:2071:OHX:N1	2.55	0.54
86:A2:1965:OHX:N1	86:A2:2029:OHX:N4	2.54	0.54
36:A1:1244:A:N6	36:A1:1271:A:OP2	2.40	0.54
36:A1:1615:C:OP1	86:A1:3755:OHX:N3	2.40	0.54
36:A1:1826:C:H2'	36:A1:1827:C:H6	1.72	0.54
36:A1:2995:A:C3'	36:A1:2996:U:H5''	2.37	0.54
36:A1:3237:U:H2'	36:A1:3238:G:O4'	2.07	0.54
38:A4:137:C:OP2	86:A4:211:OHX:N5	2.39	0.54
54:BQ:176:ARG:NH1	64:Ba:46:ASP:OD2	2.39	0.54
72:Bi:2:THR:OG1	72:Bi:3:VAL:N	2.40	0.54
80:A6:639:U:OP1	9:CH:118:LEU:N	2.40	0.54
80:A6:1383:G:O2'	22:CU:35:GLU:OE2	2.17	0.54
18:CQ:109:PHE:O	18:CQ:113:ASP:N	2.40	0.54
30:Cc:19:THR:HG21	30:Cc:66:LEU:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:13:A:H4'	61:DX:39:LYS:HG3	1.88	0.54
36:A5:76:G:N7	49:DL:101:ARG:HB2	2.22	0.54
36:A5:1247:U:O5'	36:A5:1247:U:H6	1.90	0.54
86:A5:3617:OHX:N3	86:A5:3743:OHX:N4	2.54	0.54
37:A7:44:C:OP2	48:DJ:137:ARG:NH2	2.41	0.54
82:DK:63:UNK:HA	82:DK:71:UNK:O	2.07	0.54
50:DM:55:ARG:HD3	56:DS:70:THR:OG1	2.08	0.54
70:Dg:7:PHE:HD1	70:Dg:20:ILE:HD12	1.70	0.54
71:Dh:85:THR:CG2	71:Dh:88:LEU:H	2.20	0.54
1:A2:1352:G:H2'	1:A2:1353:U:O4'	2.07	0.54
1:A2:1533:C:C5	27:AZ:77:ARG:NH2	2.75	0.54
86:A2:2019:OHX:N6	10:AI:52:ASN:OD1	2.40	0.54
3:AB:39:GLU:HG3	3:AB:40:ASN:N	2.20	0.54
7:AF:162:VAL:HB	30:Ac:45:LYS:HB3	1.90	0.54
29:Ab:36:LYS:HG2	29:Ab:43:ILE:HG22	1.89	0.54
30:Ac:32:PHE:HZ	30:Ac:38:ARG:CZ	2.21	0.54
36:A1:3389:U:HO2'	36:A1:3390:G:P	2.29	0.54
38:A4:125:U:O2'	38:A4:126:A:OP2	2.23	0.54
40:BB:113:GLU:CD	40:BB:167:ARG:HD3	2.32	0.54
59:BV:86:ARG:HA	59:BV:91:VAL:O	2.08	0.54
80:A6:1617:U:H2'	80:A6:1618:C:C6	2.43	0.54
6:CE:95:THR:CG2	6:CE:97:GLU:HG3	2.31	0.54
11:CJ:149:ARG:HH11	11:CJ:149:ARG:CG	2.19	0.54
30:Cc:26:THR:H	30:Cc:44:VAL:HG22	1.72	0.54
36:A5:1070:U:O4	86:A5:3625:OHX:N6	2.41	0.54
36:A5:2128:C:OP1	86:A5:3603:OHX:N3	2.41	0.54
36:A5:3160:U:H2'	36:A5:3161:C:C6	2.42	0.54
42:DD:279:LYS:HD3	42:DD:282:ARG:NH2	2.22	0.54
46:DH:91:ARG:NH2	46:DH:141:LYS:O	2.37	0.54
59:DV:13:ILE:HD13	59:DV:53:SER:HB2	1.89	0.54
64:Da:122:PRO:HB3	64:Da:142:GLY:O	2.06	0.54
1:A2:839:U:C5	86:A2:2074:OHX:N6	2.76	0.54
1:A2:970:A:H5'	1:A2:971:A:OP2	2.07	0.54
2:AA:9:LEU:HD22	2:AA:10:THR:H	1.72	0.54
2:AA:49:ASN:HB3	2:AA:52:LYS:CG	2.32	0.54
17:AP:18:ARG:NH1	20:AS:90:ASN:O	2.40	0.54
36:A1:540:U:OP2	86:A1:3793:OHX:N4	2.40	0.54
36:A1:627:U:H4'	36:A1:1399:A:O2'	2.06	0.54
36:A1:1645:U:H2'	36:A1:1646:G:H5'	1.89	0.54
86:A1:3496:OHX:N1	86:A1:3650:OHX:N2	2.55	0.54
52:BO:62[A]:THR:H	52:BO:69[A]:GLY:HA3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BO:119[A]:VAL:HG23	56:BS:164:SER:HB3	1.88	0.54
53:BP:125:GLN:HB2	53:BP:141:SER:HB2	1.90	0.54
80:A6:158:U:O2'	80:A6:159:U:H3'	2.07	0.54
80:A6:542:A:H8	80:A6:543:C:H5'	1.71	0.54
34:Cg:76:ASP:HB2	34:Cg:78:ALA:HB2	1.90	0.54
36:A5:419:G:N7	86:A8:202:OHX:N3	2.55	0.54
36:A5:2131:A:H61	79:Dp:18:TYR:H	1.54	0.54
36:A5:2234:G:N7	86:A5:3476:OHX:N1	2.54	0.54
36:A5:3275:U:C4	69:Df:60:ARG:HD2	2.43	0.54
36:A5:3288:G:C4	36:A5:3289:G:C8	2.95	0.54
38:A8:106:C:O2'	86:A8:215:OHX:N5	2.41	0.54
40:DB:218:ILE:HG13	40:DB:276:THR:HG23	1.88	0.54
49:DL:50:PRO:O	49:DL:51:LEU:HB2	2.06	0.54
54:DQ:153:PHE:O	54:DQ:161:LYS:HG2	2.06	0.54
72:Di:56:ARG:HH22	72:Di:76:ARG:NH1	2.05	0.54
1:A2:226:A:C2'	1:A2:227:U:H5'	2.38	0.54
1:A2:230:C:H2'	1:A2:231:U:H5''	1.90	0.54
1:A2:989:U:H2'	1:A2:990:C:C6	2.42	0.54
1:A2:1625:C:OP1	4:AC:91:ARG:NH2	2.40	0.54
3:AB:172:LEU:O	3:AB:176:VAL:HG23	2.08	0.54
3:AB:180:THR:O	3:AB:184:LEU:HB2	2.08	0.54
10:AI:26:LYS:O	10:AI:29:LEU:HB3	2.07	0.54
19:AR:20:TYR:CZ	19:AR:38:ILE:HD11	2.42	0.54
20:AS:31:ALA:O	20:AS:34:THR:HG23	2.07	0.54
36:A1:1191:U:C4'	36:A1:1192:C:H5'	2.38	0.54
36:A1:1565:G:N2	36:A1:1574:C:C2	2.75	0.54
86:A1:3471:OHX:N6	86:A1:3785:OHX:N5	2.55	0.54
86:A1:3503:OHX:N1	86:A1:3698:OHX:N4	2.56	0.54
51:BN:58:GLY:HA3	51:BN:142:ILE:HD11	1.90	0.54
51:BN:96:ARG:HG2	51:BN:96:ARG:NH1	2.22	0.54
55:BR:172:ARG:O	55:BR:176:ARG:HG2	2.08	0.54
80:A6:591:A:H2'	80:A6:592:A:C8	2.42	0.54
80:A6:1304:G:H5'	80:A6:1322:A:OP2	2.07	0.54
2:CA:70:PRO:HB2	2:CA:94:GLY:HA3	1.87	0.54
2:CA:126:PRO:HB2	2:CA:152:PRO:HG2	1.88	0.54
86:CG:301:OHX:N5	86:CG:302:OHX:N3	2.55	0.54
12:CK:3:MET:HE1	12:CK:45:ALA:HB2	1.88	0.54
17:CP:126:VAL:HG13	17:CP:127:ARG:H	1.73	0.54
33:Cf:144:CYS:O	33:Cf:146:SER:N	2.40	0.54
86:A5:3617:OHX:N1	86:A5:3743:OHX:N4	2.55	0.54
46:DH:162:GLN:HB2	46:DH:179:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DS:12:ARG:HB3	56:DS:24:LEU:HD23	1.87	0.54
58:DU:54:VAL:HG13	58:DU:67:SER:HB2	1.90	0.54
1:A2:103:A:H4'	1:A2:104:A:OP2	2.07	0.54
1:A2:720:G:H1'	1:A2:721:U:H5''	1.90	0.54
10:AI:36:THR:HG21	10:AI:173:PRO:HB2	1.90	0.54
15:AN:114:ARG:HG2	15:AN:114:ARG:NH1	2.18	0.54
36:A1:109:A:H4'	36:A1:110:G:OP1	2.07	0.54
36:A1:242:C:HO2'	36:A1:243:G:H8	1.56	0.54
36:A1:2778:G:H2'	36:A1:2779:A:H5'	1.90	0.54
40:BB:169:THR:HG21	40:BB:171:LEU:HD12	1.89	0.54
43:BE:43:LEU:HD11	43:BE:85:ILE:HG13	1.90	0.54
50:BM:17:VAL:HG22	50:BM:36:VAL:O	2.08	0.54
51:BN:46:ASP:OD1	51:BN:50:ARG:NH2	2.39	0.54
53:BP:51:VAL:HA	53:BP:56:ARG:O	2.08	0.54
80:A6:454:U:H5''	80:A6:455:C:C5	2.42	0.54
80:A6:1521:G:O2'	80:A6:1523:G:OP2	2.23	0.54
2:CA:105:GLY:N	2:CA:135:GLU:OE2	2.33	0.54
6:CE:120:SER:O	6:CE:164:LEU:HB2	2.07	0.54
24:CW:37:PHE:CD1	24:CW:41:MET:HE2	2.41	0.54
36:A5:32:U:O3'	51:DN:71:ARG:NH2	2.41	0.54
36:A5:1192:C:H41	36:A5:1302:A:P	2.31	0.54
86:A5:3444:OHX:N4	86:A5:3695:OHX:N2	2.55	0.54
86:A5:3464:OHX:N1	86:A5:3732:OHX:N4	2.55	0.54
86:A5:3473:OHX:N1	86:A5:3680:OHX:N5	2.56	0.54
86:A5:3516:OHX:N3	86:A5:3603:OHX:N5	2.55	0.54
86:A8:203:OHX:N2	86:A8:211:OHX:N4	2.55	0.54
45:DG:78:PHE:CD2	45:DG:179:ILE:HD13	2.43	0.54
50:DM:49:PRO:HG3	50:DM:78:THR:HG23	1.90	0.54
56:DS:155:ARG:NH2	56:DS:172:TYR:H	2.06	0.54
63:DZ:110:ALA:O	63:DZ:114:VAL:HG23	2.08	0.54
67:Dd:43:HIS:O	67:Dd:44:MET:HE2	2.07	0.54
1:A2:480:G:N2	1:A2:509:G:H1'	2.22	0.54
1:A2:592:A:OP1	11:AJ:39:LYS:HG2	2.07	0.54
1:A2:1217:A:H8	1:A2:1217:A:H5'	1.73	0.54
86:A2:1954:OHX:N6	86:A2:2071:OHX:N2	2.56	0.54
11:AJ:171:ARG:O	11:AJ:175:ARG:N	2.36	0.54
15:AN:113:PHE:HA	15:AN:116:ILE:HD12	1.90	0.54
18:AQ:127:LYS:NZ	18:AQ:131:GLY:O	2.38	0.54
24:AW:83:ILE:HD12	24:AW:122:SER:HB2	1.89	0.54
26:AY:36:SER:O	26:AY:40:LEU:HG	2.08	0.54
34:Ag:64:HIS:ND1	34:Ag:86:ASP:OD2	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:661:G:P	64:Ba:12:ARG:HH22	2.30	0.54
36:A1:712:G:H2'	36:A1:713:U:C6	2.43	0.54
36:A1:1240:A:H3'	36:A1:1241:U:H5'	1.89	0.54
36:A1:2704:A:OP2	86:A1:3412:OHX:N4	2.40	0.54
36:A1:3228:C:H4'	36:A1:3229:G:O5'	2.06	0.54
46:BH:29:GLY:HA3	46:BH:82:VAL:HG13	1.89	0.54
48:BJ:59:ILE:HG21	48:BJ:65:ILE:HD11	1.90	0.54
73:Bj:84:SER:O	73:Bj:85:LYS:HB2	2.08	0.54
80:A6:430:G:N7	86:A6:2083:OHX:N1	2.56	0.54
80:A6:696:C:C3'	80:A6:697:C:H5'	2.37	0.54
2:CA:83:GLN:HG2	2:CA:99:ALA:HB1	1.89	0.54
8:CG:120:GLU:HG3	8:CG:125:THR:HB	1.90	0.54
11:CJ:129:ILE:HA	11:CJ:134:ILE:HG12	1.88	0.54
22:CU:95:ALA:HB1	22:CU:99:ILE:HG13	1.89	0.54
28:Ca:39:MET:HE2	28:Ca:70:LYS:HD2	1.89	0.54
36:A5:96:G:H5'	49:DL:15:ARG:CZ	2.38	0.54
36:A5:121:A:C2	45:DG:129:PRO:HB3	2.43	0.54
36:A5:252:U:H4'	36:A5:253:A:O5'	2.08	0.54
36:A5:655:C:OP1	68:De:27:ARG:HB3	2.08	0.54
36:A5:1579:C:C2'	36:A5:1580:A:H5'	2.37	0.54
36:A5:1915:A:H2'	36:A5:1916:U:C6	2.43	0.54
36:A5:2439:A:OP1	36:A5:2439:A:H4'	2.07	0.54
36:A5:2971:A:H5''	36:A5:2972:G:C5'	2.37	0.54
86:A5:3542:OHX:N5	86:A5:3662:OHX:N3	2.56	0.54
48:DJ:82:ARG:HD2	48:DJ:112:LEU:HB2	1.89	0.54
61:DX:44:PRO:O	61:DX:45:LYS:HB2	2.08	0.54
72:Di:4:LYS:HD2	72:Di:13:LYS:O	2.07	0.54
83:Dq:4:ILE:H	83:Dq:4:ILE:HD13	1.73	0.54
1:A2:138:A:N6	1:A2:266:A:H61	2.06	0.54
1:A2:142:G:O6	8:AG:177:ARG:NH1	2.36	0.54
1:A2:197:A:H2'	1:A2:198:A:C8	2.42	0.54
1:A2:1034:C:OP1	15:AN:9:LYS:NZ	2.40	0.54
1:A2:1370:U:O2'	1:A2:1371:A:OP2	2.20	0.54
8:AG:58:LYS:C	8:AG:60:GLY:H	2.15	0.54
9:AH:167:GLU:O	9:AH:170:GLN:HB2	2.07	0.54
11:AJ:90:LYS:HB2	11:AJ:95:TYR:CD1	2.43	0.54
21:AT:117:SER:OG	21:AT:118:PRO:O	2.20	0.54
23:AV:64:GLU:O	23:AV:68:SER:HB2	2.07	0.54
36:A1:818:C:OP2	86:A1:3800:OHX:N1	2.40	0.54
46:BH:77:ASN:HB3	46:BH:151:VAL:HG21	1.89	0.54
48:BJ:16:LYS:HG2	48:BJ:130:VAL:HG13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:BV:23:MET:HB2	59:BV:99:ALA:HA	1.90	0.54
65:Bb:14:ARG:HH12	65:Bb:18:ARG:NH1	2.06	0.54
80:A6:333:A:OP1	10:CI:31:ARG:NH2	2.41	0.54
80:A6:751:G:H2'	80:A6:752:A:C8	2.42	0.54
80:A6:947:U:H2'	80:A6:948:G:H8	1.72	0.54
80:A6:1098:U:C6	80:A6:1098:U:H5''	2.43	0.54
80:A6:1417:A:O3'	18:CQ:128:LYS:HE3	2.07	0.54
2:CA:29:VAL:O	2:CA:30:GLN:HB3	2.06	0.54
6:CE:126:VAL:HG13	6:CE:158:ASP:O	2.07	0.54
8:CG:67:VAL:CG2	8:CG:99:GLY:HA2	2.37	0.54
13:CL:101:GLU:OE1	13:CL:103:ARG:NH2	2.33	0.54
17:CP:18:ARG:CD	20:CS:90:ASN:HD21	2.20	0.54
34:Cg:249:ARG:HH12	34:Cg:315:VAL:HG21	1.72	0.54
36:A5:916:G:H5'	36:A5:917:A:OP1	2.08	0.54
36:A5:1433:A:P	68:De:19:ARG:HH22	2.31	0.54
86:A5:3464:OHX:N5	86:A5:3732:OHX:N6	2.55	0.54
86:A5:3516:OHX:N4	86:A5:3603:OHX:N1	2.55	0.54
86:A5:3610:OHX:N1	86:A5:3814:OHX:N4	2.56	0.54
60:DW:50:ALA:HA	60:DW:55:PHE:CG	2.43	0.54
70:Dg:8:ARG:NH2	70:Dg:31:ARG:HD2	2.23	0.54
70:Dg:80:ARG:HG3	70:Dg:88:ARG:HH21	1.72	0.54
2:AA:147:THR:OG1	2:AA:159:ALA:HB1	2.07	0.54
9:AH:73:VAL:HG12	9:AH:77:LEU:HB2	1.90	0.54
10:AI:8:ARG:HH21	10:AI:21:PHE:H	1.54	0.54
36:A1:1256:G:O6	36:A1:1261:G:N2	2.41	0.54
36:A1:3195:U:O2'	36:A1:3197:G:N2	2.41	0.54
86:A1:3607:OHX:N6	86:A1:3789:OHX:N2	2.56	0.54
51:BN:80:THR:HG21	51:BN:87:GLN:HA	1.90	0.54
3:CB:129:THR:OG1	3:CB:131:ASP:O	2.25	0.54
7:CF:158:GLN:HG2	30:Cc:66:LEU:HD11	1.88	0.54
8:CG:63:MET:HE1	8:CG:109:LEU:HD23	1.90	0.54
11:CJ:171:ARG:NH1	11:CJ:174:ARG:HD3	2.22	0.54
36:A5:59:G:H4'	36:A5:60:A:H4'	1.88	0.54
36:A5:1307:G:C2	36:A5:1308:A:C2	2.96	0.54
36:A5:2181:C:H5''	39:DA:193:ARG:NH2	2.23	0.54
36:A5:2315:G:OP2	86:A5:3486:OHX:N3	2.41	0.54
36:A5:2403:G:H3'	86:A5:3762:OHX:N4	2.22	0.54
36:A5:3288:G:HO2'	36:A5:3289:G:H8	1.56	0.54
86:A5:3577:OHX:N6	86:A5:3729:OHX:N4	2.55	0.54
50:DM:16:GLU:HB3	56:DS:149:LYS:HB3	1.89	0.54
52:DO:64[A]:PHE:HE1	52:DO:68[A]:ARG:NH1	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DS:16:THR:HG1	56:DS:19:VAL:H	1.56	0.54
56:DS:79:VAL:HG21	56:DS:106:LEU:HD21	1.90	0.54
78:Do:40:LYS:HE3	78:Do:44:ASP:OD2	2.08	0.54
1:A2:542:A:O2'	1:A2:543:C:O5'	2.26	0.54
3:AB:61:LEU:HD23	3:AB:62:LYS:H	1.72	0.54
16:AO:13:VAL:N	16:AO:77:THR:OG1	2.38	0.54
25:AX:90:ASP:OD2	32:Ae:12:GLY:HA2	2.08	0.54
27:AZ:94:LYS:HD3	27:AZ:95:HIS:HB3	1.90	0.54
36:A1:1286:A:O2'	36:A1:1287:A:OP2	2.20	0.54
36:A1:3066:U:O4	86:A1:3692:OHX:N5	2.41	0.54
40:BB:370:PHE:CD2	40:BB:376:LYS:HG3	2.43	0.54
45:BG:134:TYR:CG	45:BG:190:VAL:HG21	2.43	0.54
80:A6:86:A:OP2	86:A6:2067:OHX:N1	2.41	0.54
80:A6:1371:A:H5'	80:A6:1372:U:OP2	2.07	0.54
80:A6:1559:A:N1	20:CS:134:ARG:NH1	2.56	0.54
80:A6:1584:G:O6	18:CQ:13:LYS:NZ	2.37	0.54
86:A6:1961:OHX:N5	86:A6:2009:OHX:N3	2.56	0.54
5:CD:60:GLY:O	5:CD:62:ASN:N	2.42	0.54
5:CD:157:LEU:HD23	5:CD:189:MET:HB2	1.90	0.54
5:CD:167:PHE:CE1	5:CD:192:PRO:HB3	2.43	0.54
19:CR:31:ASN:H	19:CR:31:ASN:HD22	1.54	0.54
26:CY:88:THR:O	26:CY:92:VAL:HG13	2.08	0.54
36:A5:1554:U:H4'	36:A5:1555:U:OP1	2.08	0.54
86:A5:3720:OHX:N1	86:A5:3722:OHX:N4	2.56	0.54
48:DJ:28:ASP:HA	48:DJ:31:THR:HG23	1.89	0.54
52:DO:64[A]:PHE:HE1	52:DO:68[A]:ARG:HH11	1.54	0.54
75:Dl:37:TYR:CE1	75:Dl:39:ALA:HA	2.42	0.54
1:A2:79:C:H4'	8:AG:173:PRO:O	2.09	0.53
1:A2:93:A:H4'	1:A2:94:U:OP2	2.07	0.53
1:A2:542:A:H5''	1:A2:544:A:C8	2.43	0.53
1:A2:813:U:C5	55:BR:163:ARG:HD2	2.43	0.53
1:A2:1062:A:H2'	1:A2:1063:U:O4'	2.09	0.53
86:A2:1954:OHX:N3	86:A2:2071:OHX:N5	2.56	0.53
9:AH:96:ARG:CZ	9:AH:124:LYS:HB3	2.38	0.53
12:AK:53:GLY:O	12:AK:55:VAL:N	2.39	0.53
26:AY:51:GLU:OE2	26:AY:53:ASP:N	2.33	0.53
28:Aa:9:GLY:HA3	28:Aa:34:LYS:HE2	1.89	0.53
36:A1:2705:A:OP2	86:A1:3412:OHX:N1	2.41	0.53
36:A1:2827:U:O4	86:A1:3410:OHX:N4	2.41	0.53
36:A1:3393:U:H2'	36:A1:3394:U:C6	2.43	0.53
40:BB:105:VAL:HG21	40:BB:148:LEU:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BC:338:LYS:C	41:BC:340:GLY:H	2.16	0.53
57:BT:14:MET:HE1	57:BT:55:LYS:CB	2.38	0.53
75:Bl:9:ILE:HG22	75:Bl:13:MET:CE	2.38	0.53
80:A6:1336:A:OP1	86:A6:2043:OHX:N1	2.41	0.53
15:CN:33:VAL:O	15:CN:37:ILE:HG12	2.07	0.53
36:A5:436:A:H3'	86:A5:3811:OHX:N3	2.23	0.53
36:A5:595:G:C8	36:A5:609:G:C6	2.96	0.53
36:A5:1566:A:C2'	36:A5:1567:U:H5'	2.38	0.53
1:A2:114:C:H5'	1:A2:114:C:H6	1.74	0.53
1:A2:133:U:H4'	1:A2:134:U:OP2	2.07	0.53
1:A2:830:U:OP1	86:A2:2087:OHX:N3	2.41	0.53
3:AB:34:ALA:HB2	3:AB:43:VAL:HG23	1.89	0.53
13:AL:101:GLU:OE2	25:AX:16:ARG:NH2	2.40	0.53
24:AW:37:PHE:CD2	24:AW:103:ILE:HD12	2.43	0.53
34:Ag:7:LEU:HD23	34:Ag:315:VAL:HG22	1.90	0.53
36:A1:1492:G:O2'	75:Bl:48:LYS:NZ	2.41	0.53
36:A1:1845:G:O2'	73:Bj:5:THR:HB	2.08	0.53
36:A1:2539:C:H5'	36:A1:2541:U:O4	2.08	0.53
36:A1:3215:A:H5'	50:BM:121:MET:HE1	1.90	0.53
36:A1:3351:U:O2'	36:A1:3352:U:OP1	2.25	0.53
38:A4:125:U:HO2'	38:A4:126:A:P	2.31	0.53
46:BH:13:PRO:HD2	46:BH:16:VAL:CG2	2.37	0.53
46:BH:162:GLN:HG3	46:BH:163:GLN:N	2.21	0.53
80:A6:246:G:C2	13:CL:40:LEU:HD22	2.43	0.53
80:A6:542:A:O2'	80:A6:543:C:O5'	2.25	0.53
3:CB:57:ALA:O	3:CB:61:LEU:HB2	2.08	0.53
5:CD:161:GLY:O	5:CD:164:VAL:HG12	2.08	0.53
14:CM:30:VAL:HB	14:CM:132:GLU:HG3	1.90	0.53
14:CM:52:LEU:HD12	14:CM:78:LEU:HB2	1.90	0.53
20:CS:91:ASP:O	20:CS:92:ILE:HB	2.08	0.53
23:CV:79:LEU:HD22	23:CV:82:VAL:HG21	1.90	0.53
36:A5:436:A:H5'	86:A5:3811:OHX:N4	2.23	0.53
36:A5:1655:G:H8	36:A5:1655:G:H5''	1.73	0.53
36:A5:2512:C:H5'	36:A5:2512:C:C6	2.30	0.53
36:A5:2590:A:H2'	36:A5:2591:A:O5'	2.09	0.53
36:A5:2970:C:HO2'	36:A5:2971:A:P	2.30	0.53
36:A5:3243:A:OP1	52:DO:159[A]:LYS:NZ	2.40	0.53
36:A5:3273:A:C2'	36:A5:3274:A:H5'	2.38	0.53
44:DF:155:LYS:C	44:DF:156:ILE:HG12	2.32	0.53
61:DX:132:ALA:O	61:DX:136:ALA:N	2.33	0.53
1:A2:283:U:H5''	8:AG:188:ARG:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:981:U:H2'	1:A2:982:U:H5'	1.91	0.53
1:A2:1354:G:H5'	1:A2:1355:C:OP2	2.07	0.53
86:A2:1915:OHX:N6	86:A2:2074:OHX:N5	2.55	0.53
3:AB:34:ALA:N	3:AB:41:ARG:O	2.29	0.53
6:AE:159:THR:HG23	6:AE:173:ILE:HD13	1.89	0.53
12:AK:12:HIS:NE2	12:AK:49:LEU:HD21	2.24	0.53
13:AL:84:ILE:HD12	13:AL:86:ILE:HG23	1.90	0.53
28:Aa:79:ILE:HG23	28:Aa:84:VAL:HG21	1.89	0.53
36:A1:155:G:H5''	36:A1:156:G:C8	2.43	0.53
36:A1:276:U:O2	51:BN:93:LYS:NZ	2.31	0.53
36:A1:781:G:OP1	54:BQ:151:ARG:HD2	2.09	0.53
36:A1:2548:C:H5''	36:A1:2549:G:OP1	2.08	0.53
36:A1:2875:U:C4	86:A1:3757:OHX:N6	2.76	0.53
36:A1:3294:A:H2'	36:A1:3295:A:O4'	2.08	0.53
40:BB:76:VAL:HG12	40:BB:325:LYS:HA	1.89	0.53
55:BR:180:LYS:HD3	55:BR:184:LEU:HD12	1.91	0.53
80:A6:1294:G:O6	86:A6:1925:OHX:N5	2.42	0.53
86:A6:1915:OHX:N5	86:A6:2002:OHX:N6	2.56	0.53
13:CL:21:ASN:ND2	13:CL:31:THR:HA	2.23	0.53
22:CU:99:ILE:H	22:CU:99:ILE:HD13	1.73	0.53
36:A5:1597:C:OP1	70:Dg:8:ARG:NH2	2.41	0.53
36:A5:2209:U:H4'	36:A5:2210:G:OP1	2.08	0.53
36:A5:3198:U:H4'	36:A5:3199:G:OP2	2.08	0.53
86:A5:3577:OHX:N5	86:A5:3729:OHX:N1	2.56	0.53
38:A8:74:U:O2	86:A8:207:OHX:N5	2.41	0.53
86:A8:203:OHX:N6	86:A8:211:OHX:N3	2.56	0.53
43:DE:3:ALA:HB2	68:De:77:ALA:HB2	1.89	0.53
47:DI:38:LYS:CG	47:DI:41:ALA:HB2	2.38	0.53
55:DR:105:LEU:HG	55:DR:138:LEU:HD12	1.89	0.53
56:DS:46:GLN:HG2	56:DS:51:VAL:O	2.09	0.53
58:DU:58:GLU:HB2	58:DU:63:VAL:HA	1.90	0.53
65:Db:58:LYS:NZ	65:Db:58:LYS:HA	2.23	0.53
78:Do:22:GLN:O	78:Do:75:VAL:HG22	2.07	0.53
79:Dp:56:THR:HG22	79:Dp:63:THR:HG23	1.89	0.53
1:A2:206:A:OP2	86:A2:1980:OHX:N5	2.41	0.53
1:A2:717:C:H2'	1:A2:718:U:H5''	1.90	0.53
86:A2:1907:OHX:N5	86:A2:2086:OHX:N6	2.56	0.53
86:A2:1922:OHX:N2	86:A2:1978:OHX:N6	2.56	0.53
5:AD:34:TYR:OH	5:AD:37:VAL:HG22	2.07	0.53
9:AH:35:LYS:NZ	9:AH:39:ARG:HD2	2.23	0.53
13:AL:6:THR:CB	13:AL:9:SER:HB3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:208:C:H2'	36:A1:209:A:H5'	1.91	0.53
36:A1:516:A:O3'	44:BF:60:ARG:NH2	2.42	0.53
36:A1:540:U:H2'	36:A1:541:U:C6	2.43	0.53
36:A1:1103:A:H2'	36:A1:1103:A:N3	2.23	0.53
36:A1:1241:U:H4'	36:A1:1242:G:OP1	2.07	0.53
36:A1:2107:A:C2	36:A1:3344:A:H8	2.25	0.53
36:A1:2223:A:OP2	36:A1:2223:A:H8	1.90	0.53
36:A1:2533:G:C6	86:A1:3751:OHX:N4	2.76	0.53
39:BA:128:ARG:HA	39:BA:169:ILE:HD13	1.91	0.53
42:BD:114:GLY:C	42:BD:116:ASP:H	2.15	0.53
54:BQ:3:ILE:HG13	54:BQ:5:HIS:CE1	2.44	0.53
74:Bk:77:ARG:O	74:Bk:78:LEU:HB2	2.08	0.53
75:Bl:9:ILE:HG22	75:Bl:13:MET:HE2	1.89	0.53
80:A6:779:U:O2'	80:A6:780:A:OP1	2.20	0.53
80:A6:793:A:H3'	80:A6:794:U:H5'	1.90	0.53
80:A6:811:A:C2	80:A6:858:G:H1'	2.44	0.53
80:A6:1229:G:H1	14:CM:47:GLU:HG2	1.73	0.53
80:A6:1776:A:H2'	80:A6:1777:G:C8	2.43	0.53
11:CJ:129:ILE:HA	11:CJ:134:ILE:CG1	2.39	0.53
13:CL:109:VAL:HG11	13:CL:125:VAL:HG11	1.91	0.53
14:CM:75:VAL:O	14:CM:79:ALA:N	2.38	0.53
36:A5:2778:G:C2'	36:A5:2779:A:H5'	2.38	0.53
36:A5:2778:G:H2'	36:A5:2779:A:H5'	1.90	0.53
36:A5:2844:C:H5''	36:A5:2845:A:OP2	2.09	0.53
86:A5:3444:OHX:N4	86:A5:3695:OHX:N5	2.57	0.53
86:A5:3515:OHX:N2	86:A5:3723:OHX:N5	2.56	0.53
86:A8:203:OHX:N5	86:A8:211:OHX:N3	2.57	0.53
39:DA:149:ARG:NH2	39:DA:252:THR:O	2.42	0.53
40:DB:84:VAL:HG13	40:DB:162:VAL:HB	1.91	0.53
41:DC:91:GLY:O	41:DC:94:CYS:HB2	2.09	0.53
44:DF:158:LYS:HD2	44:DF:159:GLN:CA	2.36	0.53
54:DQ:178:ARG:HG2	64:Da:51:GLY:HA3	1.89	0.53
73:Dj:28:HIS:CE1	73:Dj:31:LYS:HG3	2.43	0.53
83:Dq:10:GLU:O	83:Dq:13:ALA:HB3	2.08	0.53
1:A2:61:A:H8	1:A2:269:G:O2'	1.92	0.53
1:A2:425:A:H5'	1:A2:425:A:H8	1.72	0.53
3:AB:62:LYS:C	3:AB:64:ARG:H	2.12	0.53
9:AH:30:SER:HB2	9:AH:34:LEU:HB2	1.90	0.53
9:AH:111:LYS:O	9:AH:112:ARG:HB2	2.07	0.53
11:AJ:151:ASP:N	11:AJ:151:ASP:OD1	2.39	0.53
13:AL:14:GLN:HB3	13:AL:54:ILE:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AL:57:LYS:HB2	13:AL:110:HIS:NE2	2.24	0.53
19:AR:44:LYS:HG2	19:AR:48:ASN:HD21	1.74	0.53
33:Af:130:VAL:HG11	33:Af:143:LYS:HG2	1.89	0.53
36:A1:94:G:H2'	36:A1:95:A:C8	2.43	0.53
36:A1:517:G:H8	36:A1:517:G:C5'	2.17	0.53
36:A1:1231:A:H5''	36:A1:1232:C:H5'	1.90	0.53
36:A1:3246:G:O6	86:A1:3657:OHX:N4	2.40	0.53
42:BD:50:ARG:NH1	42:BD:72:ASP:OD2	2.42	0.53
56:BS:155:ARG:HD3	56:BS:172:TYR:CG	2.43	0.53
70:Bg:22:VAL:HG12	70:Bg:30:LEU:HD22	1.90	0.53
80:A6:66:U:H5	8:CG:173:PRO:HG3	1.72	0.53
80:A6:955:A:OP1	15:CN:3:ARG:NH1	2.42	0.53
5:CD:137:VAL:HG22	5:CD:151:LYS:HG3	1.90	0.53
6:CE:9:LEU:HD12	6:CE:30:ARG:HA	1.89	0.53
13:CL:57:LYS:HD3	13:CL:131:ILE:HG23	1.90	0.53
15:CN:114:ARG:HH11	15:CN:114:ARG:CG	2.16	0.53
17:CP:127:ARG:CZ	81:Ch:66:ALA:HB2	2.38	0.53
20:CS:46:VAL:HG11	20:CS:73:MET:HE3	1.91	0.53
24:CW:5:SER:HB3	24:CW:8:ALA:HB3	1.89	0.53
36:A5:420:G:O5'	36:A5:420:G:OP1	2.26	0.53
36:A5:1085:A:H8	36:A5:1085:A:H5'	1.72	0.53
36:A5:2438:A:C6	36:A5:2510:U:N3	2.77	0.53
43:DE:50:LYS:HG2	43:DE:74:VAL:HG21	1.89	0.53
51:DN:47:LYS:HE3	51:DN:51:LEU:HD11	1.91	0.53
51:DN:119:TYR:OH	51:DN:131:GLU:OE1	2.16	0.53
69:Df:8:TYR:CE2	69:Df:99:ARG:HG2	2.43	0.53
75:Dl:21:ARG:HD3	75:Dl:22:PRO:O	2.09	0.53
1:A2:420:A:H2'	1:A2:421:A:O4'	2.08	0.53
1:A2:900:A:OP1	16:AO:43:THR:OG1	2.20	0.53
2:AA:81:PHE:HB3	2:AA:170:ILE:HD13	1.91	0.53
12:AK:33:GLU:CD	12:AK:33:GLU:H	2.16	0.53
36:A1:3169:U:H2'	36:A1:3170:A:O4'	2.08	0.53
86:A1:3495:OHX:N4	86:A1:3584:OHX:N3	2.56	0.53
50:BM:48:GLY:HA3	50:BM:53:VAL:HG13	1.90	0.53
52:BO:39[A]:GLU:HG2	52:BO:40[A]:GLU:HG2	1.89	0.53
52:BO:84[A]:LEU:HD13	52:BO:102[A]:LEU:HD21	1.91	0.53
62:BY:40:ARG:HG3	62:BY:45:ILE:O	2.08	0.53
80:A6:1058:U:O2'	80:A6:1059:U:H5''	2.08	0.53
80:A6:1656:U:H5''	80:A6:1657:U:OP2	2.08	0.53
9:CH:151:LYS:HG3	9:CH:182:VAL:HG12	1.89	0.53
14:CM:132:GLU:O	14:CM:136:ILE:HD13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CU:18:GLN:O	22:CU:19:ILE:HG13	2.09	0.53
36:A5:685:G:OP2	49:DL:35:ARG:NH1	2.41	0.53
36:A5:741:U:H2'	36:A5:742:G:O4'	2.09	0.53
36:A5:790:U:H4'	41:DC:112:LYS:HG2	1.91	0.53
36:A5:2174:G:OP2	39:DA:193:ARG:NH1	2.42	0.53
36:A5:2299:A:OP2	86:A5:3474:OHX:N1	2.42	0.53
36:A5:2541:U:H4'	36:A5:2542:U:OP1	2.09	0.53
36:A5:3057:U:O2'	36:A5:3059:G:OP1	2.27	0.53
36:A5:3186:A:C2	46:DH:44:THR:HG22	2.43	0.53
86:A5:3580:OHX:N1	86:A5:3660:OHX:N2	2.57	0.53
37:A7:49:G:H4'	37:A7:50:U:O5'	2.08	0.53
49:DL:75:PHE:H	49:DL:97:VAL:HA	1.72	0.53
70:Dg:9:ARG:O	70:Dg:11:ASN:N	2.42	0.53
1:A2:20:G:H5'	1:A2:571:G:C5	2.43	0.53
1:A2:1514:U:H5'	1:A2:1514:U:O2	2.07	0.53
86:A2:2017:OHX:N6	86:A2:2076:OHX:N2	2.57	0.53
9:AH:16:LEU:HA	9:AH:19:GLN:HG3	1.90	0.53
16:AO:117:ASP:OD1	16:AO:119:THR:HG23	2.08	0.53
18:AQ:35:PRO:HG2	18:AQ:38:LEU:HG	1.90	0.53
33:Af:136:LYS:H	33:Af:138:ARG:HB2	1.73	0.53
34:Ag:192:PHE:HD1	34:Ag:223:TRP:CE3	2.27	0.53
36:A1:612:U:OP1	43:BE:21:THR:HB	2.08	0.53
36:A1:1477:A:OP1	36:A1:3075:G:O2'	2.23	0.53
36:A1:1805:C:H2'	36:A1:1806:A:C8	2.44	0.53
36:A1:2227:C:C6	36:A1:2227:C:H3'	2.43	0.53
36:A1:2662:G:H2'	36:A1:2663:G:C8	2.44	0.53
36:A1:3195:U:O2'	36:A1:3196:U:H5'	2.08	0.53
36:A1:3275:U:C2'	36:A1:3276:G:OP1	2.57	0.53
86:A1:3483:OHX:N1	86:A1:3806:OHX:N2	2.57	0.53
86:A1:3495:OHX:N1	86:A1:3584:OHX:N5	2.57	0.53
86:A1:3503:OHX:N1	86:A1:3698:OHX:N3	2.57	0.53
38:A4:79:A:O3'	38:A4:80:A:H4'	2.09	0.53
41:BC:286:VAL:HA	41:BC:289:ILE:HG13	1.91	0.53
57:BT:56:PHE:CZ	57:BT:78:LYS:HD3	2.44	0.53
68:Be:60:ASN:OD1	68:Be:62:LYS:HB2	2.08	0.53
80:A6:470:A:H5'	80:A6:470:A:C8	2.44	0.53
80:A6:922:G:H2'	80:A6:923:A:C8	2.42	0.53
86:A6:1915:OHX:N1	86:A6:2002:OHX:N3	2.57	0.53
7:CF:225:ARG:NH2	30:Cc:58:GLU:HB2	2.24	0.53
14:CM:69:ALA:HA	14:CM:71:ILE:HG23	1.89	0.53
20:CS:24:GLY:O	20:CS:59:GLY:N	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:Ch:48:ARG:HA	36:A5:1019:G:OP1	2.08	0.53
36:A5:145:G:O6	86:A5:3533:OHX:N5	2.42	0.53
36:A5:1192:C:C5	86:A5:3604:OHX:N4	2.77	0.53
36:A5:1716:U:H5'	36:A5:1716:U:C6	2.44	0.53
36:A5:2317:A:OP2	86:A5:3716:OHX:N6	2.42	0.53
36:A5:2573:G:H2'	36:A5:2574:G:O4'	2.09	0.53
36:A5:2733:A:H2'	36:A5:2734:A:O4'	2.09	0.53
40:DB:37:ARG:CG	40:DB:187:SER:H	2.19	0.53
42:DD:202:GLY:O	42:DD:206:GLN:HG3	2.08	0.53
49:DL:3:ILE:HG21	64:Da:45:MET:HE3	1.91	0.53
57:DT:12:ARG:HD3	57:DT:13:TYR:CE1	2.43	0.53
61:DX:105:VAL:HG11	61:DX:126:LEU:HD13	1.89	0.53
1:A2:823:G:O2'	1:A2:824:G:O5'	2.24	0.53
1:A2:1149:G:H1'	1:A2:1765:A:C4	2.44	0.53
1:A2:1487:A:H2'	1:A2:1488:G:C8	2.44	0.53
2:AA:109:ASN:O	2:AA:112:THR:HG22	2.08	0.53
3:AB:72:ASP:OD2	28:Aa:59:TYR:OH	2.14	0.53
3:AB:157:GLN:H	3:AB:160:HIS:HB2	1.74	0.53
5:AD:211:PRO:O	5:AD:212:LYS:HB2	2.08	0.53
7:AF:145:ASP:CG	7:AF:146:THR:H	2.17	0.53
20:AS:125:ILE:HG12	35:Ah:61:ILE:HG23	1.91	0.53
30:Ac:13:ILE:HG13	30:Ac:29:ARG:O	2.08	0.53
36:A1:1561:G:N1	36:A1:1578:C:N4	2.57	0.53
36:A1:3018:C:H2'	36:A1:3019:U:O4'	2.09	0.53
66:Bc:78:GLY:HA2	66:Bc:87:VAL:HG13	1.91	0.53
72:Bi:97:SER:C	72:Bi:99:ARG:H	2.17	0.53
80:A6:580:A:OP1	86:A6:2069:OHX:N5	2.42	0.53
80:A6:879:G:O2'	15:CN:105:ASN:HB3	2.09	0.53
80:A6:1568:C:OP2	20:CS:36:LYS:NZ	2.41	0.53
11:CJ:28:LEU:HD11	32:Ce:39:LEU:HB3	1.90	0.53
14:CM:58:LEU:HG	14:CM:126:TRP:CZ3	2.43	0.53
36:A5:563:U:OP1	56:DS:71:LYS:NZ	2.42	0.53
36:A5:644:G:H2'	36:A5:2372:A:N7	2.24	0.53
36:A5:1310:G:O6	86:A5:3541:OHX:N4	2.42	0.53
36:A5:1940:G:H21	36:A5:3362:A:H8	1.55	0.53
36:A5:2257:C:H2'	36:A5:2258:U:O4'	2.09	0.53
36:A5:2364:G:H22	36:A5:2396:G:H1'	1.74	0.53
36:A5:2568:C:N4	36:A5:2574:G:O6	2.42	0.53
86:A5:3487:OHX:N1	86:A5:3644:OHX:N2	2.57	0.53
40:DB:35:ASP:OD2	40:DB:37:ARG:HD2	2.09	0.53
69:Df:91:ALA:C	69:Df:93:THR:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:611:U:OP2	25:AX:5:LYS:HE2	2.09	0.53
1:A2:927:C:H1'	16:AO:125:SER:HB2	1.91	0.53
1:A2:1528:U:OP1	7:AF:109:LYS:HG2	2.09	0.53
86:A2:1975:OHX:N3	86:A2:1989:OHX:N5	2.57	0.53
3:AB:128:LYS:HE3	3:AB:132:ASP:HB3	1.90	0.53
5:AD:127:MET:HE1	5:AD:133:GLY:HA2	1.91	0.53
6:AE:104:ASP:HB2	6:AE:108:ARG:H	1.72	0.53
7:AF:94:THR:O	7:AF:97:LEU:HB2	2.09	0.53
8:AG:139:ASN:HA	8:AG:142:ARG:HB2	1.91	0.53
9:AH:46:ILE:HG12	9:AH:60:ILE:HG23	1.90	0.53
12:AK:14:TYR:CE2	12:AK:21:VAL:HG22	2.43	0.53
21:AT:63:ARG:HG3	21:AT:67:MET:HE1	1.90	0.53
24:AW:24:GLN:NE2	29:Ab:4:VAL:HA	2.24	0.53
26:AY:49:LYS:HD3	26:AY:49:LYS:N	2.24	0.53
30:Ac:34:GLU:O	30:Ac:35:ASP:HB2	2.09	0.53
34:Ag:33:LEU:HB3	34:Ag:45:TRP:HB2	1.90	0.53
36:A1:911:C:N4	39:BA:3:ARG:HD3	2.24	0.53
36:A1:1095:U:H4'	36:A1:1096:U:H5''	1.91	0.53
36:A1:1175:C:H5''	52:BO:25[B]:LYS:HG2	1.90	0.53
42:BD:209:GLU:O	42:BD:211:LEU:N	2.42	0.53
43:BE:52:VAL:HG11	43:BE:65:ILE:HG13	1.90	0.53
44:BF:176:TYR:CZ	44:BF:197:GLN:HG2	2.44	0.53
48:BJ:80:LEU:O	48:BJ:84:LEU:HB2	2.09	0.53
78:Bo:63:LYS:HD2	78:Bo:87:ARG:CZ	2.39	0.53
80:A6:812:A:OP1	80:A6:814:A:C8	2.62	0.53
80:A6:1495:C:OP1	86:A6:2085:OHX:N6	2.41	0.53
6:CE:57:ASN:HB3	6:CE:59:ARG:H	1.74	0.53
7:CF:68:ILE:HD13	7:CF:69:PHE:N	2.24	0.53
9:CH:78:THR:HG22	9:CH:92:PHE:HE1	1.74	0.53
28:Ca:44:ILE:HB	28:Ca:65:PRO:HG2	1.89	0.53
36:A5:356:C:OP2	86:A5:3750:OHX:N2	2.42	0.53
36:A5:600:G:H8	36:A5:600:G:H5''	1.72	0.53
36:A5:929:A:H2'	36:A5:930:U:C6	2.44	0.53
36:A5:2425:G:H2'	36:A5:2426:U:O4'	2.08	0.53
36:A5:2550:U:C6	45:DG:37:GLY:HA3	2.44	0.53
36:A5:3153:U:H4'	36:A5:3154:C:H5'	1.90	0.53
86:A5:3569:OHX:N1	86:A5:3738:OHX:N2	2.57	0.53
41:DC:326:ARG:O	44:DF:41:ARG:NH2	2.40	0.53
45:DG:41:GLN:HG3	45:DG:42:PRO:HD2	1.90	0.53
46:DH:163:GLN:HB3	46:DH:166:ARG:HH11	1.74	0.53
52:DO:110[B]:PRO:HB2	52:DO:111[B]:PRO:HD2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:Di:74:LYS:HG3	72:Di:80:PHE:HA	1.90	0.53
1:A2:290:G:O6	86:A2:2045:OHX:N2	2.41	0.53
1:A2:325:G:H4'	13:AL:83:THR:HG21	1.90	0.53
1:A2:767:U:H5	11:AJ:142:ASN:H	1.55	0.53
1:A2:918:U:O3'	16:AO:18:ARG:NH1	2.42	0.53
1:A2:1595:U:H3	1:A2:1600:A:H2	1.56	0.53
1:A2:1686:C:C2'	1:A2:1687:U:C6	2.79	0.53
1:A2:1783:C:OP2	77:Bn:1:MET:HB2	2.09	0.53
86:A2:1954:OHX:N4	86:A2:2071:OHX:N2	2.57	0.53
3:AB:131:ASP:CG	3:AB:180:THR:HG21	2.33	0.53
4:AC:234:PRO:O	4:AC:235:LEU:HB2	2.09	0.53
10:AI:8:ARG:HH21	10:AI:21:PHE:N	2.07	0.53
13:AL:75:VAL:HG12	13:AL:119:VAL:HA	1.91	0.53
21:AT:126:GLU:H	21:AT:126:GLU:CD	2.17	0.53
22:AU:23:ARG:HD3	22:AU:92:ASP:OD1	2.09	0.53
35:Ah:136:ALA:O	35:Ah:140:ASP:N	2.31	0.53
36:A1:13:A:H5''	36:A1:13:A:C8	2.43	0.53
36:A1:874:U:H5'	36:A1:875:G:OP1	2.09	0.53
41:BC:295:ILE:O	41:BC:299:ILE:HG12	2.09	0.53
42:BD:148:ILE:HG12	42:BD:159:VAL:HG11	1.90	0.53
47:BI:174:THR:HG22	47:BI:176:LEU:H	1.72	0.53
57:BT:14:MET:HE1	57:BT:55:LYS:HA	1.91	0.53
59:BV:87:ARG:HH22	59:BV:137:VAL:HG22	1.74	0.53
61:BX:139:ILE:HG12	61:BX:141:TYR:CD2	2.44	0.53
64:Ba:74:ASN:CG	64:Ba:115:LYS:HB2	2.34	0.53
80:A6:190:C:H1'	80:A6:191:C:H5'	1.91	0.53
80:A6:330:G:OP2	10:CI:172:ARG:NH1	2.42	0.53
80:A6:375:U:OP1	25:CX:23:ARG:NH2	2.39	0.53
80:A6:698:U:O4	86:A6:1930:OHX:N3	2.42	0.53
80:A6:1263:G:C2	80:A6:1264:G:H1'	2.44	0.53
80:A6:1793:G:N7	28:Ca:34:LYS:NZ	2.57	0.53
22:CU:15:GLN:O	22:CU:16:GLN:HB2	2.09	0.53
36:A5:742:G:N7	86:A5:3518:OHX:N2	2.56	0.53
36:A5:1214:U:H2'	36:A5:1215:U:C6	2.43	0.53
36:A5:1878:G:O2'	36:A5:1879:A:OP1	2.25	0.53
36:A5:2403:G:H22	36:A5:2404:A:H62	1.55	0.53
36:A5:2995:A:H5''	36:A5:2996:U:OP2	2.08	0.53
86:A5:3569:OHX:N3	86:A5:3738:OHX:N4	2.56	0.53
41:DC:144:LYS:H	41:DC:144:LYS:HZ2	1.55	0.53
44:DF:96:PRO:O	44:DF:99:PRO:HD2	2.09	0.53
47:DI:50:VAL:HG13	47:DI:167:LEU:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DR:128:LYS:HG2	55:DR:128:LYS:O	2.08	0.53
55:DR:167:ARG:HB3	55:DR:167:ARG:HH11	1.74	0.53
1:A2:533:U:C4'	26:AY:33:ALA:HB2	2.39	0.52
1:A2:632:U:OP1	13:AL:102:LYS:HG3	2.08	0.52
1:A2:765:G:C4	11:AJ:149:ARG:CZ	2.92	0.52
1:A2:1241:G:H5''	17:AP:77:ARG:HB2	1.90	0.52
2:AA:59:LEU:HD11	23:AV:79:LEU:HD11	1.91	0.52
11:AJ:105:LEU:O	11:AJ:108:ARG:HG3	2.09	0.52
21:AT:52:GLY:C	21:AT:54:PHE:H	2.15	0.52
24:AW:72:CYS:HB3	24:AW:129:VAL:HG13	1.90	0.52
36:A1:1363:A:OP2	86:A1:3591:OHX:N6	2.42	0.52
36:A1:1636:U:H5''	63:BZ:73:LYS:NZ	2.23	0.52
36:A1:2513:U:HO2'	36:A1:2514:U:H2'	1.74	0.52
42:BD:152:ARG:HG3	42:BD:152:ARG:HH11	1.74	0.52
44:BF:27:ALA:O	44:BF:31:ALA:N	2.42	0.52
45:BG:50:VAL:HG22	45:BG:52:TRP:CE2	2.44	0.52
64:Ba:28:HIS:CD2	64:Ba:32:ARG:HG2	2.44	0.52
75:Bl:37:TYR:CE1	75:Bl:39:ALA:HA	2.43	0.52
80:A6:76:A:N3	80:A6:76:A:H2'	2.24	0.52
80:A6:486:G:O2'	80:A6:487:G:H5'	2.09	0.52
80:A6:678:A:H2'	80:A6:679:U:C6	2.44	0.52
80:A6:1334:U:H2'	80:A6:1335:U:C6	2.44	0.52
80:A6:1540:G:C6	80:A6:1541:G:C4	2.96	0.52
86:A6:1915:OHX:N2	86:A6:2002:OHX:N4	2.57	0.52
4:CC:108:ASN:O	4:CC:108:ASN:ND2	2.42	0.52
5:CD:167:PHE:O	5:CD:190:ARG:HG2	2.09	0.52
14:CM:45:LEU:O	14:CM:49:THR:HG23	2.08	0.52
18:CQ:99:GLU:HG2	34:Cg:57:PRO:HB2	1.91	0.52
29:Cb:19:HIS:HD2	29:Cb:21:LEU:N	2.06	0.52
36:A5:1599:G:OP1	86:A5:3653:OHX:N4	2.42	0.52
40:DB:283:TYR:CB	40:DB:323:MET:HE2	2.38	0.52
1:A2:513:U:H2'	1:A2:514:G:C8	2.44	0.52
1:A2:520:A:H2'	1:A2:521:A:C8	2.44	0.52
1:A2:872:G:H2'	1:A2:873:U:O4'	2.09	0.52
1:A2:1473:U:O2	1:A2:1473:U:H2'	2.08	0.52
1:A2:1572:G:H1'	7:AF:185:ARG:HH22	1.74	0.52
1:A2:1647:U:O2	32:Ae:2:ALA:HA	2.10	0.52
3:AB:181:LEU:O	3:AB:182:ALA:C	2.52	0.52
6:AE:241:GLY:O	6:AE:244:ILE:HG12	2.09	0.52
9:AH:104:ARG:O	9:AH:106:SER:N	2.42	0.52
18:AQ:113:ASP:CG	18:AQ:114:ARG:N	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:57:ARG:NH2	21:AT:80:TYR:HB3	2.24	0.52
36:A1:431:U:OP1	69:Bf:53:TYR:OH	2.18	0.52
36:A1:503:C:O2	43:BE:23:LYS:HE2	2.09	0.52
36:A1:1113:G:OP2	86:A1:3619:OHX:N1	2.43	0.52
36:A1:1652:G:O2'	70:Bg:45:GLY:HA3	2.10	0.52
36:A1:1816:A:O2'	36:A1:1817:G:OP1	2.25	0.52
36:A1:2242:A:H5''	39:BA:244:GLY:HA3	1.90	0.52
36:A1:2314:U:O4	86:A1:3424:OHX:N5	2.42	0.52
36:A1:2828:G:P	47:BI:7:ARG:HH12	2.32	0.52
86:A1:3479:OHX:N5	86:A1:3795:OHX:N3	2.57	0.52
86:A1:3607:OHX:N3	86:A1:3789:OHX:N4	2.57	0.52
39:BA:44:ILE:HD12	39:BA:44:ILE:H	1.72	0.52
66:Bc:103:THR:OG1	66:Bc:104:LEU:N	2.39	0.52
76:Bm:78:ILE:HG23	76:Bm:83:LYS:HB2	1.90	0.52
78:Bo:100:LYS:H	78:Bo:100:LYS:HE3	1.73	0.52
80:A6:577:G:C8	80:A6:577:G:H3'	2.44	0.52
80:A6:1268:G:H1'	80:A6:1448:G:H5''	1.90	0.52
6:CE:52:LEU:HB3	6:CE:54:TYR:HD2	1.73	0.52
9:CH:114:ARG:O	9:CH:117:THR:HB	2.09	0.52
16:CO:61:MET:O	16:CO:65:GLN:HG2	2.09	0.52
27:CZ:61:SER:H	27:CZ:64:VAL:HG23	1.74	0.52
81:Ch:48:ARG:HG3	36:A5:1019:G:OP1	2.09	0.52
36:A5:725:G:C2'	36:A5:726:G:H5''	2.39	0.52
36:A5:996:A:H2'	36:A5:997:A:O4'	2.09	0.52
36:A5:1481:A:O2'	36:A5:1858:A:N3	2.40	0.52
36:A5:3052:G:N7	86:A5:3700:OHX:N3	2.57	0.52
36:A5:3354:U:H4'	36:A5:3355:U:H5''	1.91	0.52
86:A5:3569:OHX:N1	86:A5:3738:OHX:N4	2.56	0.52
41:DC:311:HIS:NE2	41:DC:314:LYS:HA	2.24	0.52
61:DX:50:ALA:N	71:Dh:79:ASP:OD1	2.37	0.52
71:Dh:34:GLN:HB3	71:Dh:38:ARG:NH2	2.24	0.52
1:A2:6:G:OP2	4:AC:205:ARG:HD2	2.10	0.52
1:A2:237:C:H4'	1:A2:238:U:H5'	1.90	0.52
1:A2:717:C:N4	1:A2:720:G:H22	2.03	0.52
2:AA:27:ARG:HG2	2:AA:28:ASN:H	1.75	0.52
7:AF:103:ASN:HA	7:AF:106:LYS:HD2	1.92	0.52
10:AI:76:THR:HG22	10:AI:108:PRO:HG2	1.91	0.52
12:AK:1:MET:HG2	12:AK:2:LEU:H	1.73	0.52
17:AP:87:PRO:HD3	17:AP:112:LEU:HD22	1.91	0.52
36:A1:863:C:H2'	36:A1:864:G:O4'	2.08	0.52
36:A1:1064:A:H5''	36:A1:1066:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1103:A:H4'	36:A1:1104:G:OP2	2.10	0.52
36:A1:1323:G:O3'	56:BS:2:ALA:HA	2.09	0.52
36:A1:1370:G:H5''	64:Ba:18:GLY:O	2.10	0.52
36:A1:1895:A:O2'	36:A1:3053:G:H4'	2.08	0.52
36:A1:2662:G:H2'	36:A1:2663:G:H8	1.75	0.52
36:A1:2842:U:OP1	36:A1:2844:C:N4	2.42	0.52
36:A1:3155:U:O4	86:A1:3704:OHX:N6	2.41	0.52
52:BO:10[B]:ASP:HB2	52:BO:117[B]:ARG:HG3	1.92	0.52
74:Bk:46:ARG:NH1	74:Bk:47:GLY:O	2.42	0.52
79:Bp:84:ARG:O	79:Bp:88:GLU:HG2	2.09	0.52
80:A6:570:A:H5''	80:A6:571:G:OP2	2.09	0.52
80:A6:753:A:OP1	6:CE:220:THR:HG22	2.09	0.52
80:A6:826:U:H2'	80:A6:827:C:C6	2.45	0.52
80:A6:862:A:OP1	15:CN:20:ARG:NE	2.38	0.52
80:A6:1549:C:OP1	17:CP:42:ARG:NH1	2.36	0.52
2:CA:142:PRO:HB3	23:CV:34:ILE:CD1	2.40	0.52
7:CF:33:VAL:HG13	7:CF:37:GLN:NE2	2.24	0.52
22:CU:37:VAL:HG13	22:CU:107:THR:HG22	1.90	0.52
36:A5:353:G:N7	73:Dj:55:ARG:HD3	2.23	0.52
36:A5:1017:C:P	36:A5:1017:C:H2'	2.50	0.52
36:A5:1386:A:N7	41:DC:183:LYS:HE3	2.25	0.52
36:A5:3218:A:H5''	36:A5:3219:G:C5	2.44	0.52
86:A5:3492:OHX:N4	86:A5:3737:OHX:N3	2.57	0.52
86:A5:3516:OHX:N3	86:A5:3603:OHX:N1	2.56	0.52
39:DA:143:GLU:O	39:DA:145:LYS:N	2.42	0.52
40:DB:210:GLU:O	40:DB:213:GLU:HB2	2.09	0.52
41:DC:157:GLU:HG2	41:DC:209:TYR:HB2	1.91	0.52
51:DN:8:GLU:HG3	51:DN:50:ARG:NH1	2.16	0.52
63:DZ:4:PHE:O	63:DZ:5:LEU:HG	2.10	0.52
71:Dh:45:LYS:O	71:Dh:49:LYS:HG2	2.09	0.52
1:A2:240:U:H1'	1:A2:241:U:P	2.49	0.52
1:A2:287:G:O2'	1:A2:288:A:OP2	2.24	0.52
1:A2:487:G:H3'	1:A2:488:G:H5''	1.92	0.52
1:A2:542:A:O2'	1:A2:543:C:P	2.67	0.52
1:A2:1011:G:OP2	86:A2:1970:OHX:N6	2.42	0.52
1:A2:1474:G:H2'	1:A2:1475:A:H8	1.73	0.52
86:A2:1907:OHX:N1	86:A2:2086:OHX:N4	2.58	0.52
3:AB:174:LYS:HB2	3:AB:174:LYS:NZ	2.25	0.52
10:AI:117:TYR:CD1	10:AI:150:ALA:HB2	2.44	0.52
20:AS:26:ILE:HD13	20:AS:30:TYR:HB2	1.91	0.52
27:AZ:41:ILE:HG13	27:AZ:42:LEU:HG	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:Ag:136:ILE:HD13	34:Ag:136:ILE:N	2.24	0.52
34:Ag:273:ASP:CG	34:Ag:275:ARG:HH22	2.17	0.52
36:A1:514:G:N3	41:BC:341:SER:OG	2.40	0.52
36:A1:818:C:N3	36:A1:920:A:H5'	2.25	0.52
36:A1:975:C:H2'	36:A1:976:U:C6	2.44	0.52
36:A1:1278:A:O2'	36:A1:1279:C:H6	1.92	0.52
36:A1:1472:U:H5'	55:BR:4:LEU:HB2	1.91	0.52
86:A1:3766:OHX:N1	51:BN:204:LYS:O	2.42	0.52
38:A4:58:G:O6	73:Bj:63:ARG:NH2	2.39	0.52
40:BB:25:ILE:HD13	40:BB:25:ILE:N	2.24	0.52
47:BI:9:TYR:CG	47:BI:97:LEU:HD13	2.44	0.52
51:BN:16:SER:O	51:BN:20:ARG:HG2	2.09	0.52
52:BO:74[B]:ARG:O	52:BO:142[B]:SER:OG	2.22	0.52
80:A6:180:A:H2'	80:A6:181:A:O4'	2.09	0.52
80:A6:198:A:C2'	80:A6:199:G:H5'	2.39	0.52
6:CE:77:ARG:HH11	6:CE:77:ARG:HG3	1.74	0.52
17:CP:18:ARG:NH2	17:CP:38:PRO:HG3	2.25	0.52
17:CP:73:PRO:HD2	17:CP:93:VAL:HG23	1.92	0.52
18:CQ:99:GLU:OE2	34:Cg:60:SER:HB2	2.08	0.52
34:Cg:309:VAL:HG23	34:Cg:311:ARG:HH12	1.74	0.52
36:A5:567:G:O6	86:A5:3646:OHX:N2	2.42	0.52
36:A5:2211:U:C5	36:A5:2234:G:O6	2.59	0.52
36:A5:2284:C:O2	86:A5:3708:OHX:N1	2.41	0.52
86:A5:3577:OHX:N2	86:A5:3729:OHX:N4	2.58	0.52
39:DA:140:ASN:OD1	39:DA:142:ASP:HB3	2.10	0.52
40:DB:332:ARG:NH1	40:DB:333:LYS:HD2	2.24	0.52
41:DC:271:LYS:HB2	41:DC:274:TYR:HB3	1.90	0.52
45:DG:144:GLU:OE1	72:Di:36:ARG:NH2	2.43	0.52
51:DN:31:ARG:HG3	51:DN:129:TYR:OH	2.09	0.52
83:Dq:95:GLU:O	83:Dq:99:VAL:HG23	2.10	0.52
1:A2:190:C:O2'	1:A2:191:C:OP2	2.23	0.52
1:A2:515:A:OP2	86:A2:1949:OHX:N3	2.43	0.52
1:A2:799:A:H5''	6:AE:201:HIS:CE1	2.44	0.52
1:A2:838:G:C6	86:A2:2074:OHX:N2	2.78	0.52
1:A2:1370:U:O4	86:A2:2002:OHX:N5	2.43	0.52
1:A2:1535:U:OP1	1:A2:1535:U:H4'	2.10	0.52
3:AB:133:TYR:CD2	3:AB:181:LEU:HD11	2.44	0.52
11:AJ:88:GLU:HG3	11:AJ:91:LYS:HE3	1.91	0.52
36:A1:1235:U:C4'	36:A1:1236:G:H5'	2.39	0.52
36:A1:1240:A:H3'	36:A1:1241:U:C5'	2.40	0.52
36:A1:1307:G:H5''	52:BO:60[A]:LYS:NZ	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2897:A:H2'	36:A1:2899:C:C5'	2.36	0.52
42:BD:58:LYS:HD2	42:BD:93:THR:HG21	1.91	0.52
42:BD:188:GLU:HG3	42:BD:188:GLU:O	2.10	0.52
53:BP:28:ASN:O	53:BP:32:THR:HG22	2.10	0.52
80:A6:152:U:C2	80:A6:163:G:N2	2.78	0.52
80:A6:1665:U:H6	80:A6:1665:U:H5''	1.74	0.52
4:CC:53:ILE:HD11	4:CC:73:LEU:HD22	1.90	0.52
7:CF:62:VAL:HG13	7:CF:89:ILE:HG12	1.90	0.52
17:CP:119:PHE:HE1	20:CS:119:ILE:HG23	1.75	0.52
18:CQ:95:LYS:HE3	18:CQ:96:TYR:CZ	2.45	0.52
30:Cc:10:ALA:HB1	30:Cc:30:VAL:HB	1.91	0.52
36:A5:172:G:H2'	36:A5:173:G:H5''	1.91	0.52
36:A5:374:A:N3	36:A5:376:G:H5''	2.25	0.52
36:A5:2943:G:H2'	36:A5:2944:U:O4'	2.09	0.52
36:A5:3165:A:H2'	36:A5:3166:C:C6	2.43	0.52
38:A8:66:A:H2'	38:A8:67:U:C6	2.45	0.52
41:DC:191:LYS:HG3	41:DC:194:TYR:CZ	2.44	0.52
41:DC:300:ARG:HG2	41:DC:300:ARG:NH1	2.24	0.52
47:DI:113:GLN:HG2	86:DI:301:OHX:N4	2.24	0.52
1:A2:256:A:H2'	1:A2:257:A:O4'	2.09	0.52
1:A2:523:G:H5''	26:AY:59:GLY:O	2.10	0.52
1:A2:1760:G:C2'	1:A2:1761:U:H5'	2.39	0.52
5:AD:176:LEU:H	5:AD:176:LEU:HD12	1.73	0.52
5:AD:179:GLN:NE2	5:AD:179:GLN:C	2.68	0.52
9:AH:99:LEU:HD12	9:AH:116:ARG:HG2	1.92	0.52
11:AJ:104:PHE:O	11:AJ:147:MET:HE1	2.10	0.52
14:AM:52:LEU:HD13	14:AM:85:LYS:NZ	2.25	0.52
16:AO:16:VAL:O	16:AO:30:VAL:HA	2.09	0.52
25:AX:6:PRO:HG3	25:AX:14:LYS:HG2	1.91	0.52
25:AX:107:PHE:CE2	25:AX:114:LYS:HB2	2.44	0.52
36:A1:853:G:N7	79:Bp:2:ALA:HB2	2.24	0.52
36:A1:955:U:H2'	36:A1:956:U:C6	2.44	0.52
36:A1:1540:U:OP1	86:A1:3565:OHX:N1	2.43	0.52
36:A1:2814:G:O6	86:A1:3738:OHX:N4	2.42	0.52
86:A1:3457:OHX:N6	86:A1:3792:OHX:N5	2.57	0.52
38:A4:37:A:H5''	38:A4:39:G:O4'	2.09	0.52
53:BP:59:PRO:HG3	53:BP:76:PHE:CD1	2.45	0.52
70:Bg:8:ARG:HG2	70:Bg:8:ARG:NH1	2.24	0.52
80:A6:66:U:O2'	8:CG:160:ARG:NH2	2.43	0.52
80:A6:1207:C:H42	80:A6:1456:C:H5	1.57	0.52
2:CA:187:ALA:O	2:CA:188:LEU:HD23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CT:37:VAL:CG1	21:CT:100:ILE:HD11	2.38	0.52
29:Cb:74:SER:O	29:Cb:77:THR:OG1	2.28	0.52
36:A5:428:A:H2'	36:A5:429:U:C6	2.45	0.52
36:A5:3380:U:O2'	36:A5:3381:U:H5'	2.08	0.52
86:A5:3610:OHX:N6	86:A5:3813:OHX:N5	2.57	0.52
55:DR:163:ARG:O	55:DR:167:ARG:HG2	2.09	0.52
64:Da:73:LEU:HD23	64:Da:109:TYR:CZ	2.45	0.52
64:Da:91:LEU:HD12	64:Da:121:VAL:HG21	1.90	0.52
68:De:24:ARG:HD3	68:De:25:TYR:CZ	2.45	0.52
1:A2:144:U:O2'	1:A2:145:A:H5'	2.10	0.52
1:A2:651:G:C2	1:A2:684:A:C6	2.98	0.52
1:A2:779:U:OP2	1:A2:780:A:H2	1.93	0.52
1:A2:961:U:H5''	15:AN:71:ILE:HD13	1.91	0.52
1:A2:1039:A:H5''	23:AV:62:ARG:NH2	2.24	0.52
1:A2:1252:C:O4'	33:Af:133:ALA:HB2	2.10	0.52
1:A2:1291:G:O5'	1:A2:1291:G:C8	2.55	0.52
86:A2:1915:OHX:N2	86:A2:2074:OHX:N5	2.58	0.52
2:AA:69:ASN:HB3	2:AA:71:GLU:CD	2.34	0.52
5:AD:105:MET:HG2	5:AD:122:VAL:HG21	1.92	0.52
8:AG:67:VAL:O	8:AG:68:LEU:HB2	2.10	0.52
18:AQ:7:VAL:HG22	18:AQ:22:VAL:HB	1.92	0.52
19:AR:106:THR:O	19:AR:109:LEU:HB3	2.10	0.52
25:AX:23:ARG:HA	25:AX:26:GLU:OE1	2.09	0.52
36:A1:748:U:H2'	36:A1:749:C:H6	1.74	0.52
36:A1:1631:C:H5''	36:A1:1632:A:H5''	1.91	0.52
36:A1:3393:U:H2'	36:A1:3394:U:H6	1.74	0.52
86:A1:3463:OHX:N6	86:A1:3687:OHX:N3	2.58	0.52
37:A3:37:G:O6	86:A3:213:OHX:N1	2.43	0.52
40:BB:151:ILE:O	40:BB:155:ALA:HB3	2.09	0.52
47:BI:217:PHE:N	86:BI:303:OHX:N6	2.57	0.52
49:BL:42:ARG:O	49:BL:46:ILE:HB	2.10	0.52
74:Bk:8:ILE:H	74:Bk:8:ILE:CD1	2.20	0.52
80:A6:1060:U:O2'	86:A6:2050:OHX:N5	2.42	0.52
80:A6:1160:A:H2'	80:A6:1161:C:H6	1.72	0.52
80:A6:1224:A:H2'	80:A6:1225:U:C6	2.44	0.52
4:CC:53:ILE:HD12	4:CC:54:GLU:OE2	2.10	0.52
29:Cb:19:HIS:CD2	29:Cb:21:LEU:N	2.77	0.52
31:Cd:21:CYS:HB2	31:Cd:39:CYS:HB3	1.92	0.52
36:A5:1638:A:H5''	36:A5:1639:C:OP2	2.10	0.52
86:A5:3473:OHX:N3	86:A5:3680:OHX:N6	2.57	0.52
38:A8:68:G:OP1	86:A8:203:OHX:N3	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DD:55:PHE:CZ	42:DD:158:ARG:HB3	2.45	0.52
43:DE:78:ARG:HH11	43:DE:78:ARG:CG	2.21	0.52
73:Dj:8:PHE:HA	73:Dj:11:ARG:HD3	1.91	0.52
83:Dq:19:LEU:HD22	83:Dq:73:PHE:CZ	2.44	0.52
1:A2:530:C:O2	26:AY:61:ARG:NH2	2.43	0.52
1:A2:1253:U:O2'	33:Af:143:LYS:HA	2.10	0.52
1:A2:1676:U:O2'	1:A2:1677:C:H5'	2.09	0.52
86:A2:1921:OHX:N2	86:A2:2052:OHX:N6	2.58	0.52
3:AB:127:VAL:HG11	3:AB:176:VAL:HG21	1.91	0.52
3:AB:134:VAL:O	3:AB:218:LEU:HD22	2.10	0.52
5:AD:3:ALA:O	5:AD:4:LEU:HB2	2.09	0.52
10:AI:58:LEU:O	10:AI:59:ARG:HB2	2.10	0.52
10:AI:105:ASP:OD1	10:AI:107:THR:HG23	2.09	0.52
23:AV:72:LEU:O	23:AV:76:ASP:HB2	2.09	0.52
36:A1:263:C:H2'	36:A1:264:G:O4'	2.10	0.52
36:A1:1874:A:OP2	55:BR:20:ARG:HD3	2.10	0.52
36:A1:2732:G:OP2	86:A1:3677:OHX:N2	2.43	0.52
36:A1:2767:U:OP1	86:A1:3690:OHX:N2	2.42	0.52
36:A1:3120:C:OP2	86:A1:3433:OHX:N5	2.43	0.52
86:A1:3607:OHX:N5	86:A1:3789:OHX:N2	2.58	0.52
41:BC:292:SER:OG	41:BC:293:SER:N	2.41	0.52
47:BI:73:ASN:O	47:BI:77:THR:HG23	2.10	0.52
49:BL:186:ARG:O	49:BL:190:LYS:HB3	2.10	0.52
54:BQ:19:PRO:HD3	54:BQ:53:PHE:CD1	2.45	0.52
60:BW:34:SER:HA	60:BW:37:ALA:HB3	1.92	0.52
80:A6:848:C:H2'	80:A6:849:C:C6	2.44	0.52
86:A6:2046:OHX:N4	86:A6:2093:OHX:N6	2.57	0.52
17:CP:9:LYS:O	17:CP:10:ARG:HB2	2.10	0.52
21:CT:118:PRO:C	21:CT:120:GLY:H	2.18	0.52
34:Cg:123:ILE:HD12	34:Cg:154:VAL:HG23	1.91	0.52
36:A5:409:A:H2	36:A5:1441:G:N3	2.08	0.52
36:A5:437:G:C5	86:A5:3811:OHX:N3	2.78	0.52
36:A5:510:G:O6	86:A5:3538:OHX:N2	2.43	0.52
36:A5:558:U:H4'	36:A5:559:A:OP2	2.09	0.52
36:A5:1251:A:H2'	36:A5:1252:A:O4'	2.10	0.52
36:A5:1318:A:OP1	52:DO:18[A]:ARG:NH2	2.40	0.52
36:A5:1447:G:H3'	53:DP:67:ILE:HD11	1.92	0.52
36:A5:1574:C:O2'	36:A5:1575:A:OP1	2.22	0.52
36:A5:2767:U:O3'	78:Do:31:GLY:HA3	2.10	0.52
36:A5:2896:A:OP1	76:Dm:102:ARG:NE	2.39	0.52
86:A8:203:OHX:N5	86:A8:211:OHX:N1	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DB:147:GLU:OE2	40:DB:150:ARG:NH2	2.42	0.52
52:DO:36[A]:VAL:HB	52:DO:108[A]:ILE:HB	1.92	0.52
57:DT:32:LYS:HE3	57:DT:98:HIS:HD2	1.75	0.52
62:DY:52:ARG:HA	62:DY:70:ILE:CG2	2.39	0.52
69:Df:75:HIS:HB3	69:Df:80:VAL:HG12	1.91	0.52
1:A2:359:A:C2	25:AX:38:PHE:HB3	2.45	0.52
1:A2:555:A:C8	1:A2:555:A:H3'	2.45	0.52
1:A2:710:U:H2'	1:A2:711:U:H5'	1.91	0.52
1:A2:838:G:C5	86:A2:2074:OHX:N2	2.78	0.52
1:A2:1320:U:O2	1:A2:1322:A:H5'	2.09	0.52
1:A2:1532:U:O3'	20:AS:27:LYS:NZ	2.43	0.52
2:AA:74:VAL:HG22	2:AA:96:THR:HG23	1.91	0.52
10:AI:138:ASN:OD1	10:AI:138:ASN:N	2.42	0.52
18:AQ:114:ARG:O	18:AQ:115:THR:OG1	2.26	0.52
22:AU:51:VAL:HG13	22:AU:94:GLU:HB2	1.92	0.52
36:A1:726:G:C5'	36:A1:726:G:H8	2.23	0.52
36:A1:1814:A:OP1	86:A1:3637:OHX:N2	2.43	0.52
36:A1:2407:C:H2'	36:A1:2408:U:H6	1.75	0.52
86:A1:3471:OHX:N3	86:A1:3744:OHX:N4	2.58	0.52
39:BA:90:ALA:HB2	39:BA:101:VAL:HG13	1.92	0.52
41:BC:33:ASP:O	41:BC:37:THR:HG23	2.09	0.52
41:BC:63:GLU:O	41:BC:76:ARG:N	2.39	0.52
52:BO:9[B]:ILE:HG21	52:BO:19[B]:LEU:HD11	1.92	0.52
52:BO:62[B]:THR:HB	52:BO:65[B]:ASN:O	2.10	0.52
62:BY:90:VAL:C	62:BY:92:GLY:H	2.18	0.52
63:BZ:53:VAL:HA	63:BZ:57:HIS:CD2	2.44	0.52
65:Bb:9:ALA:O	65:Bb:10:HIS:C	2.52	0.52
69:Bf:90:PRO:O	69:Bf:91:ALA:HB3	2.09	0.52
80:A6:1230:A:C8	80:A6:1258:U:C5	2.97	0.52
80:A6:1394:G:OP1	34:Cg:282:SER:N	2.43	0.52
80:A6:1490:C:H4'	80:A6:1491:U:OP1	2.09	0.52
4:CC:159:THR:HB	4:CC:168:ARG:HG3	1.92	0.52
7:CF:35:GLN:O	7:CF:37:GLN:N	2.43	0.52
7:CF:152:GLY:O	7:CF:154:ALA:N	2.43	0.52
34:Cg:25:THR:HG21	34:Cg:295:SER:HA	1.92	0.52
36:A5:385:A:O2'	36:A5:386:A:H5'	2.10	0.52
36:A5:1134:G:N7	86:A5:3500:OHX:N3	2.58	0.52
36:A5:1171:G:N7	86:A5:3517:OHX:N1	2.57	0.52
36:A5:2916:U:H5	36:A5:2935:U:HO2'	1.58	0.52
57:DT:14:MET:CE	57:DT:55:LYS:HB2	2.40	0.52
61:DX:63:ILE:HD13	61:DX:63:ILE:C	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:DX:82:LEU:HD11	61:DX:135:ILE:HD12	1.92	0.52
64:Da:82:ILE:HG22	64:Da:87:ARG:HG3	1.92	0.52
1:A2:56:U:H4'	1:A2:57:G:H5'	1.93	0.52
1:A2:195:G:O6	10:AI:141:ARG:NH2	2.34	0.52
1:A2:794:U:O2'	1:A2:795:U:O2	2.27	0.52
1:A2:912:U:H4'	1:A2:913:G:O5'	2.10	0.52
1:A2:1199:G:O6	31:Ad:31:ILE:HD11	2.10	0.52
3:AB:186:SER:O	3:AB:190:PRO:HD2	2.10	0.52
4:AC:185:LYS:O	4:AC:189:GLN:HG3	2.10	0.52
20:AS:18:LEU:HD21	20:AS:70:VAL:HG13	1.92	0.52
36:A1:118:U:O2	36:A1:121:A:H5'	2.10	0.52
36:A1:1276:U:OP1	86:A1:3632:OHX:N4	2.43	0.52
39:BA:77:ILE:HD13	39:BA:128:ARG:HB3	1.92	0.52
44:BF:244:ASN:C	44:BF:244:ASN:HD22	2.18	0.52
46:BH:124:ARG:HD3	46:BH:164:ILE:O	2.10	0.52
48:BJ:89:TYR:HB3	48:BJ:169:ALA:CB	2.40	0.52
50:BM:92:GLU:CD	50:BM:92:GLU:H	2.17	0.52
53:BP:24:VAL:CG1	53:BP:86:LYS:HG2	2.40	0.52
61:BX:105:VAL:HG13	61:BX:130:TYR:CD2	2.45	0.52
2:CA:88:LYS:O	2:CA:92:HIS:ND1	2.41	0.52
12:CK:87:VAL:O	12:CK:89:GLY:N	2.43	0.52
13:CL:75:VAL:HG21	13:CL:117:VAL:CG1	2.39	0.52
24:CW:73:GLY:HA3	24:CW:128:PHE:CZ	2.44	0.52
29:Cb:29:ARG:HH11	29:Cb:29:ARG:HG3	1.75	0.52
30:Cc:40:ILE:HG23	30:Cc:62:GLU:HB2	1.92	0.52
36:A5:612:U:OP1	43:DE:21:THR:HB	2.10	0.52
36:A5:920:A:OP1	36:A5:922:U:C5	2.63	0.52
36:A5:1200:A:H5'	36:A5:1201:C:O5'	2.10	0.52
36:A5:2523:A:H4'	36:A5:2524:A:OP2	2.10	0.52
39:DA:187:HIS:ND1	39:DA:190:ARG:NH1	2.58	0.52
40:DB:159:ARG:HG2	40:DB:182:GLN:HA	1.91	0.52
46:DH:137:SER:HB2	46:DH:143:GLU:HB3	1.91	0.52
66:Dc:29:SER:HA	66:Dc:32:LYS:HD3	1.91	0.52
73:Dj:66:TYR:OH	73:Dj:73:ARG:NH2	2.43	0.52
1:A2:74:U:HO2'	1:A2:75:U:P	2.30	0.51
1:A2:577:G:H3'	1:A2:577:G:C8	2.45	0.51
2:AA:14:ALA:O	2:AA:18:LEU:HG	2.09	0.51
3:AB:124:ASN:N	3:AB:124:ASN:OD1	2.44	0.51
3:AB:179:SER:HB3	3:AB:183:GLN:CD	2.34	0.51
13:AL:93:TYR:HB2	13:AL:100:TYR:CE1	2.45	0.51
16:AO:29:HIS:HB2	16:AO:41:ARG:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AR:13:SER:HA	19:AR:54:THR:HG22	1.92	0.51
36:A1:284:A:OP2	78:Bo:41:ARG:HD2	2.09	0.51
36:A1:817:A:H8	73:Bj:15:SER:HG	1.56	0.51
36:A1:1048:A:H2'	47:BI:22:TYR:CZ	2.45	0.51
36:A1:1579:C:N4	36:A1:1580:A:H62	2.07	0.51
38:A4:10:A:H2'	38:A4:11:C:C6	2.44	0.51
41:BC:237:GLN:O	41:BC:246:ARG:HG3	2.09	0.51
42:BD:68:THR:HG22	42:BD:70:THR:H	1.74	0.51
80:A6:568:G:N7	25:CX:69:ARG:NH2	2.57	0.51
5:CD:34:TYR:OH	5:CD:37:VAL:HG22	2.09	0.51
86:CG:301:OHX:N1	86:CG:302:OHX:N3	2.57	0.51
25:CX:23:ARG:HG3	25:CX:23:ARG:NH1	2.25	0.51
34:Cg:184:ASN:ND2	34:Cg:184:ASN:H	2.07	0.51
36:A5:336:A:O2'	41:DC:48:GLN:NE2	2.43	0.51
36:A5:2249:G:C8	36:A5:2249:G:H3'	2.46	0.51
36:A5:2555:G:H5'	36:A5:2556:C:OP2	2.10	0.51
36:A5:2899:C:C5	46:DH:171:ASP:HA	2.45	0.51
40:DB:116:ARG:HG2	40:DB:175:LYS:HA	1.92	0.51
43:DE:68:PRO:HG2	43:DE:71:VAL:CG2	2.40	0.51
49:DL:76:THR:O	49:DL:80:VAL:HG23	2.10	0.51
51:DN:190:THR:O	51:DN:194:GLN:HG2	2.10	0.51
68:De:4:LEU:HB3	68:De:5:PRO:CD	2.40	0.51
72:Di:58:ILE:HG22	72:Di:90:MET:CG	2.38	0.51
1:A2:647:G:H1	1:A2:687:G:H1	1.58	0.51
1:A2:698:U:O4	86:A2:1976:OHX:N3	2.44	0.51
1:A2:878:G:O2'	15:AN:108:ASP:OD2	2.26	0.51
1:A2:902:G:O5'	1:A2:902:G:H8	1.93	0.51
1:A2:1334:U:H2'	1:A2:1335:U:C6	2.45	0.51
1:A2:1498:G:H5''	21:AT:72:GLY:HA3	1.90	0.51
1:A2:1570:A:OP1	86:A2:2048:OHX:N5	2.43	0.51
3:AB:128:LYS:CE	3:AB:132:ASP:HB3	2.40	0.51
4:AC:89:GLN:OE1	4:AC:94:GLN:NE2	2.41	0.51
18:AQ:106:LYS:O	18:AQ:110:THR:HB	2.10	0.51
22:AU:102:ARG:O	22:AU:106:ILE:HG22	2.10	0.51
28:Aa:10:ARG:HB2	28:Aa:34:LYS:HG3	1.90	0.51
31:Ad:22:ARG:HD2	31:Ad:38:ILE:HD11	1.91	0.51
36:A1:158:G:H2'	36:A1:159:A:H8	1.75	0.51
36:A1:289:A:H2	51:BN:93:LYS:HD2	1.76	0.51
36:A1:2249:G:C8	36:A1:2249:G:H3'	2.45	0.51
86:A1:3793:OHX:N5	86:A1:3816:OHX:N3	2.58	0.51
50:BM:135:LEU:HD11	52:BO:178[B]:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BS:77:VAL:HG11	56:BS:106:LEU:CD1	2.36	0.51
58:BU:90:ARG:O	58:BU:91:ASP:HB2	2.10	0.51
66:Bc:20:SER:OG	66:Bc:96:GLY:HA3	2.10	0.51
80:A6:100:A:H8	80:A6:100:A:O5'	1.93	0.51
80:A6:1566:U:H5''	20:CS:39:GLY:H	1.74	0.51
4:CC:157:LYS:HG2	4:CC:170:ILE:HG23	1.91	0.51
6:CE:121:TYR:HA	6:CE:163:ASP:O	2.11	0.51
7:CF:82:PHE:CE1	30:Cc:49:ARG:HD2	2.45	0.51
86:CG:301:OHX:N5	86:CG:302:OHX:N6	2.58	0.51
11:CJ:3:ARG:HH21	11:CJ:3:ARG:CG	2.22	0.51
36:A5:223:U:O4	86:A5:3805:OHX:N4	2.43	0.51
36:A5:519:A:OP2	44:DF:70:LYS:NZ	2.42	0.51
36:A5:3000:A:H2'	36:A5:3001:C:C6	2.45	0.51
36:A5:3242:G:H5''	36:A5:3245:A:H8	1.74	0.51
37:A7:5:G:OP1	48:DJ:143:ARG:NH2	2.43	0.51
37:A7:64:A:H5'	37:A7:65:G:H5''	1.91	0.51
49:DL:122:LYS:HA	71:Dh:120:ALA:HA	1.92	0.51
57:DT:104:GLU:HG3	57:DT:105:PHE:N	2.24	0.51
73:Dj:52:LYS:HA	73:Dj:55:ARG:HD2	1.92	0.51
1:A2:446:A:N6	1:A2:461:G:H21	2.08	0.51
3:AB:81:PHE:HA	3:AB:106:THR:HG23	1.92	0.51
4:AC:67:GLN:HA	4:AC:70:ASP:HB2	1.92	0.51
7:AF:205:SER:O	7:AF:207:THR:N	2.43	0.51
13:AL:5:LEU:O	13:AL:7:VAL:N	2.34	0.51
15:AN:92:ILE:O	15:AN:96:VAL:HG23	2.09	0.51
29:Ab:34:ASP:OD1	29:Ab:34:ASP:N	2.43	0.51
31:Ad:21:CYS:SG	31:Ad:23:VAL:HB	2.51	0.51
34:Ag:295:SER:HB2	34:Ag:300:THR:HB	1.92	0.51
36:A1:1231:A:OP2	86:A1:3632:OHX:N3	2.43	0.51
36:A1:1245:A:N6	36:A1:1272:C:O2'	2.43	0.51
36:A1:1304:A:OP1	86:A1:3760:OHX:N5	2.44	0.51
36:A1:2565:U:H2'	36:A1:2566:C:C6	2.44	0.51
36:A1:2683:U:H2'	36:A1:2684:C:H6	1.75	0.51
86:A1:3483:OHX:N6	86:A1:3808:OHX:N5	2.58	0.51
43:BE:129:GLU:OE2	43:BE:130:ILE:N	2.43	0.51
46:BH:53:ILE:HD13	50:BM:7:VAL:HG21	1.92	0.51
47:BI:36:LEU:HD13	47:BI:87:LEU:HD13	1.91	0.51
9:CH:166:LEU:C	9:CH:168:SER:H	2.16	0.51
36:A5:1258:U:O2	36:A5:1260:A:H8	1.92	0.51
86:A8:211:OHX:N2	62:DY:114:ASP:OD1	2.42	0.51
40:DB:323:MET:HE1	40:DB:356:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:215:VAL:O	45:DG:219:ASP:HB2	2.10	0.51
49:DL:18:TRP:CD1	49:DL:18:TRP:H	2.26	0.51
49:DL:37:ASN:O	49:DL:41:THR:HG23	2.09	0.51
66:Dc:45:ALA:O	66:Dc:48:THR:HG23	2.10	0.51
1:A2:229:U:H2'	1:A2:230:C:C6	2.46	0.51
1:A2:331:A:H5'	10:AI:33:PRO:HA	1.91	0.51
1:A2:838:G:C5	86:A2:2074:OHX:N6	2.78	0.51
1:A2:929:A:OP2	1:A2:931:C:N4	2.43	0.51
1:A2:1229:G:H1	14:AM:47:GLU:HG3	1.76	0.51
1:A2:1291:G:H22	1:A2:1324:G:N2	2.07	0.51
1:A2:1410:A:H2'	1:A2:1411:A:O4'	2.11	0.51
1:A2:1433:G:C8	31:Ad:41:GLN:HG2	2.46	0.51
86:A2:1965:OHX:N1	86:A2:2029:OHX:N3	2.58	0.51
3:AB:119:THR:HB	3:AB:143:THR:HG23	1.92	0.51
16:AO:85:ALA:H	16:AO:119:THR:CG2	2.15	0.51
19:AR:24:LEU:HD13	19:AR:58:MET:HE3	1.93	0.51
22:AU:117:VAL:HG22	22:AU:118:VAL:H	1.75	0.51
33:Af:86:UNK:O	33:Af:87:UNK:CG	2.51	0.51
33:Af:86:UNK:C	33:Af:87:UNK:HG3	2.38	0.51
36:A1:316:U:O2'	72:Bi:30:LYS:HD2	2.10	0.51
36:A1:2167:A:H2'	36:A1:2168:A:C8	2.46	0.51
36:A1:2674:A:O4'	48:BJ:105:GLY:HA3	2.11	0.51
36:A1:3115:C:O2'	36:A1:3117:C:N4	2.37	0.51
36:A1:3155:U:H3'	36:A1:3156:U:O4'	2.10	0.51
36:A1:3295:A:H2'	36:A1:3296:A:C8	2.45	0.51
86:A1:3432:OHX:N2	86:A1:3798:OHX:N6	2.59	0.51
86:A1:3452:OHX:N6	86:A1:3750:OHX:N3	2.59	0.51
86:A1:3471:OHX:N5	86:A1:3744:OHX:N2	2.59	0.51
86:A1:3565:OHX:N4	86:A1:3603:OHX:N2	2.58	0.51
42:BD:110:LEU:HD13	42:BD:171:LEU:HD23	1.93	0.51
47:BI:77:THR:HG22	47:BI:85:PHE:CZ	2.46	0.51
55:BR:160:GLU:O	55:BR:164:LEU:HB2	2.11	0.51
80:A6:221:A:H2'	80:A6:222:A:H5'	1.91	0.51
80:A6:1455:G:OP1	17:CP:122:THR:HG21	2.11	0.51
86:A6:1961:OHX:N1	86:A6:2009:OHX:N3	2.58	0.51
2:CA:38:PHE:CD1	2:CA:39:ASN:HB2	2.46	0.51
2:CA:105:GLY:O	2:CA:109:ASN:HB3	2.11	0.51
3:CB:32:ILE:HB	3:CB:43:VAL:HB	1.91	0.51
8:CG:55:GLY:N	8:CG:63:MET:HE3	2.25	0.51
31:Cd:6:VAL:O	31:Cd:8:PHE:N	2.43	0.51
36:A5:273:A:OP1	86:A5:3822:OHX:N6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:308:A:H5'	36:A5:2223:A:O2'	2.11	0.51
36:A5:337:G:H4'	41:DC:48:GLN:HG3	1.92	0.51
36:A5:847:A:H2'	36:A5:848:A:C8	2.45	0.51
36:A5:3167:A:O2'	36:A5:3168:A:OP1	2.27	0.51
41:DC:286:VAL:HG11	54:DQ:31:LYS:HD2	1.93	0.51
44:DF:151:ARG:NH1	44:DF:244:ASN:O	2.43	0.51
49:DL:64:LYS:HD3	49:DL:65:TYR:CE1	2.45	0.51
53:DP:71:ALA:O	53:DP:74:LYS:HB2	2.10	0.51
1:A2:765:G:N1	11:AJ:149:ARG:HD2	2.24	0.51
8:AG:57:ASP:OD1	8:AG:72:ARG:NH1	2.43	0.51
13:AL:6:THR:HB	13:AL:9:SER:HB3	1.92	0.51
15:AN:54:LEU:HB3	15:AN:60:VAL:CG2	2.40	0.51
18:AQ:47:LYS:HZ1	18:AQ:114:ARG:CD	2.23	0.51
22:AU:106:ILE:C	22:AU:108:ILE:H	2.19	0.51
36:A1:789:A:H2'	36:A1:790:U:C6	2.46	0.51
36:A1:871:U:H2'	36:A1:872:U:C6	2.45	0.51
36:A1:1565:G:C2	36:A1:1566:A:C4	2.99	0.51
36:A1:1805:C:H2'	36:A1:1806:A:H8	1.75	0.51
36:A1:2525:G:O2'	36:A1:2526:C:OP2	2.23	0.51
36:A1:2973:G:N7	86:A1:3645:OHX:N2	2.58	0.51
36:A1:3259:U:H5'	36:A1:3259:U:C6	2.45	0.51
40:BB:122:TRP:CE2	40:BB:127:LYS:HE2	2.45	0.51
40:BB:135:ALA:O	40:BB:137:TYR:N	2.43	0.51
40:BB:211:GLN:NE2	40:BB:284:ARG:HA	2.26	0.51
40:BB:286:GLY:HA3	40:BB:321:PHE:CE2	2.46	0.51
51:BN:140:LYS:O	51:BN:144:ARG:HG3	2.11	0.51
55:BR:104:ARG:HE	55:BR:105:LEU:N	2.08	0.51
69:Bf:59:VAL:HG23	69:Bf:60:ARG:H	1.76	0.51
72:Bi:25:LYS:O	72:Bi:28:TYR:HB2	2.10	0.51
80:A6:162:A:H2'	80:A6:163:G:C8	2.45	0.51
80:A6:557:G:H4'	80:A6:558:U:OP2	2.09	0.51
80:A6:914:G:H5'	80:A6:914:G:H8	1.75	0.51
13:CL:17:PRO:O	13:CL:19:ILE:HG12	2.10	0.51
14:CM:69:ALA:HB1	14:CM:72:ILE:HB	1.92	0.51
15:CN:11:ILE:HD12	29:Cb:21:LEU:HD12	1.91	0.51
20:CS:4:VAL:HG21	27:CZ:82:HIS:CG	2.46	0.51
27:CZ:43:ASP:HB2	27:CZ:46:LYS:NZ	2.25	0.51
41:DC:119:ARG:HA	41:DC:122:THR:HG23	1.91	0.51
44:DF:80:GLN:HG3	57:DT:136:ARG:CB	2.41	0.51
46:DH:12:VAL:N	46:DH:51:GLN:O	2.35	0.51
48:DJ:104:PHE:O	48:DJ:127:PHE:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DQ:166:LEU:O	54:DQ:167:SER:HB2	2.11	0.51
64:Da:126:LYS:HB3	64:Da:148:ILE:HG21	1.91	0.51
69:Df:8:TYR:CD2	69:Df:99:ARG:HG2	2.46	0.51
74:Dk:64:LYS:HG3	74:Dk:65:LEU:N	2.24	0.51
76:Dm:99:CYS:HB2	76:Dm:114:LYS:HD3	1.92	0.51
1:A2:279:G:H3'	1:A2:279:G:H8	1.75	0.51
1:A2:458:G:OP2	26:AY:105:ARG:NH2	2.43	0.51
1:A2:542:A:H5''	1:A2:544:A:N7	2.26	0.51
1:A2:1686:C:C6	1:A2:1687:U:C5	2.99	0.51
86:A2:1975:OHX:N4	86:A2:1989:OHX:N2	2.59	0.51
10:AI:136:SER:OG	10:AI:137:LYS:N	2.43	0.51
11:AJ:106:GLU:OE2	11:AJ:115:LYS:HE2	2.10	0.51
17:AP:29:SER:OG	17:AP:31:GLU:HG3	2.10	0.51
28:Aa:79:ILE:HA	28:Aa:84:VAL:HG21	1.93	0.51
31:Ad:10:HIS:CG	31:Ad:11:PRO:HD2	2.46	0.51
36:A1:540:U:H2'	36:A1:541:U:H6	1.76	0.51
36:A1:1734:G:OP2	86:A1:3811:OHX:N2	2.43	0.51
36:A1:3376:A:OP2	86:A1:3449:OHX:N5	2.44	0.51
86:A1:3457:OHX:N4	86:A1:3792:OHX:N3	2.59	0.51
42:BD:119:TYR:OH	42:BD:135:VAL:N	2.34	0.51
62:BY:45:ILE:HD12	62:BY:119:ILE:HG23	1.93	0.51
73:Bj:5:THR:HA	73:Bj:8:PHE:CD2	2.45	0.51
80:A6:73:U:O2'	80:A6:74:U:O4'	2.20	0.51
80:A6:1180:C:O2'	17:CP:128:HIS:HA	2.10	0.51
80:A6:1458:G:H5''	80:A6:1459:C:OP2	2.10	0.51
2:CA:13:ASP:OD1	2:CA:179:ARG:NH2	2.36	0.51
5:CD:70:THR:CG2	5:CD:86:LEU:HB2	2.41	0.51
5:CD:124:ARG:O	5:CD:128:GLU:HB2	2.11	0.51
9:CH:86:GLN:O	9:CH:87:ASP:HB2	2.10	0.51
18:CQ:83:GLN:HE22	18:CQ:119:ALA:HA	1.75	0.51
24:CW:24:GLN:HE22	29:Cb:4:VAL:HA	1.76	0.51
32:Ce:14:VAL:HG22	32:Ce:17:GLN:HE21	1.75	0.51
36:A5:715:A:H4'	36:A5:716:A:OP1	2.10	0.51
36:A5:744:A:OP1	54:DQ:66:ARG:NH2	2.44	0.51
36:A5:1178:G:O6	69:Df:20:LYS:HE3	2.11	0.51
36:A5:2436:U:O4	86:A5:3794:OHX:N4	2.43	0.51
36:A5:2622:C:H5''	36:A5:2623:G:OP2	2.10	0.51
36:A5:2660:G:O3'	36:A5:2749:G:N2	2.44	0.51
45:DG:105:LYS:HG3	45:DG:109:LEU:HD23	1.91	0.51
45:DG:205:ALA:C	45:DG:207:ASP:H	2.18	0.51
46:DH:162:GLN:HG3	46:DH:163:GLN:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DJ:13:LYS:HE2	48:DJ:132:ASN:HD21	1.76	0.51
50:DM:13:ARG:NH1	50:DM:65:LEU:O	2.44	0.51
52:DO:15[A]:LEU:HD11	52:DO:129[A]:LEU:HD13	1.92	0.51
78:Do:77:CYS:O	78:Do:79:THR:CG2	2.59	0.51
1:A2:539:G:OP2	1:A2:539:G:H8	1.93	0.51
1:A2:1584:G:O2'	1:A2:1610:G:O6	2.29	0.51
86:A2:1954:OHX:N3	86:A2:2071:OHX:N1	2.59	0.51
2:AA:73:VAL:O	2:AA:95:ALA:HA	2.09	0.51
5:AD:20:GLU:HG3	12:AK:61:TRP:CD2	2.45	0.51
24:AW:89:TRP:O	24:AW:93:LEU:HD22	2.11	0.51
36:A1:539:C:H2'	36:A1:540:U:C6	2.45	0.51
36:A1:602:A:O2'	36:A1:603:A:H5'	2.11	0.51
36:A1:655:C:H5''	68:Be:26:HIS:HB2	1.92	0.51
36:A1:1932:A:H5'	36:A1:1933:A:OP2	2.10	0.51
36:A1:2396:G:OP1	36:A1:2397:A:H4'	2.11	0.51
36:A1:2541:U:H4'	36:A1:2542:U:O5'	2.10	0.51
86:A1:3542:OHX:N4	86:A1:3751:OHX:N6	2.58	0.51
40:BB:255:TRP:CD1	40:BB:256:HIS:CE1	2.99	0.51
47:BI:188:GLY:HA3	47:BI:216:TYR:HD1	1.75	0.51
48:BJ:90:GLN:OE1	48:BJ:172:LEU:HD11	2.10	0.51
51:BN:58:GLY:HA3	51:BN:142:ILE:HD13	1.93	0.51
59:BV:33:ASN:HD21	59:BV:63:LYS:N	2.08	0.51
80:A6:129:U:O2	86:A6:1914:OHX:N2	2.44	0.51
80:A6:140:A:H1'	8:CG:179:VAL:HG21	1.93	0.51
80:A6:542:A:OP1	80:A6:544:A:C5	2.64	0.51
6:CE:118:GLU:C	6:CE:120:SER:H	2.17	0.51
12:CK:32:HIS:HD2	12:CK:34:GLU:H	1.58	0.51
22:CU:27:THR:HG23	22:CU:113:ASP:OD1	2.11	0.51
34:Cg:123:ILE:HG22	34:Cg:133:VAL:HG22	1.93	0.51
36:A5:152:U:H5''	36:A5:153:U:OP2	2.09	0.51
36:A5:200:C:H5'	36:A5:221:A:C2	2.46	0.51
36:A5:243:G:O2'	36:A5:244:G:H5'	2.10	0.51
36:A5:1363:A:OP2	86:A5:3738:OHX:N3	2.43	0.51
36:A5:1629:U:O4	63:DZ:111:LYS:HD3	2.11	0.51
39:DA:220:GLY:O	39:DA:221:LYS:HG3	2.11	0.51
42:DD:17:GLN:HB2	57:DT:20:ARG:HG2	1.93	0.51
51:DN:45:PRO:O	51:DN:49:ARG:HB2	2.09	0.51
1:A2:55:A:OP1	26:AY:112:LYS:NZ	2.43	0.51
1:A2:882:U:H2'	1:A2:883:C:C6	2.46	0.51
4:AC:178:ILE:HB	4:AC:185:LYS:HG3	1.93	0.51
12:AK:19:GLY:HA2	12:AK:68:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:60:VAL:HG13	14:AM:122:VAL:HG22	1.92	0.51
14:AM:73:LYS:NZ	33:Af:108:VAL:HG13	2.26	0.51
16:AO:107:ARG:HH21	16:AO:107:ARG:CG	2.19	0.51
21:AT:137:ALA:O	21:AT:141:GLU:HG2	2.10	0.51
27:AZ:37:GLN:O	27:AZ:38:HIS:HB3	2.10	0.51
27:AZ:71:ILE:HB	27:AZ:76:ALA:HB2	1.92	0.51
30:Ac:50:GLU:O	30:Ac:51:ASN:HB2	2.10	0.51
34:Ag:167:VAL:HG12	34:Ag:183:LEU:HB2	1.92	0.51
36:A1:627:U:H2'	36:A1:628:A:C8	2.46	0.51
36:A1:1192:C:H4'	36:A1:1193:A:OP2	2.09	0.51
36:A1:1261:G:H4'	36:A1:1278:A:C2	2.45	0.51
36:A1:1584:U:H2'	36:A1:1585:C:H6	1.76	0.51
40:BB:188:ILE:N	40:BB:188:ILE:HD12	2.25	0.51
41:BC:208:VAL:O	41:BC:251:THR:HG23	2.11	0.51
45:BG:91:PHE:CE1	45:BG:185:ARG:HD2	2.46	0.51
45:BG:130:TYR:CD1	45:BG:202:GLU:HB3	2.45	0.51
47:BI:36:LEU:HD21	47:BI:69:ARG:HH11	1.76	0.51
66:Bc:17:VAL:HG11	66:Bc:92:ILE:HD12	1.92	0.51
80:A6:399:A:N3	6:CE:3:ARG:NH1	2.59	0.51
80:A6:567:A:C2	80:A6:583:C:H1'	2.46	0.51
80:A6:1147:A:H2'	80:A6:1148:C:O4'	2.11	0.51
80:A6:1508:U:O4	86:A6:1909:OHX:N4	2.44	0.51
86:A6:1961:OHX:N1	86:A6:2009:OHX:N4	2.59	0.51
36:A5:787:G:H2'	36:A5:788:C:C6	2.46	0.51
36:A5:1176:C:H2'	36:A5:1177:G:N2	2.26	0.51
36:A5:1427:U:OP2	64:Da:4:ARG:NH2	2.44	0.51
36:A5:1876:U:H6	36:A5:1876:U:C5'	2.24	0.51
86:A5:3480:OHX:N3	86:A5:3763:OHX:N5	2.58	0.51
86:A5:3598:OHX:N2	86:A5:3821:OHX:N5	2.58	0.51
40:DB:153:LYS:HG2	40:DB:154:TYR:CZ	2.46	0.51
43:DE:98:VAL:HA	43:DE:101:PHE:CD2	2.45	0.51
48:DJ:15:GLU:HB3	48:DJ:130:VAL:HG22	1.93	0.51
1:A2:713:A:H61	1:A2:725:U:H3	1.59	0.51
1:A2:780:A:H8	26:AY:8:ARG:HB3	1.73	0.51
1:A2:868:G:H1	1:A2:960:U:H3	1.59	0.51
1:A2:992:A:H2	1:A2:1012:U:N3	2.06	0.51
1:A2:1179:G:H4'	35:Ah:79:SER:O	2.10	0.51
3:AB:104:ASP:OD1	3:AB:214:LYS:NZ	2.43	0.51
4:AC:40:LYS:HA	4:AC:43:ARG:NH1	2.25	0.51
13:AL:72:THR:O	13:AL:88:ARG:HD2	2.11	0.51
16:AO:127:ARG:HG3	28:Aa:22:ARG:HH12	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:766:U:H4'	36:A1:767:U:O5'	2.10	0.51
36:A1:1017:C:O2'	36:A1:1018:G:OP1	2.29	0.51
36:A1:1688:U:H2'	36:A1:1689:U:C6	2.46	0.51
36:A1:2586:G:N7	45:BG:241:LYS:HB2	2.25	0.51
86:A1:3466:OHX:N5	86:A1:3667:OHX:N1	2.59	0.51
86:A1:3479:OHX:N6	86:A1:3795:OHX:N4	2.59	0.51
86:A1:3562:OHX:N4	86:A1:3748:OHX:N1	2.59	0.51
86:A1:3607:OHX:N3	86:A1:3789:OHX:N1	2.59	0.51
37:A3:49:G:C5	42:BD:58:LYS:HG3	2.44	0.51
42:BD:52:VAL:HG21	42:BD:65:ILE:HD12	1.92	0.51
57:BT:68:THR:CG2	57:BT:71:SER:HB2	2.41	0.51
80:A6:696:C:H3'	80:A6:697:C:H5'	1.92	0.51
80:A6:1054:U:H2'	80:A6:1055:U:H6	1.75	0.51
80:A6:1534:G:N7	27:CZ:77:ARG:NH2	2.54	0.51
5:CD:23:GLU:OE1	5:CD:27:ARG:NH2	2.42	0.51
6:CE:125:LYS:HE2	6:CE:225:VAL:O	2.11	0.51
7:CF:163:SER:HB3	30:Cc:46:GLY:HA3	1.92	0.51
12:CK:46:LEU:O	12:CK:50:THR:HG23	2.11	0.51
81:Ch:68:ARG:O	81:Ch:71:ASN:N	2.43	0.51
36:A5:435:C:H2'	36:A5:436:A:O4'	2.11	0.51
36:A5:707:U:H2'	36:A5:708:G:H5''	1.93	0.51
36:A5:1876:U:H5''	36:A5:1876:U:H6	1.75	0.51
36:A5:2983:C:OP1	86:A5:3785:OHX:N6	2.44	0.51
36:A5:3049:A:H5''	40:DB:53:MET:HB2	1.93	0.51
46:DH:48:VAL:HG21	46:DH:52:LEU:HD13	1.92	0.51
53:DP:53:ASP:O	86:DP:201:OHX:N6	2.44	0.51
63:DZ:46:ILE:HD11	63:DZ:49:TYR:CD2	2.45	0.51
1:A2:336:G:H5'	13:AL:130:PRO:O	2.11	0.51
1:A2:734:A:O2'	1:A2:735:C:H5'	2.11	0.51
1:A2:859:A:C6	15:AN:73:ARG:HD3	2.46	0.51
1:A2:1366:U:O4	86:A2:1989:OHX:N6	2.44	0.51
86:A2:1975:OHX:N4	86:A2:1989:OHX:N1	2.59	0.51
8:AG:28:PHE:CE1	8:AG:104:PRO:HG3	2.46	0.51
10:AI:8:ARG:C	10:AI:9:HIS:O	2.53	0.51
19:AR:21:TYR:HA	19:AR:58:MET:HE1	1.92	0.51
36:A1:2242:A:H5'	39:BA:243:THR:HG23	1.92	0.51
38:A4:106:C:O2'	86:A4:211:OHX:N4	2.44	0.51
40:BB:199:PHE:C	40:BB:201:LYS:H	2.19	0.51
44:BF:26:VAL:HG23	44:BF:27:ALA:H	1.76	0.51
48:BJ:15:GLU:HB2	48:BJ:132:ASN:ND2	2.25	0.51
54:BQ:67:ILE:HG12	54:BQ:81:VAL:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BT:132:PRO:O	57:BT:134:GLN:NE2	2.36	0.51
59:BV:15:LEU:HD23	59:BV:53:SER:HB3	1.93	0.51
61:BX:113:LEU:C	61:BX:113:LEU:HD12	2.35	0.51
66:Bc:15:ALA:O	66:Bc:18:ILE:HG22	2.10	0.51
73:Bj:65:ARG:HH11	73:Bj:65:ARG:HG3	1.76	0.51
80:A6:404:G:H2'	80:A6:405:C:C6	2.45	0.51
80:A6:496:G:H5''	80:A6:497:G:OP2	2.10	0.51
80:A6:647:G:H8	80:A6:647:G:O5'	1.93	0.51
3:CB:70:LEU:HA	3:CB:73:LEU:HB2	1.93	0.51
3:CB:88:VAL:HA	3:CB:98:THR:HG22	1.93	0.51
3:CB:140:ILE:O	3:CB:210:ILE:HA	2.11	0.51
10:CI:51:GLY:O	10:CI:52:ASN:HB2	2.11	0.51
36:A5:249:U:OP2	36:A5:249:U:H2'	2.11	0.51
36:A5:1312:C:H5''	36:A5:1313:G:OP2	2.11	0.51
36:A5:2546:C:H2'	36:A5:2547:A:C8	2.46	0.51
36:A5:2896:A:H5''	36:A5:2896:A:H8	1.75	0.51
36:A5:3241:G:H2'	36:A5:3245:A:H8	1.76	0.51
36:A5:3273:A:O2'	36:A5:3274:A:H5'	2.11	0.51
40:DB:39:LYS:HB2	40:DB:40:PRO:CD	2.41	0.51
46:DH:1:MET:O	46:DH:2:LYS:HB2	2.11	0.51
54:DQ:178:ARG:HG2	64:Da:51:GLY:CA	2.41	0.51
62:DY:32:SER:HA	62:DY:49:PRO:HA	1.94	0.51
74:Dk:8:ILE:H	74:Dk:8:ILE:HD12	1.76	0.51
1:A2:1061:A:H2'	1:A2:1062:A:H5'	1.92	0.50
1:A2:1081:A:H4'	1:A2:1082:C:O5'	2.10	0.50
1:A2:1235:C:H2'	33:Af:138:ARG:NH2	2.26	0.50
1:A2:1365:C:H5''	18:AQ:28:LEU:HD23	1.93	0.50
1:A2:1533:C:H5	27:AZ:77:ARG:NH2	2.08	0.50
1:A2:1535:U:O2'	1:A2:1536:G:N3	2.35	0.50
3:AB:126:THR:HG22	3:AB:136:ARG:HE	1.76	0.50
10:AI:29:LEU:C	10:AI:29:LEU:HD23	2.36	0.50
21:AT:118:PRO:C	21:AT:120:GLY:H	2.18	0.50
22:AU:106:ILE:HD12	22:AU:108:ILE:HD11	1.93	0.50
36:A1:272:G:OP2	86:A1:3576:OHX:N3	2.44	0.50
36:A1:1686:U:O2	36:A1:1688:U:H1'	2.11	0.50
36:A1:1888:U:OP1	40:BB:247:ARG:HD3	2.11	0.50
86:A1:3565:OHX:N3	86:A1:3603:OHX:N1	2.59	0.50
44:BF:179:LEU:HD22	44:BF:183:ASP:OD2	2.10	0.50
59:BV:135:VAL:HG11	60:BW:26:SER:HB3	1.91	0.50
80:A6:393:C:H2'	80:A6:394:C:C6	2.45	0.50
80:A6:546:U:H2'	80:A6:547:U:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:924:A:H2'	80:A6:925:G:C8	2.46	0.50
80:A6:1332:C:H4'	5:CD:203:PRO:HB3	1.92	0.50
6:CE:117:GLU:C	6:CE:119:ALA:H	2.16	0.50
36:A5:1213:G:H4'	56:DS:90:MET:HG3	1.90	0.50
36:A5:1875:G:C2'	36:A5:1876:U:H5''	2.40	0.50
36:A5:2746:A:H2	42:DD:146:LEU:HB3	1.74	0.50
36:A5:3230:G:H4'	50:DM:132:LYS:HD3	1.91	0.50
86:A5:3480:OHX:N3	86:A5:3763:OHX:N1	2.59	0.50
41:DC:181:VAL:HG21	41:DC:224:GLY:HA3	1.92	0.50
45:DG:156:ASP:OD2	45:DG:156:ASP:N	2.43	0.50
47:DI:60:LEU:HD11	47:DI:135:ILE:HD13	1.93	0.50
50:DM:47:ASP:C	50:DM:49:PRO:HD3	2.36	0.50
54:DQ:122:ILE:HD11	54:DQ:130:ARG:CZ	2.41	0.50
60:DW:120:LYS:HA	60:DW:123:ARG:HD2	1.93	0.50
63:DZ:88:ASP:O	63:DZ:121:ARG:NH2	2.44	0.50
63:DZ:95:VAL:HG11	63:DZ:110:ALA:HA	1.93	0.50
67:Dd:19:ARG:HD3	67:Dd:35:GLU:CG	2.40	0.50
68:De:26:HIS:O	68:De:28:VAL:N	2.44	0.50
79:Dp:42:CYS:SG	79:Dp:44:LYS:HG3	2.51	0.50
1:A2:927:C:H2'	1:A2:928:U:C6	2.46	0.50
1:A2:1267:G:H21	1:A2:1448:G:C5'	2.23	0.50
1:A2:1381:U:H4'	22:AU:59:PRO:HG3	1.93	0.50
1:A2:1472:C:OP1	7:AF:102:ARG:NH2	2.43	0.50
1:A2:1502:G:O6	21:AT:102:ARG:NH2	2.44	0.50
1:A2:1572:G:H8	7:AF:185:ARG:HH12	1.59	0.50
2:AA:136:ALA:HB1	2:AA:141:ILE:HB	1.94	0.50
3:AB:71:ALA:C	3:AB:73:LEU:H	2.19	0.50
6:AE:196:VAL:N	6:AE:209:HIS:O	2.43	0.50
8:AG:70:PRO:O	8:AG:98:ARG:NH1	2.42	0.50
13:AL:55:ASP:OD2	13:AL:110:HIS:HE1	1.92	0.50
21:AT:40:SER:OG	21:AT:96:ALA:HA	2.11	0.50
36:A1:1175:C:H5''	52:BO:25[A]:LYS:HG2	1.92	0.50
36:A1:1383:G:O6	86:A1:3423:OHX:N4	2.44	0.50
36:A1:2503:G:H1'	36:A1:2504:U:C5	2.31	0.50
36:A1:3269:U:H5'	36:A1:3269:U:O2	2.11	0.50
38:A4:104:A:C8	38:A4:105:A:C8	2.99	0.50
63:BZ:64:LYS:O	63:BZ:67:LYS:HG2	2.10	0.50
68:Be:19:ARG:HD2	68:Be:28:VAL:CG1	2.42	0.50
74:Bk:73:LEU:HD23	74:Bk:75:VAL:HG22	1.92	0.50
80:A6:539:G:OP2	80:A6:539:G:C8	2.58	0.50
80:A6:1316:G:OP1	19:CR:7:LYS:N	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:1553:G:N7	17:CP:43:ARG:NH1	2.59	0.50
80:A6:1699:N:H2'	80:A6:1700:N:H5'	1.92	0.50
80:A6:1796:C:OP1	28:Ca:87:ARG:HD3	2.11	0.50
3:CB:180:THR:HG23	3:CB:183:GLN:HE22	1.75	0.50
4:CC:237:VAL:O	4:CC:238:SER:OG	2.29	0.50
5:CD:70:THR:HG23	5:CD:86:LEU:HB2	1.92	0.50
15:CN:20:ARG:HG3	15:CN:20:ARG:NH1	2.25	0.50
17:CP:15:HIS:O	17:CP:22:LEU:HD22	2.11	0.50
27:CZ:55:PRO:HG3	27:CZ:88:ILE:HD12	1.93	0.50
36:A5:3058:U:H5'	36:A5:3059:G:OP1	2.09	0.50
55:DR:151:ARG:O	55:DR:155:LEU:HG	2.11	0.50
57:DT:17:ARG:HG2	57:DT:17:ARG:HH11	1.76	0.50
60:DW:105:ARG:HG2	60:DW:109:LEU:HD11	1.93	0.50
77:Dn:9:ARG:HH11	77:Dn:9:ARG:CG	2.25	0.50
83:Dq:19:LEU:HD22	83:Dq:73:PHE:CE1	2.47	0.50
1:A2:76:A:H5'	86:A2:2041:OHX:N1	2.25	0.50
1:A2:220:A:H5''	1:A2:832:U:H1'	1.93	0.50
1:A2:320:U:H3'	1:A2:321:C:H5''	1.94	0.50
1:A2:425:A:H5'	1:A2:425:A:C8	2.46	0.50
86:A2:1922:OHX:N2	86:A2:1978:OHX:N3	2.60	0.50
2:AA:33:GLN:C	2:AA:34:GLU:HG2	2.36	0.50
7:AF:205:SER:O	7:AF:205:SER:OG	2.25	0.50
10:AI:76:THR:CG2	10:AI:108:PRO:HG2	2.41	0.50
17:AP:22:LEU:HD21	17:AP:109:PRO:HB3	1.94	0.50
20:AS:27:LYS:O	20:AS:29:VAL:N	2.44	0.50
21:AT:113:ILE:O	21:AT:124:ILE:HD12	2.11	0.50
22:AU:104:THR:HG21	22:AU:116:VAL:HG21	1.93	0.50
23:AV:71:ARG:HG3	23:AV:83:TRP:CH2	2.46	0.50
36:A1:1368:U:H5'	68:Be:43:ARG:NH1	2.27	0.50
36:A1:2403:G:H21	36:A1:2404:A:N6	2.08	0.50
37:A3:19:C:H2'	37:A3:20:A:H8	1.77	0.50
41:BC:104:LYS:HD2	41:BC:106:TRP:CZ2	2.46	0.50
44:BF:140:SER:OG	44:BF:143:THR:HG23	2.10	0.50
46:BH:116:ASN:O	46:BH:119:GLY:N	2.39	0.50
54:BQ:151:ARG:O	54:BQ:161:LYS:O	2.28	0.50
55:BR:44:LEU:HD12	55:BR:49:THR:HB	1.92	0.50
62:BY:71:SER:HB3	62:BY:83:ASP:HB2	1.93	0.50
69:Bf:48:ARG:HG2	69:Bf:48:ARG:NH1	2.25	0.50
73:Bj:31:LYS:O	73:Bj:33:THR:HG22	2.11	0.50
78:Bo:48:SER:O	86:Bo:201:OHX:N6	2.45	0.50
80:A6:819:G:O2'	80:A6:821:U:OP2	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:914:G:H8	80:A6:914:G:OP2	1.94	0.50
80:A6:1555:A:P	17:CP:47:ARG:HH21	2.35	0.50
80:A6:1698:N:O2'	80:A6:1699:N:P	2.70	0.50
2:CA:50:VAL:HG23	19:CR:109:LEU:HD21	1.92	0.50
4:CC:111:VAL:HG23	4:CC:137:ILE:HG22	1.93	0.50
13:CL:69:LYS:C	13:CL:70:ILE:HD12	2.37	0.50
13:CL:128:CYS:O	13:CL:129:ARG:HB3	2.11	0.50
19:CR:88:VAL:HG22	19:CR:89:SER:O	2.11	0.50
34:Cg:177:MET:HE1	34:Cg:193:ILE:HG13	1.93	0.50
36:A5:112:U:O2'	36:A5:113:C:OP2	2.24	0.50
36:A5:621:A:H2'	36:A5:622:A:C8	2.45	0.50
36:A5:1860:G:OP2	86:A5:3699:OHX:N4	2.44	0.50
36:A5:2263:C:C2'	36:A5:2264:U:H5'	2.42	0.50
40:DB:150:ARG:HG2	40:DB:150:ARG:NH1	2.26	0.50
42:DD:7:ALA:O	86:DD:301:OHX:N6	2.44	0.50
45:DG:29:SER:O	45:DG:31:PRO:HD3	2.12	0.50
50:DM:134:ALA:O	50:DM:136:ALA:N	2.44	0.50
52:DO:127[A]:LEU:HD11	56:DS:168:PRO:HG3	1.94	0.50
58:DU:90:ARG:O	58:DU:91:ASP:HB2	2.10	0.50
63:DZ:65:ARG:HH11	63:DZ:65:ARG:HG3	1.76	0.50
1:A2:484:C:N4	1:A2:503:G:H22	2.05	0.50
1:A2:498:G:H2'	1:A2:499:U:C5	2.47	0.50
1:A2:1410:A:H5''	18:AQ:118:ILE:HD13	1.91	0.50
86:A2:1965:OHX:N2	86:A2:2029:OHX:N4	2.59	0.50
3:AB:86:LEU:HB3	3:AB:98:THR:OG1	2.11	0.50
11:AJ:93:LEU:HA	11:AJ:96:VAL:CG1	2.38	0.50
18:AQ:73:GLY:H	18:AQ:76:SER:HB3	1.76	0.50
27:AZ:50:ILE:O	27:AZ:54:VAL:HG23	2.11	0.50
27:AZ:55:PRO:C	27:AZ:57:TYR:H	2.19	0.50
36:A1:637:C:H4'	36:A1:638:C:OP1	2.11	0.50
36:A1:726:G:H1'	36:A1:744:A:N6	2.27	0.50
36:A1:1216:C:H6	36:A1:1216:C:C5'	2.25	0.50
36:A1:2541:U:H1'	36:A1:2542:U:OP2	2.11	0.50
36:A1:2970:C:H4'	36:A1:2971:A:C2	2.47	0.50
86:A1:3457:OHX:N4	86:A1:3792:OHX:N1	2.60	0.50
38:A4:141:C:OP1	51:BN:109:ARG:NH1	2.44	0.50
40:BB:2:SER:O	40:BB:3:HIS:HB3	2.12	0.50
40:BB:188:ILE:O	40:BB:192:VAL:HG12	2.11	0.50
42:BD:40:HIS:HD2	42:BD:42:ALA:N	1.99	0.50
56:BS:23:LYS:O	56:BS:24:LEU:HB2	2.11	0.50
64:Ba:126:LYS:HB3	64:Ba:148:ILE:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:4:C:O2'	11:CJ:17:ARG:NH1	2.36	0.50
80:A6:66:U:C5	8:CG:173:PRO:HG3	2.46	0.50
80:A6:486:G:OP1	80:A6:486:G:H4'	2.11	0.50
80:A6:565:C:O2	86:A6:2054:OHX:N1	2.45	0.50
80:A6:1691:A:H2'	80:A6:1692:G:C8	2.46	0.50
86:A6:2092:OHX:N3	11:CJ:7:THR:OG1	2.44	0.50
9:CH:155:ASP:CG	9:CH:156:SER:H	2.20	0.50
34:Cg:38:ARG:C	34:Cg:40:LYS:H	2.19	0.50
36:A5:65:A:H2'	36:A5:110:G:N7	2.25	0.50
36:A5:508:U:H2'	36:A5:509:U:C6	2.46	0.50
36:A5:658:G:N2	41:DC:93:MET:HB2	2.27	0.50
36:A5:839:C:O2'	36:A5:1724:U:OP1	2.27	0.50
36:A5:1192:C:C5	86:A5:3604:OHX:N6	2.79	0.50
36:A5:1810:A:H2'	36:A5:1811:G:C8	2.46	0.50
36:A5:3227:A:C2'	36:A5:3228:C:H5'	2.41	0.50
86:A5:3474:OHX:N3	86:A5:3681:OHX:N2	2.59	0.50
86:A5:3598:OHX:N2	86:A5:3821:OHX:N6	2.59	0.50
49:DL:131:LYS:H	49:DL:131:LYS:HD3	1.77	0.50
49:DL:153:ASP:OD2	49:DL:157:ARG:HD3	2.12	0.50
53:DP:29:THR:HA	53:DP:32:THR:HG23	1.93	0.50
63:DZ:53:VAL:HA	63:DZ:57:HIS:HD2	1.76	0.50
73:Dj:21:ARG:NH2	73:Dj:41:ALA:O	2.38	0.50
1:A2:393:C:H4'	1:A2:1673:G:O2'	2.12	0.50
1:A2:503:G:O2'	1:A2:504:U:OP1	2.27	0.50
1:A2:818:C:N4	1:A2:819:G:C6	2.80	0.50
1:A2:1002:G:H2'	1:A2:1003:A:H5'	1.92	0.50
1:A2:1154:G:N7	86:A2:2017:OHX:N1	2.60	0.50
1:A2:1215:C:N4	86:A2:2086:OHX:N3	2.59	0.50
1:A2:1716:C:O2'	1:A2:1717:G:O5'	2.30	0.50
2:AA:189:VAL:HG22	2:AA:190:ASP:H	1.75	0.50
3:AB:56:SER:OG	3:AB:59:ASP:OD1	2.29	0.50
4:AC:140:ARG:NH2	4:AC:226:THR:HG23	2.27	0.50
12:AK:77:ARG:HD3	12:AK:84:GLU:HA	1.94	0.50
20:AS:88:ARG:NH1	20:AS:112:ASP:OD1	2.45	0.50
36:A1:884:A:OP1	73:Bj:5:THR:CG2	2.58	0.50
36:A1:1863:G:O6	86:A1:3650:OHX:N6	2.45	0.50
36:A1:2333:C:H2'	36:A1:2334:U:O4'	2.12	0.50
36:A1:3218:A:H5''	36:A1:3219:G:C5	2.47	0.50
86:A1:3512:OHX:N5	86:A1:3693:OHX:N2	2.60	0.50
86:A1:3693:OHX:N5	86:A1:3712:OHX:N3	2.58	0.50
40:BB:68:HIS:CD2	40:BB:69:LYS:HG3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BC:212:ASP:CG	41:BC:216:VAL:HG13	2.37	0.50
56:BS:109:ASP:OD1	56:BS:113:ARG:NH1	2.45	0.50
59:BV:62:VAL:HG23	59:BV:74:MET:HE1	1.94	0.50
69:Bf:15:SER:HB3	69:Bf:16:TYR:O	2.12	0.50
74:Bk:45:VAL:HG23	74:Bk:52:TYR:HB2	1.93	0.50
80:A6:138:A:H62	80:A6:266:A:N6	2.08	0.50
80:A6:686:C:H2'	80:A6:687:G:C8	2.46	0.50
80:A6:831:U:OP2	80:A6:831:U:H2'	2.12	0.50
80:A6:1030:A:H4'	80:A6:1031:U:OP2	2.12	0.50
80:A6:1628:U:H2'	80:A6:1629:G:C8	2.46	0.50
80:A6:1654:G:OP1	77:Dn:21:ARG:HD2	2.11	0.50
80:A6:1785:U:OP1	16:CO:136:ARG:NH1	2.45	0.50
7:CF:145:ASP:CG	7:CF:146:THR:H	2.19	0.50
9:CH:9:LEU:HD21	9:CH:17:GLU:HB3	1.92	0.50
20:CS:82:PRO:HG3	21:CT:36:ILE:HD12	1.93	0.50
36:A5:209:A:H4'	36:A5:211:A:N7	2.25	0.50
36:A5:407:A:C2	38:A8:17:A:H1'	2.47	0.50
36:A5:429:U:H4'	69:Df:88:ASN:HB2	1.93	0.50
36:A5:1595:U:C2	36:A5:1596:C:C5	2.99	0.50
36:A5:1819:U:H2'	36:A5:1820:U:H5'	1.93	0.50
41:DC:126:ILE:HG13	41:DC:238:LEU:HD13	1.92	0.50
43:DE:47:PHE:O	43:DE:50:LYS:HB2	2.11	0.50
61:DX:73:MET:HE1	61:DX:141:TYR:HE1	1.75	0.50
1:A2:478:A:OP1	32:Ae:37:ARG:NH1	2.45	0.50
1:A2:741:C:O2	9:AH:107:ARG:NH1	2.40	0.50
1:A2:1168:U:C2'	1:A2:1169:G:H5'	2.41	0.50
5:AD:192:PRO:O	5:AD:195:SER:HB2	2.11	0.50
7:AF:69:PHE:HD2	18:AQ:50:GLU:HG2	1.75	0.50
13:AL:97:TYR:O	13:AL:99:ARG:HG2	2.12	0.50
16:AO:25:ASP:HA	16:AO:54:GLU:O	2.12	0.50
18:AQ:16:ALA:HB2	18:AQ:72:GLY:HA3	1.94	0.50
22:AU:20:ILE:HG13	22:AU:95:ALA:O	2.11	0.50
22:AU:22:ILE:HD12	22:AU:118:VAL:HA	1.93	0.50
30:Ac:15:VAL:HA	30:Ac:28:VAL:HG22	1.92	0.50
33:Af:135:HIS:HB2	33:Af:138:ARG:HB3	1.93	0.50
36:A1:839:C:H1'	36:A1:1724:U:OP1	2.11	0.50
36:A1:1044:U:OP1	47:BI:90:ARG:NH1	2.45	0.50
36:A1:1547:G:OP1	51:BN:105:ARG:HD3	2.11	0.50
36:A1:1818:U:H5''	36:A1:1819:U:OP2	2.11	0.50
36:A1:1876:U:H5''	36:A1:1876:U:C6	2.43	0.50
39:BA:108:PRO:HG2	79:Bp:86:LEU:HD13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BB:296:THR:HG22	40:BB:298:PHE:N	2.26	0.50
50:BM:50:LYS:HE3	50:BM:86:ALA:HB2	1.94	0.50
54:BQ:19:PRO:HD3	54:BQ:53:PHE:HD1	1.77	0.50
55:BR:63:THR:O	55:BR:66:HIS:N	2.45	0.50
57:BT:71:SER:HB3	57:BT:91:LEU:O	2.12	0.50
80:A6:272:U:O2'	80:A6:273:G:OP2	2.25	0.50
80:A6:970:A:H5'	80:A6:970:A:H8	1.77	0.50
80:A6:1478:G:H2'	80:A6:1479:A:O4'	2.12	0.50
80:A6:1514:U:O5'	80:A6:1515:A:H5'	2.12	0.50
86:A6:1933:OHX:N3	86:A6:2071:OHX:N1	2.60	0.50
4:CC:183:ALA:HB1	4:CC:211:LEU:HD21	1.93	0.50
7:CF:73:THR:C	7:CF:75:GLY:H	2.20	0.50
9:CH:10:SER:O	9:CH:11:GLN:HB2	2.11	0.50
10:CI:54:LYS:HE2	10:CI:175:GLN:OE1	2.11	0.50
15:CN:83:GLU:HG3	15:CN:84:ILE:H	1.77	0.50
20:CS:26:ILE:HD11	20:CS:31:ALA:HA	1.92	0.50
36:A5:736:A:H2'	36:A5:737:G:O4'	2.12	0.50
36:A5:873:C:H4'	36:A5:874:U:OP2	2.12	0.50
36:A5:1243:G:OP2	36:A5:1243:G:H8	1.95	0.50
36:A5:1655:G:C5'	36:A5:1655:G:C8	2.91	0.50
36:A5:2927:C:H2'	36:A5:2928:C:C6	2.47	0.50
41:DC:283:THR:HG21	41:DC:288:ARG:NH2	2.26	0.50
42:DD:40:HIS:HD2	42:DD:42:ALA:N	2.06	0.50
52:DO:116[A]:LYS:HG3	52:DO:117[A]:ARG:N	2.26	0.50
53:DP:109:ALA:HA	53:DP:112:LEU:HD22	1.94	0.50
73:Dj:76:ASN:O	73:Dj:79:GLN:HG3	2.12	0.50
1:A2:1352:G:O6	86:A2:2028:OHX:N1	2.45	0.50
86:A2:1915:OHX:N2	86:A2:2074:OHX:N1	2.59	0.50
3:AB:184:LEU:O	3:AB:188:LEU:HG	2.12	0.50
5:AD:33:GLY:O	5:AD:53:THR:HG23	2.12	0.50
11:AJ:95:TYR:O	11:AJ:99:LEU:N	2.45	0.50
11:AJ:120:LYS:O	11:AJ:121:SER:HB2	2.12	0.50
17:AP:85:ILE:HD11	17:AP:116:LEU:HD23	1.93	0.50
18:AQ:25:GLY:H	18:AQ:63:ILE:HA	1.76	0.50
24:AW:55:ASP:C	24:AW:57:ARG:H	2.20	0.50
36:A1:29:C:H4'	36:A1:62:A:H4'	1.94	0.50
36:A1:841:A:OP1	55:BR:125:LYS:HD3	2.11	0.50
36:A1:1298:C:O3'	76:Bm:113:ARG:NH1	2.44	0.50
36:A1:2197:C:N4	36:A1:2241:U:H2'	2.26	0.50
36:A1:2434:U:C5	36:A1:2594:C:OP2	2.65	0.50
36:A1:2565:U:H2'	36:A1:2566:C:H6	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2794:G:H1'	36:A1:2795:U:C6	2.47	0.50
37:A3:113:C:H2'	37:A3:114:U:O4'	2.11	0.50
40:BB:114:VAL:O	40:BB:117:ARG:HB3	2.11	0.50
40:BB:284:ARG:HB3	40:BB:323:MET:CB	2.41	0.50
40:BB:347:SER:O	40:BB:348:ARG:HB3	2.12	0.50
44:BF:25:GLN:HG2	44:BF:29:GLU:HB2	1.93	0.50
44:BF:159:GLN:O	44:BF:160:ARG:C	2.55	0.50
47:BI:205:SER:O	47:BI:209:ASN:HB2	2.11	0.50
48:BJ:37:LEU:HD12	48:BJ:67:VAL:HG23	1.93	0.50
52:BO:49[A]:ARG:HG2	52:BO:49[A]:ARG:NH1	2.25	0.50
63:BZ:26:VAL:HG12	63:BZ:89:VAL:HG23	1.93	0.50
80:A6:219:A:C6	80:A6:843:U:H1'	2.46	0.50
80:A6:918:U:H2'	80:A6:919:A:H8	1.75	0.50
2:CA:109:ASN:O	2:CA:112:THR:HG22	2.12	0.50
7:CF:186:ASN:OD1	7:CF:188:LYS:HB2	2.11	0.50
12:CK:45:ALA:O	12:CK:49:LEU:HD23	2.12	0.50
13:CL:46:LYS:O	13:CL:50:GLU:HG2	2.11	0.50
14:CM:83:GLU:O	14:CM:85:LYS:N	2.45	0.50
24:CW:14:ILE:HD11	24:CW:27:ILE:HD11	1.94	0.50
36:A5:998:A:O2'	36:A5:999:G:H5'	2.12	0.50
36:A5:1717:U:H2'	36:A5:1718:G:C8	2.47	0.50
36:A5:2439:A:C2'	36:A5:2440:G:H5''	2.40	0.50
36:A5:2762:A:O2'	54:DQ:176:ARG:HD2	2.12	0.50
86:A5:3598:OHX:N4	86:A5:3821:OHX:N3	2.59	0.50
38:A8:27:U:O5'	38:A8:27:U:H6	1.95	0.50
40:DB:37:ARG:HA	40:DB:186:GLY:HA2	1.94	0.50
48:DJ:54:VAL:HG23	48:DJ:57:PHE:HB2	1.93	0.50
48:DJ:139:THR:HG22	48:DJ:146:GLY:O	2.12	0.50
52:DO:65[A]:ASN:HB3	52:DO:68[A]:ARG:HD2	1.94	0.50
1:A2:70:C:H2'	1:A2:71:A:O4'	2.12	0.50
1:A2:749:U:H3	1:A2:800:U:H3	1.58	0.50
1:A2:1114:G:O6	86:A2:1953:OHX:N5	2.45	0.50
1:A2:1433:G:H22	31:Ad:45:GLU:CD	2.20	0.50
1:A2:1458:G:N3	1:A2:1458:G:H2'	2.26	0.50
2:AA:120:LEU:HD13	2:AA:142:PRO:HB2	1.94	0.50
9:AH:10:SER:HB3	9:AH:43:PHE:O	2.11	0.50
9:AH:28:GLU:O	9:AH:35:LYS:HB2	2.12	0.50
14:AM:31:VAL:HG21	14:AM:136:ILE:HD13	1.92	0.50
25:AX:97:ASP:HB2	25:AX:100:ASP:OD2	2.12	0.50
28:Aa:23:CYS:SG	28:Aa:74:CYS:HB3	2.52	0.50
36:A1:239:G:HO2'	36:A1:240:U:P	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1157:G:H2'	36:A1:1158:A:O4'	2.12	0.50
36:A1:1460:A:H2'	36:A1:1461:A:H8	1.76	0.50
36:A1:1587:A:OP1	86:A1:3487:OHX:N6	2.44	0.50
36:A1:1689:U:OP2	86:A1:3814:OHX:N4	2.45	0.50
36:A1:2443:A:O2'	36:A1:2444:C:H5'	2.10	0.50
36:A1:2541:U:O4'	36:A1:2542:U:H4'	2.12	0.50
86:A1:3562:OHX:N6	86:A1:3748:OHX:N5	2.60	0.50
52:BO:73[A]:PHE:CG	52:BO:78[A]:ARG:HG2	2.47	0.50
53:BP:27:LYS:HD3	53:BP:63:PHE:HB3	1.93	0.50
58:BU:33:TYR:CE2	58:BU:63:VAL:HG21	2.45	0.50
80:A6:542:A:H61	32:Ce:28:LYS:HE2	1.77	0.50
80:A6:825:U:O2'	80:A6:826:U:H6	1.95	0.50
80:A6:1196:A:H3'	80:A6:1196:A:OP2	2.11	0.50
80:A6:1229:G:O6	14:CM:47:GLU:HG2	2.11	0.50
7:CF:57:SER:OG	7:CF:58:LEU:N	2.35	0.50
8:CG:57:ASP:HA	8:CG:106:LEU:HA	1.94	0.50
12:CK:23:ALA:HB3	12:CK:64:TYR:O	2.12	0.50
17:CP:127:ARG:O	17:CP:130:ARG:NH1	2.43	0.50
22:CU:43:LYS:HD3	22:CU:47:GLN:HB2	1.92	0.50
36:A5:530:G:N7	86:A5:3464:OHX:N3	2.59	0.50
36:A5:610:G:C8	41:DC:312:VAL:HG21	2.47	0.50
36:A5:1339:C:OP1	68:De:61:LYS:HD3	2.12	0.50
86:A5:3720:OHX:N5	86:A5:3722:OHX:N2	2.60	0.50
38:A8:79:A:H4'	38:A8:79:A:OP1	2.11	0.50
44:DF:22:THR:HA	44:DF:25:GLN:HG2	1.94	0.50
1:A2:497:G:O2'	1:A2:498:G:O4'	2.29	0.50
1:A2:702:G:O6	1:A2:737:A:N6	2.45	0.50
1:A2:778:G:H22	26:AY:10:ARG:HH22	1.57	0.50
1:A2:976:G:O6	86:A2:1928:OHX:N3	2.45	0.50
1:A2:1325:A:OP2	19:AR:11:ARG:NH1	2.45	0.50
86:A2:1965:OHX:N5	86:A2:2029:OHX:N6	2.59	0.50
2:AA:119:ARG:HD2	4:AC:241:ASP:OD1	2.12	0.50
3:AB:125:VAL:HG21	3:AB:173:THR:HG22	1.94	0.50
5:AD:20:GLU:OE2	5:AD:76:ARG:NH2	2.44	0.50
6:AE:15:PRO:HG2	6:AE:18:TRP:CE2	2.46	0.50
13:AL:98:ASN:HD22	24:AW:79:PHE:HD1	1.59	0.50
14:AM:29:LYS:HE2	14:AM:100:TRP:NE1	2.26	0.50
24:AW:77:PRO:HD2	24:AW:79:PHE:CE2	2.47	0.50
34:Ag:154:VAL:HG12	34:Ag:171:SER:HB3	1.93	0.50
36:A1:644:G:O6	36:A1:2868:U:OP1	2.30	0.50
36:A1:715:A:H5''	64:Ba:114:GLY:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2320:A:C2	79:Bp:16:VAL:HG13	2.46	0.50
36:A1:2676:A:H4'	36:A1:2677:G:O5'	2.12	0.50
36:A1:3047:U:O2'	40:BB:53:MET:HE1	2.11	0.50
36:A1:3057:U:H5'	36:A1:3086:A:H61	1.75	0.50
86:A1:3432:OHX:N1	86:A1:3798:OHX:N3	2.60	0.50
86:A1:3607:OHX:N5	86:A1:3789:OHX:N1	2.59	0.50
39:BA:247:ARG:CG	39:BA:247:ARG:HH11	2.25	0.50
46:BH:171:ASP:OD1	46:BH:173:ARG:CD	2.57	0.50
47:BI:187:ALA:HA	86:BI:304:OHX:N5	2.27	0.50
55:BR:178:ALA:HA	55:BR:181:ARG:HB3	1.94	0.50
57:BT:14:MET:HE1	57:BT:55:LYS:CA	2.42	0.50
59:BV:120:LYS:HB3	59:BV:137:VAL:HG21	1.94	0.50
62:BY:5:SER:HB3	62:BY:8:VAL:HG12	1.93	0.50
70:Bg:47:CYS:HB3	70:Bg:84:CYS:SG	2.51	0.50
72:Bi:70:ARG:NH1	72:Bi:84:LYS:HD3	2.25	0.50
80:A6:848:C:H2'	80:A6:849:C:H6	1.77	0.50
2:CA:167:LYS:HD3	2:CA:168:HIS:CD2	2.45	0.50
3:CB:180:THR:OG1	3:CB:181:LEU:N	2.38	0.50
7:CF:33:VAL:HG13	7:CF:37:GLN:CD	2.37	0.50
11:CJ:120:LYS:O	11:CJ:121:SER:HB2	2.11	0.50
13:CL:72:THR:O	13:CL:88:ARG:HD2	2.12	0.50
16:CO:122:PRO:C	16:CO:124:ASP:N	2.70	0.50
30:Cc:49:ARG:HG2	30:Cc:52:ASP:OD1	2.12	0.50
36:A5:1097:G:H5'	57:DT:129:LYS:HE3	1.94	0.50
86:A5:3465:OHX:N1	86:A5:3810:OHX:N5	2.60	0.50
86:A5:3606:OHX:N5	86:A5:3740:OHX:N1	2.60	0.50
37:A7:3:U:H2'	37:A7:4:U:H6	1.76	0.50
45:DG:204:ARG:O	45:DG:207:ASP:HB2	2.11	0.50
1:A2:647:G:H22	1:A2:687:G:N2	2.09	0.49
1:A2:677:G:H2'	1:A2:678:A:H8	1.73	0.49
1:A2:707:A:H2'	1:A2:708:C:H5''	1.92	0.49
1:A2:1201:G:O2'	86:A2:1992:OHX:N1	2.45	0.49
2:AA:29:VAL:HG13	2:AA:150:ASP:HB3	1.93	0.49
2:AA:185:ARG:N	23:AV:45:ALA:H	2.09	0.49
4:AC:139:ILE:CD1	4:AC:191:ALA:HB1	2.42	0.49
4:AC:173:PRO:O	4:AC:176:SER:OG	2.27	0.49
7:AF:43:PHE:HA	7:AF:68:ILE:O	2.11	0.49
7:AF:59:VAL:O	7:AF:60:ASP:HB2	2.12	0.49
16:AO:25:ASP:N	16:AO:55:SER:HB3	2.26	0.49
36:A1:534:U:O2	56:BS:146:LYS:HA	2.11	0.49
36:A1:1245:A:H3'	36:A1:1246:G:H5''	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1629:U:O3'	63:BZ:115:LYS:HE3	2.12	0.49
36:A1:1682:U:O2	58:BU:82:LYS:HD3	2.12	0.49
36:A1:1765:U:OP1	36:A1:1765:U:H4'	2.11	0.49
36:A1:2712:U:H2'	36:A1:2713:U:C6	2.47	0.49
36:A1:3330:A:H8	36:A1:3330:A:H5''	1.76	0.49
86:A1:3471:OHX:N5	86:A1:3744:OHX:N6	2.60	0.49
45:BG:106:LYS:O	45:BG:110:THR:HG23	2.12	0.49
46:BH:12:VAL:HB	46:BH:51:GLN:HA	1.92	0.49
50:BM:92:GLU:OE2	50:BM:92:GLU:N	2.41	0.49
53:BP:127:ARG:HB2	53:BP:127:ARG:HH11	1.77	0.49
63:BZ:38:PHE:O	63:BZ:40:HIS:ND1	2.31	0.49
66:Bc:27:TYR:O	66:Bc:31:VAL:HG23	2.12	0.49
74:Bk:62:ALA:O	74:Bk:66:ILE:HG13	2.11	0.49
76:Bm:110:CYS:SG	76:Bm:112:LYS:HB2	2.52	0.49
80:A6:531:C:H2'	80:A6:532:U:H5'	1.92	0.49
80:A6:702:G:N7	86:A6:1955:OHX:N4	2.60	0.49
80:A6:1305:U:OP2	80:A6:1306:C:N4	2.39	0.49
2:CA:153:SER:O	2:CA:156:VAL:HG22	2.11	0.49
3:CB:36:SER:HA	3:CB:41:ARG:HE	1.76	0.49
7:CF:190:ILE:O	7:CF:194:LEU:HB2	2.12	0.49
20:CS:54:LEU:H	20:CS:54:LEU:HD12	1.77	0.49
34:Cg:54:PHE:CE2	34:Cg:312:VAL:HG11	2.47	0.49
36:A5:256:G:H2'	36:A5:257:U:C6	2.47	0.49
36:A5:535:G:O6	86:A5:3598:OHX:N2	2.45	0.49
36:A5:2987:A:H5''	52:DO:68[A]:ARG:HH12	1.77	0.49
36:A5:3147:G:OP1	86:A5:3761:OHX:N3	2.44	0.49
86:A5:3521:OHX:N4	86:A5:3768:OHX:N6	2.60	0.49
42:DD:152:ARG:HH11	42:DD:152:ARG:CG	2.25	0.49
56:DS:38:LYS:HD2	56:DS:58:ILE:HD13	1.94	0.49
61:DX:38:LEU:O	61:DX:39:LYS:HB2	2.11	0.49
1:A2:606:A:H4'	1:A2:607:G:H5''	1.93	0.49
1:A2:929:A:N6	1:A2:930:A:C6	2.80	0.49
1:A2:1049:U:H2'	1:A2:1050:G:C8	2.47	0.49
86:A2:1965:OHX:N5	86:A2:2029:OHX:N3	2.60	0.49
3:AB:61:LEU:HG	3:AB:64:ARG:HH21	1.77	0.49
11:AJ:38:ASN:HB3	11:AJ:40:LYS:H	1.75	0.49
29:Ab:54:VAL:O	29:Ab:63:LEU:HB2	2.13	0.49
36:A1:637:C:O2'	36:A1:638:C:P	2.71	0.49
36:A1:1075:A:C5	65:Bb:45:HIS:CD2	3.00	0.49
36:A1:1306:G:C6	52:BO:62[B]:THR:HA	2.47	0.49
36:A1:1351:U:O2	36:A1:1351:U:H2'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1509:A:O2'	36:A1:1510:G:H5'	2.13	0.49
36:A1:1758:G:H1	36:A1:1767:C:H42	1.60	0.49
36:A1:2533:G:C8	86:A1:3751:OHX:N1	2.79	0.49
36:A1:3296:A:OP2	40:BB:121:ASN:ND2	2.43	0.49
36:A1:3350:C:H4'	36:A1:3351:U:OP1	2.12	0.49
86:A1:3478:OHX:N6	86:A1:3788:OHX:N2	2.59	0.49
37:A3:17:A:OP1	42:BD:2:ALA:N	2.45	0.49
40:BB:35:ASP:OD2	40:BB:37:ARG:HD2	2.11	0.49
45:BG:94:PHE:CE2	45:BG:200:LEU:HG	2.47	0.49
47:BI:182:LEU:HD22	47:BI:186:GLU:OE2	2.12	0.49
56:BS:12:ARG:HG2	56:BS:59:VAL:HG21	1.94	0.49
59:BV:108:GLU:HG2	59:BV:128:ARG:NH1	2.24	0.49
80:A6:1388:A:H4'	80:A6:1389:C:O5'	2.12	0.49
80:A6:1762:A:C1'	80:A6:1783:C:H5'	2.42	0.49
8:CG:25:ARG:HA	8:CG:28:PHE:CD2	2.47	0.49
8:CG:55:GLY:CA	8:CG:63:MET:HE3	2.42	0.49
11:CJ:39:LYS:HB3	11:CJ:43:TYR:CZ	2.46	0.49
14:CM:61:VAL:HG13	14:CM:121:VAL:HG23	1.94	0.49
28:Ca:58:VAL:HG22	28:Ca:59:TYR:N	2.27	0.49
36:A5:59:G:H2'	38:A8:33:A:O2'	2.12	0.49
36:A5:135:C:H4'	36:A5:136:G:OP2	2.12	0.49
36:A5:839:C:H1'	36:A5:1724:U:OP1	2.11	0.49
36:A5:1056:U:O2	86:A5:3507:OHX:N5	2.45	0.49
36:A5:1131:G:C4	36:A5:2373:A:C2	3.00	0.49
36:A5:1387:G:OP1	86:A5:3739:OHX:N3	2.45	0.49
86:A5:3516:OHX:N6	86:A5:3603:OHX:N2	2.60	0.49
86:A5:3598:OHX:N1	86:A5:3821:OHX:N3	2.60	0.49
38:A8:145:U:H2'	38:A8:146:U:C6	2.47	0.49
39:DA:44:ILE:H	39:DA:44:ILE:HD12	1.76	0.49
39:DA:225:ILE:O	39:DA:238:ILE:O	2.29	0.49
44:DF:223:PHE:HA	44:DF:227:GLY:HA2	1.93	0.49
52:DO:61[A]:ALA:HB1	52:DO:66[A]:LYS:HG3	1.92	0.49
54:DQ:178:ARG:CD	64:Da:50:PRO:HB2	2.37	0.49
64:Da:46:ASP:O	64:Da:47:LYS:HB3	2.12	0.49
1:A2:778:G:H22	26:AY:10:ARG:CZ	2.26	0.49
1:A2:1367:G:N7	86:A2:1989:OHX:N6	2.59	0.49
86:A2:2061:OHX:N5	11:AJ:8:TYR:O	2.45	0.49
5:AD:116:ARG:O	5:AD:120:TYR:HB2	2.12	0.49
18:AQ:112:TYR:OH	18:AQ:114:ARG:NH1	2.45	0.49
20:AS:91:ASP:HB3	20:AS:95:GLY:H	1.77	0.49
21:AT:31:PRO:HG3	21:AT:103:LYS:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AY:31:ASN:O	26:AY:32:ARG:HB2	2.11	0.49
36:A1:121:A:C6	45:BG:129:PRO:HG3	2.47	0.49
36:A1:2970:C:H4'	36:A1:2971:A:N1	2.27	0.49
42:BD:208:MET:HG3	42:BD:223:PHE:CE1	2.47	0.49
46:BH:4:ILE:HG22	56:BS:142:GLN:CD	2.37	0.49
55:BR:101:VAL:HA	55:BR:104:ARG:NH1	2.28	0.49
56:BS:91:TYR:OH	56:BS:93:GLU:OE2	2.24	0.49
58:BU:43:VAL:O	58:BU:44:GLU:C	2.55	0.49
80:A6:577:G:H3'	80:A6:577:G:H8	1.76	0.49
80:A6:1596:C:OP1	31:Cd:16:LYS:HD3	2.12	0.49
6:CE:71:LYS:O	6:CE:90:ILE:HA	2.12	0.49
6:CE:159:THR:OG1	6:CE:160:VAL:N	2.46	0.49
7:CF:28:PRO:O	7:CF:29:ILE:HB	2.11	0.49
7:CF:143:ARG:HD3	30:Cc:55:VAL:HG11	1.94	0.49
11:CJ:3:ARG:N	11:CJ:3:ARG:HD3	2.28	0.49
11:CJ:117:GLY:C	11:CJ:119:ALA:H	2.19	0.49
12:CK:27:PHE:O	12:CK:28:ASN:HB2	2.11	0.49
12:CK:49:LEU:HB3	12:CK:55:VAL:CG1	2.42	0.49
20:CS:66:LEU:O	20:CS:70:VAL:HG23	2.12	0.49
36:A5:1048:A:H2'	47:DI:22:TYR:CZ	2.47	0.49
36:A5:1080:A:OP2	42:DD:140:ARG:NH2	2.45	0.49
36:A5:1944:U:H2'	36:A5:1945:A:C8	2.47	0.49
36:A5:2322:C:OP1	86:A5:3684:OHX:N6	2.45	0.49
36:A5:2850:G:O6	86:A5:3566:OHX:N3	2.46	0.49
40:DB:361:THR:HG22	40:DB:371:GLN:HB3	1.94	0.49
41:DC:148:ILE:HA	41:DC:149:PRO:C	2.37	0.49
48:DJ:10:ARG:HA	48:DJ:134:PRO:HD2	1.94	0.49
59:DV:57:MET:HE3	59:DV:126:TRP:CH2	2.47	0.49
63:DZ:124:ALA:O	63:DZ:126:LYS:N	2.45	0.49
1:A2:501:U:H4'	1:A2:502:U:OP1	2.11	0.49
1:A2:1114:G:O2'	1:A2:1130:G:O6	2.23	0.49
1:A2:1686:C:C5	1:A2:1687:U:C5	3.01	0.49
20:AS:11:PHE:C	20:AS:11:PHE:CD2	2.90	0.49
20:AS:22:VAL:CG1	20:AS:31:ALA:HB1	2.42	0.49
28:Aa:85:ARG:O	28:Aa:86:VAL:HB	2.12	0.49
30:Ac:26:THR:H	30:Ac:44:VAL:HG22	1.76	0.49
36:A1:1543:G:O6	86:A1:3603:OHX:N2	2.45	0.49
36:A1:2111:G:OP1	86:A1:3471:OHX:N6	2.45	0.49
36:A1:2677:G:H2'	36:A1:2679:A:H2	1.77	0.49
36:A1:2854:U:P	47:BI:3:ARG:HH22	2.35	0.49
36:A1:2895:G:C2'	36:A1:2896:A:H5''	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A1:3452:OHX:N2	86:A1:3750:OHX:N1	2.61	0.49
86:A1:3598:OHX:N6	86:A1:3722:OHX:N4	2.60	0.49
38:A4:83:C:H6	38:A4:83:C:H5''	1.78	0.49
38:A4:85:G:C8	38:A4:85:G:C3'	2.95	0.49
60:BW:35:LYS:O	60:BW:36:SER:C	2.55	0.49
63:BZ:51:LEU:HB2	63:BZ:65:ARG:HD2	1.94	0.49
80:A6:195:G:H2'	80:A6:196:G:C5'	2.43	0.49
80:A6:1227:A:H4'	80:A6:1228:G:H5'	1.95	0.49
80:A6:1344:A:O2'	80:A6:1345:A:OP1	2.27	0.49
80:A6:1418:G:P	18:CQ:128:LYS:HE3	2.53	0.49
4:CC:39:THR:O	4:CC:42:GLY:N	2.45	0.49
6:CE:139:VAL:HG13	6:CE:150:PRO:HG3	1.94	0.49
7:CF:61:TYR:OH	30:Cc:52:ASP:OD1	2.29	0.49
11:CJ:150:LEU:C	11:CJ:152:SER:H	2.20	0.49
36:A5:94:G:H2'	36:A5:95:A:C8	2.47	0.49
36:A5:1295:G:H2'	36:A5:1296:C:C6	2.47	0.49
36:A5:1307:G:OP2	52:DO:59[A]:ARG:NH1	2.45	0.49
36:A5:1874:A:H5''	55:DR:18:GLY:HA3	1.94	0.49
36:A5:2580:A:O2'	86:A5:3645:OHX:N1	2.44	0.49
36:A5:2730:G:H4'	54:DQ:184:PHE:CG	2.46	0.49
86:A5:3514:OHX:N5	86:A7:209:OHX:N4	2.59	0.49
37:A7:100:C:P	56:DS:52:LYS:HZ2	2.35	0.49
41:DC:44:LYS:HB3	41:DC:47:ARG:NH1	2.28	0.49
43:DE:55:LEU:HD12	43:DE:64:LEU:HD13	1.94	0.49
44:DF:157:ASN:O	44:DF:159:GLN:N	2.39	0.49
48:DJ:152:HIS:O	48:DJ:153:LYS:HB3	2.11	0.49
52:DO:61[A]:ALA:HA	52:DO:70[A]:PRO:HD2	1.94	0.49
59:DV:45:ARG:O	59:DV:46:LEU:C	2.55	0.49
63:DZ:80:LEU:O	63:DZ:82:PRO:HD3	2.11	0.49
70:Dg:42:PRO:HG2	70:Dg:54:ILE:HG22	1.94	0.49
83:Dq:25:LEU:HD13	83:Dq:88:PHE:CE2	2.47	0.49
1:A2:329:G:H5''	10:AI:98:LYS:HB3	1.94	0.49
1:A2:498:G:C4	1:A2:499:U:N3	2.81	0.49
1:A2:1132:A:OP1	25:AX:30:LYS:HE3	2.12	0.49
1:A2:1156:C:OP1	86:A2:2081:OHX:N2	2.45	0.49
1:A2:1622:G:H2'	1:A2:1623:C:C6	2.47	0.49
6:AE:163:ASP:O	6:AE:164:LEU:HB2	2.11	0.49
12:AK:55:VAL:HA	12:AK:69:THR:HG23	1.94	0.49
14:AM:29:LYS:HE2	14:AM:100:TRP:HE1	1.78	0.49
21:AT:63:ARG:HD2	21:AT:67:MET:HE1	1.94	0.49
36:A1:1667:A:H2'	36:A1:1668:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A1:3478:OHX:N4	86:A1:3788:OHX:N2	2.60	0.49
86:A1:3516:OHX:N6	86:A1:3718:OHX:N2	2.60	0.49
42:BD:261:THR:H	42:BD:264:GLN:CG	2.22	0.49
48:BJ:108:GLU:HA	48:BJ:122:ILE:HG22	1.93	0.49
54:BQ:161:LYS:O	54:BQ:162:ALA:CB	2.59	0.49
77:Bn:22:ALA:C	77:Bn:24:SER:H	2.21	0.49
80:A6:219:A:N6	80:A6:843:U:C2	2.80	0.49
80:A6:454:U:C6	6:CE:66:MET:HG3	2.48	0.49
80:A6:825:U:O2'	80:A6:826:U:P	2.71	0.49
80:A6:1133:A:H2'	80:A6:1134:C:O4'	2.13	0.49
80:A6:1650:U:H2'	80:A6:1651:A:C8	2.47	0.49
4:CC:140:ARG:NH2	4:CC:226:THR:OG1	2.46	0.49
6:CE:92:LEU:HB2	6:CE:95:THR:CG2	2.43	0.49
7:CF:59:VAL:C	7:CF:61:TYR:H	2.21	0.49
8:CG:74:LYS:O	8:CG:75:LEU:HD23	2.12	0.49
15:CN:20:ARG:HH11	15:CN:20:ARG:CG	2.26	0.49
21:CT:117:SER:HB3	21:CT:120:GLY:O	2.13	0.49
23:CV:40:ASP:HB3	23:CV:46:ILE:HD11	1.92	0.49
36:A5:629:U:H2'	36:A5:630:A:C8	2.48	0.49
36:A5:662:U:H2'	36:A5:663:C:C6	2.47	0.49
36:A5:690:A:H4'	36:A5:691:A:OP1	2.13	0.49
36:A5:2960:C:H2'	36:A5:2961:G:C8	2.48	0.49
36:A5:3066:U:O4	86:A5:3618:OHX:N4	2.45	0.49
37:A7:23:A:H2'	37:A7:24:A:C8	2.47	0.49
38:A8:26:U:H2'	38:A8:27:U:C6	2.47	0.49
43:DE:40:LEU:HD13	43:DE:84:VAL:HG11	1.94	0.49
44:DF:229:PHE:C	44:DF:229:PHE:CD1	2.91	0.49
1:A2:507:U:O2	1:A2:507:U:H3'	2.13	0.49
1:A2:978:A:OP1	86:A2:2062:OHX:N5	2.45	0.49
1:A2:1156:C:C2'	1:A2:1157:A:H5'	2.43	0.49
1:A2:1277:G:O2'	5:AD:174:HIS:ND1	2.38	0.49
1:A2:1446:A:OP1	86:A2:2086:OHX:N2	2.46	0.49
2:AA:163:ASN:C	2:AA:165:ARG:H	2.18	0.49
3:AB:22:ASP:O	3:AB:24:PHE:N	2.46	0.49
4:AC:183:ALA:HB1	4:AC:211:LEU:HD21	1.95	0.49
11:AJ:117:GLY:C	11:AJ:119:ALA:H	2.17	0.49
21:AT:52:GLY:HA2	21:AT:55:TYR:CD2	2.48	0.49
34:Ag:156:VAL:HG22	34:Ag:169:ILE:HG22	1.95	0.49
36:A1:655:C:OP1	68:Be:27:ARG:HB3	2.12	0.49
36:A1:1221:A:H3'	36:A1:1222:G:C5'	2.42	0.49
36:A1:1286:A:N3	36:A1:1287:A:H1'	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1481:A:H2'	36:A1:1858:A:H1'	1.94	0.49
36:A1:1942:U:HO2'	36:A1:3345:G:HO2'	1.58	0.49
36:A1:2538:U:H4'	36:A1:2539:C:OP2	2.11	0.49
36:A1:3206:C:O2	56:BS:155:ARG:NH1	2.45	0.49
36:A1:3278:C:H2'	36:A1:3278:C:O2	2.12	0.49
86:A1:3432:OHX:N5	86:A1:3798:OHX:N3	2.60	0.49
86:A1:3509:OHX:N1	86:A1:3746:OHX:N2	2.59	0.49
41:BC:36:HIS:O	41:BC:40:THR:HG23	2.12	0.49
41:BC:269:SER:C	41:BC:271:LYS:H	2.20	0.49
58:BU:49:ASN:O	58:BU:51:GLY:N	2.36	0.49
66:Bc:9:SER:OG	66:Bc:10:ILE:N	2.45	0.49
66:Bc:54:SER:HB3	70:Bg:94:LEU:HD13	1.95	0.49
80:A6:538:A:C8	80:A6:543:C:N4	2.75	0.49
80:A6:913:G:H3'	80:A6:914:G:C5'	2.42	0.49
80:A6:947:U:H2'	80:A6:948:G:C8	2.47	0.49
80:A6:1620:C:HO2'	80:A6:1621:U:P	2.35	0.49
6:CE:65:LEU:HD23	6:CE:70:VAL:HG13	1.95	0.49
9:CH:74:GLN:O	9:CH:78:THR:HG23	2.13	0.49
20:CS:70:VAL:O	20:CS:74:GLN:HG2	2.13	0.49
21:CT:25:GLN:HG3	21:CT:27:LYS:HD2	1.93	0.49
26:CY:29:HIS:CD2	26:CY:29:HIS:N	2.80	0.49
81:Ch:49:LYS:NZ	81:Ch:53:ARG:HH12	2.09	0.49
36:A5:273:A:N7	86:A5:3579:OHX:N3	2.61	0.49
36:A5:1097:G:H4'	36:A5:1098:A:O5'	2.12	0.49
36:A5:1098:A:O2'	57:DT:130:ARG:O	2.22	0.49
36:A5:2279:A:O2'	86:A5:3681:OHX:N2	2.45	0.49
36:A5:2702:A:H5'	36:A5:2704:A:O4'	2.13	0.49
36:A5:3274:A:H3'	36:A5:3275:U:H5''	1.94	0.49
36:A5:3330:A:H5''	36:A5:3330:A:C8	2.42	0.49
39:DA:202:VAL:HG23	39:DA:211:HIS:HB3	1.95	0.49
45:DG:97:TYR:O	45:DG:132:VAL:HG13	2.13	0.49
45:DG:150:LEU:HD22	45:DG:151:VAL:H	1.77	0.49
54:DQ:46:LYS:O	54:DQ:50:LYS:HG3	2.11	0.49
56:DS:26:ARG:NH1	57:DT:150:THR:HG21	2.26	0.49
56:DS:155:ARG:NH2	56:DS:172:TYR:N	2.61	0.49
62:DY:39:LEU:HD21	62:DY:107:THR:O	2.13	0.49
66:Dc:25:LEU:HD22	66:Dc:90:VAL:HG22	1.93	0.49
1:A2:190:C:H1'	1:A2:191:C:H5'	1.93	0.49
1:A2:489:C:H2'	1:A2:490:C:C6	2.48	0.49
1:A2:710:U:HO2'	1:A2:729:G:H1	1.61	0.49
1:A2:1369:U:O4	86:A2:1975:OHX:N5	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A2:1975:OHX:N3	86:A2:1989:OHX:N1	2.60	0.49
3:AB:61:LEU:HD13	3:AB:61:LEU:H	1.77	0.49
7:AF:120:ILE:O	7:AF:124:LEU:HD12	2.13	0.49
9:AH:23:ALA:O	9:AH:27:LEU:HG	2.12	0.49
11:AJ:175:ARG:HD3	11:AJ:179:ARG:HH11	1.78	0.49
15:AN:22:ALA:HB1	15:AN:23:PRO:C	2.38	0.49
17:AP:81:ARG:HH12	17:AP:120:SER:HB3	1.78	0.49
24:AW:36:LYS:O	24:AW:40:VAL:HG23	2.13	0.49
36:A1:637:C:H2'	36:A1:638:C:H6	1.73	0.49
36:A1:1017:C:H1'	36:A1:1018:G:OP2	2.12	0.49
36:A1:1237:G:H2'	36:A1:1237:G:N3	2.28	0.49
86:A1:3562:OHX:N2	86:A1:3748:OHX:N5	2.60	0.49
45:BG:148:ALA:HA	45:BG:201:THR:HG22	1.94	0.49
48:BJ:73:GLY:O	48:BJ:75:LYS:N	2.46	0.49
64:Ba:85:ASP:OD1	64:Ba:86:LYS:N	2.46	0.49
69:Bf:59:VAL:C	69:Bf:61:GLY:H	2.21	0.49
80:A6:648:G:C2	80:A6:687:G:C2	3.00	0.49
80:A6:824:G:C8	86:A6:2100:OHX:N5	2.81	0.49
80:A6:1274:C:H4'	80:A6:1275:A:O5'	2.12	0.49
2:CA:84:ARG:HH21	2:CA:201:LEU:HD12	1.78	0.49
4:CC:178:ILE:HB	4:CC:185:LYS:HG2	1.94	0.49
13:CL:5:LEU:HD23	13:CL:7:VAL:HA	1.95	0.49
36:A5:860:G:OP1	79:Dp:17:ARG:NH1	2.46	0.49
36:A5:1475:A:H4'	67:Dd:57:GLN:HG2	1.95	0.49
36:A5:1824:U:OP1	74:Dk:3:ARG:NH2	2.46	0.49
36:A5:3259:U:C6	36:A5:3259:U:H5'	2.47	0.49
38:A8:143:U:OP1	51:DN:38:ARG:NH2	2.42	0.49
41:DC:98:ARG:HD2	41:DC:99:MET:O	2.13	0.49
55:DR:154:ALA:O	55:DR:158:GLU:HG2	2.13	0.49
59:DV:80:ARG:HD3	59:DV:117:PRO:O	2.13	0.49
75:Dl:44:TRP:CH2	75:Dl:45:ARG:HG3	2.47	0.49
1:A2:1196:A:H1'	1:A2:1602:C:O2'	2.13	0.49
1:A2:1236:A:C1'	33:Af:138:ARG:HH22	2.26	0.49
7:AF:21:THR:O	7:AF:21:THR:OG1	2.31	0.49
14:AM:132:GLU:O	14:AM:136:ILE:HG12	2.13	0.49
24:AW:82:LYS:HB2	24:AW:85:ASP:OD2	2.12	0.49
28:Aa:37:LYS:C	28:Aa:38:ARG:HD2	2.38	0.49
36:A1:3156:U:HO2'	36:A1:3157:U:C5'	2.25	0.49
86:A1:3550:OHX:N3	86:A1:3673:OHX:N1	2.60	0.49
40:BB:53:MET:HE2	40:BB:77:THR:CG2	2.41	0.49
41:BC:35:VAL:HG21	41:BC:244:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BH:189:GLU:C	46:BH:191:LEU:H	2.21	0.49
47:BI:187:ALA:C	86:BI:304:OHX:N5	2.71	0.49
56:BS:106:LEU:HD23	56:BS:106:LEU:C	2.38	0.49
58:BU:19:VAL:O	58:BU:23:THR:OG1	2.29	0.49
58:BU:22:PRO:HG3	58:BU:93:ILE:HG21	1.95	0.49
80:A6:449:C:OP1	6:CE:29:PRO:O	2.31	0.49
80:A6:885:G:N3	16:CO:123:SER:OG	2.45	0.49
80:A6:1208:A:N1	80:A6:1455:G:N2	2.58	0.49
80:A6:1537:C:N4	86:A6:2016:OHX:N5	2.58	0.49
2:CA:74:VAL:HG12	2:CA:76:ILE:HG12	1.93	0.49
5:CD:90:ARG:O	5:CD:91:VAL:HB	2.12	0.49
16:CO:127:ARG:HG3	16:CO:127:ARG:HH11	1.78	0.49
22:CU:102:ARG:HG3	22:CU:103:ILE:N	2.27	0.49
34:Cg:255:ALA:HB2	34:Cg:292:LEU:HD21	1.95	0.49
36:A5:132:C:C4	36:A5:134:U:H5	2.30	0.49
36:A5:217:U:H2'	36:A5:218:G:OP1	2.13	0.49
36:A5:1573:G:C5	36:A5:1574:C:H1'	2.48	0.49
36:A5:1831:U:P	61:DX:92:LYS:HG3	2.52	0.49
36:A5:3214:U:C4	50:DM:121:MET:HG3	2.47	0.49
36:A5:3335:A:H5'	36:A5:3335:A:H8	1.78	0.49
47:DI:38:LYS:HG3	47:DI:41:ALA:HB2	1.95	0.49
47:DI:81:GLY:C	47:DI:83:ASP:H	2.21	0.49
52:DO:37[A]:ARG:HG3	52:DO:108[A]:ILE:HG22	1.94	0.49
60:DW:82:ILE:O	60:DW:82:ILE:HG22	2.13	0.49
65:Db:39:PHE:C	65:Db:39:PHE:CD2	2.90	0.49
86:A2:1906:OHX:N5	86:AC:301:OHX:N3	2.60	0.49
8:AG:126:ASP:OD2	8:AG:127:THR:HG22	2.13	0.49
9:AH:167:GLU:HG3	9:AH:170:GLN:OE1	2.11	0.49
12:AK:49:LEU:HB3	12:AK:55:VAL:CG1	2.42	0.49
16:AO:122:PRO:C	16:AO:124:ASP:N	2.71	0.49
16:AO:124:ASP:O	16:AO:125:SER:HB2	2.13	0.49
34:Ag:153:GLN:HG2	34:Ag:202:LEU:HD23	1.95	0.49
36:A1:326:U:OP1	49:BL:31:LYS:NZ	2.44	0.49
36:A1:562:C:H2'	36:A1:563:U:H6	1.78	0.49
36:A1:2777:G:H8	36:A1:2777:G:C3'	2.11	0.49
86:A1:3604:OHX:N2	86:A1:3816:OHX:N5	2.60	0.49
37:A3:13:A:H3'	37:A3:14:U:H5'	1.95	0.49
41:BC:162:THR:HA	41:BC:218:ALA:O	2.12	0.49
42:BD:196:ARG:HA	42:BD:199:ILE:HD12	1.95	0.49
44:BF:203:TRP:CD1	44:BF:204:PRO:HD2	2.48	0.49
46:BH:171:ASP:OD2	46:BH:173:ARG:NH1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BL:132:ALA:O	49:BL:134:GLU:N	2.45	0.49
53:BP:67:ILE:HD11	53:BP:82:ARG:NH1	2.27	0.49
53:BP:116:HIS:HB3	53:BP:149:VAL:HB	1.93	0.49
67:Bd:10:ARG:NH1	67:Bd:44:MET:HE1	2.26	0.49
80:A6:187:G:H4'	80:A6:188:A:OP1	2.12	0.49
80:A6:425:A:H5'	80:A6:425:A:H8	1.78	0.49
80:A6:825:U:C5	86:A6:2100:OHX:N3	2.81	0.49
80:A6:1237:G:H2'	80:A6:1238:A:C8	2.48	0.49
80:A6:1357:A:H2'	80:A6:1358:G:H8	1.77	0.49
80:A6:1387:G:OP1	19:CR:32:LYS:NZ	2.46	0.49
80:A6:1683:C:H2'	80:A6:1684:U:O4'	2.13	0.49
5:CD:80:ALA:O	5:CD:83:THR:OG1	2.29	0.49
34:Cg:157:VAL:HB	34:Cg:168:THR:HG22	1.95	0.49
36:A5:1018:G:H2'	36:A5:1019:G:O4'	2.13	0.49
38:A8:66:A:H2'	38:A8:67:U:H6	1.78	0.49
52:DO:27[A]:LEU:O	52:DO:101[A]:ARG:NH1	2.45	0.49
52:DO:171[A]:LYS:O	52:DO:175[A]:THR:HG22	2.12	0.49
53:DP:122:ALA:HB3	53:DP:143:PRO:HB2	1.94	0.49
59:DV:13:ILE:CD1	59:DV:53:SER:HB2	2.42	0.49
76:Dm:106:ARG:HB2	76:Dm:106:ARG:NH1	2.23	0.49
1:A2:279:G:H3'	1:A2:279:G:C8	2.48	0.49
1:A2:1686:C:O2'	1:A2:1687:U:O4'	2.30	0.49
1:A2:1729:C:H5''	1:A2:1730:A:OP2	2.12	0.49
3:AB:70:LEU:HD11	3:AB:79:HIS:HB3	1.94	0.49
3:AB:109:LYS:HD2	3:AB:113:MET:HG3	1.94	0.49
4:AC:148:LEU:O	23:AV:4:ASP:HB2	2.12	0.49
20:AS:32:LEU:O	20:AS:38:VAL:HG21	2.12	0.49
21:AT:33:TYR:C	21:AT:33:TYR:HD1	2.21	0.49
23:AV:40:ASP:HB3	23:AV:46:ILE:HD11	1.94	0.49
26:AY:15:ASN:OD1	26:AY:17:LEU:HD12	2.12	0.49
28:Aa:38:ARG:HH21	28:Aa:83:ILE:HG13	1.78	0.49
28:Aa:84:VAL:HG13	28:Aa:85:ARG:H	1.78	0.49
34:Ag:29:GLN:HG3	34:Ag:32:LEU:HB2	1.93	0.49
36:A1:873:C:H5''	36:A1:874:U:O5'	2.13	0.49
36:A1:1674:G:OP2	86:A1:3492:OHX:N2	2.46	0.49
36:A1:2554:A:C8	36:A1:2554:A:H5'	2.47	0.49
36:A1:3148:U:O4	86:A1:3659:OHX:N2	2.46	0.49
36:A1:3275:U:H5'	69:Bf:68:TRP:HZ2	1.77	0.49
86:A1:3607:OHX:N6	86:A1:3789:OHX:N4	2.60	0.49
50:BM:121:MET:HE2	50:BM:125:LYS:NZ	2.28	0.49
53:BP:88:VAL:O	53:BP:92:GLN:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:BU:51:GLY:O	58:BU:52:ASN:ND2	2.38	0.49
78:Bo:73:GLU:OE1	78:Bo:80:ARG:NH2	2.34	0.49
80:A6:199:G:HO2'	80:A6:200:A:H8	1.60	0.49
80:A6:355:G:OP2	86:A6:1923:OHX:N5	2.46	0.49
80:A6:654:C:H2'	80:A6:655:G:C8	2.47	0.49
80:A6:1373:C:H2'	80:A6:1374:C:C6	2.47	0.49
80:A6:1432:U:H4'	80:A6:1433:G:H5''	1.95	0.49
80:A6:1467:C:H2'	80:A6:1468:U:H6	1.78	0.49
2:CA:23:HIS:CE1	2:CA:24:LEU:HD13	2.48	0.49
3:CB:23:PRO:O	3:CB:26:ARG:HB3	2.13	0.49
3:CB:47:LEU:O	16:CO:37:GLU:HG3	2.13	0.49
6:CE:11:ARG:HB2	6:CE:27:TYR:C	2.38	0.49
7:CF:222:LYS:HA	7:CF:225:ARG:NH1	2.21	0.49
11:CJ:108:ARG:HB2	11:CJ:111:THR:HG23	1.95	0.49
13:CL:26:LYS:HD2	13:CL:27:THR:N	2.28	0.49
21:CT:33:TYR:O	21:CT:35:ASP:N	2.43	0.49
39:DA:242:ARG:NH1	39:DA:246:LEU:HD12	2.28	0.49
45:DG:57:ARG:O	45:DG:61:GLN:HG3	2.13	0.49
52:DO:108[A]:ILE:HD11	52:DO:113[A]:ASP:HA	1.95	0.49
55:DR:167:ARG:HB3	55:DR:167:ARG:NH1	2.28	0.49
58:DU:23:THR:HA	58:DU:28:PHE:HB3	1.95	0.49
60:DW:35:LYS:O	60:DW:39:LEU:HD22	2.13	0.49
65:Db:21:ILE:O	65:Db:22:LYS:C	2.55	0.49
66:Dc:99:ASP:O	66:Dc:102:THR:N	2.40	0.49
68:De:105:ARG:HE	68:De:124:GLY:HA3	1.78	0.49
78:Do:93:LEU:H	78:Do:93:LEU:HD12	1.77	0.49
1:A2:143:G:C2'	1:A2:144:U:H5''	2.44	0.48
1:A2:350:U:O2	1:A2:352:A:C6	2.66	0.48
1:A2:1046:G:OP1	3:AB:157:GLN:NE2	2.45	0.48
1:A2:1446:A:H2'	86:A2:2086:OHX:N2	2.28	0.48
1:A2:1553:G:N2	1:A2:1555:A:H3'	2.28	0.48
86:A2:1975:OHX:N6	86:A2:1989:OHX:N5	2.61	0.48
7:AF:129:PRO:O	7:AF:133:VAL:HG23	2.13	0.48
8:AG:141:ILE:HG21	8:AG:153:VAL:HG13	1.94	0.48
21:AT:53:TRP:HA	21:AT:56:LYS:HB2	1.95	0.48
34:Ag:112:SER:CB	34:Ag:153:GLN:HA	2.43	0.48
36:A1:551:A:C4	36:A1:552:G:C8	3.01	0.48
36:A1:1820:U:O2'	36:A1:1821:U:OP2	2.26	0.48
36:A1:1844:C:C2'	36:A1:1845:G:H5''	2.42	0.48
36:A1:2611:U:H2'	36:A1:2612:U:H6	1.75	0.48
36:A1:2617:U:H3'	65:Bb:3:LYS:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3275:U:H5'	69:Bf:68:TRP:CZ2	2.47	0.48
36:A1:3344:A:H2	36:A1:3361:G:N2	2.09	0.48
39:BA:77:ILE:CD1	39:BA:128:ARG:HB3	2.43	0.48
40:BB:216:ASP:CG	40:BB:278:ILE:HG22	2.38	0.48
61:BX:105:VAL:HG11	61:BX:126:LEU:HD13	1.94	0.48
72:Bi:90:MET:O	72:Bi:94:ILE:HG13	2.13	0.48
80:A6:488:G:H2'	80:A6:498:G:O6	2.13	0.48
80:A6:1392:U:H2'	80:A6:1393:C:C6	2.48	0.48
80:A6:1533:C:OP2	27:CZ:77:ARG:NH1	2.30	0.48
86:A6:1933:OHX:N2	86:A6:2068:OHX:N5	2.61	0.48
86:A6:1983:OHX:N5	86:Cd:101:OHX:N3	2.61	0.48
9:CH:61:PHE:HA	9:CH:93:LEU:O	2.13	0.48
9:CH:166:LEU:C	9:CH:168:SER:N	2.69	0.48
11:CJ:104:PHE:O	11:CJ:147:MET:HE1	2.13	0.48
13:CL:30:ARG:H	13:CL:30:ARG:HG2	1.34	0.48
21:CT:39:THR:O	21:CT:96:ALA:HB1	2.13	0.48
22:CU:48:HIS:ND1	22:CU:48:HIS:O	2.46	0.48
27:CZ:60:VAL:HA	27:CZ:64:VAL:HG21	1.93	0.48
36:A5:36:C:H2'	36:A5:37:U:H5'	1.94	0.48
36:A5:528:U:H2'	36:A5:529:A:H8	1.78	0.48
36:A5:770:G:N7	86:A5:3609:OHX:N6	2.60	0.48
36:A5:944:C:H4'	68:De:33:ARG:HH11	1.78	0.48
36:A5:1630:U:OP1	63:DZ:67:LYS:NZ	2.46	0.48
86:A5:3439:OHX:N5	38:A8:17:A:OP1	2.45	0.48
49:DL:16:LYS:O	49:DL:17:HIS:HB2	2.13	0.48
52:DO:62[B]:THR:HG21	52:DO:68[B]:ARG:HG3	1.95	0.48
71:Dh:118:ILE:O	71:Dh:119:LYS:HB2	2.12	0.48
73:Dj:21:ARG:HD2	73:Dj:37:CYS:SG	2.52	0.48
1:A2:383:G:N7	86:A2:2013:OHX:N4	2.61	0.48
1:A2:393:C:H2'	1:A2:394:C:C6	2.48	0.48
1:A2:694:U:H2'	1:A2:695:U:H5	1.78	0.48
1:A2:765:G:C6	11:AJ:149:ARG:HB3	2.47	0.48
1:A2:1253:U:H2'	1:A2:1254:U:C6	2.48	0.48
1:A2:1522:U:OP1	86:A2:1937:OHX:N3	2.46	0.48
1:A2:1639:C:O2	1:A2:1763:A:N1	2.46	0.48
86:A2:1983:OHX:N2	86:A2:2082:OHX:N4	2.60	0.48
3:AB:77:GLU:C	3:AB:79:HIS:H	2.21	0.48
17:AP:15:HIS:O	17:AP:21:ASP:HA	2.12	0.48
20:AS:24:GLY:O	20:AS:26:ILE:N	2.45	0.48
27:AZ:40:VAL:C	27:AZ:75:LEU:HD11	2.38	0.48
36:A1:561:C:H2'	36:A1:562:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1016:C:O2'	36:A1:1028:U:H5'	2.13	0.48
36:A1:2846:U:O2'	86:A1:3622:OHX:N2	2.46	0.48
36:A1:3169:U:O2'	36:A1:3170:A:OP1	2.27	0.48
36:A1:3184:A:OP2	52:BO:12[B]:LYS:NZ	2.46	0.48
36:A1:3279:A:N6	36:A1:3280:U:O4	2.46	0.48
38:A4:120:C:H2'	38:A4:121:U:O4'	2.14	0.48
42:BD:68:THR:CG2	42:BD:70:THR:H	2.26	0.48
80:A6:291:G:H2'	80:A6:292:U:C6	2.47	0.48
80:A6:437:A:H8	80:A6:437:A:O5'	1.95	0.48
80:A6:764:U:OP2	11:CJ:78:ARG:NH1	2.46	0.48
80:A6:1681:A:H2	80:A6:1720:G:N2	2.07	0.48
80:A6:1789:G:H5''	80:A6:1789:G:H8	1.78	0.48
15:CN:78:ASN:HB3	15:CN:80:LEU:HD22	1.94	0.48
26:CY:15:ASN:HD22	26:CY:22:GLN:NE2	2.11	0.48
27:CZ:66:VAL:HA	27:CZ:71:ILE:HG22	1.95	0.48
36:A5:173:G:O2'	36:A5:174:C:H6	1.96	0.48
36:A5:901:G:N7	86:A5:3491:OHX:N4	2.60	0.48
36:A5:2228:A:H5''	36:A5:2228:A:H8	1.78	0.48
36:A5:2799:A:H1'	64:Da:42:ARG:HH21	1.77	0.48
36:A5:2947:G:N3	40:DB:250:ALA:HB1	2.27	0.48
38:A8:82:U:H1'	38:A8:87:G:H5'	1.95	0.48
41:DC:141:ARG:CZ	41:DC:180:LYS:HD3	2.43	0.48
41:DC:302:ALA:HB2	54:DQ:39:ARG:NH1	2.26	0.48
42:DD:148:ILE:HG13	42:DD:159:VAL:HG11	1.96	0.48
43:DE:3:ALA:HB1	68:De:75:LEU:HD13	1.95	0.48
43:DE:89:THR:HG21	50:DM:115:PHE:HB2	1.94	0.48
66:Dc:39:SER:C	66:Dc:40:LYS:HD2	2.38	0.48
77:Dn:9:ARG:HG3	77:Dn:9:ARG:NH1	2.25	0.48
1:A2:192:U:O2	1:A2:192:U:H2'	2.13	0.48
1:A2:358:U:O2'	1:A2:360:A:H5''	2.13	0.48
1:A2:495:C:H3'	1:A2:496:G:C4'	2.43	0.48
1:A2:992:A:O2'	1:A2:1785:U:O2	2.31	0.48
1:A2:1202:A:H61	1:A2:1457:C:H5''	1.76	0.48
1:A2:1244:A:O2'	1:A2:1245:G:OP1	2.29	0.48
1:A2:1746:A:H2'	1:A2:1747:G:O4'	2.13	0.48
86:A2:1918:OHX:N4	86:A2:2067:OHX:N4	2.62	0.48
14:AM:123:VAL:HG11	14:AM:126:TRP:HB3	1.94	0.48
33:Af:120:GLU:HG3	33:Af:128:ALA:HB1	1.94	0.48
36:A1:200:C:OP1	62:BY:60:ARG:NH1	2.46	0.48
36:A1:726:G:H8	36:A1:726:G:H5'	1.77	0.48
36:A1:1017:C:OP2	36:A1:1017:C:H2'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1549:U:H2'	36:A1:1550:C:C6	2.48	0.48
44:BF:120:THR:HB	57:BT:132:PRO:HB2	1.95	0.48
59:BV:89:ASP:OD1	59:BV:91:VAL:HG13	2.12	0.48
60:BW:8:PHE:CD2	60:BW:46:PRO:HG3	2.49	0.48
76:Bm:114:LYS:HG2	76:Bm:115:CYS:N	2.27	0.48
80:A6:163:G:H4'	8:CG:53:SER:OG	2.12	0.48
80:A6:488:G:H21	80:A6:499:U:H3	1.57	0.48
2:CA:140:ASN:ND2	4:CC:62:PRO:HD3	2.28	0.48
5:CD:133:GLY:HA2	5:CD:155:GLY:HA3	1.93	0.48
11:CJ:124:HIS:CE1	11:CJ:128:LEU:HD11	2.49	0.48
18:CQ:79:TYR:O	18:CQ:82:ARG:HG2	2.13	0.48
29:Cb:81:ARG:O	29:Cb:82:LYS:HG3	2.13	0.48
34:Cg:106:HIS:CD2	34:Cg:126:SER:HB2	2.48	0.48
34:Cg:236:ALA:O	34:Cg:261:LYS:NZ	2.46	0.48
36:A5:1536:G:N7	86:A5:3437:OHX:N2	2.62	0.48
36:A5:1940:G:OP1	55:DR:80:LYS:HE2	2.13	0.48
36:A5:2263:C:H2'	36:A5:2264:U:H5'	1.96	0.48
36:A5:3379:C:H4'	40:DB:315:GLY:HA2	1.95	0.48
42:DD:110:LEU:HA	42:DD:113:LEU:HB2	1.96	0.48
57:DT:17:ARG:HD2	57:DT:47:SER:HB3	1.96	0.48
60:DW:127:LYS:O	60:DW:131:ALA:N	2.45	0.48
63:DZ:54:THR:HG22	63:DZ:57:HIS:CE1	2.48	0.48
66:Dc:30:THR:HB	66:Dc:91:SER:HB2	1.95	0.48
1:A2:190:C:O2'	1:A2:191:C:H5'	2.14	0.48
1:A2:768:C:C6	11:AJ:143:ILE:HD13	2.49	0.48
1:A2:1133:A:OP1	25:AX:31:LYS:HE2	2.13	0.48
1:A2:1258:U:H5'	12:AK:1:MET:O	2.14	0.48
1:A2:1657:U:C4	86:A2:1969:OHX:N4	2.82	0.48
3:AB:62:LYS:HD2	3:AB:91:VAL:HB	1.94	0.48
10:AI:26:LYS:O	10:AI:26:LYS:HG3	2.12	0.48
13:AL:22:ASN:OD1	13:AL:24:LYS:HB2	2.14	0.48
14:AM:82:PRO:O	14:AM:83:GLU:HB2	2.13	0.48
19:AR:82:ASP:O	19:AR:83:GLN:HB2	2.12	0.48
33:Af:147:VAL:O	33:Af:148:TYR:HB2	2.14	0.48
34:Ag:130:THR:HG22	34:Ag:145:LEU:HD22	1.94	0.48
36:A1:1240:A:N6	36:A1:1244:A:H5''	2.27	0.48
36:A1:1506:A:H1'	36:A1:1848:G:O6	2.13	0.48
36:A1:1845:G:H8	36:A1:1845:G:C5'	2.27	0.48
36:A1:2529:A:C2	36:A1:2582:C:C2	3.01	0.48
36:A1:2717:U:OP1	86:A1:3527:OHX:N6	2.45	0.48
36:A1:2883:U:H2'	36:A1:2884:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3006:A:H2'	36:A1:3007:U:O4'	2.13	0.48
86:A1:3414:OHX:N5	86:A1:3812:OHX:N6	2.61	0.48
40:BB:293:ASN:HB3	40:BB:305:ILE:HG13	1.95	0.48
42:BD:111:GLN:O	42:BD:113:LEU:N	2.46	0.48
78:Bo:17:CYS:SG	78:Bo:77:CYS:SG	3.12	0.48
80:A6:689:G:O6	86:A6:2096:OHX:N2	2.46	0.48
80:A6:1098:U:H5''	80:A6:1098:U:H6	1.78	0.48
80:A6:1154:G:H5''	80:A6:1154:G:H8	1.78	0.48
80:A6:1491:U:H4'	80:A6:1492:A:H5''	1.96	0.48
7:CF:161:ASP:OD2	30:Cc:42:ARG:NH1	2.47	0.48
11:CJ:114:TYR:HD1	11:CJ:121:SER:H	1.60	0.48
31:Cd:18:SER:O	31:Cd:19:ARG:HB2	2.13	0.48
36:A5:959:C:OP2	36:A5:960:U:H5	1.96	0.48
36:A5:1236:G:N2	36:A5:1244:A:OP1	2.46	0.48
36:A5:1576:G:H5'	36:A5:1577:G:OP2	2.12	0.48
36:A5:2206:G:O2'	36:A5:2207:A:H5'	2.13	0.48
86:A5:3548:OHX:N1	86:A5:3595:OHX:N4	2.62	0.48
39:DA:48:ILE:HD13	79:Dp:65:ALA:HB2	1.95	0.48
41:DC:237:GLN:O	41:DC:246:ARG:HG3	2.12	0.48
47:DI:9:TYR:CG	47:DI:97:LEU:HD13	2.48	0.48
49:DL:27:ASP:CG	49:DL:31:LYS:HD2	2.38	0.48
49:DL:154:VAL:HG23	49:DL:157:ARG:HG2	1.94	0.48
57:DT:7:TYR:CZ	57:DT:54:HIS:HB2	2.49	0.48
83:Dq:40:GLU:HB2	83:Dq:104:ARG:HG3	1.94	0.48
1:A2:142:G:N2	1:A2:173:A:H2	2.00	0.48
1:A2:194:U:O2'	1:A2:195:G:O4'	2.30	0.48
1:A2:346:G:O2'	13:AL:80:MET:HG2	2.13	0.48
1:A2:526:A:H2'	1:A2:527:A:O4'	2.13	0.48
9:AH:158:ASP:O	9:AH:160:GLN:N	2.46	0.48
11:AJ:91:LYS:O	11:AJ:92:LYS:HG2	2.13	0.48
17:AP:110:GLU:HG3	20:AS:119:ILE:HD11	1.94	0.48
26:AY:59:GLY:O	26:AY:60:PHE:HB2	2.14	0.48
28:Aa:36:ILE:HG23	28:Aa:73:TYR:HB2	1.95	0.48
36:A1:1191:U:C5'	36:A1:1192:C:H5'	2.43	0.48
36:A1:1295:G:OP1	56:BS:84:ARG:HG3	2.13	0.48
36:A1:3139:A:C8	36:A1:3139:A:C5'	2.91	0.48
41:BC:205:PRO:HB3	41:BC:247:PHE:CD2	2.49	0.48
45:BG:149:LYS:O	45:BG:176:PRO:HG2	2.13	0.48
49:BL:190:LYS:HB2	49:BL:190:LYS:HE2	1.49	0.48
51:BN:37:HIS:HE1	51:BN:63:ARG:HD2	1.73	0.48
51:BN:53:TYR:HD1	51:BN:133:ILE:HD13	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BS:148:LEU:C	56:BS:149:LYS:HG2	2.38	0.48
59:BV:74:MET:HE3	59:BV:102:ILE:HB	1.95	0.48
73:Bj:60:GLY:O	86:Bj:102:OHX:N6	2.47	0.48
80:A6:542:A:H1'	80:A6:543:C:P	2.53	0.48
80:A6:765:G:O6	11:CJ:149:ARG:HG3	2.13	0.48
80:A6:875:G:H2'	80:A6:877:G:OP1	2.13	0.48
80:A6:1280:C:O2'	22:CU:70:THR:HG23	2.13	0.48
8:CG:67:VAL:O	8:CG:68:LEU:HB2	2.13	0.48
9:CH:63:PRO:O	9:CH:64:VAL:HB	2.14	0.48
27:CZ:46:LYS:HB2	27:CZ:46:LYS:HE3	1.58	0.48
36:A5:439:C:H4'	36:A5:440:A:OP1	2.12	0.48
36:A5:996:A:C2	36:A5:1054:A:C4	3.01	0.48
36:A5:2131:A:N6	79:Dp:18:TYR:H	2.12	0.48
36:A5:3346:U:H2'	36:A5:3347:A:O4'	2.13	0.48
38:A8:130:C:H2'	38:A8:131:A:C8	2.49	0.48
40:DB:339:ARG:HG2	40:DB:340:LYS:O	2.12	0.48
47:DI:100:ASN:O	47:DI:101:LYS:HB3	2.13	0.48
52:DO:42[B]:ASN:OD1	52:DO:125[B]:ARG:HD3	2.13	0.48
54:DQ:100:THR:CG2	54:DQ:120:GLU:HB3	2.43	0.48
63:DZ:121:ARG:HH11	63:DZ:121:ARG:CG	2.27	0.48
67:Dd:55:LEU:O	67:Dd:59:ILE:HG13	2.12	0.48
71:Dh:53:CYS:O	71:Dh:56:THR:HB	2.13	0.48
1:A2:11:A:C2'	1:A2:12:U:H5'	2.44	0.48
1:A2:700:C:H42	1:A2:738:G:H1	1.62	0.48
1:A2:738:G:O6	86:A2:1976:OHX:N4	2.46	0.48
1:A2:879:G:O2'	15:AN:105:ASN:HB3	2.13	0.48
1:A2:881:A:H2'	1:A2:882:U:O4'	2.13	0.48
1:A2:1203:A:OP2	86:A2:1992:OHX:N5	2.47	0.48
86:A2:1965:OHX:N2	86:A2:2029:OHX:N6	2.60	0.48
86:A2:2017:OHX:N5	86:A2:2037:OHX:N3	2.62	0.48
7:AF:24:VAL:HG22	7:AF:25:LEU:H	1.78	0.48
8:AG:67:VAL:HG23	8:AG:68:LEU:O	2.13	0.48
10:AI:96:LEU:HD13	10:AI:179:CYS:SG	2.53	0.48
17:AP:86:VAL:HG23	17:AP:87:PRO:HD2	1.96	0.48
18:AQ:123:ARG:HG3	18:AQ:124:PRO:HD2	1.96	0.48
86:A1:3471:OHX:N1	86:A1:3744:OHX:N2	2.61	0.48
86:A1:3479:OHX:N5	86:A1:3795:OHX:N1	2.62	0.48
86:A1:3479:OHX:N2	86:A1:3795:OHX:N1	2.62	0.48
86:A1:3512:OHX:N1	86:A1:3693:OHX:N2	2.61	0.48
38:A4:24:G:OP2	62:BY:13:ARG:HD3	2.12	0.48
40:BB:224:HIS:HB2	40:BB:270:ARG:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BB:284:ARG:HB3	40:BB:323:MET:HB3	1.96	0.48
45:BG:161:GLU:HA	45:BG:164:VAL:HG22	1.96	0.48
47:BI:218:ALA:HB3	86:BI:303:OHX:N4	2.29	0.48
48:BJ:110:ILE:C	48:BJ:112:LEU:H	2.21	0.48
49:BL:24:VAL:HG12	51:BN:199:LEU:HD12	1.95	0.48
62:BY:39:LEU:HA	62:BY:42:GLN:HB2	1.94	0.48
72:Bi:98:ARG:H	72:Bi:98:ARG:HD2	1.79	0.48
80:A6:823:G:C5	80:A6:824:G:C8	3.01	0.48
80:A6:1362:U:H1'	80:A6:1363:U:C4	2.49	0.48
80:A6:1762:A:H1'	80:A6:1783:C:H5'	1.94	0.48
6:CE:62:LYS:HE3	6:CE:66:MET:HE3	1.95	0.48
6:CE:106:LYS:HG3	6:CE:108:ARG:NH1	2.29	0.48
7:CF:25:LEU:HD21	7:CF:29:ILE:HD12	1.95	0.48
7:CF:43:PHE:CG	7:CF:44:ASN:N	2.82	0.48
7:CF:146:THR:CG2	7:CF:157:ARG:HB3	2.44	0.48
9:CH:73:VAL:HG12	9:CH:77:LEU:HB2	1.95	0.48
20:CS:68:ARG:HH11	20:CS:68:ARG:CG	2.25	0.48
23:CV:64:GLU:OE2	29:Cb:2:VAL:HG13	2.13	0.48
28:Ca:88:SER:O	28:Ca:92:ARG:HG3	2.14	0.48
36:A5:677:A:H4'	36:A5:678:G:O5'	2.14	0.48
36:A5:1017:C:OP1	36:A5:1017:C:H2'	2.13	0.48
36:A5:1307:G:H5''	52:DO:60[B]:LYS:NZ	2.29	0.48
36:A5:1517:G:OP1	75:DI:41:ARG:NH1	2.38	0.48
36:A5:2663:G:H5'	42:DD:152:ARG:HD3	1.95	0.48
36:A5:2846:U:O2	86:A5:3566:OHX:N5	2.47	0.48
86:A5:3606:OHX:N6	86:A5:3740:OHX:N2	2.60	0.48
37:A7:121:U:H5'	42:DD:260:PHE:CE2	2.49	0.48
40:DB:18:PRO:HG2	40:DB:20:LYS:HD2	1.95	0.48
40:DB:92:TYR:HB2	40:DB:157:VAL:HG22	1.95	0.48
41:DC:182:LEU:HD13	41:DC:182:LEU:HA	1.71	0.48
56:DS:171:PHE:O	56:DS:172:TYR:C	2.56	0.48
59:DV:2:SER:O	59:DV:57:MET:N	2.42	0.48
1:A2:139:C:O2'	8:AG:187:LYS:NZ	2.35	0.48
1:A2:545:A:H4'	1:A2:546:U:OP1	2.14	0.48
1:A2:730:G:H21	1:A2:731:C:H5''	1.78	0.48
1:A2:782:U:H4'	1:A2:783:G:OP2	2.14	0.48
1:A2:812:A:OP1	1:A2:858:G:N2	2.47	0.48
1:A2:1480:G:H3'	1:A2:1481:C:C6	2.49	0.48
1:A2:1715:G:O6	1:A2:1716:C:C4	2.56	0.48
86:A2:1970:OHX:N5	86:A2:2014:OHX:N2	2.61	0.48
3:AB:146:GLN:H	3:AB:149:GLN:NE2	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:139:ILE:HD11	4:AC:191:ALA:HB1	1.95	0.48
18:AQ:112:TYR:CZ	18:AQ:114:ARG:NH1	2.82	0.48
22:AU:65:ILE:HD11	31:Ad:36:LEU:HD21	1.96	0.48
36:A1:174:C:H2'	36:A1:175:C:C6	2.49	0.48
36:A1:212:G:H3'	41:BC:221:ASN:HD21	1.78	0.48
36:A1:249:U:H1'	36:A1:250:U:C2	2.49	0.48
36:A1:371:G:O6	86:A1:3756:OHX:N4	2.46	0.48
36:A1:398:A:C5	53:BP:3:ARG:NH2	2.78	0.48
36:A1:650:C:H2'	36:A1:651:G:H8	1.77	0.48
36:A1:1019:G:H2'	36:A1:1020:G:O4'	2.14	0.48
36:A1:1658:G:H2'	36:A1:1659:U:H6	1.79	0.48
36:A1:1874:A:H5''	55:BR:18:GLY:HA3	1.95	0.48
86:A1:3467:OHX:N2	86:BA:301:OHX:N4	2.61	0.48
86:A1:3471:OHX:N3	86:A1:3744:OHX:N6	2.62	0.48
86:A1:3479:OHX:N2	86:A1:3795:OHX:N4	2.62	0.48
86:A1:3503:OHX:N2	86:A1:3698:OHX:N4	2.61	0.48
42:BD:60:ILE:HB	42:BD:80:SER:HB3	1.94	0.48
42:BD:95:TRP:CH2	42:BD:161:GLY:HA2	2.49	0.48
43:BE:3:ALA:HB2	68:Be:77:ALA:HB2	1.95	0.48
55:BR:46:LYS:HG3	55:BR:46:LYS:O	2.13	0.48
60:BW:9:SER:HB2	60:BW:51:TRP:CZ3	2.48	0.48
63:BZ:46:ILE:HD11	63:BZ:49:TYR:CG	2.49	0.48
72:Bi:25:LYS:HB2	72:Bi:28:TYR:HD2	1.79	0.48
80:A6:542:A:OP1	80:A6:544:A:C4	2.67	0.48
80:A6:1229:G:C6	14:CM:47:GLU:HG2	2.49	0.48
4:CC:40:LYS:HG3	4:CC:247:ALA:HB1	1.96	0.48
5:CD:8:LYS:HG2	22:CU:63:LEU:HD21	1.95	0.48
6:CE:192:ILE:HG13	6:CE:243:GLY:HA3	1.95	0.48
11:CJ:64:GLU:O	11:CJ:65:LYS:HB2	2.13	0.48
15:CN:46:THR:OG1	15:CN:49:GLN:HG2	2.14	0.48
17:CP:126:VAL:O	17:CP:127:ARG:HB2	2.14	0.48
22:CU:72:ASN:ND2	22:CU:73:GLY:H	2.11	0.48
36:A5:653:A:H5'	36:A5:2361:A:H5''	1.95	0.48
36:A5:1831:U:O2'	38:A8:114:G:OP1	2.19	0.48
36:A5:2600:C:OP1	51:DN:93:LYS:NZ	2.46	0.48
42:DD:289:LYS:O	42:DD:292:ALA:HB3	2.14	0.48
43:DE:54:TYR:HA	43:DE:65:ILE:CD1	2.44	0.48
45:DG:244:ALA:HA	45:DG:247:ASP:HB2	1.95	0.48
52:DO:65[B]:ASN:O	52:DO:68[B]:ARG:HG2	2.14	0.48
61:DX:73:MET:HE1	61:DX:141:TYR:CE1	2.49	0.48
68:De:16:LYS:O	68:De:17:PHE:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Df:58:GLU:OE2	69:Df:61:GLY:HA2	2.13	0.48
71:Dh:47:VAL:O	71:Dh:51:ILE:HG13	2.14	0.48
77:Dn:4:LYS:O	77:Dn:7:LYS:HB3	2.13	0.48
78:Do:77:CYS:SG	78:Do:79:THR:CG2	2.94	0.48
78:Do:77:CYS:O	78:Do:79:THR:HG23	2.13	0.48
1:A2:1002:G:N1	1:A2:1761:U:OP1	2.43	0.48
1:A2:1347:U:O2	1:A2:1516:A:H5'	2.14	0.48
1:A2:1420:C:P	31:Ad:54:LYS:HZ1	2.35	0.48
1:A2:1509:C:H2'	1:A2:1510:U:O4'	2.14	0.48
3:AB:63:GLY:HA2	3:AB:88:VAL:O	2.13	0.48
3:AB:185:THR:O	3:AB:189:ILE:HG13	2.12	0.48
10:AI:8:ARG:HD2	10:AI:21:PHE:HD1	1.79	0.48
10:AI:197:THR:HA	10:AI:200:LYS:HB2	1.96	0.48
36:A1:1213:G:H5''	36:A1:1213:G:H8	1.79	0.48
36:A1:1308:A:OP2	36:A1:1308:A:H8	1.90	0.48
36:A1:1645:U:C2'	36:A1:1646:G:H5'	2.44	0.48
36:A1:1861:G:O6	86:A1:3541:OHX:N2	2.46	0.48
36:A1:2655:U:H2'	78:Bo:3:ASN:O	2.14	0.48
36:A1:2828:G:OP1	47:BI:7:ARG:NH1	2.47	0.48
36:A1:3184:A:OP2	52:BO:12[A]:LYS:NZ	2.47	0.48
41:BC:316:ASN:OD1	41:BC:318:LEU:HB2	2.14	0.48
45:BG:245:LYS:HZ3	45:BG:249:ARG:NH2	2.09	0.48
48:BJ:133:ARG:HD2	48:BJ:152:HIS:O	2.12	0.48
49:BL:144:THR:HG21	71:Bh:118:ILE:HG21	1.96	0.48
57:BT:6:GLY:O	57:BT:9:SER:HB3	2.14	0.48
80:A6:193:U:C2	80:A6:195:G:H1'	2.49	0.48
80:A6:248:U:OP1	86:A6:1978:OHX:N3	2.47	0.48
80:A6:282:C:H2'	80:A6:283:U:O4'	2.14	0.48
80:A6:340:U:H2'	80:A6:341:A:C8	2.49	0.48
86:A6:1915:OHX:N1	86:A6:2002:OHX:N4	2.61	0.48
86:A6:1923:OHX:N4	86:A6:1931:OHX:N5	2.62	0.48
2:CA:90:ALA:HA	2:CA:95:ALA:HB3	1.95	0.48
4:CC:89:GLN:HG3	4:CC:93:GLY:O	2.14	0.48
12:CK:87:VAL:O	12:CK:90:THR:N	2.41	0.48
17:CP:68:PRO:O	86:CP:201:OHX:N1	2.47	0.48
21:CT:57:ARG:HH11	21:CT:57:ARG:CG	2.17	0.48
33:Cf:121:CYS:HB3	33:Cf:130:VAL:HG11	1.95	0.48
36:A5:1085:A:C8	36:A5:1085:A:H5''	2.49	0.48
36:A5:1246:G:O2'	36:A5:1264:G:OP2	2.31	0.48
36:A5:1456:A:N1	67:Dd:64:VAL:HG13	2.29	0.48
36:A5:3048:A:H5''	40:DB:53:MET:HE3	1.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:3245:A:H2	36:A5:3246:G:N1	2.12	0.48
86:A5:3598:OHX:N4	86:A5:3821:OHX:N6	2.62	0.48
40:DB:39:LYS:HB2	40:DB:40:PRO:HD2	1.96	0.48
53:DP:108:ASP:N	53:DP:152:GLU:OE2	2.31	0.48
55:DR:95:TRP:CZ2	55:DR:99:LEU:HG	2.49	0.48
61:DX:64:GLU:OE2	61:DX:87:SER:HA	2.14	0.48
1:A2:78:A:N3	8:AG:175:ILE:HG12	2.29	0.48
1:A2:1282:U:O4	86:A2:2029:OHX:N2	2.45	0.48
1:A2:1437:U:H5'	5:AD:176:LEU:HD23	1.95	0.48
1:A2:1482:C:OP2	1:A2:1521:G:N2	2.46	0.48
86:A2:1922:OHX:N4	86:A2:1978:OHX:N4	2.61	0.48
12:AK:80:LEU:O	12:AK:82:LEU:N	2.41	0.48
17:AP:19:GLY:N	20:AS:93:THR:O	2.47	0.48
18:AQ:94:GLN:HB2	18:AQ:102:LYS:HD2	1.96	0.48
20:AS:11:PHE:CD2	20:AS:59:GLY:HA2	2.49	0.48
27:AZ:46:LYS:HE2	27:AZ:70:LYS:HD2	1.94	0.48
27:AZ:50:ILE:HG22	27:AZ:51:LEU:HD12	1.95	0.48
34:Ag:40:LYS:HG2	34:Ag:66:HIS:O	2.14	0.48
34:Ag:221:MET:HG3	34:Ag:233:THR:HG23	1.94	0.48
36:A1:792:G:H2'	36:A1:793:C:C6	2.48	0.48
36:A1:977:C:OP1	54:BQ:141:ARG:NH2	2.37	0.48
36:A1:2207:A:C2'	36:A1:2208:A:H5'	2.44	0.48
36:A1:2225:U:H2'	36:A1:2226:U:C6	2.48	0.48
36:A1:3279:A:H8	36:A1:3279:A:C5'	2.23	0.48
36:A1:3364:C:OP1	86:A1:3471:OHX:N5	2.47	0.48
86:A1:3562:OHX:N6	86:A1:3748:OHX:N3	2.61	0.48
48:BJ:12:LEU:HD12	48:BJ:131:MET:HE3	1.96	0.48
55:BR:27:ASN:O	86:BR:201:OHX:N6	2.47	0.48
56:BS:42:TRP:O	56:BS:46:GLN:HG3	2.14	0.48
59:BV:80:ARG:NE	59:BV:97:ASP:OD2	2.39	0.48
80:A6:9:U:O4	86:A6:2001:OHX:N3	2.47	0.48
80:A6:674:C:H2'	80:A6:675:U:C6	2.49	0.48
80:A6:1368:G:O6	86:A6:1941:OHX:N4	2.47	0.48
80:A6:1490:C:OP1	80:A6:1514:U:H5	1.96	0.48
86:A6:1921:OHX:N1	86:A6:2099:OHX:N5	2.62	0.48
6:CE:118:GLU:HA	6:CE:121:TYR:CE1	2.49	0.48
11:CJ:129:ILE:HG12	11:CJ:134:ILE:HG12	1.96	0.48
25:CX:60:GLU:CD	32:Ce:3:LYS:HB2	2.39	0.48
26:CY:89:TYR:HE1	26:CY:93:ARG:NH1	2.11	0.48
27:CZ:71:ILE:HD12	27:CZ:71:ILE:HA	1.73	0.48
36:A5:229:G:H5''	62:DY:4:GLN:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:419:G:O3'	36:A5:420:G:OP2	2.24	0.48
36:A5:508:U:H2'	36:A5:509:U:H6	1.78	0.48
36:A5:797:U:O2	49:DL:12:ASN:ND2	2.47	0.48
36:A5:1024:G:C2'	36:A5:1026:A:H8	2.26	0.48
36:A5:1036:A:H2'	36:A5:1037:C:O4'	2.13	0.48
36:A5:1222:G:H8	36:A5:1222:G:OP2	1.97	0.48
36:A5:1567:U:H1'	36:A5:1570:U:C5	2.45	0.48
36:A5:1724:U:O2	36:A5:1725:C:C2	2.66	0.48
36:A5:2355:G:H5'	53:DP:139:TYR:CE1	2.49	0.48
44:DF:214:TRP:CZ2	44:DF:219:LYS:HE3	2.49	0.48
48:DJ:100:GLY:O	48:DJ:159:THR:HG21	2.13	0.48
57:DT:32:LYS:HE3	57:DT:98:HIS:CD2	2.49	0.48
71:Dh:86:ARG:O	71:Dh:90:ARG:HG2	2.14	0.48
1:A2:114:C:H5'	1:A2:114:C:C6	2.49	0.48
1:A2:680:U:H2'	1:A2:681:U:C6	2.49	0.48
1:A2:823:G:H2'	1:A2:824:G:C8	2.49	0.48
1:A2:927:C:H1'	16:AO:125:SER:CB	2.44	0.48
1:A2:1317:C:H2'	1:A2:1318:G:O4'	2.14	0.48
8:AG:148:SER:C	8:AG:150:GLU:H	2.22	0.48
9:AH:131:PHE:O	9:AH:133:THR:OG1	2.27	0.48
16:AO:16:VAL:HG22	16:AO:33:LEU:HA	1.95	0.48
20:AS:22:VAL:HG13	20:AS:31:ALA:HB1	1.96	0.48
32:Ae:53:LYS:HG3	32:Ae:54:ARG:H	1.79	0.48
36:A1:494:G:OP1	36:A1:494:G:H3'	2.14	0.48
36:A1:1063:G:C6	57:BT:109:VAL:HG22	2.49	0.48
36:A1:1485:G:N2	70:Bg:4:ARG:HD2	2.29	0.48
36:A1:1669:C:C2'	36:A1:1670:C:H5'	2.44	0.48
36:A1:1740:U:C1'	36:A1:1741:A:H2	2.25	0.48
36:A1:1874:A:OP2	55:BR:21:LYS:HE2	2.14	0.48
36:A1:2101:C:O2'	36:A1:2102:U:O5'	2.23	0.48
36:A1:2969:A:N7	39:BA:215:ASN:ND2	2.59	0.48
37:A3:60:G:H2'	37:A3:61:G:C8	2.49	0.48
39:BA:30:ARG:HB2	39:BA:36:GLU:OE2	2.13	0.48
40:BB:106:TRP:HB2	40:BB:133:TYR:CE2	2.49	0.48
40:BB:305:ILE:HG13	40:BB:305:ILE:H	1.37	0.48
42:BD:68:THR:HB	42:BD:71:GLY:O	2.14	0.48
49:BL:157:ARG:HG2	49:BL:158:ALA:H	1.79	0.48
50:BM:115:PHE:O	50:BM:119:GLN:HG3	2.14	0.48
54:BQ:70:ALA:O	54:BQ:73:GLN:HB2	2.14	0.48
59:BV:46:LEU:HG	59:BV:47:ASN:OD1	2.13	0.48
71:Bh:38:ARG:HD2	71:Bh:41:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:Bm:92:ASP:O	76:Bm:105:PRO:HG3	2.14	0.48
80:A6:340:U:H2'	80:A6:341:A:H8	1.79	0.48
3:CB:131:ASP:CG	3:CB:180:THR:HB	2.39	0.48
21:CT:89:ARG:HG3	21:CT:89:ARG:NH1	2.24	0.48
34:Cg:136:ILE:H	34:Cg:136:ILE:HG13	1.49	0.48
36:A5:439:C:O2	36:A5:493:G:N2	2.44	0.48
36:A5:1307:G:H1'	36:A5:1308:A:N7	2.28	0.48
36:A5:1677:G:N7	58:DU:74:LYS:HE3	2.29	0.48
36:A5:3060:C:OP1	86:A5:3633:OHX:N5	2.47	0.48
36:A5:3241:G:H2'	36:A5:3245:A:C8	2.49	0.48
40:DB:347:SER:HB3	40:DB:350:ALA:N	2.26	0.48
49:DL:100:ARG:O	49:DL:101:ARG:HB3	2.14	0.48
53:DP:84:PRO:HB2	53:DP:87:SER:HB2	1.96	0.48
58:DU:92:TRP:O	58:DU:108:TYR:N	2.44	0.48
63:DZ:65:ARG:HH11	63:DZ:65:ARG:CG	2.27	0.48
83:Dq:25:LEU:HD21	83:Dq:76:LEU:HD11	1.96	0.48
1:A2:209:U:H2'	1:A2:210:A:C8	2.49	0.47
1:A2:487:G:H3'	1:A2:488:G:C5'	2.43	0.47
1:A2:629:U:OP1	15:AN:127:ARG:NH2	2.47	0.47
1:A2:1783:C:H2'	1:A2:1784:C:C6	2.49	0.47
10:AI:87:ASN:O	10:AI:90:LEU:HB2	2.14	0.47
14:AM:33:ARG:O	14:AM:37:VAL:HG23	2.13	0.47
28:Aa:7:SER:HB2	28:Aa:11:ASN:H	1.78	0.47
33:Af:87:UNK:O	33:Af:87:UNK:HG2	2.13	0.47
33:Af:127:GLY:O	33:Af:129:GLY:N	2.47	0.47
36:A1:763:G:OP2	86:A1:3813:OHX:N3	2.47	0.47
36:A1:1307:G:H5''	52:BO:60[B]:LYS:NZ	2.29	0.47
36:A1:1821:U:C2	70:Bg:67:LYS:HB2	2.49	0.47
36:A1:2960:C:H2'	36:A1:2961:G:H8	1.79	0.47
36:A1:3203:U:O4	86:A1:3762:OHX:N4	2.47	0.47
36:A1:3362:A:H2'	36:A1:3363:U:O4'	2.14	0.47
86:A1:3509:OHX:N1	86:A1:3746:OHX:N5	2.61	0.47
41:BC:193:LYS:HB2	41:BC:193:LYS:HE3	1.67	0.47
42:BD:155:THR:HB	42:BD:179:ARG:HA	1.96	0.47
46:BH:25:VAL:CG1	46:BH:78:MET:HE1	2.43	0.47
62:BY:115:ARG:O	62:BY:119:ILE:HG13	2.14	0.47
66:Bc:42:ILE:HD11	66:Bc:67:VAL:HG22	1.95	0.47
78:Bo:105:GLN:HB2	78:Bo:106:PHE:CD1	2.49	0.47
80:A6:1:U:O2'	80:A6:370:A:OP2	2.32	0.47
80:A6:6:G:OP2	4:CC:205:ARG:HD2	2.13	0.47
80:A6:460:A:H5'	80:A6:461:G:OP2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:793:A:C3'	80:A6:794:U:H5'	2.44	0.47
80:A6:817:A:H2'	80:A6:818:C:C6	2.49	0.47
80:A6:1065:A:O2'	3:CB:146:GLN:NE2	2.46	0.47
80:A6:1230:A:C8	80:A6:1258:U:C4	2.97	0.47
3:CB:48:VAL:HG21	3:CB:61:LEU:HD13	1.95	0.47
3:CB:164:ILE:HD13	3:CB:207:LEU:HD11	1.96	0.47
4:CC:103:VAL:HG22	4:CC:113:LEU:HD23	1.96	0.47
7:CF:170:GLN:O	7:CF:173:ALA:HB3	2.14	0.47
11:CJ:30:LEU:HA	11:CJ:30:LEU:HD23	1.67	0.47
11:CJ:87:SER:OG	11:CJ:90:LYS:HB2	2.14	0.47
13:CL:18:HIS:O	86:CL:201:OHX:N3	2.46	0.47
14:CM:113:ARG:O	14:CM:115:VAL:HG23	2.14	0.47
16:CO:16:VAL:HG21	16:CO:18:ARG:NH2	2.29	0.47
20:CS:17:LEU:HD21	20:CS:66:LEU:HD13	1.95	0.47
36:A5:181:U:H2'	36:A5:182:U:O4'	2.14	0.47
36:A5:217:U:C2'	36:A5:218:G:OP1	2.62	0.47
36:A5:253:A:O2'	36:A5:254:A:H8	1.97	0.47
36:A5:944:C:H4'	68:De:33:ARG:NH1	2.29	0.47
36:A5:1816:A:O2'	36:A5:1817:G:H5''	2.14	0.47
36:A5:3121:U:H1'	36:A5:3122:A:H5''	1.96	0.47
39:DA:209:HIS:CD2	39:DA:211:HIS:H	2.29	0.47
42:DD:283:ALA:O	42:DD:286:VAL:HB	2.14	0.47
46:DH:103:ILE:HD11	46:DH:134:ILE:CG2	2.44	0.47
46:DH:139:ASN:OD1	46:DH:139:ASN:N	2.47	0.47
58:DU:56:VAL:HG22	58:DU:65:VAL:HG22	1.96	0.47
58:DU:100:THR:O	58:DU:101:ASN:HB2	2.14	0.47
63:DZ:4:PHE:HE2	66:Dc:63:SER:HB3	1.79	0.47
68:De:71:HIS:CE1	68:De:118:LYS:HD3	2.49	0.47
70:Dg:46:ASP:CG	70:Dg:80:ARG:HD2	2.39	0.47
1:A2:196:G:O2'	1:A2:197:A:C8	2.65	0.47
1:A2:747:C:O2'	24:AW:80:ASN:ND2	2.48	0.47
1:A2:823:G:H2'	1:A2:824:G:O4'	2.14	0.47
1:A2:1064:G:H2'	1:A2:1065:A:C8	2.49	0.47
3:AB:61:LEU:CD2	3:AB:62:LYS:H	2.28	0.47
24:AW:105:THR:HG23	24:AW:110:ILE:CG1	2.45	0.47
36:A1:627:U:O4	86:A1:3544:OHX:N5	2.47	0.47
36:A1:1221:A:H3'	36:A1:1222:G:H5''	1.95	0.47
36:A1:1334:U:OP1	44:BF:206:LYS:HE3	2.13	0.47
36:A1:1733:G:O5'	86:A1:3811:OHX:N2	2.47	0.47
86:A1:3520:OHX:N5	86:A1:3717:OHX:N6	2.62	0.47
57:BT:57:TYR:OH	57:BT:87:LYS:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BT:96:ILE:HD12	57:BT:96:ILE:HA	1.56	0.47
62:BY:91:ASN:C	62:BY:93:ALA:H	2.22	0.47
63:BZ:14:VAL:HG13	70:Bg:86:LYS:HG2	1.96	0.47
70:Bg:7:PHE:CE1	70:Bg:20:ILE:HG12	2.49	0.47
80:A6:452:A:OP2	80:A6:453:U:H5	1.98	0.47
80:A6:470:A:C5'	80:A6:470:A:C8	2.97	0.47
80:A6:1754:A:H4'	80:A6:1755:A:O5'	2.14	0.47
3:CB:126:THR:CG2	3:CB:136:ARG:HE	2.27	0.47
10:CI:151:LYS:HD2	10:CI:151:LYS:HA	1.44	0.47
12:CK:1:MET:HG3	12:CK:2:LEU:H	1.79	0.47
22:CU:20:ILE:HG13	22:CU:96:PRO:HA	1.96	0.47
24:CW:30:SER:OG	24:CW:31:SER:N	2.47	0.47
36:A5:191:U:H2'	36:A5:192:C:C6	2.49	0.47
36:A5:817:A:C4	73:Dj:13:ASN:O	2.67	0.47
36:A5:1470:U:H2'	36:A5:1471:U:C6	2.49	0.47
36:A5:1643:A:H4'	36:A5:1822:C:H5'	1.95	0.47
36:A5:2750:U:OP2	57:DT:69:LYS:HE3	2.14	0.47
36:A5:3174:A:OP1	69:Df:97:SER:OG	2.25	0.47
41:DC:222:VAL:HA	41:DC:223:PRO:HD3	1.69	0.47
42:DD:265:TYR:O	42:DD:269:SER:HB3	2.13	0.47
49:DL:87:ALA:O	49:DL:91:ARG:HG3	2.14	0.47
52:DO:138[A]:LEU:HD12	52:DO:138[A]:LEU:HA	1.66	0.47
56:DS:42:TRP:O	56:DS:46:GLN:HG3	2.15	0.47
72:Di:59:ASP:O	72:Di:63:ASN:HB2	2.14	0.47
72:Di:74:LYS:HA	72:Di:83:ALA:HB2	1.95	0.47
73:Dj:64:MET:HB2	73:Dj:68:LYS:HB3	1.96	0.47
1:A2:39:A:OP1	11:AJ:6:ARG:NH1	2.47	0.47
1:A2:1366:U:O2'	21:AT:7:ARG:HD2	2.15	0.47
1:A2:1537:C:C4	86:A2:2048:OHX:N3	2.82	0.47
8:AG:63:MET:HE2	8:AG:106:LEU:HD22	1.96	0.47
17:AP:125:PRO:O	17:AP:126:VAL:HB	2.14	0.47
19:AR:13:SER:OG	19:AR:54:THR:HG22	2.13	0.47
22:AU:48:HIS:O	22:AU:48:HIS:CG	2.67	0.47
26:AY:84:LYS:HD2	26:AY:85:PHE:CE1	2.50	0.47
29:Ab:47:PHE:CD1	29:Ab:49:HIS:O	2.68	0.47
34:Ag:133:VAL:HB	34:Ag:142:ALA:HB3	1.96	0.47
36:A1:1353:U:O2'	43:BE:8:LYS:O	2.33	0.47
36:A1:2714:G:H4'	36:A1:2715:A:O5'	2.14	0.47
36:A1:2883:U:H2'	36:A1:2884:C:H6	1.78	0.47
36:A1:3043:C:OP2	59:BV:48:ARG:NH2	2.47	0.47
36:A1:3084:C:H2'	36:A1:3085:G:O4'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BC:60:THR:HG21	41:BC:77:VAL:HG22	1.95	0.47
41:BC:203:ARG:NH1	41:BC:226:GLU:OE2	2.47	0.47
43:BE:50:LYS:HG2	43:BE:74:VAL:HG21	1.96	0.47
45:BG:156:ASP:OD2	45:BG:156:ASP:N	2.44	0.47
58:BU:43:VAL:HB	58:BU:49:ASN:HB3	1.96	0.47
64:Ba:36:GLY:HA3	64:Ba:40:HIS:CE1	2.49	0.47
66:Bc:100:ILE:O	66:Bc:105:ALA:HB3	2.14	0.47
80:A6:886:U:H2'	80:A6:887:A:H8	1.79	0.47
86:A6:2046:OHX:N6	86:A6:2094:OHX:N2	2.61	0.47
3:CB:154:SER:O	3:CB:154:SER:OG	2.30	0.47
4:CC:66:PHE:HA	4:CC:134:LEU:HD21	1.96	0.47
11:CJ:113:VAL:HG21	11:CJ:134:ILE:HG21	1.97	0.47
14:CM:50:LYS:HZ2	33:Cf:129:GLY:HA2	1.79	0.47
17:CP:51:SER:C	17:CP:53:PRO:HD2	2.39	0.47
18:CQ:39:VAL:CG1	18:CQ:41:PRO:HD2	2.44	0.47
23:CV:85:TYR:CD1	29:Cb:6:ASP:HB2	2.49	0.47
25:CX:69:ARG:HD2	25:CX:116:ASP:OD2	2.14	0.47
36:A5:1750:A:H4'	36:A5:1751:G:H5'	1.96	0.47
36:A5:2836:C:C5	36:A5:2852:C:N4	2.71	0.47
36:A5:3013:U:H2'	36:A5:3014:U:C6	2.48	0.47
86:A5:3514:OHX:N3	86:A7:209:OHX:N4	2.63	0.47
40:DB:296:THR:HG21	40:DB:357:LYS:HA	1.95	0.47
42:DD:68:THR:HG22	42:DD:70:THR:N	2.30	0.47
42:DD:270:LYS:HG3	42:DD:273:ARG:HB2	1.96	0.47
48:DJ:81:GLU:HA	48:DJ:84:LEU:HD12	1.95	0.47
63:DZ:23:VAL:HG12	63:DZ:45:GLY:HA3	1.96	0.47
1:A2:349:U:O4	86:A2:2010:OHX:N3	2.47	0.47
1:A2:558:U:H2'	1:A2:558:U:O2	2.14	0.47
1:A2:838:G:O6	86:A2:2074:OHX:N4	2.46	0.47
1:A2:1351:G:C2	1:A2:1375:A:C2	3.02	0.47
1:A2:1597:A:C8	31:Ad:14:TYR:CD2	3.02	0.47
3:AB:61:LEU:O	3:AB:63:GLY:N	2.47	0.47
3:AB:117:TRP:NE1	3:AB:152:ARG:CZ	2.77	0.47
4:AC:106:ASP:OD1	4:AC:106:ASP:N	2.44	0.47
7:AF:36:ALA:HB3	7:AF:45:LYS:NZ	2.29	0.47
9:AH:30:SER:O	9:AH:32:PRO:HD2	2.14	0.47
10:AI:8:ARG:NH2	10:AI:21:PHE:HB3	2.28	0.47
17:AP:126:VAL:CG1	17:AP:127:ARG:H	2.19	0.47
19:AR:17:ILE:HG23	19:AR:58:MET:HE2	1.95	0.47
22:AU:58:LEU:HD12	22:AU:88:LYS:C	2.38	0.47
24:AW:23:ARG:H	24:AW:24:GLN:NE2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AZ:72:GLY:O	27:AZ:74:SER:N	2.47	0.47
29:Ab:56:CYS:SG	29:Ab:57:GLU:N	2.87	0.47
29:Ab:61:THR:HG23	29:Ab:62:ILE:H	1.79	0.47
36:A1:3:U:C2	38:A4:157:U:C2	3.02	0.47
36:A1:1571:A:H2'	36:A1:1572:U:C4'	2.44	0.47
36:A1:1733:G:P	86:A1:3811:OHX:N4	2.86	0.47
36:A1:2748:A:O2'	42:BD:48:LYS:HE2	2.14	0.47
36:A1:2767:U:O4	86:A1:3584:OHX:N6	2.47	0.47
36:A1:2836:C:O2	36:A1:2836:C:O4'	2.29	0.47
36:A1:3294:A:H5'	36:A1:3294:A:H8	1.79	0.47
86:A1:3520:OHX:N5	86:A1:3717:OHX:N2	2.63	0.47
40:BB:76:VAL:HA	40:BB:326:GLY:H	1.79	0.47
41:BC:140:HIS:HA	41:BC:177:ASP:OD1	2.13	0.47
44:BF:102:VAL:HG13	44:BF:126:LEU:HD22	1.96	0.47
48:BJ:85:LYS:HE3	48:BJ:85:LYS:HB2	1.68	0.47
48:BJ:91:LEU:HD12	48:BJ:163:PHE:CZ	2.49	0.47
61:BX:46:TYR:HD2	71:Bh:75:TYR:HB3	1.79	0.47
62:BY:63:LYS:O	62:BY:66:GLN:HG3	2.13	0.47
64:Ba:27:LYS:HD2	64:Ba:27:LYS:HA	1.58	0.47
77:Bn:13:LEU:HD11	77:Bn:17:ARG:CZ	2.44	0.47
80:A6:358:U:O2'	80:A6:360:A:H5''	2.14	0.47
80:A6:496:G:H2'	80:A6:496:G:N3	2.30	0.47
80:A6:558:U:O2'	80:A6:559:C:O5'	2.32	0.47
80:A6:1229:G:N1	14:CM:47:GLU:HG2	2.30	0.47
80:A6:1234:A:O2'	33:Cf:146:SER:HB3	2.14	0.47
80:A6:1449:U:H2'	80:A6:1450:U:C6	2.49	0.47
80:A6:1572:G:H2'	80:A6:1572:G:N3	2.28	0.47
2:CA:125:ASP:HB3	2:CA:128:SER:HB2	1.96	0.47
4:CC:111:VAL:HG13	4:CC:191:ALA:HA	1.96	0.47
6:CE:89:VAL:O	6:CE:99:PHE:O	2.32	0.47
8:CG:73:ILE:CD1	8:CG:75:LEU:HD21	2.39	0.47
8:CG:155:ASP:N	8:CG:155:ASP:OD2	2.42	0.47
20:CS:82:PRO:HG2	20:CS:85:PHE:HB2	1.96	0.47
34:Cg:197:SER:HB2	34:Cg:216:LYS:HB3	1.96	0.47
81:Ch:65:THR:HG1	81:Ch:66:ALA:H	1.61	0.47
36:A5:76:G:O6	49:DL:101:ARG:HA	2.14	0.47
36:A5:120:G:H22	45:DG:124:ASP:HA	1.78	0.47
36:A5:547:G:C5	36:A5:548:G:H1'	2.48	0.47
36:A5:1085:A:H8	36:A5:1085:A:H5''	1.78	0.47
36:A5:2201:G:N2	39:DA:224:THR:HG21	2.28	0.47
36:A5:2257:C:O5'	36:A5:2257:C:H6	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2684:C:OP1	48:DJ:16:LYS:NZ	2.48	0.47
86:A5:3487:OHX:N1	86:A5:3644:OHX:N5	2.62	0.47
39:DA:66:PRO:HB2	39:DA:67:TYR:CE2	2.50	0.47
45:DG:150:LEU:HD22	45:DG:151:VAL:N	2.29	0.47
47:DI:174:THR:O	47:DI:175:ASN:HB2	2.13	0.47
52:DO:65[A]:ASN:C	52:DO:67[A]:THR:H	2.21	0.47
52:DO:110[A]:PRO:HA	52:DO:113[A]:ASP:OD2	2.14	0.47
57:DT:120:LYS:C	57:DT:122:GLN:H	2.22	0.47
60:DW:105:ARG:HG2	60:DW:105:ARG:HH21	1.78	0.47
1:A2:539:G:OP2	1:A2:539:G:C8	2.68	0.47
1:A2:1231:U:O5'	1:A2:1259:U:H1'	2.14	0.47
1:A2:1244:A:H3'	1:A2:1244:A:N3	2.29	0.47
1:A2:1670:G:N7	86:A2:2005:OHX:N5	2.62	0.47
3:AB:105:PHE:H	3:AB:214:LYS:HZ1	1.60	0.47
3:AB:231:LEU:C	3:AB:232:HIS:CD2	2.93	0.47
5:AD:133:GLY:HA3	5:AD:156:PHE:H	1.79	0.47
7:AF:133:VAL:O	7:AF:137:ILE:HG12	2.13	0.47
7:AF:172:ILE:O	7:AF:176:THR:HG23	2.14	0.47
15:AN:11:ILE:O	15:AN:11:ILE:HG13	2.15	0.47
16:AO:25:ASP:OD1	16:AO:26:THR:N	2.44	0.47
18:AQ:60:PHE:HA	18:AQ:63:ILE:HD11	1.96	0.47
36:A1:661:G:OP2	64:Ba:12:ARG:NH2	2.47	0.47
36:A1:1488:G:O2'	70:Bg:10:ARG:O	2.29	0.47
36:A1:1846:C:OP1	36:A1:1849:C:N4	2.42	0.47
36:A1:2227:C:OP1	78:Bo:32:LYS:NZ	2.34	0.47
36:A1:2508:U:O5'	36:A1:2508:U:H6	1.97	0.47
36:A1:2572:C:O2'	36:A1:2573:G:P	2.73	0.47
36:A1:2880:U:H1'	40:BB:250:ALA:HB3	1.96	0.47
36:A1:3165:A:H2'	36:A1:3166:C:C6	2.49	0.47
36:A1:3174:A:H2'	36:A1:3175:U:C5'	2.43	0.47
41:BC:141:ARG:NH1	41:BC:180:LYS:HD3	2.29	0.47
59:BV:79:VAL:HG23	59:BV:80:ARG:HG3	1.96	0.47
61:BX:139:ILE:O	61:BX:139:ILE:HG13	2.12	0.47
62:BY:74:TYR:CZ	62:BY:77:LYS:HE3	2.50	0.47
68:Be:20:HIS:O	68:Be:21:HIS:HB2	2.13	0.47
80:A6:1357:A:H2'	80:A6:1358:G:C8	2.49	0.47
2:CA:172:LEU:HD22	2:CA:176:LEU:HG	1.96	0.47
4:CC:153:SER:C	4:CC:154:LEU:HD12	2.39	0.47
10:CI:38:ILE:HA	10:CI:60:ILE:O	2.14	0.47
11:CJ:142:ASN:HD22	11:CJ:143:ILE:HD12	1.78	0.47
14:CM:52:LEU:HD12	14:CM:78:LEU:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CO:125:SER:OG	16:CO:126:THR:N	2.48	0.47
21:CT:139:THR:O	21:CT:142:GLU:HG3	2.14	0.47
36:A5:801:A:H4'	36:A5:802:C:O5'	2.15	0.47
36:A5:879:U:O2	36:A5:2357:A:H1'	2.14	0.47
36:A5:1093:A:N3	36:A5:1096:U:N3	2.63	0.47
36:A5:2177:G:O6	86:A5:3489:OHX:N1	2.47	0.47
36:A5:2397:A:OP1	36:A5:2398:A:C5'	2.60	0.47
41:DC:295:ILE:O	41:DC:299:ILE:HG12	2.14	0.47
42:DD:115:LEU:HD12	42:DD:119:TYR:HD2	1.80	0.47
42:DD:148:ILE:HD12	42:DD:148:ILE:HA	1.56	0.47
47:DI:3:ARG:CZ	47:DI:63:GLU:HG3	2.44	0.47
52:DO:65[B]:ASN:HB3	52:DO:68[B]:ARG:HD3	1.97	0.47
53:DP:30:ARG:HA	53:DP:119:VAL:HG11	1.95	0.47
63:DZ:128:GLN:O	63:DZ:130:PHE:N	2.48	0.47
1:A2:192:U:O2'	1:A2:193:U:O4'	2.33	0.47
1:A2:499:U:O2'	1:A2:500:C:P	2.72	0.47
1:A2:909:U:H2'	1:A2:910:C:H6	1.80	0.47
1:A2:1253:U:H4'	33:Af:143:LYS:HB2	1.96	0.47
1:A2:1349:G:N2	1:A2:1350:U:C2	2.83	0.47
86:A2:1975:OHX:N6	86:A2:1989:OHX:N2	2.62	0.47
4:AC:214:ALA:O	4:AC:218:ILE:HG13	2.14	0.47
7:AF:133:VAL:HG22	7:AF:198:LEU:HD13	1.96	0.47
8:AG:63:MET:HG2	8:AG:99:GLY:O	2.14	0.47
21:AT:33:TYR:C	21:AT:33:TYR:CD1	2.93	0.47
23:AV:9:VAL:HG22	23:AV:10:GLU:H	1.79	0.47
27:AZ:92:ILE:HG12	27:AZ:100:ILE:CG2	2.44	0.47
33:Af:144:CYS:O	33:Af:146:SER:N	2.47	0.47
34:Ag:123:ILE:HG22	34:Ag:133:VAL:HG22	1.95	0.47
36:A1:1389:G:H5''	68:Be:101:SER:HB3	1.95	0.47
36:A1:1575:A:C6	36:A1:1576:G:C5	3.03	0.47
36:A1:2252:A:H8	36:A1:2252:A:H5''	1.79	0.47
36:A1:2561:A:C2	45:BG:32:LYS:HB2	2.49	0.47
36:A1:3335:A:H5'	36:A1:3335:A:H8	1.78	0.47
41:BC:150:LEU:HD11	41:BC:172:VAL:HG13	1.96	0.47
42:BD:276:LYS:HB3	42:BD:277:LEU:H	1.48	0.47
44:BF:98:LYS:HB3	44:BF:99:PRO:HD3	1.95	0.47
52:BO:72[A]:HIS:HB2	52:BO:74[A]:ARG:NH1	2.29	0.47
55:BR:131:ALA:O	55:BR:132:PHE:CD1	2.68	0.47
67:Bd:72:ARG:O	67:Bd:96:VAL:HG13	2.14	0.47
80:A6:658:C:N4	80:A6:673:A:N1	2.63	0.47
80:A6:811:A:N3	80:A6:858:G:H1'	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:1227:A:H4'	80:A6:1228:G:C5'	2.44	0.47
80:A6:1535:U:H1'	80:A6:1536:G:C2	2.49	0.47
80:A6:1535:U:H4'	80:A6:1535:U:OP1	2.15	0.47
86:A6:1933:OHX:N1	86:A6:2068:OHX:N3	2.62	0.47
3:CB:175:GLU:HG2	3:CB:193:ILE:CD1	2.44	0.47
13:CL:47:THR:HB	13:CL:114:ALA:HA	1.96	0.47
23:CV:5:LYS:H	23:CV:5:LYS:HD2	1.79	0.47
34:Cg:32:LEU:HA	34:Cg:45:TRP:O	2.14	0.47
36:A5:128:G:H2'	36:A5:129:U:O4'	2.14	0.47
36:A5:715:A:H8	64:Da:115:LYS:HG3	1.80	0.47
36:A5:2514:U:C6	36:A5:2514:U:OP1	2.68	0.47
36:A5:2520:A:H2'	36:A5:2521:U:C6	2.50	0.47
45:DG:134:TYR:CG	45:DG:190:VAL:HG11	2.50	0.47
59:DV:67:PRO:C	59:DV:69:LEU:H	2.22	0.47
66:Dc:68:TYR:HD2	66:Dc:68:TYR:C	2.22	0.47
70:Dg:99:LYS:C	70:Dg:103:LYS:HG2	2.39	0.47
1:A2:72:A:C3'	1:A2:73:U:H5''	2.45	0.47
1:A2:269:G:C6	1:A2:287:G:C6	3.02	0.47
1:A2:768:C:C2	11:AJ:143:ILE:HD13	2.49	0.47
1:A2:1450:U:OP2	86:A2:1940:OHX:N5	2.48	0.47
1:A2:1533:C:P	20:AS:27:LYS:HZ1	2.37	0.47
1:A2:1617:U:O2'	1:A2:1618:C:H5'	2.14	0.47
1:A2:1789:G:H5''	1:A2:1789:G:C8	2.46	0.47
2:AA:35:PRO:C	2:AA:37:VAL:H	2.22	0.47
2:AA:140:ASN:HD21	23:AV:29:HIS:HA	1.80	0.47
2:AA:184:LEU:HB3	23:AV:45:ALA:HB2	1.96	0.47
3:AB:101:HIS:HD2	3:AB:217:LEU:HD22	1.80	0.47
3:AB:179:SER:HB3	3:AB:183:GLN:NE2	2.30	0.47
4:AC:161:LYS:O	86:AC:301:OHX:N1	2.47	0.47
5:AD:21:LEU:HD22	5:AD:25:PHE:CE2	2.50	0.47
5:AD:84:ILE:HD13	5:AD:85:VAL:H	1.78	0.47
5:AD:113:LEU:HD23	5:AD:113:LEU:HA	1.65	0.47
5:AD:144:ALA:HB1	35:Ah:101:ASP:OD2	2.14	0.47
5:AD:179:GLN:C	5:AD:179:GLN:HE21	2.23	0.47
6:AE:42:LEU:HD12	6:AE:109:PHE:CB	2.45	0.47
8:AG:78:THR:HG22	8:AG:79:LYS:H	1.80	0.47
9:AH:16:LEU:O	9:AH:20:VAL:HG23	2.14	0.47
9:AH:71:HIS:CG	9:AH:131:PHE:CZ	3.02	0.47
9:AH:129:LEU:HD23	9:AH:129:LEU:HA	1.79	0.47
12:AK:12:HIS:CD2	12:AK:79:TYR:CD2	3.02	0.47
12:AK:25:LYS:HD3	12:AK:59:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:26:ASP:OD1	12:AK:29:GLN:HG3	2.14	0.47
14:AM:45:LEU:O	14:AM:49:THR:HG23	2.14	0.47
15:AN:55:ARG:HD2	29:Ab:47:PHE:CD1	2.49	0.47
27:AZ:54:VAL:HG22	27:AZ:57:TYR:CE1	2.50	0.47
31:Ad:40:ARG:HG2	31:Ad:41:GLN:OE1	2.14	0.47
34:Ag:13:LEU:HB2	34:Ag:310:ILE:HB	1.97	0.47
34:Ag:29:GLN:C	34:Ag:31:ASN:H	2.23	0.47
36:A1:1471:U:H2'	36:A1:1472:U:C6	2.49	0.47
36:A1:1569:U:H5''	36:A1:1570:U:H6	1.78	0.47
36:A1:1915:A:H2'	36:A1:1916:U:H6	1.79	0.47
36:A1:2185:G:O2'	36:A1:2314:U:OP2	2.33	0.47
36:A1:2282:U:O2	36:A1:2310:U:H4'	2.15	0.47
36:A1:2383:C:H5'	52:BO:71[A]:PHE:CE2	2.49	0.47
36:A1:2426:U:H2'	36:A1:2427:U:C6	2.50	0.47
36:A1:2984:C:H2'	36:A1:2985:C:H6	1.80	0.47
36:A1:3049:A:H8	36:A1:3049:A:C5'	2.22	0.47
36:A1:3095:U:H2'	36:A1:3096:C:C6	2.49	0.47
38:A4:78:G:H2'	38:A4:79:A:C8	2.49	0.47
40:BB:140:ASP:OD1	40:BB:142:ALA:HB2	2.14	0.47
40:BB:296:THR:HG22	40:BB:297:SER:N	2.29	0.47
41:BC:52:VAL:HG11	41:BC:99:MET:HE3	1.97	0.47
41:BC:138:ARG:NH2	41:BC:240:PRO:HB2	2.29	0.47
42:BD:56:THR:O	42:BD:58:LYS:N	2.39	0.47
42:BD:264:GLN:H	42:BD:264:GLN:HG2	1.35	0.47
42:BD:294:ALA:HB1	47:BI:217:PHE:HB3	1.96	0.47
44:BF:73:GLY:O	57:BT:143:THR:HB	2.15	0.47
44:BF:93:ASN:OD1	44:BF:93:ASN:N	2.48	0.47
48:BJ:171:VAL:HG13	48:BJ:172:LEU:N	2.29	0.47
49:BL:107:GLU:CD	72:Bi:18:THR:HG23	2.39	0.47
56:BS:139:TYR:CD2	56:BS:140:VAL:HG23	2.50	0.47
57:BT:14:MET:CE	57:BT:55:LYS:HB2	2.42	0.47
57:BT:83:ARG:HD2	57:BT:85:LEU:HD21	1.97	0.47
57:BT:100:LYS:C	57:BT:102:ARG:H	2.22	0.47
59:BV:48:ARG:HH11	59:BV:48:ARG:HG3	1.79	0.47
61:BX:115:ARG:NH1	61:BX:119:THR:OG1	2.48	0.47
71:Bh:95:PHE:O	71:Bh:97:ALA:N	2.47	0.47
80:A6:136:C:H4'	80:A6:137:U:O5'	2.13	0.47
80:A6:149:C:P	26:CY:124:ARG:HD2	2.55	0.47
80:A6:755:A:O2'	80:A6:756:A:P	2.73	0.47
80:A6:1152:A:O2'	80:A6:1153:G:H5'	2.14	0.47
80:A6:1389:C:O2'	19:CR:52:GLY:HA3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CC:106:ASP:OD1	4:CC:108:ASN:N	2.43	0.47
4:CC:143:TYR:CD2	4:CC:147:ASN:HA	2.50	0.47
6:CE:52:LEU:HB3	6:CE:54:TYR:CD2	2.49	0.47
6:CE:157:ASN:ND2	6:CE:222:LEU:HD11	2.30	0.47
9:CH:12:ALA:HB3	9:CH:13:PRO:HD3	1.95	0.47
18:CQ:97:VAL:HG12	18:CQ:98:ASP:N	2.27	0.47
22:CU:52:LYS:HD3	22:CU:54:GLY:H	1.80	0.47
23:CV:35:ASN:OD1	23:CV:52:THR:HB	2.15	0.47
33:Cf:102:VAL:HG22	33:Cf:103:LEU:H	1.80	0.47
34:Cg:37:SER:HB3	34:Cg:39:ASP:OD1	2.15	0.47
34:Cg:305:TYR:CE2	34:Cg:311:ARG:HD2	2.50	0.47
36:A5:818:C:H2'	36:A5:819:U:O4'	2.14	0.47
36:A5:1178:G:C5'	69:Df:18:ARG:HD3	2.40	0.47
36:A5:1326:A:O2'	69:Df:77:ASN:ND2	2.48	0.47
36:A5:2617:U:H5''	65:Db:3:LYS:HD3	1.97	0.47
36:A5:2641:U:H5''	36:A5:2642:A:OP1	2.14	0.47
36:A5:2664:C:O2'	36:A5:2665:U:H5'	2.15	0.47
36:A5:2696:A:H2'	36:A5:2697:A:C8	2.50	0.47
36:A5:2946:A:C5'	36:A5:2947:G:H5'	2.45	0.47
36:A5:3008:A:OP1	52:DO:72[A]:HIS:CD2	2.66	0.47
36:A5:3288:G:O2'	36:A5:3289:G:H8	1.97	0.47
86:A5:3526:OHX:N4	86:A5:3739:OHX:N2	2.62	0.47
37:A7:100:C:P	56:DS:52:LYS:NZ	2.87	0.47
37:A7:106:U:H2'	37:A7:107:C:C6	2.50	0.47
40:DB:35:ASP:OD1	40:DB:184:ASN:O	2.32	0.47
40:DB:153:LYS:HG2	40:DB:154:TYR:CE2	2.49	0.47
42:DD:148:ILE:HG23	42:DD:151:GLN:HB3	1.95	0.47
46:DH:19:SER:HB3	50:DM:6:ILE:H	1.78	0.47
47:DI:19:LYS:HG3	47:DI:26:VAL:HG22	1.96	0.47
48:DJ:106:ILE:CD1	48:DJ:125:MET:HG2	2.45	0.47
52:DO:34[B]:VAL:HB	52:DO:103[B]:LYS:HB2	1.96	0.47
52:DO:124[B]:LEU:O	52:DO:128[B]:ARG:HB2	2.15	0.47
52:DO:128[A]:ARG:HD3	52:DO:128[A]:ARG:HA	1.50	0.47
54:DQ:96:PHE:CG	54:DQ:97:PRO:HD2	2.49	0.47
71:Dh:85:THR:HG22	71:Dh:88:LEU:N	2.28	0.47
77:Dn:6:ARG:O	77:Dn:10:THR:HG23	2.15	0.47
1:A2:819:G:C6	1:A2:853:G:N1	2.82	0.47
1:A2:894:U:H2'	1:A2:895:G:C8	2.49	0.47
1:A2:1450:U:H2'	1:A2:1451:C:C6	2.50	0.47
1:A2:1486:G:H1'	1:A2:1592:A:O2'	2.14	0.47
1:A2:1745:G:O6	86:A2:1966:OHX:N5	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:62:LYS:O	3:AB:88:VAL:HB	2.15	0.47
6:AE:42:LEU:HD23	6:AE:46:VAL:HB	1.97	0.47
7:AF:124:LEU:O	7:AF:125:THR:OG1	2.29	0.47
8:AG:45:PHE:HA	8:AG:48:TYR:HD2	1.79	0.47
9:AH:39:ARG:HH12	55:BR:188:ASP:HB2	1.79	0.47
12:AK:12:HIS:CD2	12:AK:79:TYR:HD2	2.33	0.47
14:AM:54:ARG:HB2	35:Ah:172:UNK:O	2.15	0.47
14:AM:136:ILE:O	14:AM:140:PHE:HB2	2.14	0.47
19:AR:44:LYS:HB2	19:AR:44:LYS:HE2	1.64	0.47
34:Ag:149:ASP:HB2	34:Ag:175:ASP:HB3	1.97	0.47
34:Ag:211:ILE:HG22	34:Ag:223:TRP:CD1	2.50	0.47
36:A1:158:G:H2'	36:A1:159:A:C8	2.50	0.47
36:A1:520:U:O4	41:BC:349:THR:HG23	2.15	0.47
36:A1:1494:U:P	75:Bl:42:ARG:HH22	2.37	0.47
36:A1:2280:A:OP2	86:A1:3671:OHX:N5	2.47	0.47
36:A1:2340:U:OP1	40:BB:236:LYS:HE3	2.14	0.47
36:A1:2356:A:N6	36:A1:2983:C:H5	2.07	0.47
47:BI:208:ASN:HB2	47:BI:211:ARG:HD2	1.97	0.47
50:BM:53:VAL:HA	50:BM:54:PRO:HD3	1.83	0.47
52:BO:8[A]:VAL:HG13	52:BO:34[A]:VAL:HG22	1.96	0.47
56:BS:12:ARG:HB3	56:BS:24:LEU:HD23	1.97	0.47
61:BX:73:MET:HE1	61:BX:141:TYR:HE1	1.80	0.47
71:Bh:118:ILE:O	71:Bh:119:LYS:HB2	2.14	0.47
80:A6:290:G:H5''	86:A6:2099:OHX:N1	2.29	0.47
80:A6:712:G:N2	80:A6:726:C:O2	2.42	0.47
80:A6:1789:G:H5''	80:A6:1789:G:C8	2.49	0.47
9:CH:168:SER:O	9:CH:172:VAL:HG23	2.15	0.47
11:CJ:109:LEU:HD23	11:CJ:109:LEU:HA	1.68	0.47
12:CK:54:TYR:HE2	12:CK:75:TYR:HB2	1.77	0.47
21:CT:57:ARG:HG3	21:CT:57:ARG:NH1	2.12	0.47
26:CY:89:TYR:O	26:CY:92:VAL:HG22	2.15	0.47
36:A5:322:U:H5''	36:A5:323:A:OP1	2.14	0.47
36:A5:491:C:H5''	36:A5:492:U:OP2	2.15	0.47
36:A5:1300:G:O3'	86:A5:3820:OHX:N6	2.47	0.47
36:A5:1385:C:OP1	41:DC:141:ARG:NH1	2.42	0.47
36:A5:1819:U:C2'	36:A5:1820:U:H5'	2.45	0.47
36:A5:2947:G:N2	36:A5:2948:C:C2	2.83	0.47
86:A5:3491:OHX:N6	86:A5:3734:OHX:N4	2.63	0.47
38:A8:9:A:H2'	38:A8:10:A:C8	2.50	0.47
45:DG:73:PRO:HD3	45:DG:233:TRP:CG	2.50	0.47
48:DJ:16:LYS:HG3	48:DJ:130:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DN:138:GLN:HA	51:DN:143:ARG:HD2	1.95	0.47
57:DT:14:MET:HE2	57:DT:15:PHE:CE2	2.50	0.47
64:Da:14:HIS:C	64:Da:15:VAL:O	2.55	0.47
72:Di:53:TYR:O	72:Di:57:LEU:HB2	2.14	0.47
76:Dm:78:ILE:HD11	76:Dm:83:LYS:CA	2.45	0.47
1:A2:485:A:H2'	1:A2:486:G:O4'	2.15	0.47
1:A2:1294:G:O2'	1:A2:1321:A:N1	2.48	0.47
1:A2:1686:C:O2'	1:A2:1687:U:O5'	2.30	0.47
1:A2:1715:G:C5	1:A2:1716:C:C5	3.03	0.47
11:AJ:122:VAL:O	11:AJ:125:ALA:HB3	2.14	0.47
20:AS:109:LEU:HG	20:AS:113:LEU:HD11	1.96	0.47
20:AS:145:ARG:HH21	35:Ah:68:ARG:NE	2.13	0.47
24:AW:10:ALA:HB1	24:AW:27:ILE:HD12	1.97	0.47
25:AX:33:LEU:HD23	25:AX:33:LEU:HA	1.70	0.47
25:AX:127:VAL:O	25:AX:130:VAL:HG22	2.14	0.47
26:AY:102:LYS:H	26:AY:102:LYS:HD2	1.79	0.47
35:Ah:89:ARG:C	35:Ah:91:THR:H	2.23	0.47
36:A1:915:A:C5	36:A1:917:A:H1'	2.50	0.47
36:A1:1659:U:H2'	36:A1:1660:C:C6	2.50	0.47
36:A1:2244:A:H5''	39:BA:243:THR:OG1	2.14	0.47
36:A1:2534:G:C6	86:A1:3751:OHX:N4	2.83	0.47
36:A1:2675:C:N4	48:BJ:22:SER:HB2	2.25	0.47
36:A1:2725:U:O4	86:A1:3452:OHX:N2	2.48	0.47
36:A1:3113:A:OP1	46:BH:73:SER:OG	2.22	0.47
36:A1:3343:G:N2	36:A1:3362:A:H2	2.08	0.47
86:A1:3562:OHX:N4	86:A1:3748:OHX:N3	2.62	0.47
86:A1:3562:OHX:N2	86:A1:3748:OHX:N1	2.62	0.47
86:A1:3598:OHX:N2	86:A1:3722:OHX:N1	2.62	0.47
86:A1:3631:OHX:N4	55:BR:14:VAL:O	2.48	0.47
37:A3:64:A:H3'	47:BI:204:GLY:O	2.14	0.47
40:BB:283:TYR:CZ	40:BB:325:LYS:HD2	2.50	0.47
44:BF:191:VAL:O	44:BF:191:VAL:HG12	2.15	0.47
45:BG:118:GLU:C	45:BG:120:LYS:H	2.22	0.47
46:BH:26:LYS:HA	46:BH:35:THR:HG22	1.97	0.47
52:BO:85[B]:ARG:HD3	52:BO:90[B]:HIS:CG	2.50	0.47
59:BV:120:LYS:HB3	59:BV:137:VAL:CG2	2.45	0.47
71:Bh:96:GLU:O	71:Bh:97:ALA:HB2	2.15	0.47
80:A6:198:A:H2'	80:A6:199:G:H5'	1.97	0.47
80:A6:1383:G:OP1	22:CU:87:HIS:ND1	2.48	0.47
10:CI:26:LYS:HG3	10:CI:29:LEU:HD13	1.96	0.47
10:CI:110:ARG:NH2	36:A5:3354:U:O4	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CN:83:GLU:HG3	15:CN:84:ILE:HD13	1.97	0.47
17:CP:87:PRO:HA	17:CP:90:ILE:HG13	1.97	0.47
17:CP:107:ILE:HA	17:CP:111:MET:SD	2.55	0.47
21:CT:77:ASN:OD1	21:CT:101:ASN:ND2	2.43	0.47
36:A5:267:G:H4'	51:DN:50:ARG:HH11	1.80	0.47
36:A5:437:G:C6	86:A5:3811:OHX:N5	2.83	0.47
36:A5:1765:U:H2'	36:A5:1766:G:O4'	2.15	0.47
36:A5:1815:U:O2'	36:A5:1816:A:P	2.72	0.47
36:A5:2280:A:OP2	86:A5:3681:OHX:N5	2.48	0.47
36:A5:2736:A:OP1	57:DT:92:ARG:NH1	2.43	0.47
36:A5:2898:G:OP2	36:A5:2899:C:H5'	2.15	0.47
36:A5:3340:G:H4'	36:A5:3341:U:OP1	2.15	0.47
86:A5:3542:OHX:N1	86:A5:3662:OHX:N4	2.63	0.47
41:DC:140:HIS:CG	41:DC:247:PHE:HB2	2.50	0.47
41:DC:302:ALA:HB2	54:DQ:39:ARG:CZ	2.45	0.47
43:DE:98:VAL:HA	43:DE:101:PHE:HD2	1.80	0.47
45:DG:106:LYS:O	45:DG:110:THR:HG23	2.15	0.47
54:DQ:8:LYS:HB2	54:DQ:8:LYS:HE3	1.53	0.47
64:Da:48:TYR:O	64:Da:49:HIS:CD2	2.67	0.47
1:A2:190:C:N4	1:A2:196:G:C6	2.82	0.47
1:A2:372:G:H1'	1:A2:612:U:O2	2.14	0.47
1:A2:538:A:C8	1:A2:543:C:C4	3.03	0.47
1:A2:577:G:O6	35:Ah:100:THR:O	2.33	0.47
1:A2:688:G:O6	86:A2:2042:OHX:N2	2.48	0.47
1:A2:1004:U:H4'	1:A2:1005:A:OP2	2.15	0.47
1:A2:1513:G:O2'	1:A2:1515:A:N3	2.38	0.47
1:A2:1629:G:H2'	1:A2:1630:U:C6	2.51	0.47
1:A2:1798:U:C5	28:Aa:38:ARG:NH2	2.83	0.47
86:A2:1970:OHX:N1	86:A2:2014:OHX:N4	2.62	0.47
6:AE:98:ASN:HD22	6:AE:119:ALA:HB1	1.80	0.47
6:AE:153:ASN:O	6:AE:174:LYS:NZ	2.40	0.47
13:AL:104:HIS:O	13:AL:105:LYS:HG2	2.15	0.47
24:AW:53:ILE:HG12	24:AW:60:LYS:HB2	1.96	0.47
27:AZ:59:TYR:HD2	27:AZ:60:VAL:N	2.13	0.47
28:Aa:73:TYR:CZ	28:Aa:82:ARG:HD2	2.50	0.47
36:A1:103:G:OP1	49:BL:70:ARG:NH2	2.46	0.47
36:A1:209:A:H4'	36:A1:211:A:N7	2.30	0.47
36:A1:531:G:H5'	86:A1:3783:OHX:N1	2.30	0.47
36:A1:873:C:H4'	36:A1:874:U:OP2	2.15	0.47
36:A1:1230:G:H1	36:A1:1279:C:N4	2.11	0.47
36:A1:1340:G:H2'	36:A1:1341:U:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1584:U:H2'	36:A1:1585:C:C6	2.49	0.47
36:A1:2180:G:H2'	36:A1:2181:C:C6	2.50	0.47
36:A1:2294:U:OP2	59:BV:71:LYS:HE2	2.15	0.47
36:A1:3094:A:H2'	36:A1:3095:U:C6	2.50	0.47
36:A1:3173:G:C2	69:Bf:96:ALA:HB2	2.50	0.47
36:A1:3257:C:H2'	36:A1:3258:U:O4'	2.15	0.47
86:A1:3466:OHX:N6	86:A1:3667:OHX:N4	2.63	0.47
40:BB:37:ARG:O	40:BB:186:GLY:HA3	2.15	0.47
40:BB:66:LYS:HE3	59:BV:124:ASP:OD2	2.14	0.47
40:BB:256:HIS:HA	40:BB:257:PRO:C	2.40	0.47
41:BC:141:ARG:CZ	41:BC:180:LYS:HD3	2.44	0.47
74:Bk:11:PHE:O	74:Bk:14:LEU:HB2	2.15	0.47
80:A6:469:C:C3'	80:A6:470:A:H5''	2.45	0.47
80:A6:502:U:H5'	80:A6:503:G:OP2	2.14	0.47
80:A6:992:A:O2'	80:A6:1785:U:O2	2.33	0.47
80:A6:1234:A:HO2'	80:A6:1235:C:P	2.35	0.47
80:A6:1238:A:OP2	86:A6:1953:OHX:N1	2.48	0.47
80:A6:1363:U:H3'	80:A6:1364:G:H8	1.80	0.47
86:A6:2005:OHX:N3	86:CL:201:OHX:N5	2.63	0.47
7:CF:41:LYS:HE2	7:CF:41:LYS:HB3	1.42	0.47
7:CF:172:ILE:O	7:CF:176:THR:HG23	2.15	0.47
7:CF:187:ILE:H	7:CF:187:ILE:HG13	1.46	0.47
7:CF:225:ARG:NH1	30:Cc:58:GLU:OE1	2.48	0.47
11:CJ:129:ILE:O	11:CJ:134:ILE:HD11	2.14	0.47
17:CP:127:ARG:NE	81:Ch:66:ALA:HB2	2.30	0.47
34:Cg:248:ASN:OD1	34:Cg:249:ARG:HG3	2.15	0.47
36:A5:429:U:H5'	69:Df:88:ASN:HB2	1.98	0.47
36:A5:735:A:O2'	36:A5:736:A:OP1	2.30	0.47
36:A5:1352:A:H1'	36:A5:1353:U:H5'	1.97	0.47
36:A5:1608:C:H5''	61:DX:111:ASN:ND2	2.30	0.47
36:A5:1621:A:H2'	36:A5:1622:U:C6	2.50	0.47
36:A5:1701:C:H2'	36:A5:1702:U:O4'	2.15	0.47
36:A5:2111:G:H4'	36:A5:2112:U:OP2	2.15	0.47
36:A5:2805:G:N3	36:A5:2967:A:H2	2.13	0.47
36:A5:3177:G:O2'	36:A5:3179:U:OP1	2.22	0.47
37:A7:15:C:O2'	42:DD:8:LYS:HD2	2.15	0.47
38:A8:84:C:H5'	38:A8:85:G:H5'	1.97	0.47
44:DF:80:GLN:HG3	57:DT:136:ARG:HB3	1.95	0.47
45:DG:239:GLY:O	45:DG:240:ASN:C	2.58	0.47
49:DL:89:TYR:HB2	71:Dh:111:PHE:HE1	1.79	0.47
52:DO:138[B]:LEU:HA	52:DO:138[B]:LEU:HD12	1.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DQ:62:VAL:O	54:DQ:87:VAL:HA	2.14	0.47
57:DT:30:TYR:OH	57:DT:94:GLU:OE2	2.28	0.47
72:Di:43:LEU:HD23	72:Di:43:LEU:HA	1.82	0.47
1:A2:239:C:H3'	1:A2:240:U:O4'	2.15	0.46
1:A2:417:A:H5'	1:A2:418:G:C5	2.50	0.46
1:A2:544:A:H5''	1:A2:545:A:OP2	2.15	0.46
1:A2:1459:C:N4	20:AS:139:LYS:HG3	2.29	0.46
1:A2:1555:A:P	17:AP:47:ARG:HH21	2.38	0.46
86:A2:1906:OHX:N1	86:AC:301:OHX:N3	2.63	0.46
2:AA:140:ASN:ND2	23:AV:29:HIS:HA	2.30	0.46
27:AZ:73:GLY:O	27:AZ:77:ARG:NH1	2.49	0.46
36:A1:496:C:O5'	36:A1:496:C:H6	1.98	0.46
36:A1:1677:G:N7	58:BU:74:LYS:HE3	2.30	0.46
36:A1:1815:U:HO2'	36:A1:1816:A:P	2.29	0.46
36:A1:2186:U:H2'	36:A1:2187:G:O4'	2.14	0.46
36:A1:2558:U:O2'	36:A1:2559:U:H5'	2.15	0.46
36:A1:2580:A:O2'	86:A1:3708:OHX:N2	2.47	0.46
36:A1:2726:C:O5'	36:A1:2726:C:O2	2.33	0.46
40:BB:120:LYS:HD3	40:BB:120:LYS:HA	1.59	0.46
40:BB:265:ALA:C	40:BB:266:ARG:HG2	2.41	0.46
40:BB:306:THR:HG22	40:BB:310:GLY:HA2	1.96	0.46
41:BC:226:GLU:OE2	41:BC:246:ARG:NH2	2.40	0.46
42:BD:218:ARG:HA	42:BD:221:GLU:OE2	2.16	0.46
44:BF:184:LEU:HD23	44:BF:184:LEU:HA	1.66	0.46
46:BH:47:LYS:HE3	46:BH:50:ASN:H	1.80	0.46
46:BH:96:HIS:O	46:BH:98:PRO:HD3	2.14	0.46
76:Bm:93:LYS:HB3	76:Bm:103:LEU:O	2.15	0.46
80:A6:895:G:N2	16:CO:38:THR:HG21	2.20	0.46
80:A6:1535:U:H1'	80:A6:1536:G:N1	2.30	0.46
86:A6:1956:OHX:N1	86:A6:2058:OHX:N5	2.63	0.46
2:CA:9:LEU:HD13	2:CA:10:THR:O	2.14	0.46
5:CD:172:THR:HA	5:CD:184:ILE:O	2.16	0.46
7:CF:73:THR:HG22	7:CF:74:ALA:N	2.30	0.46
8:CG:30:LYS:HE3	8:CG:34:GLN:OE1	2.14	0.46
14:CM:57:ALA:O	14:CM:85:LYS:HE3	2.15	0.46
20:CS:15:LEU:H	20:CS:15:LEU:HD22	1.80	0.46
24:CW:106:THR:HG22	24:CW:122:SER:C	2.39	0.46
33:Cf:96:UNK:O	33:Cf:97:UNK:HB1	2.14	0.46
81:Ch:32:SER:O	36:A5:2692:A:H4'	2.14	0.46
36:A5:725:G:H3'	36:A5:726:G:H5''	1.96	0.46
36:A5:731:U:H2'	36:A5:732:C:H6	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2717:U:OP1	86:A5:3582:OHX:N3	2.48	0.46
36:A5:3174:A:H2'	36:A5:3175:U:C5'	2.46	0.46
86:A5:3598:OHX:N1	86:A5:3821:OHX:N5	2.63	0.46
39:DA:130:SER:HA	39:DA:169:ILE:HG22	1.97	0.46
43:DE:58:LEU:HD12	43:DE:78:ARG:HD3	1.97	0.46
51:DN:145:ASP:OD1	51:DN:147:ARG:HB2	2.15	0.46
67:Dd:13:THR:HG22	67:Dd:72:ARG:CD	2.44	0.46
69:Df:16:TYR:OH	69:Df:91:ALA:HB2	2.15	0.46
73:Dj:16:HIS:HA	73:Dj:27:PHE:O	2.15	0.46
74:Dk:11:PHE:O	74:Dk:14:LEU:HB2	2.15	0.46
1:A2:77:U:H4'	1:A2:78:A:O5'	2.15	0.46
1:A2:258:C:N4	1:A2:259:U:O4	2.48	0.46
1:A2:1280:C:H2'	1:A2:1281:G:H8	1.80	0.46
1:A2:1537:C:N4	86:A2:2048:OHX:N6	2.64	0.46
2:AA:52:LYS:HB3	23:AV:82:VAL:HG22	1.97	0.46
2:AA:71:GLU:HA	2:AA:95:ALA:N	2.31	0.46
2:AA:124:THR:HG22	2:AA:174:TRP:CZ2	2.49	0.46
5:AD:46:THR:HB	5:AD:84:ILE:HG12	1.96	0.46
7:AF:187:ILE:H	7:AF:187:ILE:HD12	1.81	0.46
12:AK:14:TYR:C	12:AK:14:TYR:CD2	2.93	0.46
20:AS:35:ILE:HB	20:AS:38:VAL:HG21	1.96	0.46
20:AS:108:LYS:HE3	20:AS:111:ASP:OD2	2.15	0.46
22:AU:117:VAL:HG13	22:AU:118:VAL:N	2.30	0.46
24:AW:37:PHE:CE2	24:AW:103:ILE:HD12	2.50	0.46
36:A1:121:A:C2	45:BG:129:PRO:HB3	2.49	0.46
36:A1:1559:A:H4'	36:A1:1560:G:OP2	2.14	0.46
36:A1:1878:G:C2'	36:A1:1879:A:H5'	2.45	0.46
36:A1:2867:C:H6	36:A1:2867:C:C5'	2.24	0.46
36:A1:2940:A:N7	40:BB:2:SER:N	2.63	0.46
36:A1:3000:A:H2'	36:A1:3001:C:C6	2.50	0.46
86:A1:3457:OHX:N6	86:A1:3792:OHX:N3	2.62	0.46
41:BC:120:TYR:CD2	41:BC:277:PRO:HG3	2.50	0.46
42:BD:152:ARG:HH11	42:BD:152:ARG:CG	2.27	0.46
47:BI:159:PHE:HB2	47:BI:163:GLN:OE1	2.15	0.46
49:BL:165:SER:CB	49:BL:168:ARG:HB3	2.43	0.46
53:BP:60:PHE:CE2	53:BP:82:ARG:HB2	2.49	0.46
55:BR:101:VAL:O	55:BR:104:ARG:NE	2.48	0.46
55:BR:105:LEU:HD11	55:BR:139:VAL:HG23	1.96	0.46
58:BU:17:VAL:HA	58:BU:103:TYR:O	2.15	0.46
64:Ba:14:HIS:ND1	64:Ba:14:HIS:N	2.62	0.46
80:A6:190:C:C4	80:A6:196:G:C6	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:195:G:H2'	80:A6:196:G:H5''	1.96	0.46
80:A6:206:A:OP2	86:A6:1986:OHX:N4	2.49	0.46
80:A6:219:A:OP1	80:A6:219:A:H4'	2.16	0.46
80:A6:417:A:H5'	80:A6:418:G:C5	2.50	0.46
80:A6:703:G:H2'	80:A6:704:C:C6	2.50	0.46
80:A6:1102:G:N7	25:CX:2:GLY:N	2.63	0.46
80:A6:1253:U:H4'	33:Cf:143:LYS:CA	2.46	0.46
80:A6:1402:G:C6	80:A6:1403:C:C4	3.03	0.46
6:CE:117:GLU:C	6:CE:119:ALA:N	2.73	0.46
12:CK:23:ALA:O	12:CK:24:LYS:HB3	2.15	0.46
19:CR:10:LYS:HD3	19:CR:53:TYR:CZ	2.51	0.46
19:CR:34:LEU:O	19:CR:38:ILE:HD13	2.14	0.46
36:A5:16:A:OP1	61:DX:43:ALA:N	2.47	0.46
36:A5:307:A:OP2	86:A5:3782:OHX:N1	2.48	0.46
36:A5:380:U:H2'	36:A5:381:U:C6	2.50	0.46
36:A5:687:U:O2'	36:A5:688:G:H5'	2.14	0.46
36:A5:1232:C:C5	36:A5:1261:G:H2'	2.50	0.46
36:A5:1313:G:H2'	36:A5:1314:C:H6	1.80	0.46
36:A5:1565:G:N2	36:A5:1566:A:H1'	2.30	0.46
36:A5:1655:G:H8	36:A5:1655:G:H5'	1.80	0.46
36:A5:1658:G:H2'	36:A5:1659:U:C6	2.50	0.46
40:DB:147:GLU:CD	40:DB:150:ARG:NH2	2.72	0.46
41:DC:11:LEU:HD13	41:DC:159:ILE:HD11	1.97	0.46
42:DD:273:ARG:O	42:DD:273:ARG:HG2	2.15	0.46
44:DF:158:LYS:HD2	44:DF:159:GLN:N	2.30	0.46
46:DH:90:MET:HE2	46:DH:179:ILE:HG22	1.97	0.46
51:DN:14:LYS:HA	51:DN:19:LEU:HD23	1.97	0.46
66:Dc:68:TYR:C	66:Dc:68:TYR:CD2	2.93	0.46
71:Dh:9:LEU:HD23	71:Dh:12:LYS:HE3	1.97	0.46
78:Do:46:LYS:HD3	78:Do:54:THR:HB	1.97	0.46
1:A2:1071:U:H2'	1:A2:1072:C:H6	1.79	0.46
1:A2:1477:G:H2'	1:A2:1478:G:C8	2.50	0.46
1:A2:1562:G:OP1	21:AT:89:ARG:NH2	2.42	0.46
1:A2:1589:C:OP1	86:A2:2065:OHX:N1	2.48	0.46
3:AB:65:VAL:O	16:AO:34:SER:HA	2.16	0.46
9:AH:14:THR:HG23	9:AH:15:GLU:H	1.80	0.46
10:AI:66:SER:HB3	10:AI:73:SER:OG	2.14	0.46
11:AJ:60:LEU:HD23	11:AJ:93:LEU:HD11	1.97	0.46
14:AM:125:ASN:C	14:AM:127:GLY:H	2.23	0.46
20:AS:145:ARG:HD3	35:Ah:68:ARG:NH1	2.29	0.46
24:AW:83:ILE:HG13	24:AW:117:ARG:HH12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AX:134:ALA:HB1	25:AX:140:LYS:HB2	1.98	0.46
28:Aa:19:LYS:HG3	28:Aa:20:PRO:HD2	1.96	0.46
29:Ab:63:LEU:O	29:Ab:74:SER:N	2.48	0.46
36:A1:412:G:H5'	53:BP:26:PHE:HZ	1.80	0.46
36:A1:913:A:H2	36:A1:2134:G:N3	2.14	0.46
36:A1:1861:G:OP2	86:A1:3650:OHX:N2	2.48	0.46
36:A1:2209:U:O2'	36:A1:2210:G:OP1	2.27	0.46
36:A1:2378:C:H2'	36:A1:2379:U:C6	2.50	0.46
36:A1:2852:C:N3	47:BI:158:LYS:NZ	2.63	0.46
36:A1:3155:U:O2'	36:A1:3156:U:OP1	2.28	0.46
36:A1:3341:U:HO2'	36:A1:3342:A:P	2.37	0.46
37:A3:106:U:H2'	37:A3:107:C:C6	2.51	0.46
40:BB:4:ARG:O	40:BB:5:LYS:CB	2.63	0.46
42:BD:4:GLN:CD	42:BD:4:GLN:H	2.24	0.46
46:BH:88:TYR:CE2	46:BH:184:LYS:HG2	2.50	0.46
55:BR:180:LYS:HA	55:BR:183:ALA:HB3	1.98	0.46
65:Bb:14:ARG:CZ	65:Bb:18:ARG:HD3	2.44	0.46
80:A6:197:A:H2'	80:A6:198:A:H8	1.77	0.46
80:A6:338:C:P	13:CL:133:LYS:HG3	2.56	0.46
80:A6:700:C:H2'	80:A6:701:U:C6	2.50	0.46
80:A6:906:A:H2'	80:A6:907:A:C8	2.51	0.46
5:CD:48:VAL:HB	5:CD:86:LEU:HD12	1.98	0.46
7:CF:20:PHE:CE1	7:CF:34:GLN:HB3	2.51	0.46
19:CR:71:PHE:CE1	19:CR:74:GLN:HB2	2.50	0.46
23:CV:69:LEU:O	23:CV:73:ALA:N	2.45	0.46
26:CY:129:VAL:O	26:CY:132:ARG:HB3	2.15	0.46
27:CZ:48:ASP:O	27:CZ:52:LYS:HG2	2.15	0.46
29:Cb:31:TYR:CE2	29:Cb:33:LEU:HD21	2.51	0.46
36:A5:119:U:C2	45:DG:138:HIS:CE1	3.03	0.46
36:A5:136:G:H5'	71:Dh:95:PHE:CD2	2.50	0.46
36:A5:620:U:OP2	36:A5:620:U:H6	1.98	0.46
36:A5:1025:A:H5'	36:A5:1026:A:OP2	2.16	0.46
36:A5:1176:C:OP1	52:DO:25[A]:LYS:HE3	2.15	0.46
36:A5:1374:G:O6	64:Da:10:LYS:HE2	2.15	0.46
36:A5:1407:A:O3'	68:De:33:ARG:NH2	2.49	0.46
36:A5:1464:G:N2	36:A5:1466:G:H3'	2.31	0.46
36:A5:1481:A:C2'	36:A5:1858:A:N3	2.78	0.46
36:A5:1556:C:O2'	86:A5:3469:OHX:N1	2.47	0.46
36:A5:1879:A:H2'	36:A5:1879:A:N3	2.29	0.46
36:A5:2556:C:OP1	70:Dg:88:ARG:NH1	2.48	0.46
36:A5:3242:G:H5''	36:A5:3245:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A5:3610:OHX:N1	86:A5:3814:OHX:N2	2.63	0.46
37:A7:2:G:O2'	37:A7:23:A:N1	2.44	0.46
38:A8:125:U:O2'	38:A8:126:A:H5'	2.15	0.46
39:DA:72:ARG:HG3	39:DA:72:ARG:NH1	2.31	0.46
41:DC:33:ASP:O	41:DC:37:THR:HG23	2.14	0.46
41:DC:301:PRO:C	54:DQ:39:ARG:HH12	2.23	0.46
42:DD:126:GLU:HA	42:DD:196:ARG:HD2	1.97	0.46
49:DL:89:TYR:CE1	49:DL:93:ILE:HD11	2.50	0.46
56:DS:139:TYR:CD2	56:DS:140:VAL:HG23	2.51	0.46
61:DX:135:ILE:HD13	61:DX:135:ILE:C	2.39	0.46
70:Dg:99:LYS:O	70:Dg:102:LYS:N	2.48	0.46
1:A2:1053:G:N7	86:A2:2063:OHX:N5	2.63	0.46
86:A2:2017:OHX:N6	86:A2:2076:OHX:N5	2.64	0.46
3:AB:38:PHE:HB2	3:AB:39:GLU:H	1.47	0.46
3:AB:107:THR:OG1	3:AB:108:ASP:N	2.49	0.46
12:AK:25:LYS:HD3	12:AK:59:PHE:HZ	1.81	0.46
13:AL:53:TYR:CD1	13:AL:113:PRO:HG2	2.50	0.46
30:Ac:12:VAL:HA	30:Ac:30:VAL:HG12	1.97	0.46
35:Ah:102:THR:HG23	35:Ah:105:LYS:HB2	1.98	0.46
36:A1:242:C:O2'	36:A1:243:G:H8	1.99	0.46
36:A1:541:U:C4	86:A1:3816:OHX:N6	2.83	0.46
36:A1:550:A:N6	36:A1:551:A:N6	2.62	0.46
36:A1:770:G:N7	86:A1:3642:OHX:N3	2.63	0.46
36:A1:772:U:H2'	36:A1:773:G:C8	2.51	0.46
36:A1:1352:A:HI1'	36:A1:1353:U:O5'	2.14	0.46
36:A1:2251:G:H2'	36:A1:2252:A:H5''	1.97	0.46
36:A1:2278:C:P	77:Bn:23:ARG:HH12	2.39	0.46
36:A1:2279:A:O2'	86:A1:3671:OHX:N6	2.48	0.46
36:A1:2562:A:H2	45:BG:31:PRO:HD3	1.81	0.46
36:A1:2995:A:C2'	36:A1:2996:U:H5''	2.46	0.46
36:A1:3275:U:H2'	36:A1:3276:G:OP1	2.16	0.46
40:BB:3:HIS:O	40:BB:4:ARG:C	2.57	0.46
41:BC:52:VAL:HB	41:BC:99:MET:HE3	1.98	0.46
41:BC:232:SER:O	41:BC:233:LEU:HB2	2.14	0.46
41:BC:311:HIS:CE1	41:BC:314:LYS:HA	2.50	0.46
42:BD:56:THR:C	42:BD:58:LYS:H	2.22	0.46
42:BD:278:SER:OG	42:BD:281:GLU:HG3	2.16	0.46
43:BE:78:ARG:HG3	43:BE:78:ARG:HH11	1.80	0.46
45:BG:61:GLN:HB3	51:BN:28:TRP:CH2	2.51	0.46
47:BI:220:GLN:C	86:BI:304:OHX:N1	2.73	0.46
48:BJ:171:VAL:HG13	48:BJ:172:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BN:143:ARG:O	71:Bh:96:GLU:HB3	2.14	0.46
64:Ba:3:SER:O	64:Ba:6:THR:HB	2.16	0.46
64:Ba:74:ASN:HB2	64:Ba:76:ASP:HB2	1.97	0.46
80:A6:57:G:OP2	26:CY:116:LYS:HE2	2.15	0.46
80:A6:512:A:O2'	11:CJ:133:HIS:CE1	2.68	0.46
80:A6:647:G:N2	80:A6:687:G:N2	2.43	0.46
80:A6:808:U:H2'	80:A6:809:A:C8	2.50	0.46
6:CE:132:GLY:N	6:CE:136:VAL:O	2.47	0.46
7:CF:134:VAL:O	7:CF:138:THR:HG23	2.15	0.46
11:CJ:126:ARG:O	11:CJ:129:ILE:N	2.49	0.46
17:CP:60:LEU:HD23	17:CP:76:VAL:HG21	1.97	0.46
23:CV:72:LEU:HD23	23:CV:72:LEU:HA	1.65	0.46
24:CW:18:GLU:HG3	24:CW:69:LEU:HD23	1.98	0.46
36:A5:1175:C:H5''	52:DO:25[B]:LYS:HG3	1.97	0.46
36:A5:1181:U:H2'	52:DO:122[B]:GLN:NE2	2.29	0.46
36:A5:1481:A:H2'	36:A5:1858:A:N3	2.30	0.46
36:A5:2102:U:H2'	36:A5:2103:U:C6	2.50	0.46
36:A5:2514:U:OP1	36:A5:2514:U:H6	1.99	0.46
36:A5:2705:A:OP2	86:A5:3413:OHX:N2	2.49	0.46
36:A5:2746:A:H2'	36:A5:2747:A:O4'	2.16	0.46
36:A5:2793:G:H5''	78:Do:66:LYS:HG2	1.97	0.46
41:DC:150:LEU:HD13	41:DC:249:ILE:HG12	1.96	0.46
45:DG:74:THR:O	45:DG:77:GLN:HG3	2.15	0.46
45:DG:230:LYS:O	45:DG:230:LYS:HG3	2.15	0.46
47:DI:210:ILE:HA	47:DI:217:PHE:HE2	1.79	0.46
50:DM:54:PRO:O	50:DM:56:GLN:NE2	2.36	0.46
56:DS:26:ARG:HB3	57:DT:150:THR:HG22	1.97	0.46
60:DW:122:ALA:O	60:DW:125:ALA:HB3	2.15	0.46
66:Dc:17:VAL:HG11	66:Dc:92:ILE:HD12	1.97	0.46
71:Dh:119:LYS:HA	71:Dh:119:LYS:HD2	1.38	0.46
75:Dl:23:LEU:CD2	75:Dl:24:PRO:HD2	2.41	0.46
1:A2:58:U:O4	86:A2:1924:OHX:N1	2.49	0.46
1:A2:124:A:H1'	6:AE:146:THR:HG21	1.98	0.46
1:A2:507:U:H2'	1:A2:508:U:O5'	2.16	0.46
1:A2:705:U:H4'	1:A2:705:U:OP1	2.14	0.46
1:A2:772:G:OP1	6:AE:22:LYS:NZ	2.29	0.46
1:A2:789:A:O2'	6:AE:106:LYS:NZ	2.43	0.46
1:A2:1617:U:H1'	30:Ac:22:ARG:O	2.16	0.46
1:A2:1681:A:H2	1:A2:1720:G:H21	1.64	0.46
1:A2:1698:N:O2'	1:A2:1699:N:P	2.74	0.46
1:A2:1786:G:OP1	16:AO:136:ARG:NH2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:105:GLY:O	2:AA:108:THR:O	2.33	0.46
9:AH:133:THR:HG21	9:AH:162:ILE:HD11	1.96	0.46
9:AH:159:VAL:O	9:AH:162:ILE:HG13	2.16	0.46
10:AI:66:SER:HA	10:AI:73:SER:HA	1.98	0.46
15:AN:115:LEU:O	15:AN:119:GLU:HG3	2.16	0.46
18:AQ:36:ILE:O	18:AQ:36:ILE:HG12	2.15	0.46
19:AR:115:LEU:HD13	19:AR:116:LYS:H	1.80	0.46
21:AT:52:GLY:HA2	21:AT:55:TYR:HD2	1.80	0.46
22:AU:43:LYS:HA	22:AU:43:LYS:HD2	1.53	0.46
23:AV:80:LYS:NZ	23:AV:80:LYS:HB3	2.31	0.46
27:AZ:42:LEU:O	27:AZ:46:LYS:HB2	2.16	0.46
27:AZ:71:ILE:H	27:AZ:71:ILE:HG13	1.64	0.46
36:A1:595:G:C8	36:A1:609:G:C6	3.03	0.46
36:A1:630:A:H2'	36:A1:631:U:C6	2.50	0.46
36:A1:889:U:H2'	36:A1:890:C:O4'	2.16	0.46
36:A1:947:G:H5'	68:Be:55:ILE:HB	1.96	0.46
36:A1:954:U:O4	36:A1:1115:G:H1'	2.16	0.46
36:A1:1349:G:O2'	36:A1:1350:A:O4'	2.31	0.46
36:A1:1769:G:O6	86:A1:3732:OHX:N4	2.49	0.46
36:A1:2946:A:C5'	36:A1:2947:G:H5'	2.44	0.46
36:A1:3192:U:H2'	36:A1:3193:C:C6	2.50	0.46
86:A1:3539:OHX:N5	86:A1:3691:OHX:N1	2.64	0.46
42:BD:97:ALA:O	42:BD:101:THR:OG1	2.28	0.46
46:BH:105:GLU:HA	46:BH:109:ALA:HB3	1.96	0.46
48:BJ:50:ALA:HB2	48:BJ:65:ILE:HD12	1.96	0.46
49:BL:6:ASN:HB2	64:Ba:48:TYR:CE2	2.49	0.46
50:BM:37:GLU:CG	50:BM:38:ILE:H	2.28	0.46
56:BS:71:LYS:HD2	56:BS:73:LYS:HG3	1.97	0.46
61:BX:108:LEU:HD12	61:BX:125:ARG:HD2	1.98	0.46
66:Bc:24:THR:HG22	66:Bc:91:SER:HB3	1.96	0.46
75:Bl:37:TYR:HE1	75:Bl:39:ALA:HA	1.80	0.46
80:A6:459:G:OP1	26:CY:109:LYS:NZ	2.45	0.46
80:A6:548:G:H2'	80:A6:549:G:O4'	2.16	0.46
80:A6:844:A:H2'	80:A6:845:G:C8	2.50	0.46
86:A6:1983:OHX:N2	86:Cd:101:OHX:N4	2.63	0.46
14:CM:35:ALA:HA	14:CM:126:TRP:HA	1.97	0.46
16:CO:103:ARG:NH2	28:Ca:52:ASP:OD1	2.48	0.46
19:CR:6:THR:OG1	19:CR:8:THR:HG23	2.15	0.46
22:CU:99:ILE:O	22:CU:103:ILE:HB	2.15	0.46
24:CW:65:LEU:HD13	24:CW:65:LEU:N	2.30	0.46
36:A5:663:C:H2'	36:A5:664:U:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:1149:G:N2	36:A5:1198:C:N3	2.51	0.46
36:A5:1204:A:C2'	36:A5:1205:A:H5'	2.45	0.46
36:A5:1239:C:N4	36:A5:1249:G:H1	2.10	0.46
36:A5:1564:U:H2'	36:A5:1565:G:H8	1.80	0.46
36:A5:1652:G:O2'	70:Dg:45:GLY:HA3	2.15	0.46
36:A5:1754:G:OP1	86:A5:3590:OHX:N1	2.48	0.46
36:A5:1876:U:C5'	36:A5:1876:U:C6	2.99	0.46
36:A5:2157:G:O6	39:DA:152:SER:HB3	2.15	0.46
36:A5:2816:G:C8	36:A5:2869:U:H3'	2.50	0.46
86:A5:3444:OHX:N4	86:A5:3695:OHX:N6	2.63	0.46
38:A8:46:G:OP2	75:Dl:15:LYS:NZ	2.33	0.46
40:DB:148:LEU:HD21	40:DB:196:ARG:HD3	1.98	0.46
45:DG:149:LYS:HD3	45:DG:201:THR:O	2.16	0.46
57:DT:14:MET:HE1	57:DT:55:LYS:CB	2.46	0.46
61:DX:67:ILE:HB	61:DX:83:VAL:HG12	1.97	0.46
64:Da:73:LEU:HB2	64:Da:109:TYR:CD2	2.49	0.46
64:Da:96:LYS:HE2	64:Da:142:GLY:O	2.15	0.46
1:A2:87:C:O2'	1:A2:169:A:N1	2.47	0.46
1:A2:505:A:H2'	1:A2:505:A:N3	2.30	0.46
1:A2:707:A:H2	1:A2:731:C:H2'	1.81	0.46
1:A2:1039:A:O2'	1:A2:1040:G:P	2.74	0.46
1:A2:1200:G:H4'	1:A2:1201:G:C5'	2.45	0.46
1:A2:1396:U:H2'	1:A2:1397:U:C6	2.51	0.46
1:A2:1402:G:OP1	19:AR:10:LYS:NZ	2.49	0.46
1:A2:1558:U:H3'	1:A2:1559:A:H4'	1.98	0.46
3:AB:87:ARG:HE	3:AB:87:ARG:HB3	1.49	0.46
7:AF:161:ASP:O	30:Ac:44:VAL:HA	2.15	0.46
8:AG:211:LEU:O	8:AG:215:ARG:HB2	2.16	0.46
10:AI:66:SER:HB3	10:AI:73:SER:CB	2.46	0.46
20:AS:36:LYS:HB3	20:AS:105:VAL:HG11	1.96	0.46
21:AT:63:ARG:HG3	21:AT:67:MET:CE	2.45	0.46
24:AW:17:ALA:HB2	24:AW:25:VAL:HG13	1.97	0.46
34:Ag:201:THR:HG21	34:Ag:242:SER:HA	1.98	0.46
36:A1:271:C:OP2	86:A1:3576:OHX:N5	2.49	0.46
36:A1:439:C:H5'	36:A1:440:A:C8	2.50	0.46
36:A1:1752:A:OP2	86:A1:3593:OHX:N3	2.49	0.46
36:A1:2093:A:H3'	36:A1:2093:A:N3	2.31	0.46
36:A1:2255:A:H5'	36:A1:2261:G:N2	2.22	0.46
36:A1:2284:C:H5''	36:A1:2285:C:OP2	2.15	0.46
36:A1:3087:A:H5''	40:BB:365:PHE:CD1	2.51	0.46
36:A1:3150:A:C2	36:A1:3151:U:H1'	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3368:U:H4'	36:A1:3369:G:H5'	1.98	0.46
86:A1:3516:OHX:N5	86:A1:3718:OHX:N5	2.64	0.46
86:A1:3604:OHX:N2	86:A1:3816:OHX:N1	2.63	0.46
39:BA:30:ARG:HH22	39:BA:33:ASP:CG	2.24	0.46
40:BB:361:THR:HG22	40:BB:371:GLN:HA	1.98	0.46
45:BG:90:THR:HA	45:BG:214:LEU:HD21	1.97	0.46
46:BH:67:ALA:HA	46:BH:70:THR:HG23	1.97	0.46
48:BJ:41:SER:C	48:BJ:43:GLN:H	2.24	0.46
50:BM:89:ALA:HB1	50:BM:92:GLU:CG	2.45	0.46
60:BW:57:LYS:HE3	60:BW:57:LYS:HB2	1.66	0.46
61:BX:60:TYR:OH	71:Bh:26:LYS:HG3	2.15	0.46
70:Bg:58:ARG:HH11	70:Bg:58:ARG:HG3	1.80	0.46
74:Bk:14:LEU:O	74:Bk:17:ARG:HB2	2.15	0.46
80:A6:538:A:C8	80:A6:543:C:C4	3.04	0.46
80:A6:802:G:C6	80:A6:803:A:N1	2.84	0.46
80:A6:829:A:H5'	80:A6:829:A:H8	1.80	0.46
80:A6:1797:A:N6	28:Ca:84:VAL:HB	2.31	0.46
2:CA:190:ASP:C	2:CA:192:THR:N	2.71	0.46
3:CB:103:MET:HB3	3:CB:215:VAL:CG1	2.45	0.46
6:CE:75:LYS:HD3	6:CE:77:ARG:NH2	2.30	0.46
9:CH:122:HIS:CD2	9:CH:179:LYS:HE3	2.50	0.46
16:CO:83:ILE:HG22	16:CO:117:ASP:HA	1.98	0.46
18:CQ:26:LYS:HB2	18:CQ:26:LYS:HE3	1.74	0.46
19:CR:83:GLN:O	19:CR:85:VAL:HG22	2.16	0.46
28:Ca:11:ASN:O	28:Ca:33:ASP:HB2	2.15	0.46
33:Cf:113:LYS:HE3	33:Cf:113:LYS:HB3	1.61	0.46
36:A5:208:C:H2'	36:A5:209:A:H5'	1.97	0.46
36:A5:726:G:H8	36:A5:726:G:C5'	2.21	0.46
36:A5:736:A:C4	36:A5:737:G:H1'	2.50	0.46
36:A5:1256:G:H2'	36:A5:1257:C:C6	2.49	0.46
36:A5:1674:G:OP2	86:A5:3484:OHX:N1	2.49	0.46
36:A5:2440:G:O2'	36:A5:2441:A:P	2.73	0.46
36:A5:2730:G:H4'	54:DQ:184:PHE:CD1	2.51	0.46
36:A5:3238:G:C5'	36:A5:3238:G:H8	2.29	0.46
40:DB:53:MET:HG2	40:DB:77:THR:HB	1.97	0.46
47:DI:156:ARG:C	47:DI:158:LYS:H	2.24	0.46
47:DI:168:SER:HB2	57:DT:160:ILE:C	2.41	0.46
48:DJ:115:LYS:HB3	48:DJ:116:TYR:H	1.58	0.46
49:DL:168:ARG:O	49:DL:172:LEU:HG	2.15	0.46
53:DP:105:LYS:HB3	53:DP:107:LEU:HD13	1.97	0.46
1:A2:740:A:C2'	1:A2:741:C:H5''	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:92:GLN:O	5:AD:92:GLN:NE2	2.46	0.46
6:AE:212:ASP:OD1	6:AE:214:LEU:N	2.49	0.46
7:AF:100:ASN:O	7:AF:102:ARG:N	2.49	0.46
8:AG:4:ASN:HA	8:AG:15:THR:HG22	1.98	0.46
9:AH:114:ARG:C	9:AH:116:ARG:H	2.23	0.46
15:AN:99:ARG:O	15:AN:103:GLU:HG2	2.16	0.46
16:AO:17:ALA:HB3	16:AO:81:VAL:HB	1.96	0.46
20:AS:146:ALA:H	35:Ah:68:ARG:NH2	2.14	0.46
28:Aa:10:ARG:HB3	28:Aa:34:LYS:HA	1.97	0.46
31:Ad:5:ASN:C	31:Ad:7:TRP:H	2.23	0.46
36:A1:224:C:O2	62:BY:103:LYS:NZ	2.49	0.46
36:A1:663:C:H2'	36:A1:664:U:C6	2.51	0.46
36:A1:1307:G:H1'	36:A1:1308:A:C8	2.50	0.46
36:A1:1389:G:OP2	86:A1:3516:OHX:N4	2.49	0.46
36:A1:1464:G:OP2	86:A1:3806:OHX:N3	2.48	0.46
36:A1:1733:G:O5'	86:A1:3811:OHX:N6	2.48	0.46
36:A1:1764:U:OP1	55:BR:43:LYS:HD2	2.16	0.46
36:A1:2405:C:O2	36:A1:2819:A:N1	2.48	0.46
36:A1:2407:C:H2'	36:A1:2408:U:C6	2.51	0.46
36:A1:3147:G:OP1	86:A1:3657:OHX:N6	2.49	0.46
36:A1:3210:A:H2'	36:A1:3211:C:C6	2.51	0.46
45:BG:107:GLU:O	45:BG:111:LYS:HG3	2.15	0.46
51:BN:164:LEU:HD23	51:BN:172:ARG:HH12	1.80	0.46
52:BO:113[B]:ASP:OD2	52:BO:113[B]:ASP:N	2.49	0.46
59:BV:38:ALA:HB3	59:BV:59:MET:HB2	1.98	0.46
63:BZ:10:VAL:HB	63:BZ:83:THR:CG2	2.46	0.46
68:Be:24:ARG:HD3	68:Be:25:TYR:CZ	2.51	0.46
69:Bf:91:ALA:C	69:Bf:93:THR:H	2.24	0.46
69:Bf:103:TYR:HA	69:Bf:104:PRO:C	2.40	0.46
70:Bg:8:ARG:HH11	70:Bg:8:ARG:CG	2.27	0.46
80:A6:824:G:C6	86:A6:2100:OHX:N3	2.84	0.46
6:CE:141:THR:OG1	6:CE:145:ARG:HB2	2.14	0.46
9:CH:111:LYS:HB3	9:CH:112:ARG:H	1.58	0.46
10:CI:195:ARG:HG2	10:CI:195:ARG:HH11	1.80	0.46
14:CM:131:ASP:CG	14:CM:132:GLU:H	2.23	0.46
17:CP:52:LYS:C	17:CP:54:ALA:H	2.23	0.46
20:CS:27:LYS:HD3	20:CS:57:ARG:NH2	2.31	0.46
34:Cg:260:ILE:HB	34:Cg:274:LEU:CD1	2.39	0.46
36:A5:244:G:C6	36:A5:245:U:C4	3.04	0.46
36:A5:549:U:O4	86:A5:3528:OHX:N4	2.48	0.46
36:A5:611:A:OP2	36:A5:611:A:H4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:627:U:H4'	36:A5:1399:A:O2'	2.16	0.46
36:A5:642:U:O5'	36:A5:642:U:H6	1.99	0.46
36:A5:3225:C:H2'	36:A5:3226:A:O4'	2.15	0.46
86:A5:3465:OHX:N3	86:A5:3810:OHX:N5	2.63	0.46
39:DA:96:LEU:O	79:Dp:87:ARG:HD3	2.16	0.46
42:DD:122:VAL:HG23	42:DD:123:GLU:N	2.30	0.46
47:DI:169:LYS:O	47:DI:170:LYS:HD3	2.15	0.46
67:Dd:46:THR:HG21	67:Dd:91:SER:HB2	1.97	0.46
67:Dd:61:LYS:HE2	67:Dd:61:LYS:HB3	1.38	0.46
73:Dj:18:LEU:HG	75:DI:51:ILE:HG21	1.98	0.46
78:Do:73:GLU:OE1	78:Do:80:ARG:NH1	2.49	0.46
1:A2:494:U:HO2'	1:A2:495:C:P	2.33	0.46
1:A2:871:G:O2'	29:Ab:66:PRO:HB2	2.16	0.46
1:A2:920:U:H2'	1:A2:921:U:O4'	2.15	0.46
1:A2:1250:U:O2'	1:A2:1251:U:OP1	2.31	0.46
1:A2:1459:C:O2	17:AP:128:HIS:NE2	2.38	0.46
1:A2:1657:U:C4	86:A2:1969:OHX:N2	2.84	0.46
86:A2:1917:OHX:N1	25:AX:64:PRO:O	2.48	0.46
2:AA:88:LYS:HE2	2:AA:88:LYS:HA	1.98	0.46
3:AB:30:PHE:CE1	3:AB:96:LEU:HB3	2.50	0.46
18:AQ:47:LYS:HZ1	18:AQ:114:ARG:HH21	1.63	0.46
34:Ag:43:ILE:HA	34:Ag:59:ARG:O	2.16	0.46
36:A1:945:C:H2'	36:A1:946:U:C6	2.51	0.46
36:A1:1571:A:H2'	36:A1:1572:U:O4'	2.15	0.46
36:A1:2655:U:H4'	36:A1:2656:A:O4'	2.15	0.46
36:A1:2882:U:H2'	36:A1:2883:U:C6	2.51	0.46
36:A1:2927:C:H2'	36:A1:2928:C:C6	2.51	0.46
36:A1:2943:G:H2'	36:A1:2944:U:O4'	2.16	0.46
36:A1:3317:U:O2'	86:A1:3569:OHX:N3	2.49	0.46
38:A4:78:G:O2'	38:A4:79:A:H5'	2.16	0.46
39:BA:96:LEU:O	79:Bp:87:ARG:HD3	2.16	0.46
41:BC:148:ILE:HA	41:BC:149:PRO:C	2.39	0.46
43:BE:52:VAL:CG1	43:BE:65:ILE:HG13	2.46	0.46
44:BF:211:SER:N	44:BF:242:SER:O	2.46	0.46
45:BG:63:LYS:O	45:BG:67:ILE:HG13	2.16	0.46
47:BI:19:LYS:HG2	47:BI:26:VAL:HG11	1.98	0.46
47:BI:216:TYR:C	86:BI:303:OHX:N6	2.74	0.46
51:BN:155:VAL:HG23	51:BN:156:HIS:CE1	2.51	0.46
53:BP:39:TRP:O	53:BP:114:VAL:HG12	2.16	0.46
54:BQ:98:LYS:HB3	54:BQ:99:THR:H	1.56	0.46
56:BS:81:TYR:HE1	56:BS:90:MET:HE3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Be:8:LYS:HE3	68:Be:8:LYS:HB2	1.47	0.46
71:Bh:105:ARG:HG3	71:Bh:105:ARG:NH2	2.30	0.46
80:A6:151:G:H21	8:CG:13:GLN:CD	2.22	0.46
80:A6:404:G:H2'	80:A6:405:C:H6	1.81	0.46
80:A6:571:G:H5'	25:CX:114:LYS:HE2	1.98	0.46
80:A6:1152:A:H5''	28:Ca:82:ARG:HH21	1.80	0.46
80:A6:1451:C:H2'	80:A6:1452:U:C6	2.51	0.46
2:CA:7:PHE:HA	2:CA:191:ARG:NH1	2.31	0.46
3:CB:48:VAL:HG12	3:CB:49:ASN:N	2.30	0.46
4:CC:67:GLN:O	4:CC:71:THR:HG23	2.16	0.46
4:CC:125:ILE:O	4:CC:129:ILE:HG13	2.14	0.46
4:CC:203:LYS:O	4:CC:206:THR:HG23	2.15	0.46
5:CD:168:ILE:HA	5:CD:188:ILE:O	2.15	0.46
19:CR:33:ARG:NH2	34:Cg:109:ASP:OD1	2.49	0.46
36:A5:123:A:C6	36:A5:150:A:C5	3.04	0.46
36:A5:1118:C:O5'	36:A5:1118:C:H6	1.99	0.46
36:A5:1284:C:O2'	36:A5:1285:G:H5'	2.16	0.46
36:A5:1473:G:OP2	55:DR:8:LYS:NZ	2.48	0.46
36:A5:2681:U:O2'	36:A5:2682:C:H5'	2.16	0.46
36:A5:3242:G:N2	36:A5:3245:A:H5''	2.30	0.46
39:DA:72:ARG:HG3	39:DA:72:ARG:HH11	1.80	0.46
45:DG:160:ILE:HD12	45:DG:164:VAL:HG13	1.98	0.46
45:DG:202:GLU:O	45:DG:203:VAL:HB	2.15	0.46
45:DG:219:ASP:O	45:DG:223:ALA:HB3	2.16	0.46
61:DX:131:ASP:O	61:DX:135:ILE:HG22	2.15	0.46
75:Dl:3:ALA:H	75:Dl:5:LYS:HE2	1.81	0.46
1:A2:725:U:H2'	1:A2:726:C:O4'	2.16	0.46
1:A2:779:U:O2'	1:A2:780:A:H5''	2.16	0.46
1:A2:795:U:C5	1:A2:796:A:C8	3.04	0.46
1:A2:850:A:C5'	55:BR:165:LYS:HD3	2.46	0.46
1:A2:1082:C:H2'	1:A2:1083:G:H5'	1.98	0.46
1:A2:1629:G:H2'	1:A2:1630:U:H6	1.80	0.46
2:AA:41:ARG:HE	2:AA:45:VAL:CG2	2.29	0.46
3:AB:110:LEU:HA	3:AB:113:MET:HB2	1.98	0.46
12:AK:24:LYS:HB3	12:AK:24:LYS:HE2	1.74	0.46
20:AS:80:LYS:HA	20:AS:80:LYS:HD2	1.54	0.46
31:Ad:42:CYS:O	31:Ad:45:GLU:N	2.49	0.46
36:A1:211:A:OP1	41:BC:220:ARG:NH1	2.49	0.46
36:A1:1180:A:H2'	36:A1:1182:A:H5'	1.97	0.46
36:A1:1626:U:O4	86:A1:3737:OHX:N6	2.48	0.46
36:A1:2677:G:H2'	36:A1:2679:A:C2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3121:U:H1'	36:A1:3122:A:H5''	1.98	0.46
36:A1:3242:G:H2'	40:BB:154:TYR:CD1	2.50	0.46
36:A1:3275:U:C5'	69:Bf:68:TRP:HZ2	2.29	0.46
86:A1:3565:OHX:N6	86:A1:3603:OHX:N5	2.64	0.46
37:A3:79:A:C2	37:A3:102:A:C4	3.04	0.46
38:A4:62:C:H4'	38:A4:63:G:O5'	2.15	0.46
39:BA:204:MET:HE2	39:BA:209:HIS:HB2	1.97	0.46
40:BB:72:VAL:HA	59:BV:88:ARG:O	2.15	0.46
42:BD:234:ASP:OD2	42:BD:234:ASP:N	2.48	0.46
45:BG:121:SER:O	45:BG:123:GLN:N	2.43	0.46
47:BI:19:LYS:HG2	47:BI:26:VAL:HG13	1.98	0.46
47:BI:201:SER:OG	47:BI:203:LYS:HD2	2.15	0.46
64:Ba:94:ALA:HB1	64:Ba:121:VAL:HA	1.98	0.46
72:Bi:70:ARG:HH11	72:Bi:84:LYS:HD3	1.80	0.46
80:A6:595:G:H2'	80:A6:596:C:C6	2.51	0.46
80:A6:1525:A:N3	80:A6:1589:C:O2'	2.47	0.46
86:A6:1933:OHX:N1	86:A6:2068:OHX:N5	2.64	0.46
2:CA:84:ARG:NE	2:CA:201:LEU:O	2.48	0.46
3:CB:133:TYR:CE2	3:CB:181:LEU:HD12	2.51	0.46
6:CE:148:ARG:H	6:CE:148:ARG:HG2	1.46	0.46
13:CL:123:VAL:HG22	13:CL:142:VAL:HG22	1.98	0.46
17:CP:18:ARG:NH1	20:CS:90:ASN:ND2	2.63	0.46
19:CR:103:ASP:H	19:CR:106:THR:HG21	1.81	0.46
29:Cb:61:THR:OG1	29:Cb:62:ILE:N	2.48	0.46
33:Cf:102:VAL:HG22	33:Cf:103:LEU:N	2.31	0.46
36:A5:264:G:O6	86:A5:3806:OHX:N2	2.48	0.46
36:A5:441:U:O2'	36:A5:442:G:O4'	2.22	0.46
36:A5:578:A:H5''	36:A5:579:G:O5'	2.15	0.46
36:A5:655:C:H2'	36:A5:656:A:C8	2.51	0.46
36:A5:709:A:H2'	36:A5:710:A:O4'	2.16	0.46
36:A5:792:G:H2'	36:A5:793:C:C6	2.50	0.46
36:A5:1355:A:H1'	36:A5:1356:U:OP2	2.15	0.46
36:A5:3275:U:C6	36:A5:3275:U:OP1	2.69	0.46
40:DB:229:VAL:HG13	40:DB:235:THR:HG21	1.98	0.46
42:DD:222:LEU:HD23	42:DD:222:LEU:HA	1.77	0.46
45:DG:169:LEU:HD22	45:DG:173:MET:HG2	1.97	0.46
46:DH:93:VAL:O	46:DH:177:ASP:HA	2.16	0.46
47:DI:170:LYS:HG3	47:DI:175:ASN:HA	1.98	0.46
48:DJ:65:ILE:HD13	48:DJ:65:ILE:HG21	1.60	0.46
50:DM:50:LYS:HD3	50:DM:91:CYS:SG	2.56	0.46
58:DU:27:VAL:HG21	58:DU:107:PHE:HE1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DV:71:LYS:HB3	59:DV:71:LYS:HE3	1.59	0.46
1:A2:25:C:OP2	1:A2:26:A:H2'	2.15	0.46
1:A2:491:C:H42	1:A2:496:G:H1	1.63	0.46
1:A2:730:G:H2'	1:A2:730:G:N3	2.31	0.46
1:A2:1228:G:OP2	14:AM:44:GLY:HA2	2.16	0.46
1:A2:1649:G:N7	86:A2:1929:OHX:N1	2.64	0.46
86:A2:1970:OHX:N1	86:A2:2014:OHX:N2	2.64	0.46
3:AB:81:PHE:HD2	3:AB:82:ARG:HG3	1.81	0.46
5:AD:168:ILE:O	5:AD:168:ILE:HD12	2.15	0.46
8:AG:163:THR:HA	8:AG:168:THR:HA	1.98	0.46
10:AI:162:ALA:HA	36:A1:3353:G:H5''	1.98	0.46
10:AI:196:LEU:HD12	10:AI:196:LEU:HA	1.65	0.46
11:AJ:163:PRO:HG2	11:AJ:164:PHE:CD2	2.51	0.46
14:AM:125:ASN:ND2	35:Ah:168:UNK:HA	2.22	0.46
16:AO:85:ALA:N	16:AO:119:THR:HG22	2.18	0.46
20:AS:41:ARG:NH1	21:AT:38:LYS:HG3	2.31	0.46
25:AX:50:LYS:HD3	25:AX:101:GLU:HG2	1.97	0.46
28:Aa:84:VAL:HG13	28:Aa:85:ARG:N	2.31	0.46
36:A1:561:C:H2'	36:A1:562:C:H6	1.79	0.46
36:A1:2101:C:O2'	36:A1:2102:U:H6	1.99	0.46
36:A1:3315:G:C5	40:BB:123:TYR:CE2	3.04	0.46
86:A1:3432:OHX:N2	86:A1:3798:OHX:N4	2.64	0.46
86:A1:3598:OHX:N5	86:A1:3722:OHX:N3	2.64	0.46
40:BB:146:ARG:HD2	40:BB:146:ARG:HA	1.68	0.46
41:BC:291:ASN:O	41:BC:292:SER:C	2.59	0.46
44:BF:82:LYS:H	44:BF:82:LYS:HG2	1.58	0.46
44:BF:214:TRP:CZ2	44:BF:219:LYS:HE3	2.51	0.46
45:BG:206:GLU:H	45:BG:206:GLU:HG3	1.51	0.46
47:BI:42:THR:HG23	47:BI:45:GLU:HB2	1.97	0.46
48:BJ:19:LEU:HA	48:BJ:126:ASP:O	2.15	0.46
51:BN:180:PHE:O	51:BN:184:LYS:HB2	2.16	0.46
52:BO:171[B]:LYS:O	52:BO:175[B]:THR:HG23	2.15	0.46
66:Bc:45:ALA:O	66:Bc:48:THR:HG22	2.16	0.46
68:Be:97:ALA:HB3	68:Be:100:ILE:HG12	1.97	0.46
80:A6:315:A:O2'	86:A6:2017:OHX:N1	2.48	0.46
80:A6:509:G:H2'	80:A6:510:G:O4'	2.16	0.46
80:A6:714:G:N2	80:A6:724:C:O2	2.49	0.46
14:CM:138:GLU:OE2	14:CM:142:GLN:HB3	2.16	0.46
17:CP:15:HIS:HB3	17:CP:22:LEU:HD13	1.97	0.46
21:CT:33:TYR:C	21:CT:35:ASP:H	2.23	0.46
33:Cf:119:ARG:O	33:Cf:132:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:65:A:C4	36:A5:110:G:N7	2.84	0.46
36:A5:546:C:H4'	36:A5:547:G:O5'	2.14	0.46
36:A5:576:C:OP1	44:DF:241:LYS:NZ	2.49	0.46
36:A5:1494:U:H4'	36:A5:1495:U:O5'	2.16	0.46
36:A5:3159:C:H4'	36:A5:3395:G:C5	2.51	0.46
36:A5:3219:G:H1	43:DE:162:SER:HB2	1.81	0.46
36:A5:3243:A:H4'	40:DB:95:THR:HG22	1.97	0.46
86:A5:3514:OHX:N5	86:A7:209:OHX:N2	2.64	0.46
86:A5:3606:OHX:N6	86:A5:3740:OHX:N4	2.64	0.46
37:A7:43:U:C4	37:A7:44:C:C4	3.03	0.46
38:A8:83:C:H4'	38:A8:85:G:N3	2.31	0.46
39:DA:33:ASP:OD2	39:DA:33:ASP:N	2.48	0.46
41:DC:78:GLY:O	41:DC:85:SER:HB3	2.15	0.46
41:DC:209:TYR:O	41:DC:230:VAL:HG22	2.16	0.46
44:DF:158:LYS:O	44:DF:203:TRP:HZ3	1.99	0.46
47:DI:86:HIS:ND1	47:DI:139:ARG:NH1	2.57	0.46
54:DQ:67:ILE:HG23	54:DQ:81:VAL:HG11	1.97	0.46
74:Dk:18:ALA:C	74:Dk:20:VAL:N	2.74	0.46
1:A2:840:U:O2'	1:A2:841:U:H5''	2.15	0.45
1:A2:1111:G:C2'	1:A2:1112:G:H5'	2.46	0.45
1:A2:1316:G:H2'	1:A2:1317:C:H6	1.81	0.45
4:AC:53:ILE:HG23	4:AC:56:ILE:HD12	1.97	0.45
6:AE:32:SER:HB2	6:AE:83:PRO:HD3	1.96	0.45
10:AI:8:ARG:NH2	10:AI:19:ALA:O	2.49	0.45
10:AI:81:VAL:HG12	10:AI:91:VAL:HG22	1.98	0.45
23:AV:71:ARG:HB2	23:AV:83:TRP:CE2	2.51	0.45
24:AW:90:THR:HB	24:AW:94:LEU:HD12	1.98	0.45
25:AX:107:PHE:CD2	25:AX:114:LYS:HB2	2.51	0.45
34:Ag:40:LYS:HA	34:Ag:68:VAL:HG23	1.98	0.45
36:A1:307:A:O2'	36:A1:2223:A:N3	2.43	0.45
36:A1:549:U:H3'	36:A1:550:A:H8	1.81	0.45
36:A1:993:G:N3	36:A1:2637:A:H2'	2.31	0.45
36:A1:1273:A:HO2'	36:A1:1274:A:P	2.36	0.45
36:A1:2105:G:C2'	36:A1:2106:A:H5'	2.45	0.45
36:A1:3108:G:OP2	76:Bm:112:LYS:NZ	2.49	0.45
86:A1:3578:OHX:N2	86:A1:3591:OHX:N5	2.64	0.45
86:A1:3693:OHX:N2	86:A1:3712:OHX:N4	2.64	0.45
39:BA:227:ARG:HG2	39:BA:239:ALA:HB2	1.97	0.45
40:BB:10:ARG:NH2	40:BB:263:SER:O	2.50	0.45
49:BL:141:ALA:O	49:BL:145:PHE:HD2	1.99	0.45
63:BZ:95:VAL:HG13	63:BZ:110:ALA:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Bc:51:LEU:HD22	70:Bg:91:ARG:HB2	1.97	0.45
71:Bh:34:GLN:HB3	71:Bh:38:ARG:HH12	1.80	0.45
73:Bj:48:ASN:OD1	73:Bj:54:LYS:NZ	2.46	0.45
80:A6:38:C:C2'	80:A6:39:A:H5'	2.46	0.45
6:CE:150:PRO:HB2	6:CE:154:ILE:HD12	1.98	0.45
12:CK:32:HIS:CG	12:CK:33:GLU:H	2.35	0.45
15:CN:117:LEU:HA	15:CN:117:LEU:HD23	1.65	0.45
32:Ce:56:MET:HB2	32:Ce:56:MET:HE3	1.54	0.45
81:Ch:45:SER:C	81:Ch:46:LYS:HG3	2.41	0.45
36:A5:769:G:O2'	49:DL:168:ARG:NH2	2.48	0.45
36:A5:1019:G:O6	86:A5:3781:OHX:N1	2.49	0.45
36:A5:1124:U:O4	86:A5:3642:OHX:N3	2.48	0.45
36:A5:1816:A:C2'	36:A5:1817:G:H5''	2.46	0.45
36:A5:1889:G:OP1	40:DB:247:ARG:HG3	2.16	0.45
36:A5:2180:G:H2'	36:A5:2181:C:C6	2.51	0.45
36:A5:3287:U:N3	36:A5:3288:G:N7	2.64	0.45
86:A5:3542:OHX:N2	86:A5:3662:OHX:N6	2.64	0.45
86:A5:3548:OHX:N3	86:A5:3595:OHX:N6	2.64	0.45
37:A7:22:A:C6	37:A7:23:A:C6	3.04	0.45
38:A8:155:A:H2'	38:A8:156:U:O4'	2.16	0.45
41:DC:152:VAL:HG22	41:DC:172:VAL:HG21	1.97	0.45
45:DG:71:VAL:HG13	45:DG:235:GLY:N	2.30	0.45
45:DG:123:GLN:C	45:DG:125:ALA:H	2.24	0.45
48:DJ:171:VAL:HG13	48:DJ:172:LEU:N	2.31	0.45
82:DK:125:UNK:O	82:DK:126:UNK:C	2.62	0.45
57:DT:160:ILE:HD12	57:DT:160:ILE:HA	1.67	0.45
63:DZ:46:ILE:HD11	63:DZ:49:TYR:CE2	2.51	0.45
65:Db:14:ARG:CZ	65:Db:18:ARG:HH11	2.29	0.45
83:Dq:12:PHE:H	83:Dq:12:PHE:HD2	1.64	0.45
83:Dq:45:LEU:HD22	83:Dq:49:ALA:HB3	1.97	0.45
1:A2:287:G:O2'	1:A2:288:A:P	2.74	0.45
1:A2:381:C:H1'	1:A2:756:A:C2	2.51	0.45
1:A2:501:U:H2'	1:A2:502:U:C6	2.51	0.45
1:A2:579:A:H2	5:AD:143:ARG:HG3	1.82	0.45
1:A2:767:U:H6	11:AJ:141:VAL:HA	1.81	0.45
2:AA:52:LYS:NZ	23:AV:82:VAL:O	2.35	0.45
2:AA:80:THR:C	2:AA:82:GLY:H	2.25	0.45
8:AG:28:PHE:C	8:AG:30:LYS:H	2.25	0.45
9:AH:12:ALA:HB3	9:AH:13:PRO:HD3	1.98	0.45
9:AH:173:TYR:HE1	9:AH:179:LYS:HB2	1.80	0.45
14:AM:50:LYS:HZ1	33:Af:131:PHE:HE2	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:66:VAL:HG11	14:AM:71:ILE:HG21	1.97	0.45
21:AT:28:LEU:O	21:AT:29:GLU:HB2	2.17	0.45
21:AT:85:SER:C	21:AT:87:GLY:H	2.24	0.45
24:AW:7:LEU:HD22	24:AW:11:LEU:HG	1.97	0.45
25:AX:88:PRO:O	25:AX:89:ASN:HB2	2.17	0.45
36:A1:677:A:H4'	36:A1:678:G:O5'	2.15	0.45
36:A1:1080:A:OP2	42:BD:140:ARG:NH2	2.48	0.45
36:A1:1282:G:C6	36:A1:1283:C:C4	3.04	0.45
36:A1:1495:U:C5	36:A1:1835:A:N1	2.76	0.45
36:A1:1507:G:N7	53:BP:129:THR:CG2	2.77	0.45
36:A1:1618:G:H4'	38:A4:129:C:H1'	1.98	0.45
36:A1:2995:A:H2'	36:A1:2996:U:H5''	1.98	0.45
36:A1:2999:U:O4	86:A1:3659:OHX:N5	2.50	0.45
86:A1:3578:OHX:N6	86:A1:3591:OHX:N5	2.64	0.45
37:A3:60:G:H2'	37:A3:61:G:H8	1.81	0.45
37:A3:93:C:O2'	37:A3:94:C:H5'	2.16	0.45
42:BD:143:LYS:HG3	42:BD:172:TYR:HD2	1.80	0.45
44:BF:80:GLN:OE1	57:BT:136:ARG:HG2	2.16	0.45
45:BG:230:LYS:HA	45:BG:230:LYS:HD2	1.73	0.45
46:BH:41:ILE:O	46:BH:42:ASP:HB2	2.15	0.45
46:BH:92:TYR:HB2	46:BH:142:ASP:HB3	1.98	0.45
51:BN:190:THR:HB	51:BN:193:ARG:NH2	2.31	0.45
53:BP:171:ARG:H	53:BP:171:ARG:HG3	1.52	0.45
57:BT:160:ILE:HD12	57:BT:160:ILE:HA	1.73	0.45
65:Bb:14:ARG:HH12	65:Bb:18:ARG:HH11	1.65	0.45
69:Bf:91:ALA:C	69:Bf:93:THR:N	2.73	0.45
70:Bg:104:VAL:HA	70:Bg:107:GLU:OE2	2.16	0.45
80:A6:16:G:H2'	80:A6:17:C:C6	2.51	0.45
80:A6:1460:A:OP2	81:Ch:68:ARG:HD3	2.17	0.45
80:A6:1595:U:H3'	80:A6:1596:C:O2	2.15	0.45
4:CC:49:LYS:HD3	4:CC:49:LYS:HA	1.81	0.45
7:CF:81:ARG:HD3	7:CF:82:PHE:CE2	2.51	0.45
9:CH:81:LEU:HD22	9:CH:81:LEU:HA	1.86	0.45
10:CI:97:THR:O	10:CI:100:ALA:HB2	2.17	0.45
14:CM:54:ARG:HD3	14:CM:56:GLU:CD	2.41	0.45
15:CN:127:ARG:HH11	15:CN:127:ARG:HG2	1.80	0.45
30:Cc:32:PHE:O	30:Cc:34:GLU:N	2.47	0.45
36:A5:173:G:H1'	36:A5:174:C:H5'	1.98	0.45
36:A5:312:C:O2'	36:A5:313:A:H5'	2.16	0.45
36:A5:958:C:C4	36:A5:960:U:H1'	2.51	0.45
36:A5:1354:G:C6	36:A5:1358:C:H5'	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2202:C:C1'	39:DA:224:THR:HG23	2.46	0.45
36:A5:2209:U:H1'	36:A5:2210:G:H5''	1.99	0.45
36:A5:2428:U:O4	86:A5:3758:OHX:N5	2.48	0.45
36:A5:2894:C:OP1	46:DH:168:ARG:HD2	2.17	0.45
36:A5:3163:A:O2'	36:A5:3164:C:H5'	2.16	0.45
36:A5:3227:A:O2'	50:DM:133:LYS:NZ	2.22	0.45
86:A5:3548:OHX:N1	86:A5:3595:OHX:N2	2.64	0.45
86:A5:3548:OHX:N3	86:A5:3595:OHX:N4	2.64	0.45
37:A7:58:C:OP1	86:A7:202:OHX:N3	2.49	0.45
38:A8:73:U:OP1	62:DY:24:SER:OG	2.30	0.45
38:A8:150:G:N7	86:A8:206:OHX:N5	2.65	0.45
39:DA:204:MET:HE3	39:DA:208:ASP:CB	2.45	0.45
40:DB:68:HIS:CD2	40:DB:69:LYS:HG3	2.50	0.45
42:DD:95:TRP:HZ3	42:DD:156:GLY:O	1.99	0.45
44:DF:219:LYS:HA	44:DF:228:SER:HB2	1.97	0.45
45:DG:156:ASP:OD1	45:DG:183:LYS:HG2	2.15	0.45
52:DO:167[B]:TYR:CD1	52:DO:167[B]:TYR:C	2.92	0.45
53:DP:26:PHE:HE1	53:DP:120:ASN:HA	1.81	0.45
54:DQ:94:PHE:CZ	64:Da:119:PRO:HD3	2.51	0.45
59:DV:46:LEU:HG	59:DV:47:ASN:OD1	2.15	0.45
59:DV:120:LYS:H	59:DV:137:VAL:HG23	1.81	0.45
61:DX:40:LEU:HA	61:DX:40:LEU:HD13	1.82	0.45
68:De:123:LYS:O	68:De:124:GLY:O	2.34	0.45
1:A2:149:C:OP1	26:AY:121:THR:OG1	2.26	0.45
1:A2:196:G:O2'	1:A2:197:A:OP2	2.35	0.45
1:A2:260:U:H5'	1:A2:261:U:H5''	1.98	0.45
1:A2:702:G:C6	1:A2:737:A:C6	3.03	0.45
1:A2:926:A:OP1	1:A2:1016:C:O2'	2.22	0.45
1:A2:1363:U:O2	1:A2:1363:U:H2'	2.16	0.45
86:A2:1940:OHX:N4	86:Ad:101:OHX:N6	2.65	0.45
2:AA:76:ILE:O	2:AA:124:THR:HG23	2.15	0.45
2:AA:148:ASP:OD1	2:AA:149:LEU:N	2.45	0.45
3:AB:180:THR:HB	3:AB:181:LEU:HD22	1.98	0.45
5:AD:11:LEU:HD12	22:AU:86:ILE:HG12	1.99	0.45
7:AF:166:ARG:HH12	7:AF:170:GLN:HE22	1.64	0.45
9:AH:16:LEU:HD22	9:AH:58:LEU:HD21	1.99	0.45
11:AJ:83:VAL:HG23	11:AJ:85:VAL:HG23	1.99	0.45
36:A1:147:U:O4	45:BG:157:VAL:HA	2.15	0.45
36:A1:1804:A:H2'	36:A1:1805:C:C6	2.52	0.45
36:A1:2535:A:H3'	36:A1:2536:A:C8	2.50	0.45
36:A1:2960:C:H2'	36:A1:2961:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3107:U:P	76:Bm:112:LYS:HE2	2.56	0.45
36:A1:3214:U:C4	50:BM:121:MET:HG3	2.51	0.45
36:A1:3272:C:O2	43:BE:80:ASN:HB2	2.16	0.45
86:A1:3701:OHX:N2	75:Bl:48:LYS:O	2.50	0.45
40:BB:188:ILE:CD1	40:BB:188:ILE:H	2.28	0.45
40:BB:211:GLN:HE21	40:BB:284:ARG:HA	1.81	0.45
50:BM:27:GLN:H	50:BM:27:GLN:HG2	1.42	0.45
63:BZ:46:ILE:HD11	63:BZ:49:TYR:CD2	2.52	0.45
65:Bb:22:LYS:H	65:Bb:22:LYS:HG2	1.46	0.45
80:A6:512:A:H2'	80:A6:513:U:C6	2.51	0.45
80:A6:567:A:N1	80:A6:583:C:H1'	2.31	0.45
80:A6:647:G:H22	80:A6:687:G:H1	1.63	0.45
80:A6:675:U:O2'	80:A6:676:G:H5'	2.16	0.45
80:A6:696:C:H4'	80:A6:697:C:H6	1.81	0.45
80:A6:767:U:C5	11:CJ:142:ASN:ND2	2.81	0.45
86:A6:1909:OHX:N1	86:A6:2086:OHX:N4	2.64	0.45
2:CA:80:THR:HA	2:CA:83:GLN:OE1	2.17	0.45
3:CB:126:THR:HG22	3:CB:136:ARG:HE	1.81	0.45
4:CC:188:LEU:HD13	4:CC:196:VAL:HG11	1.98	0.45
9:CH:91:ILE:HD12	9:CH:92:PHE:H	1.82	0.45
14:CM:29:LYS:HE2	14:CM:100:TRP:HE1	1.82	0.45
16:CO:112:ILE:O	28:Ca:57:SER:HA	2.16	0.45
20:CS:127:HIS:CD2	20:CS:133:VAL:HG11	2.51	0.45
22:CU:98:GLN:O	22:CU:102:ARG:HB3	2.16	0.45
27:CZ:61:SER:H	27:CZ:64:VAL:CG2	2.29	0.45
36:A5:290:G:H4'	51:DN:69:GLY:O	2.16	0.45
36:A5:1464:G:N7	86:A5:3488:OHX:N3	2.64	0.45
36:A5:1710:C:H2'	36:A5:1711:C:H6	1.81	0.45
36:A5:1952:G:H1	36:A5:2094:C:N4	2.09	0.45
86:A5:3474:OHX:N5	86:A5:3681:OHX:N5	2.63	0.45
38:A8:38:U:C4	71:Dh:89:ARG:HD2	2.51	0.45
47:DI:74:LYS:HD3	47:DI:74:LYS:HA	1.75	0.45
49:DL:126:PHE:HB2	71:Dh:115:LYS:HB3	1.98	0.45
64:Da:126:LYS:HA	64:Da:146:GLU:O	2.15	0.45
66:Dc:99:ASP:HB2	66:Dc:103:THR:HG23	1.97	0.45
1:A2:66:U:OP1	8:AG:136:LYS:NZ	2.41	0.45
1:A2:72:A:C2	1:A2:73:U:C4	3.05	0.45
1:A2:492:A:H2'	1:A2:494:U:H5''	1.98	0.45
1:A2:711:U:C1'	1:A2:712:G:H5'	2.43	0.45
1:A2:960:U:H2'	1:A2:961:U:H6	1.81	0.45
1:A2:1480:G:H3'	1:A2:1481:C:H6	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:108:THR:HG23	2:AA:135:GLU:OE1	2.16	0.45
3:AB:101:HIS:O	3:AB:217:LEU:HD13	2.16	0.45
8:AG:137:ARG:HD3	8:AG:177:ARG:HE	1.80	0.45
8:AG:147:LEU:O	8:AG:148:SER:OG	2.34	0.45
9:AH:22:GLN:HA	9:AH:25:VAL:HG23	1.99	0.45
23:AV:1:MET:HE2	23:AV:13:VAL:HG22	1.99	0.45
27:AZ:70:LYS:HD3	27:AZ:70:LYS:HA	1.69	0.45
30:Ac:64:ARG:HD2	30:Ac:64:ARG:HA	1.51	0.45
36:A1:209:A:H4'	36:A1:211:A:C8	2.52	0.45
36:A1:563:U:P	56:BS:71:LYS:HZ1	2.36	0.45
36:A1:634:C:O2'	68:Be:47:ARG:HD3	2.15	0.45
36:A1:879:U:O2	36:A1:2357:A:H1'	2.16	0.45
36:A1:1162:U:H4'	68:Be:57:TYR:CE1	2.52	0.45
36:A1:1307:G:C2	36:A1:1308:A:C2	3.05	0.45
36:A1:2442:G:H2'	36:A1:2443:A:H5''	1.99	0.45
36:A1:3107:U:OP2	76:Bm:112:LYS:HE2	2.16	0.45
37:A3:95:A:OP2	86:A3:211:OHX:N4	2.50	0.45
41:BC:71:VAL:HG13	41:BC:76:ARG:NH1	2.32	0.45
42:BD:236:LEU:HD12	42:BD:236:LEU:HA	1.78	0.45
51:BN:57:GLN:H	51:BN:57:GLN:HG3	1.55	0.45
52:BO:42[A]:ASN:OD1	52:BO:125[A]:ARG:HD3	2.16	0.45
56:BS:79:VAL:CG2	56:BS:106:LEU:HD11	2.46	0.45
65:Bb:12:GLN:OE1	65:Bb:15:LYS:HE2	2.17	0.45
72:Bi:54:GLU:HB3	72:Bi:90:MET:HE3	1.98	0.45
80:A6:676:G:H2'	80:A6:677:G:H8	1.80	0.45
80:A6:952:A:H5'	15:CN:98:VAL:HG22	1.97	0.45
80:A6:1391:A:H2'	80:A6:1392:U:H6	1.81	0.45
3:CB:183:GLN:OE1	3:CB:183:GLN:N	2.43	0.45
20:CS:13:HIS:O	20:CS:14:ILE:HG22	2.17	0.45
36:A5:92:G:H5'	36:A5:93:C:H5''	1.98	0.45
36:A5:138:U:H2'	36:A5:139:G:C8	2.52	0.45
36:A5:272:G:OP2	86:A5:3588:OHX:N6	2.49	0.45
36:A5:1257:C:H2'	36:A5:1258:U:O4'	2.16	0.45
36:A5:1614:C:H2'	36:A5:1615:C:H6	1.81	0.45
36:A5:1635:G:OP1	63:DZ:107:ARG:NH2	2.41	0.45
36:A5:1686:U:O2	36:A5:1688:U:H1'	2.17	0.45
36:A5:2772:C:H1'	36:A5:2773:C:OP2	2.16	0.45
36:A5:3206:C:O2	56:DS:155:ARG:NH1	2.49	0.45
39:DA:53:GLY:O	39:DA:192:LYS:HE3	2.15	0.45
46:DH:103:ILE:HD11	46:DH:134:ILE:HG21	1.97	0.45
48:DJ:13:LYS:HE2	48:DJ:132:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:DZ:54:THR:HG22	63:DZ:57:HIS:NE2	2.31	0.45
66:Dc:96:GLY:C	66:Dc:98:SER:H	2.25	0.45
68:De:4:LEU:HD13	68:De:90:LYS:HB3	1.97	0.45
1:A2:132:U:C1'	1:A2:133:U:OP2	2.58	0.45
1:A2:139:C:H4'	1:A2:140:A:O5'	2.17	0.45
1:A2:153:G:OP2	26:AY:131:ARG:NH1	2.38	0.45
1:A2:196:G:HO2'	1:A2:197:A:H8	1.59	0.45
1:A2:330:G:OP2	10:AI:172:ARG:NH1	2.42	0.45
1:A2:616:G:C2	1:A2:622:A:N7	2.84	0.45
1:A2:1060:U:H5''	1:A2:1061:A:OP2	2.16	0.45
1:A2:1138:A:H2'	1:A2:1139:A:C8	2.51	0.45
1:A2:1217:A:H5'	1:A2:1217:A:C8	2.51	0.45
1:A2:1727:G:H2'	1:A2:1728:A:C8	2.51	0.45
3:AB:55:LYS:HA	3:AB:55:LYS:HD3	1.67	0.45
3:AB:110:LEU:CD2	3:AB:213:ARG:HD2	2.46	0.45
6:AE:163:ASP:HB3	6:AE:166:SER:O	2.16	0.45
7:AF:64:VAL:HG12	7:AF:65:ARG:HD3	1.97	0.45
9:AH:46:ILE:HD11	9:AH:60:ILE:HG12	1.98	0.45
9:AH:104:ARG:HB2	9:AH:105:THR:H	1.45	0.45
11:AJ:118:LEU:HG	11:AJ:158:PHE:CZ	2.51	0.45
15:AN:27:LYS:H	15:AN:27:LYS:CE	2.26	0.45
18:AQ:107:LYS:O	18:AQ:111:SER:HB2	2.16	0.45
18:AQ:143:ARG:HE	18:AQ:143:ARG:HB2	1.58	0.45
34:Ag:42:LEU:HB2	34:Ag:61:PHE:HB2	1.98	0.45
36:A1:65:A:C4	36:A1:110:G:N7	2.84	0.45
36:A1:240:U:H4'	36:A1:241:G:OP1	2.15	0.45
36:A1:1307:G:H1'	36:A1:1308:A:N7	2.31	0.45
36:A1:1763:U:H3'	36:A1:1764:U:C6	2.52	0.45
36:A1:1845:G:C5'	36:A1:1845:G:C8	3.00	0.45
36:A1:2135:U:O2'	36:A1:2136:C:H5'	2.17	0.45
36:A1:2767:U:OP1	78:Bo:33:ALA:O	2.34	0.45
42:BD:105:ILE:O	42:BD:109:THR:HG23	2.16	0.45
45:BG:89:GLU:HB3	45:BG:214:LEU:HD11	1.98	0.45
47:BI:86:HIS:HB3	47:BI:139:ARG:CG	2.46	0.45
59:BV:33:ASN:ND2	59:BV:63:LYS:H	2.14	0.45
80:A6:272:U:H4'	80:A6:273:G:O5'	2.17	0.45
80:A6:421:A:O2'	80:A6:422:G:H5'	2.16	0.45
2:CA:142:PRO:HB3	23:CV:34:ILE:HD13	1.99	0.45
4:CC:174:ARG:HA	4:CC:195:ASP:OD2	2.17	0.45
12:CK:58:GLN:O	12:CK:65:TYR:N	2.48	0.45
26:CY:34:ASN:O	26:CY:35:VAL:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:562:C:OP2	50:DM:77:ARG:NH1	2.49	0.45
36:A5:1096:U:H4'	36:A5:1097:G:O5'	2.16	0.45
36:A5:1567:U:H2'	36:A5:1568:U:C4'	2.47	0.45
36:A5:2897:A:H2'	36:A5:2899:C:H5'	1.97	0.45
36:A5:2992:U:H1'	53:DP:69:ARG:NH2	2.32	0.45
86:A5:3521:OHX:N3	86:A5:3768:OHX:N5	2.64	0.45
49:DL:67:ARG:H	49:DL:67:ARG:HG3	1.40	0.45
55:DR:90:PRO:HG2	55:DR:93:VAL:CG2	2.47	0.45
56:DS:155:ARG:HD3	56:DS:172:TYR:CD2	2.52	0.45
58:DU:12:ALA:HB2	58:DU:68:THR:HG23	1.97	0.45
63:DZ:46:ILE:HD12	63:DZ:47:GLU:N	2.32	0.45
66:Dc:22:LYS:HB2	66:Dc:94:GLU:HB2	1.99	0.45
69:Df:85:PHE:CZ	69:Df:89:LEU:HD11	2.52	0.45
1:A2:273:G:H1	1:A2:283:U:H3	1.65	0.45
1:A2:348:U:OP1	13:AL:85:VAL:HG11	2.17	0.45
1:A2:1256:A:H4'	1:A2:1257:U:O5'	2.17	0.45
1:A2:1417:A:OP1	86:A2:1950:OHX:N5	2.49	0.45
86:A2:1918:OHX:N3	86:A2:2051:OHX:N1	2.65	0.45
4:AC:140:ARG:NH2	4:AC:229:LEU:HD22	2.32	0.45
5:AD:84:ILE:HD13	5:AD:85:VAL:N	2.32	0.45
5:AD:132:LYS:HB3	5:AD:189:MET:HG3	1.99	0.45
21:AT:135:ILE:H	21:AT:135:ILE:HG13	1.53	0.45
28:Aa:18:VAL:O	28:Aa:19:LYS:HB2	2.16	0.45
35:Ah:54:PRO:HB2	35:Ah:59:GLY:HA2	1.98	0.45
36:A1:22:G:H1'	38:A4:104:A:N3	2.32	0.45
36:A1:119:U:C2	45:BG:138:HIS:CE1	3.05	0.45
36:A1:282:G:C8	36:A1:282:G:H3'	2.51	0.45
36:A1:608:A:C4	43:BE:22:ARG:NH1	2.85	0.45
36:A1:908:G:O6	36:A1:925:A:O2'	2.33	0.45
36:A1:1629:U:O4	63:BZ:111:LYS:HD2	2.17	0.45
36:A1:1815:U:H1'	36:A1:1816:A:O5'	2.16	0.45
36:A1:1849:C:H6	36:A1:1849:C:H5'	1.82	0.45
36:A1:2206:G:N3	36:A1:2206:G:H2'	2.32	0.45
36:A1:2339:C:P	59:BV:48:ARG:HG2	2.57	0.45
36:A1:2578:U:OP1	86:A1:3708:OHX:N5	2.50	0.45
36:A1:2814:G:OP1	41:BC:73:ARG:NH2	2.49	0.45
38:A4:26:U:H2'	38:A4:27:U:C6	2.51	0.45
41:BC:74:ILE:HG22	41:BC:75:PRO:HD2	1.97	0.45
47:BI:48:LEU:O	47:BI:139:ARG:HA	2.17	0.45
48:BJ:23:VAL:O	48:BJ:25:GLU:N	2.39	0.45
51:BN:28:TRP:O	51:BN:32:GLN:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BO:116[A]:LYS:HG3	52:BO:117[A]:ARG:N	2.30	0.45
52:BO:195[B]:ALA:O	52:BO:198[B]:GLY:N	2.26	0.45
64:Ba:90:TYR:HB3	64:Ba:100:PRO:HG3	1.98	0.45
66:Bc:16:LEU:HD22	66:Bc:19:LYS:HE3	1.99	0.45
80:A6:602:U:H2'	80:A6:603:U:C6	2.51	0.45
80:A6:1234:A:C1'	33:Cf:146:SER:HB3	2.47	0.45
5:CD:62:ASN:O	5:CD:62:ASN:ND2	2.50	0.45
8:CG:5:ILE:HG12	8:CG:111:LEU:HD12	1.98	0.45
8:CG:169:TYR:C	8:CG:169:TYR:CD2	2.95	0.45
12:CK:54:TYR:CD2	12:CK:75:TYR:HB2	2.52	0.45
19:CR:26:LEU:HD22	19:CR:59:LYS:HA	1.97	0.45
24:CW:7:LEU:HD23	24:CW:7:LEU:HA	1.77	0.45
36:A5:181:U:H6	36:A5:181:U:O5'	2.00	0.45
36:A5:430:U:OP2	86:A5:3497:OHX:N5	2.49	0.45
36:A5:499:G:H2'	36:A5:500:C:C6	2.52	0.45
36:A5:620:U:H5''	36:A5:621:A:O5'	2.16	0.45
36:A5:731:U:H2'	36:A5:732:C:C6	2.52	0.45
36:A5:1307:G:H5''	52:DO:60[A]:LYS:NZ	2.32	0.45
36:A5:1391:C:C2	68:De:103:LYS:HD3	2.52	0.45
36:A5:1801:U:H2'	36:A5:1802:C:C6	2.52	0.45
36:A5:1838:G:H4'	36:A5:1839:A:N3	2.32	0.45
36:A5:2202:C:H5''	39:DA:226:SER:N	2.30	0.45
36:A5:2298:U:O4	36:A5:2923:U:H5	2.00	0.45
36:A5:2304:C:C5	36:A5:2305:G:C6	3.04	0.45
86:A5:3469:OHX:N4	45:DG:54:GLU:OE2	2.50	0.45
37:A7:1:G:H21	42:DD:269:SER:CB	2.30	0.45
37:A7:3:U:H2'	37:A7:4:U:C6	2.51	0.45
38:A8:62:C:H4'	38:A8:63:G:O5'	2.16	0.45
38:A8:154:C:H2'	38:A8:155:A:O4'	2.16	0.45
39:DA:137:ILE:HG12	39:DA:147:ARG:HG3	1.98	0.45
40:DB:331:ASN:OD1	40:DB:331:ASN:N	2.49	0.45
41:DC:338:LYS:O	41:DC:340:GLY:N	2.50	0.45
44:DF:221:LYS:O	44:DF:228:SER:O	2.34	0.45
45:DG:99:PRO:HG2	45:DG:190:VAL:HG13	1.99	0.45
48:DJ:8:PRO:HD2	48:DJ:10:ARG:HG2	1.99	0.45
55:DR:7:GLN:H	55:DR:7:GLN:HG2	1.41	0.45
65:Db:24:PRO:CD	65:Db:25:LYS:H	2.29	0.45
1:A2:782:U:C4'	1:A2:783:G:OP2	2.64	0.45
4:AC:140:ARG:HB3	4:AC:221:THR:HB	1.99	0.45
7:AF:97:LEU:HD23	7:AF:97:LEU:HA	1.79	0.45
22:AU:27:THR:HB	22:AU:88:LYS:CG	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Ac:19:THR:O	30:Ac:23:GLY:HA2	2.17	0.45
34:Ag:16:HIS:CD2	34:Ag:20:VAL:HG22	2.52	0.45
36:A1:547:G:HO2'	36:A1:548:G:C1'	2.28	0.45
36:A1:944:C:H4'	68:Be:33:ARG:NH1	2.32	0.45
36:A1:1245:A:C3'	36:A1:1246:G:H5''	2.47	0.45
36:A1:1509:A:H2'	36:A1:1510:G:C8	2.52	0.45
36:A1:2775:U:H2'	36:A1:2776:C:C6	2.51	0.45
86:A1:3598:OHX:N2	86:A1:3722:OHX:N4	2.65	0.45
86:A1:3785:OHX:N4	60:BW:50:ALA:HB2	2.31	0.45
39:BA:204:MET:HB2	39:BA:208:ASP:HB2	1.98	0.45
40:BB:21:ARG:NH1	40:BB:269:GLN:OE1	2.50	0.45
41:BC:49:ALA:HA	41:BC:109:TRP:CZ2	2.52	0.45
41:BC:338:LYS:HA	41:BC:338:LYS:HD2	1.55	0.45
42:BD:31:TYR:O	42:BD:35:ARG:HD2	2.17	0.45
50:BM:72:LEU:HD22	50:BM:73:PRO:HD2	1.97	0.45
53:BP:67:ILE:HA	53:BP:67:ILE:HD12	1.65	0.45
54:BQ:57:ILE:HG21	54:BQ:57:ILE:HD13	1.50	0.45
56:BS:2:ALA:HB3	56:BS:32:SER:HB3	1.99	0.45
58:BU:53:ALA:O	58:BU:68:THR:HG22	2.16	0.45
67:Bd:11:GLU:OE2	67:Bd:74:ARG:NH2	2.43	0.45
79:Bp:50:GLY:O	79:Bp:51:ALA:HB3	2.17	0.45
80:A6:220:A:H3'	80:A6:832:U:H1'	1.99	0.45
80:A6:234:G:H3'	80:A6:234:G:N3	2.31	0.45
80:A6:691:C:P	80:A6:696:C:H41	2.39	0.45
80:A6:1089:U:O2'	80:A6:1090:C:H5'	2.16	0.45
86:A6:1956:OHX:N3	86:A6:2058:OHX:N5	2.65	0.45
17:CP:43:ARG:NH1	17:CP:47:ARG:HD3	2.31	0.45
20:CS:102:ALA:O	20:CS:105:VAL:HG13	2.16	0.45
21:CT:118:PRO:O	21:CT:119:LYS:HB2	2.16	0.45
22:CU:65:ILE:HG21	31:Cd:43:PHE:CE1	2.51	0.45
32:Ce:13:LYS:HE3	32:Ce:17:GLN:HE22	1.82	0.45
34:Cg:100:TYR:HD2	34:Cg:100:TYR:HA	1.70	0.45
34:Cg:250:TYR:CD1	34:Cg:250:TYR:N	2.85	0.45
36:A5:182:U:H4'	36:A5:182:U:OP1	2.16	0.45
36:A5:208:C:O2'	36:A5:209:A:H5'	2.16	0.45
36:A5:1012:G:O2'	36:A5:1013:G:H5'	2.16	0.45
36:A5:1408:G:P	68:De:33:ARG:HH22	2.39	0.45
36:A5:1565:G:C2	36:A5:1566:A:H1'	2.51	0.45
36:A5:1655:G:H5''	36:A5:1655:G:C8	2.51	0.45
36:A5:2949:U:C5	36:A5:2950:G:C6	3.05	0.45
86:A5:3515:OHX:N6	86:A5:3723:OHX:N5	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DB:81:THR:O	40:DB:81:THR:CG2	2.64	0.45
48:DJ:20:ASN:HB3	48:DJ:126:ASP:HB2	1.98	0.45
48:DJ:107:ASP:O	48:DJ:108:GLU:HG2	2.17	0.45
53:DP:31:GLU:CG	53:DP:60:PHE:HA	2.46	0.45
55:DR:143:ILE:HG22	55:DR:144:GLN:N	2.31	0.45
62:DY:83:ASP:O	62:DY:84:LYS:HB2	2.17	0.45
68:De:24:ARG:HG2	68:De:25:TYR:CE2	2.51	0.45
68:De:119:VAL:O	68:De:122:PRO:HD3	2.17	0.45
1:A2:131:C:HO2'	1:A2:132:U:P	2.39	0.45
1:A2:156:A:H2'	1:A2:157:A:O4'	2.17	0.45
1:A2:187:G:C4'	1:A2:188:A:OP1	2.61	0.45
1:A2:240:U:OP1	1:A2:240:U:H4'	2.16	0.45
1:A2:277:U:H2'	1:A2:278:U:OP1	2.17	0.45
1:A2:489:C:N4	1:A2:497:G:H22	2.15	0.45
1:A2:717:C:H42	1:A2:720:G:N2	2.09	0.45
1:A2:1194:A:H2'	1:A2:1195:C:H5'	1.98	0.45
1:A2:1277:G:H2'	1:A2:1278:G:O4'	2.17	0.45
2:AA:131:GLN:O	2:AA:135:GLU:HB2	2.17	0.45
4:AC:81:MET:HE1	4:AC:186:LYS:HB3	1.99	0.45
5:AD:97:SER:O	5:AD:98:ALA:C	2.60	0.45
7:AF:143:ARG:HD3	30:Ac:55:VAL:HG11	1.99	0.45
8:AG:31:ARG:H	8:AG:34:GLN:HG3	1.82	0.45
8:AG:153:VAL:HG12	8:AG:154:ARG:N	2.31	0.45
8:AG:211:LEU:HD11	8:AG:215:ARG:NH2	2.32	0.45
9:AH:39:ARG:N	9:AH:40:PRO:HD2	2.32	0.45
11:AJ:85:VAL:HG12	11:AJ:99:LEU:HD11	1.98	0.45
12:AK:33:GLU:OE1	12:AK:33:GLU:N	2.46	0.45
17:AP:22:LEU:HD13	17:AP:26:LEU:HD11	1.99	0.45
21:AT:135:ILE:HA	21:AT:138:GLN:HG3	1.99	0.45
26:AY:35:VAL:O	26:AY:36:SER:HB3	2.16	0.45
30:Ac:49:ARG:HG2	30:Ac:52:ASP:OD1	2.16	0.45
36:A1:371:G:H4'	36:A1:396:A:N1	2.32	0.45
36:A1:981:U:C6	36:A1:981:U:H3'	2.52	0.45
36:A1:1325:U:H6	36:A1:1325:U:H5''	1.82	0.45
36:A1:1634:G:OP1	63:BZ:107:ARG:NH1	2.50	0.45
36:A1:3084:C:O2	36:A1:3332:U:H5''	2.16	0.45
36:A1:3139:A:O4'	40:BB:18:PRO:HD2	2.17	0.45
40:BB:102:LEU:H	40:BB:102:LEU:HD23	1.82	0.45
42:BD:260:PHE:HD1	42:BD:264:GLN:HE21	1.65	0.45
49:BL:64:LYS:HE3	64:Ba:69:TRP:CD1	2.51	0.45
49:BL:124:ILE:HD11	49:BL:126:PHE:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BM:102:LYS:HE3	50:BM:102:LYS:HB2	1.55	0.45
51:BN:186:GLY:O	51:BN:190:THR:CG2	2.64	0.45
53:BP:16:SER:HB3	53:BP:149:VAL:HG22	1.99	0.45
61:BX:91:ASN:ND2	61:BX:93:TYR:HD2	2.15	0.45
61:BX:139:ILE:HG12	61:BX:141:TYR:HD2	1.81	0.45
80:A6:567:A:H4'	32:Ce:13:LYS:HB2	1.98	0.45
80:A6:1144:U:H2'	80:A6:1145:U:C6	2.50	0.45
80:A6:1196:A:H4'	80:A6:1197:C:O5'	2.16	0.45
80:A6:1391:A:H2'	80:A6:1392:U:C6	2.52	0.45
86:A6:1983:OHX:N2	86:Cd:101:OHX:N1	2.65	0.45
86:A6:2005:OHX:N4	86:CL:201:OHX:N2	2.65	0.45
3:CB:133:TYR:CZ	3:CB:181:LEU:HD12	2.52	0.45
8:CG:9:VAL:HG12	8:CG:10:ASN:OD1	2.16	0.45
9:CH:102:PRO:HA	9:CH:106:SER:O	2.16	0.45
11:CJ:121:SER:HB3	11:CJ:124:HIS:H	1.81	0.45
14:CM:88:LEU:O	14:CM:89:ILE:HB	2.16	0.45
18:CQ:82:ARG:HH22	18:CQ:114:ARG:HG3	1.82	0.45
20:CS:38:VAL:O	20:CS:38:VAL:HG23	2.17	0.45
23:CV:71:ARG:HG3	23:CV:83:TRP:CZ2	2.52	0.45
28:Ca:58:VAL:HG13	28:Ca:59:TYR:CD2	2.52	0.45
33:Cf:88:UNK:CB	33:Cf:89:UNK:HA	2.47	0.45
34:Cg:199:ILE:HA	34:Cg:215:GLY:HA3	1.98	0.45
36:A5:124:U:O2	36:A5:149:U:O2'	2.32	0.45
36:A5:174:C:H2'	36:A5:175:C:C6	2.51	0.45
36:A5:1095:U:O2	57:DT:129:LYS:HG2	2.15	0.45
36:A5:1538:G:OP2	86:A5:3521:OHX:N2	2.50	0.45
36:A5:2282:U:O2	36:A5:2310:U:H4'	2.16	0.45
36:A5:2437:G:H5'	36:A5:2437:G:C8	2.44	0.45
36:A5:2549:G:N2	45:DG:33:ASN:HA	2.32	0.45
37:A7:22:A:H1'	42:DD:272:TYR:CE1	2.52	0.45
38:A8:10:A:H2'	38:A8:11:C:C6	2.51	0.45
43:DE:152:THR:HA	43:DE:153:PRO:HD3	1.76	0.45
45:DG:236:GLY:O	45:DG:237:ILE:HB	2.17	0.45
49:DL:2:ALA:N	64:Da:33:GLY:O	2.50	0.45
54:DQ:125:ASP:N	54:DQ:125:ASP:OD2	2.49	0.45
59:DV:27:ASP:HA	59:DV:113:ALA:O	2.17	0.45
60:DW:102:LYS:HG2	60:DW:105:ARG:NH1	2.32	0.45
60:DW:126:GLU:OE2	60:DW:129:LYS:NZ	2.47	0.45
62:DY:5:SER:C	62:DY:7:ASP:H	2.24	0.45
67:Dd:19:ARG:HD3	67:Dd:35:GLU:HG3	1.99	0.45
68:De:67:SER:O	68:De:68:PRO:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:489:C:O5'	1:A2:489:C:H6	1.99	0.45
1:A2:649:U:HO2'	1:A2:650:U:P	2.38	0.45
1:A2:767:U:C5	11:AJ:143:ILE:HD12	2.52	0.45
1:A2:861:U:H5'	1:A2:862:A:OP2	2.17	0.45
1:A2:1231:U:C4	1:A2:1255:G:N2	2.85	0.45
1:A2:1248:C:H2'	1:A2:1249:U:C6	2.52	0.45
1:A2:1287:A:N6	1:A2:1329:A:H5'	2.32	0.45
1:A2:1473:U:O2'	7:AF:103:ASN:ND2	2.48	0.45
1:A2:1686:C:C2	1:A2:1687:U:N1	2.85	0.45
1:A2:1796:C:C2	28:Aa:5:ARG:HG2	2.52	0.45
2:AA:110:TYR:CD2	2:AA:110:TYR:N	2.80	0.45
2:AA:142:PRO:HG3	23:AV:32:VAL:HG13	1.99	0.45
2:AA:172:LEU:O	2:AA:176:LEU:HG	2.17	0.45
6:AE:19:LEU:HD11	6:AE:108:ARG:HD2	1.99	0.45
7:AF:30:PRO:O	7:AF:33:VAL:HB	2.17	0.45
8:AG:2:LYS:HB3	8:AG:108:VAL:HG22	1.99	0.45
8:AG:64:LYS:O	8:AG:67:VAL:HG22	2.17	0.45
11:AJ:60:LEU:HD22	11:AJ:60:LEU:HA	1.49	0.45
21:AT:124:ILE:HG13	21:AT:125:SER:O	2.16	0.45
28:Aa:38:ARG:NH2	28:Aa:83:ILE:HG21	2.32	0.45
28:Aa:50:VAL:O	28:Aa:53:LEU:HB3	2.16	0.45
29:Ab:59:CYS:O	29:Ab:61:THR:HG22	2.17	0.45
33:Af:108:VAL:HB	33:Af:114:VAL:HG22	1.98	0.45
34:Ag:44:SER:OG	34:Ag:59:ARG:HB2	2.16	0.45
35:Ah:84:LYS:HD3	35:Ah:86:ASN:HB2	1.98	0.45
36:A1:1231:A:H5''	36:A1:1232:C:C5'	2.45	0.45
36:A1:1460:A:H2'	36:A1:1461:A:C8	2.51	0.45
36:A1:1720:U:P	55:BR:110:ARG:HH12	2.40	0.45
36:A1:2299:A:OP1	86:A1:3671:OHX:N4	2.49	0.45
36:A1:2510:U:O2'	36:A1:2511:A:OP2	2.29	0.45
36:A1:3334:U:H4'	36:A1:3335:A:H5''	1.98	0.45
38:A4:80:A:H5'	38:A4:81:U:P	2.57	0.45
38:A4:142:C:H5'	51:BN:113:LEU:HD21	1.98	0.45
40:BB:350:ALA:O	40:BB:351:LEU:HB2	2.17	0.45
44:BF:92:ILE:HD12	44:BF:92:ILE:HA	1.35	0.45
46:BH:109:ALA:HB1	46:BH:111:PHE:CE2	2.52	0.45
48:BJ:109:HIS:CD2	48:BJ:123:PHE:H	2.26	0.45
49:BL:2:ALA:HB2	64:Ba:31:GLY:O	2.16	0.45
51:BN:11:GLN:HE21	51:BN:44:ARG:CZ	2.30	0.45
52:BO:124[A]:LEU:HD12	52:BO:124[A]:LEU:HA	1.77	0.45
55:BR:43:LYS:H	55:BR:43:LYS:HG2	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:BV:40:LYS:HG3	59:BV:57:MET:HG2	1.99	0.45
65:Bb:28:LYS:HD3	65:Bb:28:LYS:HA	1.54	0.45
67:Bd:13:THR:HG22	67:Bd:72:ARG:CD	2.46	0.45
80:A6:164:A:C2'	80:A6:165:G:H5'	2.47	0.45
80:A6:486:G:N7	80:A6:488:G:C2	2.84	0.45
80:A6:959:U:H5''	29:Cb:28:PRO:HB3	1.99	0.45
80:A6:1078:C:H2'	80:A6:1079:U:H6	1.82	0.45
80:A6:1233:G:O2'	33:Cf:145:HIS:HB2	2.17	0.45
80:A6:1309:C:O2'	80:A6:1401:A:N1	2.41	0.45
80:A6:1471:A:OP1	7:CF:185:ARG:NH1	2.40	0.45
5:CD:183:GLY:O	5:CD:184:ILE:HD13	2.17	0.45
8:CG:1:MET:HG3	8:CG:2:LYS:H	1.82	0.45
9:CH:75:THR:HG23	9:CH:161:GLN:OE1	2.17	0.45
14:CM:125:ASN:HA	81:Ch:168:UNK:C	2.47	0.45
34:Cg:42:LEU:O	34:Cg:43:ILE:HD13	2.17	0.45
81:Ch:131:UNK:O	81:Ch:134:UNK:N	2.50	0.45
36:A5:238:A:H2'	36:A5:239:G:O4'	2.17	0.45
36:A5:406:G:H1'	38:A8:16:G:N2	2.32	0.45
36:A5:422:A:C2	36:A5:2363:A:H4'	2.52	0.45
36:A5:1246:G:C8	36:A5:1264:G:C6	3.05	0.45
36:A5:1301:A:P	86:A5:3820:OHX:N6	2.90	0.45
36:A5:1334:U:O2'	44:DF:151:ARG:NH2	2.50	0.45
36:A5:1565:G:H1'	36:A5:1575:A:C2	2.52	0.45
36:A5:2988:C:OP1	52:DO:68[A]:ARG:NH1	2.50	0.45
36:A5:3245:A:H2	36:A5:3246:G:C2	2.35	0.45
86:A5:3491:OHX:N6	86:A5:3734:OHX:N2	2.65	0.45
38:A8:38:U:H5	71:Dh:82:ALA:O	2.00	0.45
42:DD:261:THR:H	42:DD:264:GLN:CD	2.24	0.45
43:DE:51:ARG:NH1	50:DM:114:ASP:OD2	2.48	0.45
44:DF:179:LEU:HD22	44:DF:183:ASP:OD2	2.17	0.45
46:DH:90:MET:O	46:DH:143:GLU:O	2.34	0.45
46:DH:94:TYR:CD2	46:DH:98:PRO:HA	2.52	0.45
47:DI:41:ALA:O	47:DI:139:ARG:NH2	2.38	0.45
52:DO:60[B]:LYS:H	52:DO:60[B]:LYS:HG2	1.58	0.45
60:DW:119:GLU:O	60:DW:122:ALA:HB3	2.17	0.45
71:Dh:86:ARG:HG3	71:Dh:90:ARG:NH2	2.32	0.45
1:A2:1519:U:H2'	1:A2:1520:U:C5	2.51	0.45
1:A2:1541:G:C6	1:A2:1542:G:N1	2.84	0.45
86:A2:1962:OHX:N3	86:A2:1964:OHX:N5	2.65	0.45
86:A2:1983:OHX:N5	86:A2:2082:OHX:N3	2.64	0.45
3:AB:229:MET:HA	3:AB:232:HIS:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:180:LEU:HD22	6:AE:192:ILE:HG22	1.99	0.45
8:AG:72:ARG:HG2	8:AG:98:ARG:HA	1.99	0.45
11:AJ:174:ARG:HA	11:AJ:174:ARG:HE	1.81	0.45
14:AM:84:ASN:O	14:AM:86:VAL:HG22	2.17	0.45
15:AN:46:THR:HG23	15:AN:49:GLN:OE1	2.17	0.45
19:AR:81:LYS:HE3	19:AR:81:LYS:HB2	1.72	0.45
21:AT:65:ILE:HG23	21:AT:71:VAL:HG22	1.99	0.45
23:AV:71:ARG:HG3	23:AV:83:TRP:CZ2	2.52	0.45
26:AY:29:HIS:CE1	26:AY:68:LYS:N	2.85	0.45
34:Ag:147:HIS:CE1	34:Ag:179:LYS:HD2	2.52	0.45
36:A1:430:U:H4'	69:Bf:67:MET:HE1	1.98	0.45
36:A1:1748:G:C6	36:A1:1749:A:C6	3.05	0.45
36:A1:1853:U:O4	86:A1:3522:OHX:N5	2.50	0.45
36:A1:2554:A:H5''	39:BA:85:GLY:O	2.17	0.45
36:A1:2971:A:H3'	36:A1:2971:A:N3	2.32	0.45
36:A1:3345:G:O6	86:A1:3754:OHX:N3	2.50	0.45
86:A1:3467:OHX:N2	86:BA:301:OHX:N6	2.65	0.45
86:A1:3471:OHX:N1	86:A1:3744:OHX:N4	2.64	0.45
37:A3:67:G:H2'	37:A3:68:C:O4'	2.17	0.45
39:BA:113:VAL:HG23	39:BA:134:VAL:HG22	1.98	0.45
41:BC:291:ASN:O	41:BC:292:SER:O	2.35	0.45
42:BD:259:LYS:HE3	42:BD:259:LYS:HB3	1.53	0.45
43:BE:78:ARG:HH11	43:BE:78:ARG:CG	2.30	0.45
45:BG:25:PRO:HB2	45:BG:26:LEU:H	1.36	0.45
47:BI:80:SER:O	47:BI:84:ALA:HB2	2.17	0.45
48:BJ:83:GLY:HA2	48:BJ:86:VAL:HG23	1.98	0.45
50:BM:131:VAL:HG13	52:BO:181[A]:ALA:HB1	1.99	0.45
50:BM:135:LEU:O	50:BM:136:ALA:HB2	2.17	0.45
51:BN:143:ARG:NH2	71:Bh:92:LEU:HD23	2.31	0.45
52:BO:54[B]:TYR:CD2	52:BO:58[B]:LEU:HD22	2.52	0.45
55:BR:161:ALA:O	55:BR:165:LYS:HB3	2.16	0.45
63:BZ:87:LEU:HB2	63:BZ:127:ASN:ND2	2.32	0.45
70:Bg:11:ASN:HA	70:Bg:12:PRO:HD3	1.67	0.45
80:A6:1058:U:H1'	80:A6:1059:U:O5'	2.16	0.45
80:A6:1320:U:H6	80:A6:1320:U:H5''	1.82	0.45
80:A6:1433:G:C4	31:Cd:41:GLN:HB3	2.52	0.45
4:CC:186:LYS:HD2	4:CC:186:LYS:HA	1.78	0.45
6:CE:23:LEU:O	6:CE:24:SER:CB	2.65	0.45
8:CG:30:LYS:HE3	8:CG:34:GLN:CD	2.42	0.45
9:CH:122:HIS:HD2	9:CH:179:LYS:CE	2.29	0.45
15:CN:138:ASN:O	15:CN:140:LYS:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CU:15:GLN:HB2	22:CU:16:GLN:H	1.53	0.45
24:CW:26:LEU:HD12	24:CW:27:ILE:N	2.32	0.45
36:A5:1677:G:OP2	58:DU:103:TYR:OH	2.32	0.45
36:A5:2567:C:H42	36:A5:2568:C:H41	1.64	0.45
36:A5:3085:G:H5''	36:A5:3086:A:OP1	2.17	0.45
49:DL:64:LYS:HD2	64:Da:66:ALA:HB1	1.99	0.45
49:DL:119:TYR:HD1	49:DL:145:PHE:CE2	2.35	0.45
51:DN:192:LYS:O	51:DN:196:THR:OG1	2.35	0.45
53:DP:52:LEU:HD13	53:DP:88:VAL:HG11	1.99	0.45
74:Dk:27:ILE:HD12	74:Dk:39:ARG:NH2	2.32	0.45
1:A2:231:U:O2'	1:A2:232:U:H5''	2.17	0.44
1:A2:595:G:H2'	1:A2:596:C:C6	2.52	0.44
1:A2:918:U:H2'	1:A2:919:A:H8	1.81	0.44
1:A2:1111:G:H2'	1:A2:1112:G:H5'	1.99	0.44
1:A2:1686:C:C4	1:A2:1687:U:C4	3.05	0.44
86:A2:1940:OHX:N3	86:Ad:101:OHX:N5	2.65	0.44
2:AA:202:TYR:O	2:AA:203:PHE:CG	2.70	0.44
6:AE:42:LEU:HD22	6:AE:47:PHE:HB2	1.98	0.44
17:AP:20:VAL:HG13	17:AP:24:LYS:HD2	1.98	0.44
24:AW:25:VAL:O	24:AW:62:VAL:HA	2.16	0.44
35:Ah:87:THR:O	35:Ah:88:ARG:HB3	2.17	0.44
36:A1:250:U:C5	36:A1:251:G:N7	2.85	0.44
36:A1:422:A:C2	36:A1:2363:A:H4'	2.53	0.44
36:A1:439:C:O2	36:A1:439:C:H2'	2.16	0.44
36:A1:1404:G:N7	86:A1:3581:OHX:N3	2.65	0.44
36:A1:1720:U:OP2	55:BR:110:ARG:NH1	2.50	0.44
36:A1:2358:A:H2'	36:A1:2359:C:O4'	2.17	0.44
36:A1:2397:A:OP1	36:A1:2398:A:H4'	2.17	0.44
36:A1:2697:A:H2'	36:A1:2698:G:C8	2.52	0.44
36:A1:3049:A:H5''	40:BB:53:MET:HB2	1.99	0.44
86:A1:3550:OHX:N5	86:A1:3673:OHX:N1	2.65	0.44
86:A1:3565:OHX:N3	86:A1:3603:OHX:N5	2.65	0.44
39:BA:247:ARG:HH11	39:BA:247:ARG:HG2	1.81	0.44
42:BD:83:LEU:HB3	42:BD:88:ILE:HB	1.99	0.44
51:BN:143:ARG:C	51:BN:144:ARG:O	2.60	0.44
52:BO:116[B]:LYS:HG3	52:BO:117[B]:ARG:N	2.31	0.44
56:BS:81:TYR:CE1	56:BS:90:MET:HE3	2.52	0.44
66:Bc:100:ILE:HD12	66:Bc:101:LEU:HD23	1.99	0.44
72:Bi:25:LYS:HB2	72:Bi:28:TYR:CD2	2.52	0.44
72:Bi:33:ALA:O	72:Bi:34:SER:HB3	2.17	0.44
72:Bi:97:SER:O	72:Bi:99:ARG:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:Bj:38:GLY:O	73:Bj:39:TYR:C	2.60	0.44
80:A6:992:A:H5'	80:A6:992:A:H8	1.81	0.44
80:A6:1402:G:OP1	19:CR:4:VAL:HA	2.17	0.44
22:CU:31:VAL:HG13	22:CU:87:HIS:CE1	2.51	0.44
34:Cg:23:LEU:HD11	34:Cg:304:GLY:N	2.32	0.44
34:Cg:184:ASN:HD22	34:Cg:184:ASN:N	2.13	0.44
36:A5:92:G:H5''	36:A5:94:G:N7	2.32	0.44
36:A5:163:C:H42	36:A5:258:G:H1	1.65	0.44
36:A5:439:C:H4'	36:A5:440:A:C5'	2.45	0.44
36:A5:801:A:OP1	64:Da:27:LYS:NZ	2.31	0.44
36:A5:863:C:OP1	86:A5:3431:OHX:N1	2.49	0.44
36:A5:1557:A:OP1	45:DG:51:LYS:HE3	2.16	0.44
36:A5:2241:U:O2'	39:DA:243:THR:HG23	2.16	0.44
36:A5:2403:G:OP1	86:A5:3762:OHX:N4	2.50	0.44
36:A5:2768:U:H2'	36:A5:2769:A:C8	2.52	0.44
36:A5:3147:G:H4'	40:DB:102:LEU:O	2.17	0.44
36:A5:3163:A:C6	36:A5:3164:C:N4	2.85	0.44
86:A5:3538:OHX:N2	86:A5:3759:OHX:N5	2.65	0.44
86:A5:3581:OHX:N3	86:A5:3815:OHX:N4	2.65	0.44
38:A8:45:C:OP1	75:Dl:12:LYS:HE3	2.17	0.44
39:DA:96:LEU:HD22	79:Dp:83:ILE:HG23	1.99	0.44
39:DA:105:GLY:CA	39:DA:160:SER:HB3	2.47	0.44
41:DC:271:LYS:O	41:DC:272:VAL:C	2.60	0.44
43:DE:145:LEU:HA	43:DE:145:LEU:HD23	1.71	0.44
49:DL:80:VAL:HG12	49:DL:85:LEU:O	2.17	0.44
57:DT:48:ILE:HG13	57:DT:94:GLU:HG2	1.97	0.44
58:DU:29:ASP:O	58:DU:32:SER:N	2.50	0.44
76:Dm:78:ILE:HG21	76:Dm:78:ILE:HD13	1.72	0.44
79:Dp:13:LYS:HD2	79:Dp:14:TYR:CZ	2.51	0.44
83:Dq:42:ARG:O	83:Dq:46:ARG:HG2	2.17	0.44
1:A2:66:U:H5'	8:AG:173:PRO:HA	1.98	0.44
1:A2:600:U:H1'	25:AX:47:SER:HB3	1.99	0.44
1:A2:915:A:H5'	1:A2:916:U:OP2	2.17	0.44
1:A2:981:U:C2'	1:A2:982:U:H5'	2.47	0.44
1:A2:1171:A:H2'	1:A2:1172:G:C8	2.52	0.44
1:A2:1281:G:H2'	1:A2:1282:U:H6	1.82	0.44
2:AA:20:ALA:HB3	2:AA:22:THR:HG23	2.00	0.44
19:AR:24:LEU:O	19:AR:25:THR:HG23	2.18	0.44
23:AV:50:TYR:HB2	23:AV:52:THR:HG22	1.99	0.44
25:AX:79:ASN:HD22	25:AX:81:LYS:HB2	1.83	0.44
25:AX:108:GLY:O	25:AX:109:ARG:HG2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Ae:39:LEU:HD12	32:Ae:43:ARG:NH2	2.33	0.44
34:Ag:16:HIS:NE2	34:Ag:35:SER:OG	2.45	0.44
36:A1:564:G:H2'	36:A1:565:U:C6	2.52	0.44
36:A1:709:A:P	54:BQ:179:ARG:HH22	2.37	0.44
36:A1:726:G:H1'	36:A1:744:A:H61	1.82	0.44
36:A1:821:U:OP2	86:A1:3524:OHX:N3	2.50	0.44
36:A1:1017:C:HO2'	36:A1:1018:G:P	2.36	0.44
36:A1:1809:A:H2'	36:A1:1810:A:O4'	2.17	0.44
36:A1:2298:U:O4	36:A1:2923:U:H5	2.01	0.44
36:A1:3096:C:H2'	36:A1:3097:C:C6	2.53	0.44
40:BB:143:GLY:O	40:BB:147:GLU:HG2	2.17	0.44
45:BG:116:VAL:HG13	45:BG:121:SER:O	2.16	0.44
49:BL:57:VAL:HG13	49:BL:147:ILE:CG2	2.47	0.44
51:BN:78:GLY:HA2	51:BN:89:VAL:HG21	1.99	0.44
55:BR:106:LEU:HB3	55:BR:120:TYR:HE1	1.78	0.44
61:BX:132:ALA:O	61:BX:135:ILE:HG22	2.18	0.44
80:A6:219:A:O2'	80:A6:220:A:O5'	2.35	0.44
80:A6:676:G:H2'	80:A6:677:G:C8	2.52	0.44
80:A6:1799:U:H4'	80:A6:1800:A:H2'	1.98	0.44
2:CA:12:GLU:HG2	2:CA:12:GLU:H	1.55	0.44
4:CC:170:ILE:HB	4:CC:197:TYR:HB2	2.00	0.44
5:CD:33:GLY:O	5:CD:52:ALA:HA	2.17	0.44
18:CQ:95:LYS:O	34:Cg:59:ARG:NH2	2.50	0.44
20:CS:83:ALA:C	20:CS:89:GLN:NE2	2.76	0.44
22:CU:44:ASN:HA	22:CU:47:GLN:HB3	1.98	0.44
22:CU:120:SER:HB3	22:CU:121:ASN:H	1.55	0.44
26:CY:51:GLU:O	26:CY:53:ASP:N	2.51	0.44
36:A5:412:G:H2'	36:A5:413:U:C6	2.53	0.44
36:A5:740:G:OP2	86:A5:3763:OHX:N6	2.50	0.44
36:A5:986:U:OP2	86:A5:3669:OHX:N2	2.49	0.44
36:A5:1084:A:H2'	36:A5:1085:A:H5''	2.00	0.44
36:A5:1152:G:OP2	36:A5:1152:G:H8	2.01	0.44
36:A5:1306:G:C6	52:DO:62[B]:THR:HA	2.52	0.44
36:A5:1454:A:OP1	86:A5:3728:OHX:N6	2.50	0.44
36:A5:1727:G:OP1	79:Dp:44:LYS:NZ	2.48	0.44
36:A5:2174:G:H4'	36:A5:2175:U:O5'	2.17	0.44
36:A5:2273:G:O6	86:A5:3737:OHX:N5	2.50	0.44
40:DB:244:ARG:HG2	40:DB:244:ARG:HH11	1.81	0.44
45:DG:162:LEU:HD23	51:DN:7:LEU:HD21	1.99	0.44
50:DM:40:ASP:HA	56:DS:143:PHE:CE1	2.52	0.44
50:DM:55:ARG:NH2	50:DM:77:ARG:HA	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:DZ:36:HIS:H	63:DZ:37:PRO:HD3	1.82	0.44
66:Dc:103:THR:O	66:Dc:105:ALA:N	2.50	0.44
68:De:75:LEU:HD22	68:De:76:VAL:H	1.81	0.44
73:Dj:64:MET:O	73:Dj:65:ARG:C	2.59	0.44
84:Dr:34:UNK:C	84:Dr:36:UNK:N	2.80	0.44
1:A2:57:G:OP1	26:AY:112:LYS:HE3	2.17	0.44
1:A2:67:A:OP1	8:AG:171:LYS:NZ	2.49	0.44
1:A2:71:A:O3'	1:A2:72:A:H4'	2.17	0.44
1:A2:105:A:H2'	1:A2:106:U:O4'	2.17	0.44
1:A2:281:G:H2'	1:A2:282:C:C6	2.52	0.44
1:A2:353:A:O3'	10:AI:14:THR:HG21	2.17	0.44
1:A2:694:U:H2'	1:A2:695:U:C5	2.51	0.44
1:A2:830:U:O2'	1:A2:831:U:OP2	2.34	0.44
1:A2:1420:C:OP1	31:Ad:54:LYS:NZ	2.38	0.44
1:A2:1578:U:O2'	1:A2:1579:U:H5'	2.17	0.44
1:A2:1796:C:OP2	28:Aa:92:ARG:HD3	2.17	0.44
2:AA:120:LEU:HD12	2:AA:142:PRO:O	2.17	0.44
5:AD:21:LEU:HD23	5:AD:21:LEU:HA	1.82	0.44
7:AF:166:ARG:HB2	30:Ac:46:GLY:HA3	1.98	0.44
11:AJ:108:ARG:HH11	11:AJ:110:GLN:HG2	1.82	0.44
11:AJ:132:ARG:HG3	11:AJ:132:ARG:HH11	1.82	0.44
18:AQ:11:GLY:C	18:AQ:12:LYS:HG2	2.43	0.44
19:AR:113:LEU:HG	19:AR:114:GLY:N	2.31	0.44
20:AS:26:ILE:HD12	20:AS:26:ILE:C	2.43	0.44
28:Aa:96:ALA:C	28:Aa:98:PRO:HD2	2.42	0.44
36:A1:709:A:OP1	54:BQ:179:ARG:NH2	2.31	0.44
36:A1:1063:G:C6	36:A1:1097:G:C5	3.06	0.44
36:A1:1110:U:O4	86:A1:3523:OHX:N5	2.50	0.44
36:A1:2094:C:H2'	36:A1:2095:G:C8	2.52	0.44
36:A1:2582:C:H2'	36:A1:2583:C:C6	2.51	0.44
36:A1:2680:A:C2	48:BJ:24:GLY:HA2	2.52	0.44
38:A4:28:C:O2'	38:A4:29:U:H5'	2.17	0.44
38:A4:66:A:OP1	71:Bh:10:ARG:NH2	2.51	0.44
39:BA:80:GLU:HG3	79:Bp:66:GLY:HA2	1.99	0.44
39:BA:177:LYS:HA	39:BA:178:PRO:HD3	1.91	0.44
41:BC:64:SER:HA	41:BC:75:PRO:HA	1.97	0.44
43:BE:159:LEU:HA	43:BE:159:LEU:HD23	1.62	0.44
45:BG:195:SER:O	45:BG:196:ALA:HB3	2.17	0.44
47:BI:216:TYR:CG	86:BI:303:OHX:N5	2.85	0.44
48:BJ:17:LEU:HD21	48:BJ:19:LEU:HD21	1.99	0.44
51:BN:73:ARG:HG2	51:BN:75:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Bf:14:LEU:HD11	69:Bf:31:LYS:HB2	2.00	0.44
79:Bp:84:ARG:CZ	79:Bp:88:GLU:OE2	2.66	0.44
80:A6:886:U:H2'	80:A6:887:A:C8	2.52	0.44
5:CD:5:ILE:HG22	5:CD:9:ARG:HB3	1.99	0.44
10:CI:76:THR:CG2	10:CI:105:ASP:HB3	2.42	0.44
11:CJ:133:HIS:CD2	11:CJ:162:SER:HB2	2.53	0.44
17:CP:89:MET:HE2	17:CP:89:MET:HB3	1.67	0.44
18:CQ:52:LEU:HA	18:CQ:60:PHE:CE1	2.52	0.44
19:CR:24:LEU:CD1	19:CR:58:MET:HE3	2.47	0.44
19:CR:104:ASN:C	19:CR:106:THR:N	2.75	0.44
21:CT:6:VAL:HG22	21:CT:66:TYR:CE1	2.52	0.44
21:CT:89:ARG:HH11	21:CT:89:ARG:CG	2.24	0.44
23:CV:73:ALA:CB	23:CV:79:LEU:HD12	2.45	0.44
36:A5:736:A:C5	36:A5:737:G:H1'	2.52	0.44
36:A5:1109:U:H2'	36:A5:1110:U:O4'	2.17	0.44
36:A5:1552:G:OP2	86:A5:3809:OHX:N3	2.51	0.44
36:A5:2192:C:H2'	36:A5:2193:U:O4'	2.17	0.44
36:A5:2224:A:H5''	36:A5:2225:U:OP2	2.17	0.44
86:A5:3640:OHX:N6	86:A5:3741:OHX:N2	2.66	0.44
40:DB:296:THR:HG22	40:DB:297:SER:N	2.33	0.44
46:DH:75:VAL:HG22	46:DH:78:MET:CE	2.46	0.44
48:DJ:17:LEU:HD21	48:DJ:19:LEU:HD21	1.98	0.44
51:DN:22:LEU:HD12	51:DN:22:LEU:HA	1.86	0.44
56:DS:48:LEU:O	56:DS:49:HIS:ND1	2.49	0.44
66:Dc:68:TYR:HD2	66:Dc:69:TYR:N	2.15	0.44
1:A2:130:C:O2'	1:A2:131:C:OP1	2.29	0.44
1:A2:186:C:H3'	1:A2:187:G:H8	1.83	0.44
1:A2:197:A:H61	10:AI:138:ASN:HD22	1.63	0.44
1:A2:477:A:N7	1:A2:538:A:N1	2.66	0.44
1:A2:517:U:H3	1:A2:535:A:H61	1.65	0.44
1:A2:560:U:H2'	1:A2:561:G:H8	1.83	0.44
1:A2:1552:U:H2'	1:A2:1553:G:O4'	2.16	0.44
1:A2:1586:A:H1'	1:A2:1611:A:N6	2.32	0.44
1:A2:1657:U:N3	86:A2:1969:OHX:N2	2.65	0.44
5:AD:71:LEU:HD23	5:AD:71:LEU:HA	1.85	0.44
7:AF:109:LYS:O	7:AF:113:ILE:HG13	2.17	0.44
13:AL:21:ASN:HD22	13:AL:31:THR:HA	1.82	0.44
15:AN:142:GLU:HG3	15:AN:145:THR:HG23	1.98	0.44
16:AO:132:ARG:HH11	16:AO:132:ARG:HG3	1.81	0.44
22:AU:50:LEU:CD2	22:AU:95:ALA:HB2	2.47	0.44
36:A1:1159:A:O2'	36:A1:1160:C:H5''	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1391:C:C2	68:Be:103:LYS:HD3	2.52	0.44
36:A1:1582:C:HO2'	36:A1:1583:A:P	2.39	0.44
36:A1:1750:A:N3	36:A1:1752:A:C8	2.85	0.44
36:A1:2996:U:O2	36:A1:2996:U:H2'	2.17	0.44
36:A1:3151:U:H4'	36:A1:3294:A:O4'	2.17	0.44
36:A1:3319:U:O2'	36:A1:3320:A:P	2.76	0.44
86:A1:3520:OHX:N1	86:A1:3717:OHX:N2	2.65	0.44
39:BA:79:ASN:ND2	39:BA:165:VAL:HG22	2.33	0.44
41:BC:52:VAL:CG1	41:BC:99:MET:HE3	2.48	0.44
47:BI:217:PHE:C	86:BI:303:OHX:N6	2.75	0.44
48:BJ:32:ARG:O	48:BJ:36:VAL:HG23	2.18	0.44
49:BL:24:VAL:O	49:BL:24:VAL:HG23	2.17	0.44
51:BN:104:GLU:O	51:BN:108:ARG:HG3	2.18	0.44
54:BQ:71:LEU:CD2	54:BQ:99:THR:HG21	2.48	0.44
56:BS:49:HIS:HB2	56:BS:51:VAL:HG22	1.99	0.44
62:BY:17:LYS:O	62:BY:21:THR:HG23	2.17	0.44
78:Bo:9:LYS:HE2	78:Bo:22:GLN:NE2	2.33	0.44
79:Bp:57:CYS:SG	79:Bp:59:CYS:O	2.75	0.44
80:A6:1:U:H1'	80:A6:369:A:C8	2.52	0.44
80:A6:153:G:OP2	26:CY:131:ARG:NH1	2.51	0.44
80:A6:359:A:C2	25:CX:38:PHE:HB3	2.52	0.44
80:A6:522:U:OP1	26:CY:37:LYS:NZ	2.50	0.44
80:A6:558:U:O2	80:A6:558:U:H2'	2.16	0.44
80:A6:651:G:H3'	86:A6:2022:OHX:N4	2.33	0.44
80:A6:1218:G:O6	80:A6:1444:A:H2'	2.17	0.44
80:A6:1337:A:H5'	80:A6:1338:C:OP2	2.18	0.44
80:A6:1537:C:C4	86:A6:2016:OHX:N5	2.86	0.44
5:CD:110:LEU:C	5:CD:112:GLY:N	2.75	0.44
6:CE:163:ASP:HB3	6:CE:167:GLY:O	2.17	0.44
8:CG:67:VAL:HG21	8:CG:99:GLY:HA2	1.99	0.44
13:CL:109:VAL:HG21	13:CL:125:VAL:CG1	2.48	0.44
18:CQ:54:LEU:HA	18:CQ:54:LEU:HD13	1.73	0.44
20:CS:88:ARG:O	20:CS:88:ARG:HG2	2.18	0.44
22:CU:95:ALA:CB	22:CU:99:ILE:HG13	2.47	0.44
36:A5:247:C:N3	36:A5:248:U:H1'	2.32	0.44
36:A5:1510:G:H8	36:A5:1510:G:O5'	2.00	0.44
36:A5:1833:G:H21	75:DI:4:GLN:HE21	1.66	0.44
36:A5:1840:U:OP2	86:A5:3553:OHX:N4	2.50	0.44
36:A5:2403:G:O5'	86:A5:3762:OHX:N2	2.50	0.44
36:A5:3279:A:H2'	36:A5:3280:U:H5'	2.00	0.44
86:A5:3467:OHX:N2	86:A5:3819:OHX:N4	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A5:3640:OHX:N5	86:A5:3741:OHX:N1	2.65	0.44
37:A7:31:U:H4'	42:DD:218:ARG:NH1	2.33	0.44
41:DC:131:VAL:O	41:DC:135:VAL:HG23	2.18	0.44
44:DF:150:LYS:HE2	44:DF:151:ARG:NH1	2.33	0.44
47:DI:55:ASN:O	47:DI:131:ILE:HG12	2.16	0.44
57:DT:138:SER:C	57:DT:139:ARG:HG3	2.38	0.44
60:DW:55:PHE:CD1	60:DW:55:PHE:C	2.95	0.44
63:DZ:28:PRO:O	63:DZ:29:HIS:C	2.60	0.44
64:Da:44:ASN:O	64:Da:47:LYS:O	2.36	0.44
72:Di:55:ARG:O	72:Di:58:ILE:HD13	2.18	0.44
74:Dk:14:LEU:HD23	74:Dk:17:ARG:HD3	1.99	0.44
1:A2:296:U:H2'	1:A2:297:U:C6	2.52	0.44
1:A2:729:G:H2'	1:A2:729:G:N3	2.33	0.44
1:A2:823:G:O2'	1:A2:824:G:OP1	2.36	0.44
2:AA:120:LEU:HD12	2:AA:121:VAL:H	1.81	0.44
3:AB:97:LEU:HD22	3:AB:97:LEU:HA	1.65	0.44
5:AD:137:VAL:HG22	5:AD:151:LYS:HG3	1.99	0.44
6:AE:95:THR:HG22	26:AY:16:PRO:HG2	2.00	0.44
8:AG:67:VAL:HG23	8:AG:100:ALA:H	1.83	0.44
24:AW:24:GLN:HA	24:AW:63:VAL:O	2.18	0.44
24:AW:55:ASP:HA	29:Ab:25:VAL:HG13	1.99	0.44
29:Ab:15:GLU:OE2	29:Ab:24:LEU:N	2.50	0.44
31:Ad:19:ARG:HD2	31:Ad:32:ARG:HD2	1.99	0.44
36:A1:1593:A:O4'	70:Bg:60:ARG:HD3	2.18	0.44
36:A1:2563:G:H5''	45:BG:27:THR:CG2	2.44	0.44
36:A1:2890:A:O2'	36:A1:2933:A:N3	2.41	0.44
36:A1:3181:C:H2'	36:A1:3182:G:O4'	2.18	0.44
36:A1:3364:C:H2'	36:A1:3365:U:C6	2.52	0.44
86:A1:3491:OHX:N1	86:A1:3671:OHX:N4	2.65	0.44
40:BB:153:LYS:HE2	40:BB:154:TYR:OH	2.18	0.44
45:BG:75:ILE:O	45:BG:77:GLN:N	2.42	0.44
49:BL:174:ARG:HB2	72:Bi:9:ILE:HD12	2.00	0.44
50:BM:13:ARG:HG3	56:BS:172:TYR:O	2.18	0.44
53:BP:89:LYS:HA	53:BP:92:GLN:HG2	2.00	0.44
54:BQ:150:VAL:HA	54:BQ:153:PHE:CD1	2.52	0.44
63:BZ:46:ILE:C	63:BZ:46:ILE:HD12	2.42	0.44
67:Bd:53:PRO:O	67:Bd:57:GLN:HG3	2.17	0.44
68:Be:64:LYS:HE2	68:Be:65:PHE:CZ	2.53	0.44
80:A6:448:C:OP1	6:CE:29:PRO:HD3	2.17	0.44
80:A6:638:U:OP2	24:CW:32:LYS:HD3	2.17	0.44
80:A6:872:G:H2'	80:A6:873:U:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:1537:C:C4	86:A6:2016:OHX:N6	2.85	0.44
80:A6:1715:G:H2'	80:A6:1715:G:N3	2.33	0.44
2:CA:82:GLY:O	2:CA:86:VAL:HG13	2.18	0.44
3:CB:135:LEU:HD21	3:CB:217:LEU:HD12	1.98	0.44
3:CB:181:LEU:HD23	3:CB:181:LEU:HA	1.84	0.44
3:CB:195:LYS:HB2	3:CB:195:LYS:HE2	1.86	0.44
4:CC:229:LEU:HD23	23:CV:23:ILE:HD11	1.98	0.44
7:CF:31:GLU:HG3	7:CF:32:GLU:H	1.81	0.44
7:CF:33:VAL:HG13	7:CF:37:GLN:OE1	2.17	0.44
7:CF:203:LYS:HE2	7:CF:203:LYS:HA	2.00	0.44
8:CG:77:LEU:HD12	8:CG:95:LYS:HB2	1.99	0.44
11:CJ:41:GLU:OE2	11:CJ:126:ARG:NH2	2.39	0.44
16:CO:17:ALA:N	16:CO:80:HIS:O	2.38	0.44
24:CW:36:LYS:O	24:CW:40:VAL:HG23	2.17	0.44
31:Cd:33:LYS:HE2	31:Cd:34:TYR:OH	2.17	0.44
34:Cg:22:SER:OG	34:Cg:70:ASP:HA	2.17	0.44
36:A5:90:C:C2'	36:A5:91:G:H5'	2.47	0.44
36:A5:183:G:C8	36:A5:183:G:H3'	2.52	0.44
36:A5:622:A:H2'	36:A5:623:U:O4'	2.17	0.44
36:A5:1014:U:H2'	36:A5:1015:U:H5''	2.00	0.44
36:A5:1443:G:N7	86:A5:3524:OHX:N2	2.66	0.44
36:A5:1753:G:H2'	36:A5:1754:G:O5'	2.17	0.44
36:A5:1764:U:H3'	36:A5:1765:U:C5'	2.47	0.44
36:A5:1942:U:H2'	36:A5:1943:C:O4'	2.18	0.44
36:A5:2395:G:H5''	40:DB:255:TRP:CD1	2.51	0.44
52:DO:10[B]:ASP:HB2	52:DO:117[B]:ARG:HG3	1.97	0.44
54:DQ:90:ASP:C	54:DQ:92:ARG:H	2.26	0.44
59:DV:120:LYS:H	59:DV:137:VAL:CG2	2.30	0.44
1:A2:233:C:O2'	1:A2:234:G:P	2.76	0.44
1:A2:416:A:H4'	1:A2:417:A:OP2	2.18	0.44
1:A2:501:U:H2'	1:A2:502:U:C5	2.53	0.44
1:A2:1225:U:O2	1:A2:1230:A:H4'	2.16	0.44
1:A2:1238:A:OP2	86:A2:1925:OHX:N2	2.50	0.44
86:A2:1907:OHX:N2	86:A2:2086:OHX:N4	2.66	0.44
4:AC:84:LYS:HA	4:AC:85:PRO:HD3	1.79	0.44
7:AF:25:LEU:H	7:AF:25:LEU:HD22	1.82	0.44
11:AJ:109:LEU:HD22	11:AJ:113:VAL:HG23	1.98	0.44
13:AL:91:LEU:HD23	13:AL:91:LEU:HA	1.79	0.44
14:AM:54:ARG:C	14:AM:56:GLU:H	2.21	0.44
14:AM:127:GLY:HA2	35:Ah:167:UNK:O	2.16	0.44
15:AN:34:ILE:HD11	15:AN:67:THR:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AR:106:THR:O	19:AR:110:VAL:HG23	2.17	0.44
20:AS:49:LYS:NZ	20:AS:79:TYR:O	2.51	0.44
21:AT:14:PHE:CZ	21:AT:132:LEU:HD23	2.50	0.44
22:AU:63:LEU:HD22	31:Ad:34:TYR:CE1	2.53	0.44
22:AU:82:TYR:HB3	31:Ad:52:PHE:HB3	1.99	0.44
24:AW:78:ARG:CD	24:AW:126:LEU:HD23	2.47	0.44
29:Ab:36:LYS:HE2	29:Ab:43:ILE:HG21	1.99	0.44
33:Af:83:UNK:O	33:Af:84:UNK:HG3	2.18	0.44
34:Ag:38:ARG:HG2	34:Ag:67:ILE:CG2	2.48	0.44
36:A1:386:A:O5'	36:A1:386:A:H8	2.00	0.44
36:A1:972:A:OP1	54:BQ:12:ARG:NH2	2.50	0.44
36:A1:1100:U:OP2	44:BF:196:LYS:HE3	2.18	0.44
36:A1:1733:G:P	86:A1:3811:OHX:N2	2.90	0.44
36:A1:2616:C:C2'	36:A1:2617:U:H5'	2.47	0.44
36:A1:3189:G:O6	86:A1:3762:OHX:N1	2.51	0.44
86:A1:3538:OHX:N6	86:A3:208:OHX:N3	2.66	0.44
44:BF:43:ILE:O	44:BF:46:GLU:HG2	2.17	0.44
44:BF:222:HIS:ND1	44:BF:224:ILE:HG13	2.33	0.44
47:BI:193:ASP:OD1	47:BI:198:LYS:HE3	2.18	0.44
50:BM:39:ILE:HB	50:BM:43:LYS:HB3	2.00	0.44
52:BO:73[A]:PHE:HB3	52:BO:78[A]:ARG:HB3	1.99	0.44
53:BP:48:LEU:HA	53:BP:48:LEU:HD23	1.60	0.44
55:BR:106:LEU:HD12	55:BR:106:LEU:HA	1.80	0.44
59:BV:39:VAL:HG21	59:BV:51:ALA:C	2.43	0.44
71:Bh:31:LEU:HB3	71:Bh:44:ILE:HD12	1.99	0.44
72:Bi:52:PRO:HA	72:Bi:55:ARG:NH1	2.33	0.44
80:A6:830:U:H2'	80:A6:831:U:H5'	2.00	0.44
80:A6:1434:U:H4'	31:Cd:24:CYS:HB2	2.00	0.44
86:A6:1933:OHX:N2	86:A6:2068:OHX:N6	2.66	0.44
86:A6:1983:OHX:N6	86:Cd:101:OHX:N3	2.66	0.44
7:CF:45:LYS:HD3	7:CF:45:LYS:HA	1.68	0.44
7:CF:133:VAL:HG22	7:CF:198:LEU:HD13	1.99	0.44
10:CI:194:ARG:HB3	10:CI:195:ARG:NH1	2.33	0.44
11:CJ:34:PHE:HB2	11:CJ:36:LEU:HD12	1.99	0.44
11:CJ:36:LEU:HD23	11:CJ:41:GLU:HB3	2.00	0.44
14:CM:81:ASP:O	14:CM:83:GLU:N	2.51	0.44
23:CV:74:GLN:OE1	23:CV:83:TRP:N	2.43	0.44
34:Cg:216:LYS:C	34:Cg:218:GLY:H	2.26	0.44
36:A5:261:U:H2'	36:A5:262:U:C6	2.53	0.44
36:A5:278:U:O5'	36:A5:278:U:H6	2.00	0.44
36:A5:625:G:H2'	36:A5:626:U:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:1204:A:H2'	36:A5:1205:A:H5'	1.98	0.44
36:A5:1864:A:H2'	36:A5:1865:A:C8	2.53	0.44
36:A5:1912:U:N3	36:A5:2122:G:OP2	2.46	0.44
36:A5:2977:G:OP1	86:A5:3674:OHX:N4	2.51	0.44
36:A5:3227:A:N3	36:A5:3227:A:O4'	2.51	0.44
36:A5:3330:A:C8	36:A5:3330:A:C5'	3.00	0.44
37:A7:100:C:OP2	56:DS:52:LYS:NZ	2.37	0.44
40:DB:56:ILE:HA	40:DB:56:ILE:HD12	1.78	0.44
40:DB:95:THR:C	40:DB:97:ARG:H	2.26	0.44
40:DB:188:ILE:HA	40:DB:191:LYS:HD2	1.98	0.44
51:DN:56:LYS:NZ	51:DN:145:ASP:OD2	2.50	0.44
53:DP:94:LEU:HD12	53:DP:94:LEU:HA	1.71	0.44
61:DX:58:ASP:O	61:DX:62:VAL:HG23	2.18	0.44
83:Dq:53:MET:HE3	83:Dq:53:MET:HB3	1.69	0.44
84:Dr:36:UNK:O	84:Dr:40:UNK:N	2.51	0.44
1:A2:413:U:H2'	1:A2:414:C:C6	2.52	0.44
1:A2:685:A:HO2'	1:A2:686:C:P	2.41	0.44
1:A2:924:A:O2'	1:A2:987:G:OP1	2.36	0.44
1:A2:1253:U:H2'	1:A2:1254:U:H6	1.82	0.44
1:A2:1504:G:OP1	21:AT:97:SER:HB2	2.18	0.44
86:A2:1922:OHX:N1	86:A2:1978:OHX:N3	2.66	0.44
2:AA:175:TYR:CD1	2:AA:199:PRO:HA	2.53	0.44
8:AG:73:ILE:HD12	8:AG:75:LEU:HD21	1.98	0.44
13:AL:78:THR:HG22	13:AL:84:ILE:CG2	2.46	0.44
27:AZ:39:ALA:HB1	27:AZ:70:LYS:C	2.43	0.44
36:A1:12:A:H2'	36:A1:13:A:H5''	2.00	0.44
36:A1:259:C:H2'	36:A1:260:C:H6	1.83	0.44
36:A1:761:A:N1	36:A1:771:A:H1'	2.33	0.44
36:A1:979:U:O2'	36:A1:980:A:OP2	2.33	0.44
36:A1:1913:A:N3	36:A1:2120:A:H2'	2.33	0.44
36:A1:2101:C:P	55:BR:71:ARG:HH12	2.40	0.44
36:A1:2747:A:H5'	42:BD:175:HIS:HA	2.00	0.44
36:A1:2801:A:O2'	36:A1:2802:A:H2'	2.18	0.44
36:A1:2939:G:OP2	40:BB:3:HIS:HD2	2.00	0.44
36:A1:3183:A:OP1	52:BO:161[A]:LYS:NZ	2.50	0.44
86:A1:3495:OHX:N2	86:A1:3584:OHX:N5	2.65	0.44
86:A1:3516:OHX:N3	86:A1:3718:OHX:N4	2.65	0.44
86:A1:3520:OHX:N1	86:A1:3717:OHX:N4	2.66	0.44
86:A1:3601:OHX:N6	86:A1:3725:OHX:N3	2.66	0.44
40:BB:247:ARG:C	40:BB:248:LYS:HG3	2.43	0.44
42:BD:52:VAL:O	42:BD:62:CYS:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BH:41:ILE:HG23	46:BH:43:VAL:HG13	2.00	0.44
47:BI:140:THR:HB	47:BI:141:LYS:H	1.55	0.44
47:BI:219:ALA:HA	86:BI:303:OHX:N4	2.33	0.44
51:BN:53:TYR:HB2	51:BN:133:ILE:HD13	1.99	0.44
52:BO:16[A]:VAL:HG23	52:BO:42[A]:ASN:O	2.18	0.44
56:BS:12:ARG:HG2	56:BS:59:VAL:HG23	2.00	0.44
58:BU:29:ASP:OD1	58:BU:31:ALA:HB3	2.17	0.44
58:BU:89:LEU:O	58:BU:93:ILE:HG13	2.18	0.44
59:BV:83:LYS:HE2	59:BV:84:SER:H	1.82	0.44
63:BZ:10:VAL:HG23	63:BZ:86:THR:HA	2.00	0.44
64:Ba:13:GLY:O	68:Be:36:LYS:HE2	2.18	0.44
80:A6:705:U:O2'	80:A6:706:A:H8	2.01	0.44
80:A6:1118:G:N7	86:A6:2040:OHX:N2	2.65	0.44
80:A6:1478:G:H5''	80:A6:1478:G:H8	1.83	0.44
2:CA:90:ALA:HB2	2:CA:97:PRO:HB3	2.00	0.44
3:CB:36:SER:HB3	3:CB:231:LEU:O	2.18	0.44
7:CF:37:GLN:CG	18:CQ:53:LEU:HD13	2.48	0.44
9:CH:132:PRO:O	9:CH:133:THR:OG1	2.31	0.44
13:CL:59:PRO:HA	13:CL:64:VAL:HG23	1.99	0.44
17:CP:10:ARG:HA	48:DJ:88:GLU:HB3	2.00	0.44
18:CQ:57:LEU:H	18:CQ:57:LEU:HD12	1.81	0.44
18:CQ:131:GLY:HA3	18:CQ:136:SER:O	2.17	0.44
26:CY:121:THR:HG22	26:CY:123:LYS:N	2.32	0.44
36:A5:48:A:O4'	36:A5:50:U:C6	2.71	0.44
36:A5:237:G:C2	36:A5:238:A:C8	3.06	0.44
36:A5:248:U:C3'	36:A5:249:U:H5'	2.48	0.44
36:A5:342:A:C2	36:A5:368:G:C8	3.06	0.44
36:A5:1081:U:O2'	36:A5:1082:U:O5'	2.29	0.44
36:A5:1758:G:H5''	36:A5:1759:C:OP2	2.18	0.44
36:A5:2437:G:H2'	36:A5:2438:A:O4'	2.18	0.44
36:A5:2836:C:O2	36:A5:2836:C:O4'	2.33	0.44
36:A5:3243:A:OP1	52:DO:159[B]:LYS:NZ	2.51	0.44
86:A5:3521:OHX:N4	86:A5:3768:OHX:N2	2.66	0.44
42:DD:125:VAL:O	42:DD:125:VAL:HG12	2.17	0.44
45:DG:153:ILE:HD13	45:DG:166:LEU:HB3	2.00	0.44
46:DH:161:LEU:O	46:DH:164:ILE:HG22	2.18	0.44
48:DJ:132:ASN:HD22	48:DJ:132:ASN:H	1.65	0.44
49:DL:120:GLN:C	49:DL:122:LYS:H	2.26	0.44
59:DV:84:SER:HA	59:DV:94:TYR:HB3	2.00	0.44
64:Da:128:ARG:HB2	72:Di:8:ALA:CB	2.47	0.44
67:Dd:77:ARG:HG3	67:Dd:90:PHE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Dd:85:ALA:O	67:Dd:87:ASN:N	2.51	0.44
1:A2:443:C:H2'	1:A2:444:C:O4'	2.18	0.44
1:A2:856:A:H62	9:AH:97:ARG:H	1.66	0.44
1:A2:1196:A:H3'	1:A2:1196:A:OP1	2.17	0.44
1:A2:1617:U:H2'	1:A2:1618:C:C6	2.52	0.44
2:AA:124:THR:HG22	2:AA:174:TRP:HZ2	1.81	0.44
4:AC:104:VAL:HG22	4:AC:132:ALA:HB1	2.00	0.44
8:AG:63:MET:HA	8:AG:98:ARG:O	2.18	0.44
12:AK:46:LEU:HA	12:AK:46:LEU:HD13	1.66	0.44
16:AO:30:VAL:HG13	16:AO:39:ILE:O	2.18	0.44
33:Af:103:LEU:HD23	33:Af:103:LEU:HA	1.71	0.44
36:A1:112:U:O2'	36:A1:113:C:P	2.76	0.44
36:A1:123:A:C6	36:A1:150:A:C5	3.05	0.44
36:A1:391:A:OP2	86:A1:3706:OHX:N2	2.51	0.44
36:A1:437:G:H2'	36:A1:438:A:O4'	2.17	0.44
36:A1:1081:U:H5''	36:A1:1081:U:C6	2.52	0.44
36:A1:1347:U:O4'	41:BC:305:ALA:HA	2.18	0.44
36:A1:3242:G:H5'	36:A1:3245:A:N3	2.33	0.44
36:A1:3355:U:H3'	36:A1:3356:G:H5''	2.00	0.44
39:BA:204:MET:CE	39:BA:209:HIS:HB2	2.48	0.44
40:BB:160:VAL:HG12	40:BB:162:VAL:HG12	1.98	0.44
45:BG:128:LYS:HA	45:BG:129:PRO:HD3	1.90	0.44
48:BJ:80:LEU:HD22	48:BJ:84:LEU:HD12	2.00	0.44
52:BO:88[B]:VAL:O	52:BO:90[B]:HIS:N	2.51	0.44
57:BT:51:GLY:HA3	57:BT:92:ARG:HG3	1.99	0.44
64:Ba:58:MET:HE3	64:Ba:58:MET:HB2	1.56	0.44
66:Bc:86:ARG:NH1	79:Bp:44:LYS:HG2	2.33	0.44
72:Bi:53:TYR:CD1	72:Bi:76:ARG:HG2	2.53	0.44
80:A6:156:A:H2'	80:A6:157:A:O4'	2.18	0.44
80:A6:820:U:H6	80:A6:820:U:H2'	1.36	0.44
80:A6:1649:G:H2'	80:A6:1650:U:C6	2.53	0.44
86:A6:2005:OHX:N3	86:CL:201:OHX:N6	2.65	0.44
2:CA:52:LYS:NZ	23:CV:82:VAL:O	2.42	0.44
2:CA:177:LEU:O	2:CA:181:VAL:HG22	2.18	0.44
2:CA:178:ALA:HA	2:CA:181:VAL:HG22	2.00	0.44
3:CB:48:VAL:HG22	3:CB:64:ARG:NH2	2.33	0.44
3:CB:55:LYS:HD3	3:CB:55:LYS:HA	1.33	0.44
3:CB:208:GLN:C	3:CB:209:ASN:O	2.61	0.44
7:CF:29:ILE:HA	7:CF:30:PRO:HD3	1.79	0.44
13:CL:67:ARG:O	13:CL:67:ARG:HG2	2.18	0.44
14:CM:55:GLY:HA2	14:CM:85:LYS:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CM:67:THR:C	14:CM:69:ALA:H	2.24	0.44
16:CO:20:TYR:HB3	16:CO:27:PHE:HB2	1.99	0.44
18:CQ:78:VAL:O	18:CQ:81:ILE:HG12	2.18	0.44
22:CU:102:ARG:O	22:CU:106:ILE:HG22	2.18	0.44
36:A5:1541:G:C2'	36:A5:1542:G:O5'	2.63	0.44
36:A5:1543:G:O6	86:A5:3740:OHX:N1	2.51	0.44
36:A5:2163:C:H4'	39:DA:8:GLN:HA	2.00	0.44
36:A5:2319:U:O4	86:A5:3510:OHX:N2	2.51	0.44
36:A5:3195:U:C1'	36:A5:3196:U:OP1	2.65	0.44
36:A5:3287:U:H2'	36:A5:3288:G:H5'	2.00	0.44
41:DC:141:ARG:NH1	41:DC:180:LYS:HD3	2.33	0.44
44:DF:140:SER:O	44:DF:144:ILE:HG13	2.18	0.44
49:DL:46:ILE:HA	49:DL:46:ILE:HD13	1.45	0.44
62:DY:103:LYS:HD3	62:DY:103:LYS:HA	1.45	0.44
63:DZ:46:ILE:HD13	63:DZ:49:TYR:N	2.32	0.44
67:Dd:46:THR:CG2	67:Dd:47:ASP:N	2.80	0.44
69:Df:10:LYS:H	69:Df:10:LYS:HG2	1.64	0.44
76:Dm:77:ILE:HG13	76:Dm:78:ILE:N	2.33	0.44
1:A2:72:A:O2'	1:A2:73:U:H5''	2.18	0.44
1:A2:417:A:H4'	1:A2:418:G:O5'	2.17	0.44
1:A2:839:U:O4	1:A2:840:U:C4	2.71	0.44
1:A2:1149:G:H5''	1:A2:1150:G:OP1	2.18	0.44
1:A2:1166:A:H2'	1:A2:1167:G:O4'	2.17	0.44
1:A2:1393:C:H2'	1:A2:1394:G:O4'	2.18	0.44
2:AA:48:ILE:HG21	2:AA:161:PRO:HB2	1.98	0.44
4:AC:89:GLN:CD	4:AC:94:GLN:HE21	2.26	0.44
4:AC:165:VAL:HA	4:AC:201:ASN:O	2.17	0.44
5:AD:150:MET:CE	35:Ah:110:TRP:HB3	2.48	0.44
11:AJ:31:ALA:HA	11:AJ:36:LEU:HD12	2.00	0.44
12:AK:88:PRO:C	12:AK:90:THR:H	2.26	0.44
16:AO:84:ARG:HA	16:AO:119:THR:HG22	2.00	0.44
17:AP:34:VAL:HG21	17:AP:45:PHE:HB2	1.99	0.44
27:AZ:54:VAL:HG13	27:AZ:57:TYR:HD1	1.81	0.44
36:A1:186:U:OP1	62:BY:122:LYS:HE2	2.18	0.44
36:A1:715:A:C4'	36:A1:716:A:OP1	2.65	0.44
36:A1:1336:U:H2'	36:A1:1337:A:C8	2.53	0.44
36:A1:1835:A:O5'	36:A1:1836:C:OP2	2.35	0.44
86:A1:3442:OHX:N3	86:A1:3753:OHX:N6	2.66	0.44
86:A1:3513:OHX:N1	38:A4:31:G:OP2	2.51	0.44
86:A1:3598:OHX:N6	86:A1:3722:OHX:N3	2.66	0.44
40:BB:92:TYR:CE2	40:BB:101:SER:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BB:303:LYS:HD2	40:BB:361:THR:HG21	2.00	0.44
42:BD:208:MET:HG3	42:BD:223:PHE:CE2	2.52	0.44
42:BD:253:PHE:CE1	42:BD:255:PRO:HD3	2.53	0.44
46:BH:92:TYR:N	46:BH:92:TYR:CD1	2.85	0.44
47:BI:142:ASP:C	47:BI:144:ASN:H	2.26	0.44
52:BO:23[A]:VAL:HG11	52:BO:84[A]:LEU:HD11	1.99	0.44
52:BO:138[B]:LEU:HD12	52:BO:138[B]:LEU:HA	1.70	0.44
55:BR:23:TRP:O	55:BR:50:ILE:HA	2.18	0.44
62:BY:89:LYS:HB3	62:BY:90:VAL:H	1.65	0.44
63:BZ:95:VAL:O	63:BZ:100:THR:OG1	2.35	0.44
73:Bj:17:THR:HG22	73:Bj:18:LEU:H	1.83	0.44
75:Bl:30:ARG:HE	75:Bl:30:ARG:HB2	1.30	0.44
80:A6:444:C:OP2	26:CY:105:ARG:HG3	2.18	0.44
80:A6:711:U:H3'	80:A6:712:G:H8	1.83	0.44
80:A6:1140:G:OP2	86:A6:1928:OHX:N1	2.50	0.44
80:A6:1429:G:H2'	80:A6:1430:U:H6	1.82	0.44
80:A6:1508:U:H2'	80:A6:1509:C:C6	2.53	0.44
80:A6:1533:C:H4'	80:A6:1539:G:C6	2.52	0.44
2:CA:57:LEU:HD21	2:CA:177:LEU:HG	2.00	0.44
3:CB:33:LYS:HB3	3:CB:232:HIS:CE1	2.53	0.44
3:CB:209:ASN:O	3:CB:210:ILE:HG13	2.18	0.44
6:CE:160:VAL:HG12	6:CE:162:ILE:HD12	2.00	0.44
7:CF:36:ALA:HB1	7:CF:42:LEU:HD12	1.99	0.44
8:CG:169:TYR:C	8:CG:169:TYR:HD2	2.26	0.44
16:CO:107:ARG:HB2	16:CO:107:ARG:NH2	2.33	0.44
23:CV:3:ASN:OD1	23:CV:3:ASN:C	2.61	0.44
26:CY:6:THR:O	26:CY:8:ARG:HG3	2.18	0.44
81:Ch:46:LYS:HA	36:A5:1018:G:H4'	1.99	0.44
81:Ch:52:PRO:C	81:Ch:54:PRO:HD3	2.43	0.44
36:A5:136:G:H5'	71:Dh:95:PHE:CG	2.53	0.44
36:A5:183:G:H2'	36:A5:184:U:O4'	2.17	0.44
36:A5:678:G:O6	86:A5:3530:OHX:N5	2.51	0.44
36:A5:1145:G:OP1	68:De:44:ARG:NH1	2.47	0.44
36:A5:1151:U:H3'	36:A5:1152:G:C8	2.53	0.44
36:A5:1661:G:H2'	36:A5:1662:G:C8	2.53	0.44
36:A5:1677:G:OP1	58:DU:100:THR:HA	2.17	0.44
36:A5:2140:U:O2'	36:A5:2978:U:H5'	2.18	0.44
36:A5:2585:G:N3	36:A5:2585:G:H2'	2.33	0.44
36:A5:2957:G:H5'	36:A5:2957:G:C8	2.45	0.44
86:A5:3494:OHX:N3	86:A5:3822:OHX:N6	2.66	0.44
86:A5:3538:OHX:N6	86:A5:3759:OHX:N5	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:A8:47:C:H1'	38:A8:61:A:H2'	2.00	0.44
51:DN:143:ARG:NH2	71:Dh:92:LEU:HD23	2.33	0.44
52:DO:8[B]:VAL:HG12	52:DO:117[B]:ARG:HB3	1.99	0.44
52:DO:127[B]:LEU:HD11	56:DS:168:PRO:HG3	2.00	0.44
63:DZ:36:HIS:N	63:DZ:37:PRO:HD3	2.33	0.44
63:DZ:92:PHE:O	63:DZ:93:LYS:C	2.61	0.44
66:Dc:40:LYS:HB3	66:Dc:101:LEU:HD11	1.99	0.44
71:Dh:68:GLN:C	71:Dh:70:TYR:H	2.25	0.44
79:Dp:50:GLY:O	79:Dp:51:ALA:HB3	2.18	0.44
1:A2:47:A:N1	1:A2:386:G:H1'	2.32	0.43
3:AB:183:GLN:O	3:AB:187:LYS:HG3	2.17	0.43
7:AF:225:ARG:CZ	30:Ac:58:GLU:HG2	2.48	0.43
18:AQ:6:SER:HA	18:AQ:23:LYS:HA	2.00	0.43
19:AR:23:LYS:HB3	19:AR:34:LEU:HD11	1.99	0.43
20:AS:90:ASN:O	20:AS:91:ASP:C	2.61	0.43
21:AT:64:HIS:CE1	21:AT:68:ARG:CZ	3.01	0.43
26:AY:52:LYS:C	26:AY:54:ALA:H	2.26	0.43
36:A1:129:U:C5	86:A1:3798:OHX:N5	2.86	0.43
36:A1:284:A:OP2	78:Bo:41:ARG:NH1	2.39	0.43
36:A1:552:G:H5'	36:A1:553:U:OP2	2.18	0.43
36:A1:1329:U:O2'	36:A1:1330:A:C5'	2.66	0.43
36:A1:1336:U:H2'	36:A1:1337:A:H8	1.81	0.43
36:A1:1501:U:O5'	36:A1:1501:U:H6	2.01	0.43
36:A1:1826:C:H2'	36:A1:1827:C:C6	2.52	0.43
36:A1:2567:C:H2'	36:A1:2568:C:H5'	1.99	0.43
36:A1:3065:G:H2'	36:A1:3066:U:O4'	2.18	0.43
86:A1:3601:OHX:N2	86:A1:3725:OHX:N1	2.66	0.43
39:BA:206:PRO:HD3	39:BA:213:GLY:HA3	2.00	0.43
39:BA:209:HIS:CD2	39:BA:211:HIS:HB2	2.53	0.43
40:BB:92:TYR:CE1	40:BB:159:ARG:HD2	2.53	0.43
41:BC:162:THR:O	41:BC:166:VAL:HG23	2.18	0.43
48:BJ:47:GLN:OE1	48:BJ:64:LYS:HE2	2.18	0.43
52:BO:64[A]:PHE:CE1	52:BO:68[A]:ARG:HD3	2.54	0.43
53:BP:33:ALA:HB1	53:BP:117:ILE:HG12	2.00	0.43
62:BY:74:TYR:CD1	62:BY:77:LYS:HG3	2.53	0.43
63:BZ:101:PHE:HA	63:BZ:107:ARG:HE	1.83	0.43
67:Bd:36:ILE:O	67:Bd:39:PHE:HB3	2.18	0.43
70:Bg:30:LEU:HD23	70:Bg:30:LEU:HA	1.81	0.43
74:Bk:78:LEU:HD13	74:Bk:78:LEU:HA	1.95	0.43
75:Bl:5:LYS:CD	75:Bl:13:MET:HE1	2.41	0.43
80:A6:164:A:O2'	80:A6:165:G:H5'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:1796:C:C5	28:Ca:6:ALA:N	2.86	0.43
3:CB:146:GLN:O	3:CB:147:ALA:C	2.61	0.43
5:CD:123:VAL:O	5:CD:127:MET:HB2	2.18	0.43
9:CH:62:VAL:HG13	9:CH:63:PRO:HD2	2.00	0.43
9:CH:63:PRO:C	9:CH:65:PRO:HD2	2.43	0.43
9:CH:117:THR:HG22	9:CH:120:ALA:HB2	2.00	0.43
14:CM:135:MET:O	14:CM:138:GLU:N	2.50	0.43
15:CN:18:TYR:O	15:CN:19:SER:HB2	2.18	0.43
15:CN:102:LEU:HD23	15:CN:102:LEU:HA	1.76	0.43
17:CP:112:LEU:HD23	17:CP:112:LEU:HA	1.80	0.43
18:CQ:83:GLN:HG3	18:CQ:115:THR:HG22	2.00	0.43
25:CX:130:VAL:O	25:CX:131:SER:CB	2.63	0.43
26:CY:55:VAL:HG12	26:CY:75:VAL:HG22	2.00	0.43
26:CY:67:GLY:O	26:CY:68:LYS:HB2	2.18	0.43
26:CY:108:ARG:O	26:CY:109:LYS:C	2.61	0.43
27:CZ:82:HIS:O	27:CZ:85:LYS:N	2.43	0.43
31:Cd:22:ARG:HG2	31:Cd:38:ILE:HD13	1.99	0.43
36:A5:507:U:H2'	36:A5:508:U:C6	2.53	0.43
36:A5:607:A:OP1	43:DE:26:ARG:NH2	2.51	0.43
36:A5:799:G:OP2	64:Da:32:ARG:NH1	2.51	0.43
36:A5:914:A:C2	39:DA:204:MET:HG2	2.52	0.43
36:A5:1003:A:H1'	42:DD:15:ARG:CZ	2.47	0.43
36:A5:1128:U:H2'	36:A5:1129:A:O4'	2.18	0.43
36:A5:1715:A:H4'	36:A5:1716:U:OP1	2.18	0.43
36:A5:1722:U:O4'	55:DR:96:ILE:HG12	2.18	0.43
36:A5:1807:G:C6	36:A5:1808:G:N1	2.85	0.43
36:A5:1817:G:O2'	36:A5:1818:U:P	2.76	0.43
36:A5:2358:A:H2'	36:A5:2359:C:O4'	2.17	0.43
36:A5:2729:U:H4'	54:DQ:157:PRO:CB	2.48	0.43
36:A5:2878:G:OP1	40:DB:5:LYS:HE3	2.18	0.43
36:A5:2965:U:O2	39:DA:221:LYS:NZ	2.51	0.43
36:A5:3276:G:H4'	36:A5:3277:U:OP1	2.17	0.43
86:A5:3568:OHX:N3	86:A5:3623:OHX:N5	2.66	0.43
39:DA:30:ARG:NH2	39:DA:33:ASP:OD2	2.51	0.43
40:DB:106:TRP:CH2	40:DB:161:LEU:HD13	2.52	0.43
42:DD:214:ASP:O	42:DD:215:ASP:HB2	2.18	0.43
43:DE:175:LYS:HD2	50:DM:111:ALA:HA	2.00	0.43
47:DI:171:TRP:O	47:DI:174:THR:CG2	2.66	0.43
51:DN:10:LEU:HD23	51:DN:10:LEU:HA	1.72	0.43
54:DQ:138:LEU:HA	54:DQ:138:LEU:HD23	1.74	0.43
63:DZ:53:VAL:HA	63:DZ:57:HIS:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Dc:99:ASP:O	66:Dc:100:ILE:C	2.61	0.43
70:Dg:42:PRO:HG2	70:Dg:54:ILE:CG2	2.48	0.43
71:Dh:78:LYS:HA	71:Dh:81:ARG:CD	2.44	0.43
78:Do:12:CYS:SG	78:Do:74:CYS:SG	3.15	0.43
78:Do:71:ARG:HG3	78:Do:71:ARG:NH1	2.33	0.43
1:A2:95:G:HO2'	1:A2:460:A:HO2'	1.61	0.43
1:A2:154:G:OP1	8:AG:2:LYS:NZ	2.50	0.43
1:A2:1536:G:C6	1:A2:1538:U:H1'	2.53	0.43
2:AA:11:PRO:O	2:AA:15:GLN:HG3	2.18	0.43
3:AB:105:PHE:CE2	3:AB:213:ARG:HA	2.53	0.43
6:AE:147:ILE:HD13	6:AE:169:ILE:HG13	2.00	0.43
7:AF:198:LEU:HA	7:AF:198:LEU:HD23	1.69	0.43
11:AJ:36:LEU:O	32:Ae:33:ARG:HG3	2.18	0.43
12:AK:29:GLN:O	12:AK:30:ALA:HB3	2.18	0.43
14:AM:129:GLU:HA	14:AM:133:LEU:HD22	2.00	0.43
15:AN:26:PHE:HE1	15:AN:59:GLY:O	2.01	0.43
15:AN:29:SER:C	15:AN:66:ILE:HD11	2.43	0.43
16:AO:29:HIS:CB	16:AO:41:ARG:HA	2.48	0.43
20:AS:56:LYS:HD3	20:AS:60:GLU:HG3	2.00	0.43
22:AU:31:VAL:O	22:AU:35:GLU:HB2	2.18	0.43
33:Af:109:ASP:HB2	33:Af:113:LYS:HG2	2.00	0.43
34:Ag:43:ILE:HD13	34:Ag:60:SER:HA	1.99	0.43
36:A1:250:U:H3'	36:A1:251:G:C5'	2.48	0.43
36:A1:431:U:O4	86:A1:3544:OHX:N2	2.50	0.43
36:A1:1081:U:H5''	36:A1:1081:U:H6	1.82	0.43
36:A1:1517:G:P	75:Bl:41:ARG:HH22	2.41	0.43
36:A1:1878:G:C3'	36:A1:1879:A:H5'	2.48	0.43
36:A1:3281:U:H2'	36:A1:3282:U:C6	2.53	0.43
86:A1:3457:OHX:N2	86:A1:3792:OHX:N1	2.66	0.43
86:A1:3512:OHX:N5	86:A1:3693:OHX:N6	2.66	0.43
38:A4:143:U:H2'	38:A4:144:G:O4'	2.17	0.43
40:BB:188:ILE:HD12	40:BB:188:ILE:H	1.84	0.43
40:BB:332:ARG:HG2	40:BB:332:ARG:NH1	2.26	0.43
41:BC:290:ILE:HG23	54:BQ:35:PHE:CE2	2.53	0.43
42:BD:292:ALA:C	42:BD:294:ALA:H	2.26	0.43
44:BF:136:TYR:CZ	44:BF:231:ASN:HB2	2.54	0.43
47:BI:54:SER:HB3	47:BI:130:ASP:O	2.17	0.43
47:BI:99:ILE:HG22	47:BI:123:HIS:HB2	2.00	0.43
47:BI:221:ALA:C	86:BI:304:OHX:N4	2.75	0.43
53:BP:169:THR:HG23	69:Bf:60:ARG:NH1	2.32	0.43
57:BT:26:HIS:HD1	57:BT:26:HIS:C	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:BW:4:GLU:HG2	60:BW:30:ARG:CD	2.47	0.43
80:A6:658:C:N4	80:A6:674:C:C2	2.85	0.43
80:A6:1679:G:O2'	80:A6:1680:G:H5'	2.18	0.43
2:CA:54:TRP:O	2:CA:58:VAL:HG23	2.18	0.43
9:CH:143:LEU:HB2	9:CH:147:ASN:O	2.18	0.43
10:CI:4:SER:HB2	10:CI:24:LYS:HD3	2.00	0.43
10:CI:36:THR:HG23	10:CI:96:LEU:O	2.17	0.43
13:CL:55:ASP:C	13:CL:57:LYS:H	2.26	0.43
14:CM:62:LEU:CG	14:CM:63:VAL:H	2.31	0.43
18:CQ:43:ILE:HD13	18:CQ:43:ILE:H	1.83	0.43
34:Cg:106:HIS:CD2	34:Cg:110:VAL:HG22	2.53	0.43
34:Cg:297:ASP:C	34:Cg:299:GLN:H	2.27	0.43
81:Ch:47:ALA:O	81:Ch:48:ARG:HB2	2.17	0.43
36:A5:172:G:O6	86:A5:3812:OHX:N4	2.51	0.43
36:A5:339:C:OP1	36:A5:1380:G:O2'	2.30	0.43
36:A5:911:C:O2	36:A5:917:A:N1	2.51	0.43
36:A5:1249:G:H2'	36:A5:1250:G:H8	1.83	0.43
36:A5:1553:U:H1'	36:A5:1554:U:H5	1.84	0.43
36:A5:1783:U:H2'	36:A5:1784:G:C8	2.53	0.43
36:A5:1802:C:H2'	36:A5:1803:C:C6	2.53	0.43
36:A5:2741:C:O2'	78:Do:20:HIS:ND1	2.48	0.43
36:A5:2761:G:N7	78:Do:63:LYS:NZ	2.63	0.43
36:A5:3330:A:H8	36:A5:3330:A:C5'	2.29	0.43
38:A8:78:G:C6	86:A8:218:OHX:N3	2.87	0.43
42:DD:257:GLU:O	42:DD:258:LYS:HD3	2.18	0.43
50:DM:14:LEU:HA	50:DM:14:LEU:HD23	1.82	0.43
51:DN:73:ARG:HB2	51:DN:92:LEU:HD23	2.00	0.43
52:DO:108[B]:ILE:HA	52:DO:109[B]:PRO:HD2	1.84	0.43
54:DQ:60:PRO:HG2	54:DQ:142:GLY:C	2.43	0.43
64:Da:49:HIS:N	64:Da:50:PRO:HD3	2.33	0.43
77:Dn:16:LYS:HB3	77:Dn:16:LYS:HE2	1.75	0.43
1:A2:268:C:N4	8:AG:186:ARG:HD3	2.33	0.43
1:A2:712:G:H3'	1:A2:712:G:C8	2.53	0.43
1:A2:755:A:O2'	1:A2:756:A:OP1	2.36	0.43
1:A2:960:U:H2'	1:A2:961:U:C6	2.52	0.43
1:A2:1051:G:O2'	1:A2:1052:U:P	2.75	0.43
1:A2:1586:A:H2'	1:A2:1587:A:C8	2.54	0.43
2:AA:200:ASP:HA	2:AA:203:PHE:CE1	2.54	0.43
4:AC:65:GLU:O	4:AC:68:ILE:HB	2.18	0.43
11:AJ:129:ILE:HG12	11:AJ:134:ILE:HD12	2.00	0.43
11:AJ:170:GLY:HA2	11:AJ:171:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:54:TYR:N	12:AK:54:TYR:CD1	2.86	0.43
17:AP:83:MET:SD	17:AP:89:MET:HE1	2.58	0.43
18:AQ:47:LYS:NZ	18:AQ:114:ARG:HG2	2.33	0.43
21:AT:86:ARG:HH11	21:AT:86:ARG:CG	2.29	0.43
24:AW:82:LYS:O	24:AW:83:ILE:HG22	2.18	0.43
27:AZ:56:THR:HA	27:AZ:103:ARG:HH11	1.83	0.43
31:Ad:6:VAL:HG23	31:Ad:7:TRP:CZ3	2.53	0.43
36:A1:345:G:H2'	38:A4:25:G:O2'	2.18	0.43
36:A1:562:C:H2'	36:A1:563:U:C6	2.54	0.43
36:A1:718:G:O6	36:A1:751:A:H1'	2.18	0.43
36:A1:848:A:H8	36:A1:848:A:O5'	2.00	0.43
36:A1:1222:G:N2	36:A1:1285:G:O2'	2.51	0.43
36:A1:1845:G:C8	36:A1:1845:G:H5'	2.53	0.43
36:A1:1938:U:O4	86:A1:3457:OHX:N2	2.51	0.43
36:A1:2180:G:O6	86:A1:3567:OHX:N3	2.51	0.43
36:A1:2404:A:H2'	36:A1:2404:A:N3	2.33	0.43
36:A1:2651:G:H4'	36:A1:2652:U:OP2	2.18	0.43
36:A1:2680:A:C2	48:BJ:24:GLY:CA	3.01	0.43
36:A1:2707:C:H2'	36:A1:2708:C:H6	1.83	0.43
36:A1:3279:A:H2'	36:A1:3280:U:H5'	2.01	0.43
86:A1:3467:OHX:N5	86:BA:301:OHX:N6	2.66	0.43
86:A1:3496:OHX:N2	86:A1:3805:OHX:N6	2.66	0.43
39:BA:183:GLY:O	39:BA:186:PHE:HB3	2.18	0.43
41:BC:180:LYS:C	41:BC:181:VAL:O	2.54	0.43
45:BG:78:PHE:C	45:BG:80:TYR:N	2.75	0.43
46:BH:20:ILE:HD12	46:BH:45:PHE:CD1	2.54	0.43
47:BI:170:LYS:NZ	47:BI:175:ASN:O	2.52	0.43
50:BM:55:ARG:NH2	50:BM:77:ARG:HA	2.32	0.43
52:BO:170[A]:LYS:O	52:BO:173[A]:ALA:HB3	2.18	0.43
54:BQ:170:ARG:O	54:BQ:171:LYS:HB3	2.19	0.43
54:BQ:176:ARG:HA	54:BQ:182:LYS:HB3	1.99	0.43
55:BR:5:ARG:HB3	55:BR:6:THR:H	1.40	0.43
59:BV:45:ARG:O	59:BV:46:LEU:C	2.61	0.43
61:BX:46:TYR:CD2	71:Bh:75:TYR:HB3	2.52	0.43
80:A6:56:U:H4'	80:A6:57:G:H5'	1.99	0.43
80:A6:337:G:H8	80:A6:337:G:H5''	1.83	0.43
80:A6:812:A:OP1	80:A6:814:A:H8	2.00	0.43
80:A6:838:G:C6	80:A6:839:U:C4	3.06	0.43
80:A6:1584:G:N7	18:CQ:14:LYS:HE2	2.33	0.43
2:CA:30:GLN:OE1	2:CA:31:VAL:N	2.50	0.43
2:CA:172:LEU:O	2:CA:175:TYR:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CF:108:LEU:HA	7:CF:108:LEU:HD23	1.74	0.43
8:CG:148:SER:O	8:CG:151:ASP:HB2	2.18	0.43
9:CH:117:THR:HG22	9:CH:120:ALA:H	1.83	0.43
19:CR:13:SER:O	19:CR:17:ILE:HG13	2.18	0.43
19:CR:14:LYS:O	19:CR:18:GLU:HG3	2.19	0.43
28:Ca:46:GLU:HG3	28:Ca:47:ALA:N	2.33	0.43
30:Cc:11:LYS:O	30:Cc:30:VAL:HG12	2.17	0.43
36:A5:29:C:H4'	36:A5:62:A:H4'	2.00	0.43
36:A5:169:U:H4'	36:A5:170:G:OP1	2.16	0.43
36:A5:790:U:H5'	41:DC:112:LYS:HD2	2.01	0.43
36:A5:1024:G:H5''	36:A5:1025:A:OP2	2.17	0.43
36:A5:2406:C:H2'	36:A5:2407:C:C6	2.53	0.43
36:A5:3362:A:C2	36:A5:3363:U:C2	3.06	0.43
86:A5:3568:OHX:N4	86:A5:3623:OHX:N1	2.65	0.43
86:A5:3581:OHX:N5	86:A5:3815:OHX:N2	2.66	0.43
38:A8:121:U:O2'	38:A8:122:U:H5'	2.19	0.43
39:DA:174:ARG:HA	79:Dp:69:TYR:CE2	2.53	0.43
42:DD:68:THR:CG2	42:DD:70:THR:H	2.31	0.43
42:DD:279:LYS:HD3	42:DD:282:ARG:CZ	2.48	0.43
57:DT:17:ARG:HH11	57:DT:17:ARG:CG	2.31	0.43
58:DU:36:TYR:O	58:DU:40:HIS:HD2	2.01	0.43
61:DX:105:VAL:HG13	61:DX:130:TYR:CD2	2.53	0.43
1:A2:66:U:O4	8:AG:158:ILE:HG21	2.19	0.43
1:A2:434:G:H5'	25:AX:78:LYS:HB3	1.99	0.43
1:A2:542:A:O2'	1:A2:542:A:H8	2.01	0.43
1:A2:577:G:C8	1:A2:577:G:C3'	3.01	0.43
1:A2:720:G:O2'	1:A2:721:U:H5'	2.18	0.43
1:A2:1165:G:C6	1:A2:1166:A:C6	3.06	0.43
1:A2:1318:G:O2'	1:A2:1319:A:H5'	2.19	0.43
1:A2:1487:A:H2'	1:A2:1488:G:H8	1.83	0.43
1:A2:1681:A:H1'	8:AG:66:GLY:HA2	2.00	0.43
2:AA:69:ASN:HB3	2:AA:71:GLU:OE2	2.18	0.43
6:AE:61:VAL:HG12	6:AE:65:LEU:HD12	2.00	0.43
7:AF:25:LEU:HB2	18:AQ:27:GLY:HA3	1.99	0.43
8:AG:98:ARG:HD3	8:AG:99:GLY:O	2.17	0.43
17:AP:125:PRO:HG3	20:AS:129:TRP:CH2	2.53	0.43
20:AS:10:SER:OG	20:AS:11:PHE:N	2.52	0.43
22:AU:20:ILE:N	22:AU:95:ALA:O	2.50	0.43
34:Ag:159:ASN:ND2	34:Ag:166:SER:O	2.51	0.43
34:Ag:211:ILE:HG22	34:Ag:223:TRP:HD1	1.83	0.43
36:A1:112:U:H6	36:A1:112:U:H2'	1.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1236:G:C2	36:A1:1245:A:C8	3.06	0.43
36:A1:1895:A:HO2'	36:A1:3053:G:H4'	1.84	0.43
36:A1:3010:U:OP2	86:A1:3763:OHX:N5	2.51	0.43
36:A1:3155:U:O2	36:A1:3155:U:H2'	2.18	0.43
36:A1:3159:C:H2'	36:A1:3160:U:C6	2.53	0.43
36:A1:3316:A:C2'	36:A1:3317:U:OP2	2.66	0.43
86:A1:3496:OHX:N3	86:A1:3650:OHX:N3	2.66	0.43
86:A1:3496:OHX:N1	86:A1:3805:OHX:N5	2.66	0.43
39:BA:230:VAL:O	39:BA:233:GLN:HB2	2.17	0.43
41:BC:42:VAL:C	41:BC:44:LYS:H	2.25	0.43
41:BC:84:ARG:O	41:BC:87:GLN:HG3	2.18	0.43
42:BD:160:PHE:CD2	42:BD:179:ARG:HB3	2.54	0.43
45:BG:75:ILE:O	45:BG:76:ALA:HB3	2.18	0.43
46:BH:2:LYS:HA	46:BH:60:GLY:O	2.18	0.43
49:BL:126:PHE:HA	49:BL:127:PRO:HD3	1.87	0.43
63:BZ:26:VAL:HG21	63:BZ:96:VAL:CG1	2.48	0.43
70:Bg:97:GLU:O	70:Bg:99:LYS:N	2.51	0.43
76:Bm:78:ILE:HG22	76:Bm:79:GLU:N	2.32	0.43
80:A6:485:A:C5	80:A6:486:G:H1'	2.53	0.43
80:A6:541:A:P	80:A6:541:A:H8	2.42	0.43
80:A6:720:G:H5''	80:A6:720:G:N3	2.33	0.43
80:A6:1342:C:O2'	80:A6:1343:U:H5'	2.18	0.43
80:A6:1451:C:OP1	31:Cd:9:SER:HA	2.18	0.43
14:CM:62:LEU:CD1	14:CM:63:VAL:H	2.28	0.43
14:CM:66:VAL:HB	14:CM:67:THR:H	1.40	0.43
15:CN:48:SER:O	15:CN:52:VAL:HG23	2.18	0.43
16:CO:48:VAL:HG22	16:CO:49:LYS:N	2.33	0.43
17:CP:129:GLY:HA3	81:Ch:74:LYS:HG2	1.99	0.43
25:CX:29:TYR:CZ	25:CX:33:LEU:HD12	2.53	0.43
34:Cg:54:PHE:CD2	34:Cg:312:VAL:HG11	2.53	0.43
34:Cg:63:GLY:HA3	34:Cg:90:ARG:NH1	2.33	0.43
36:A5:253:A:HO2'	36:A5:254:A:P	2.41	0.43
36:A5:284:A:OP2	78:Do:41:ARG:HD2	2.17	0.43
36:A5:1456:A:H4'	36:A5:1457:U:O5'	2.17	0.43
36:A5:3299:A:O2'	53:DP:55:GLN:NE2	2.51	0.43
37:A7:106:U:H2'	37:A7:107:C:O4'	2.19	0.43
40:DB:218:ILE:CG1	40:DB:276:THR:HG23	2.48	0.43
41:DC:89:ALA:O	41:DC:90:PHE:O	2.36	0.43
44:DF:185:ILE:O	44:DF:189:ILE:HG22	2.19	0.43
45:DG:136:LEU:HD23	45:DG:136:LEU:HA	1.72	0.43
46:DH:13:PRO:HG2	46:DH:16:VAL:CG1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:29:GLY:HA3	46:DH:82:VAL:HG13	2.01	0.43
46:DH:92:TYR:N	46:DH:92:TYR:CD2	2.84	0.43
49:DL:105:ASN:C	49:DL:105:ASN:OD1	2.61	0.43
52:DO:85[B]:ARG:HD3	52:DO:90[B]:HIS:ND1	2.33	0.43
52:DO:108[B]:ILE:HG21	52:DO:108[B]:ILE:HD13	1.74	0.43
54:DQ:176:ARG:NH1	64:Da:46:ASP:OD1	2.51	0.43
63:DZ:135:ARG:HH21	63:DZ:135:ARG:CG	2.32	0.43
66:Dc:9:SER:HG	66:Dc:10:ILE:H	1.63	0.43
67:Dd:55:LEU:O	67:Dd:55:LEU:HD22	2.19	0.43
1:A2:93:A:H1'	6:AE:3:ARG:HB3	2.01	0.43
1:A2:702:G:OP1	1:A2:702:G:H4'	2.17	0.43
1:A2:1153:G:H5'	28:Aa:85:ARG:HD2	2.00	0.43
1:A2:1386:G:OP2	19:AR:44:LYS:NZ	2.52	0.43
1:A2:1402:G:H2'	1:A2:1403:C:C6	2.53	0.43
1:A2:1497:U:OP2	86:A2:1909:OHX:N1	2.52	0.43
1:A2:1511:U:H2'	1:A2:1512:G:H8	1.83	0.43
2:AA:17:LEU:HD23	2:AA:172:LEU:HD13	1.99	0.43
5:AD:28:GLU:OE2	5:AD:28:GLU:HA	2.18	0.43
5:AD:94:ARG:H	5:AD:94:ARG:HG3	1.51	0.43
7:AF:63:GLN:HB3	7:AF:64:VAL:H	1.70	0.43
8:AG:132:ARG:HG2	8:AG:132:ARG:HH11	1.84	0.43
13:AL:132:SER:O	13:AL:134:THR:N	2.52	0.43
14:AM:74:LEU:HD23	14:AM:74:LEU:HA	1.85	0.43
14:AM:125:ASN:O	14:AM:126:TRP:CD1	2.72	0.43
16:AO:126:THR:O	16:AO:127:ARG:C	2.62	0.43
18:AQ:27:GLY:HA2	18:AQ:63:ILE:O	2.19	0.43
19:AR:57:LEU:O	19:AR:61:ILE:HG13	2.19	0.43
21:AT:49:ASP:OD1	21:AT:53:TRP:N	2.48	0.43
25:AX:4:GLY:O	25:AX:5:LYS:C	2.60	0.43
25:AX:40:SER:O	25:AX:41:SER:O	2.36	0.43
34:Ag:123:ILE:HD11	34:Ag:156:VAL:HG23	2.01	0.43
36:A1:108:A:H2	49:BL:73:ARG:HH22	1.66	0.43
36:A1:1507:G:C8	53:BP:129:THR:CG2	3.00	0.43
36:A1:1796:G:H5''	36:A1:1797:A:OP1	2.18	0.43
36:A1:2341:A:OP2	40:BB:247:ARG:NH2	2.51	0.43
36:A1:2617:U:C5	36:A1:2621:G:OP2	2.69	0.43
86:A1:3463:OHX:N6	86:A1:3687:OHX:N5	2.66	0.43
86:A1:3467:OHX:N5	86:BA:301:OHX:N3	2.66	0.43
38:A4:142:C:H2'	38:A4:143:U:C6	2.53	0.43
47:BI:190:VAL:HG22	47:BI:199:PHE:CD1	2.54	0.43
52:BO:19[A]:LEU:O	52:BO:23[A]:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BP:67:ILE:CG2	53:BP:80:LYS:HB3	2.48	0.43
55:BR:103:ARG:HD2	55:BR:124:TYR:CE1	2.53	0.43
56:BS:155:ARG:HD3	56:BS:172:TYR:CD2	2.53	0.43
63:BZ:81:LEU:HD23	63:BZ:81:LEU:HA	1.93	0.43
78:Bo:52:GLY:O	78:Bo:54:THR:HG23	2.19	0.43
80:A6:332:U:P	10:CI:56:ARG:HH22	2.41	0.43
80:A6:727:U:H2'	80:A6:728:U:C6	2.53	0.43
80:A6:789:A:H3'	80:A6:790:U:H6	1.83	0.43
80:A6:813:U:H4'	80:A6:814:A:OP2	2.18	0.43
80:A6:1082:C:H41	80:A6:1091:A:N6	2.15	0.43
80:A6:1520:U:OP2	21:CT:75:LYS:HE2	2.19	0.43
80:A6:1688:U:O2	80:A6:1713:G:N2	2.49	0.43
86:A6:1909:OHX:N5	86:A6:2086:OHX:N6	2.67	0.43
2:CA:168:HIS:HB3	2:CA:203:PHE:CZ	2.54	0.43
3:CB:180:THR:HG23	3:CB:183:GLN:NE2	2.33	0.43
5:CD:215:GLU:HG2	5:CD:215:GLU:O	2.18	0.43
6:CE:125:LYS:HE3	6:CE:127:LYS:NZ	2.32	0.43
8:CG:24:ILE:O	8:CG:26:VAL:N	2.52	0.43
8:CG:139:ASN:HA	8:CG:142:ARG:HB2	1.99	0.43
9:CH:49:ILE:HG13	9:CH:57:ALA:HB3	2.00	0.43
22:CU:20:ILE:O	22:CU:94:GLU:HA	2.19	0.43
25:CX:57:LEU:HD13	32:Ce:4:VAL:HG13	2.01	0.43
26:CY:52:LYS:C	26:CY:54:ALA:H	2.27	0.43
26:CY:122:GLY:O	26:CY:124:ARG:N	2.51	0.43
33:Cf:98:UNK:HG3	33:Cf:99:UNK:N	2.34	0.43
36:A5:178:U:H2'	36:A5:179:C:O4'	2.18	0.43
36:A5:702:C:O2	36:A5:788:C:H4'	2.18	0.43
36:A5:726:G:H1'	36:A5:744:A:N6	2.33	0.43
36:A5:863:C:H2'	36:A5:864:G:O4'	2.18	0.43
36:A5:1114:U:H5''	64:Da:22:ILE:HD12	2.01	0.43
36:A5:1313:G:H2'	36:A5:1314:C:C6	2.54	0.43
36:A5:2877:G:OP1	86:A5:3568:OHX:N4	2.51	0.43
36:A5:3136:G:OP2	86:A5:3619:OHX:N3	2.51	0.43
86:A5:3548:OHX:N5	86:A5:3595:OHX:N6	2.67	0.43
86:A5:3549:OHX:N5	86:A5:3632:OHX:N4	2.65	0.43
39:DA:250:GLN:HG2	39:DA:251:LYS:H	1.84	0.43
40:DB:325:LYS:HG2	40:DB:326:GLY:N	2.32	0.43
41:DC:8:VAL:O	41:DC:16:THR:HB	2.18	0.43
41:DC:23:PRO:HD2	41:DC:26:PHE:CD2	2.54	0.43
41:DC:177:ASP:O	41:DC:180:LYS:HB3	2.18	0.43
52:DO:10[A]:ASP:CG	52:DO:37[A]:ARG:HH21	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DQ:158:HIS:H	54:DQ:186:VAL:CG1	2.28	0.43
54:DQ:176:ARG:HA	54:DQ:182:LYS:HB3	2.00	0.43
55:DR:28:GLU:O	55:DR:32:ILE:HG13	2.18	0.43
59:DV:33:ASN:ND2	59:DV:64:LYS:HB2	2.33	0.43
63:DZ:81:LEU:HD22	63:DZ:81:LEU:HA	1.48	0.43
66:Dc:9:SER:OG	66:Dc:12:GLN:HB3	2.18	0.43
66:Dc:77:LEU:HD12	66:Dc:77:LEU:O	2.19	0.43
67:Dd:82:GLU:O	67:Dd:83:GLU:C	2.61	0.43
83:Dq:75:LYS:O	83:Dq:78:PRO:HD2	2.19	0.43
1:A2:333:A:OP1	10:AI:31:ARG:NH2	2.51	0.43
1:A2:560:U:H2'	1:A2:561:G:C8	2.54	0.43
1:A2:609:U:H4'	1:A2:610:G:O5'	2.18	0.43
1:A2:639:U:OP1	9:AH:119:THR:HG23	2.19	0.43
1:A2:781:U:HO2'	1:A2:782:U:H6	1.65	0.43
1:A2:1230:A:HO2'	1:A2:1258:U:H5	1.64	0.43
1:A2:1460:A:OP2	35:Ah:68:ARG:HD3	2.17	0.43
1:A2:1537:C:N4	86:A2:2048:OHX:N4	2.61	0.43
2:AA:57:LEU:HD23	2:AA:177:LEU:HD23	2.00	0.43
3:AB:146:GLN:CB	3:AB:149:GLN:HE22	2.32	0.43
5:AD:70:THR:OG1	5:AD:71:LEU:N	2.51	0.43
10:AI:9:HIS:O	10:AI:10:LYS:CB	2.64	0.43
15:AN:28:LEU:HB3	15:AN:29:SER:H	1.67	0.43
20:AS:108:LYS:HA	20:AS:108:LYS:HD2	1.63	0.43
21:AT:126:GLU:CD	21:AT:126:GLU:N	2.76	0.43
22:AU:20:ILE:HD13	22:AU:22:ILE:HD13	1.99	0.43
24:AW:103:ILE:HD13	24:AW:126:LEU:HB2	2.00	0.43
28:Aa:61:GLU:O	28:Aa:62:TYR:HB3	2.18	0.43
28:Aa:64:LEU:HD22	28:Aa:64:LEU:HA	1.89	0.43
34:Ag:116:ASP:HB2	34:Ag:117:LYS:HD2	2.01	0.43
34:Ag:183:LEU:HD23	34:Ag:183:LEU:HA	1.71	0.43
34:Ag:222:LEU:HD13	34:Ag:222:LEU:HA	1.78	0.43
34:Ag:282:SER:H	34:Ag:285:ALA:HB3	1.84	0.43
36:A1:281:G:H2'	36:A1:282:G:H5'	2.00	0.43
36:A1:294:U:C2'	36:A1:295:A:H5''	2.49	0.43
36:A1:650:C:O2'	36:A1:651:G:H5'	2.19	0.43
36:A1:1223:A:C5	36:A1:1224:C:C5	3.06	0.43
36:A1:1362:G:O2'	44:BF:159:GLN:HA	2.19	0.43
36:A1:1950:U:H6	36:A1:1950:U:O5'	2.01	0.43
36:A1:2561:A:O2'	36:A1:2562:A:H8	2.01	0.43
36:A1:3291:G:O2'	36:A1:3292:A:H5'	2.18	0.43
86:A1:3539:OHX:N5	86:A1:3691:OHX:N2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:A4:122:U:H2'	38:A4:123:G:H8	1.82	0.43
38:A4:124:G:H1	38:A4:129:C:N4	2.11	0.43
49:BL:76:THR:HG23	49:BL:101:ARG:CZ	2.48	0.43
50:BM:20:VAL:HG13	50:BM:68:LEU:HB2	2.01	0.43
52:BO:65[B]:ASN:O	52:BO:68[B]:ARG:HG2	2.18	0.43
56:BS:13:ARG:O	56:BS:14:LEU:C	2.60	0.43
63:BZ:9:LYS:HD3	63:BZ:9:LYS:HA	1.69	0.43
64:Ba:56:VAL:HG23	64:Ba:57:GLY:H	1.84	0.43
65:Bb:58:LYS:HD2	65:Bb:58:LYS:HA	1.91	0.43
67:Bd:23:VAL:O	67:Bd:28:ARG:NH1	2.50	0.43
80:A6:407:A:H5'	8:CG:94:ARG:HH21	1.84	0.43
80:A6:748:U:OP1	24:CW:82:LYS:HE3	2.17	0.43
80:A6:1255:G:O2'	80:A6:1256:A:H8	2.01	0.43
80:A6:1350:U:H2'	80:A6:1351:G:C8	2.54	0.43
80:A6:1595:U:C4	80:A6:1600:A:H2	2.37	0.43
3:CB:104:ASP:OD1	3:CB:214:LYS:HG3	2.18	0.43
3:CB:131:ASP:OD1	3:CB:131:ASP:N	2.47	0.43
6:CE:94:ALA:O	6:CE:95:THR:HB	2.19	0.43
7:CF:65:ARG:NE	7:CF:65:ARG:HA	2.33	0.43
7:CF:145:ASP:OD2	7:CF:217:LEU:HD22	2.19	0.43
15:CN:132:VAL:HG23	15:CN:134:VAL:CG1	2.49	0.43
17:CP:53:PRO:O	17:CP:56:PHE:HB3	2.18	0.43
19:CR:88:VAL:HG22	19:CR:89:SER:N	2.34	0.43
22:CU:24:ILE:HD12	22:CU:41:ILE:HD13	1.99	0.43
22:CU:72:ASN:HD22	22:CU:73:GLY:H	1.66	0.43
34:Cg:225:LEU:O	34:Cg:228:LYS:HG3	2.18	0.43
34:Cg:238:ASP:OD2	34:Cg:258:THR:OG1	2.34	0.43
36:A5:83:U:H2'	36:A5:84:U:O4'	2.18	0.43
36:A5:171:G:H1	36:A5:247:C:H42	1.67	0.43
36:A5:267:G:H4'	51:DN:50:ARG:NH1	2.33	0.43
36:A5:1103:A:H3'	36:A5:1104:G:H5'	1.99	0.43
36:A5:1390:A:H5'	36:A5:1390:A:N3	2.33	0.43
36:A5:1563:C:N3	36:A5:1576:G:O6	2.51	0.43
36:A5:1580:A:O2'	36:A5:1581:C:OP2	2.30	0.43
36:A5:1895:A:O2'	36:A5:3053:G:H4'	2.18	0.43
36:A5:2872:A:HO2'	36:A5:2873:U:P	2.41	0.43
36:A5:3027:A:H2'	36:A5:3028:G:O4'	2.19	0.43
36:A5:3126:C:OP1	86:A5:3736:OHX:N5	2.52	0.43
86:A5:3577:OHX:N5	86:A5:3729:OHX:N3	2.67	0.43
39:DA:116:VAL:CG1	39:DA:134:VAL:HG11	2.48	0.43
42:DD:181:PRO:HD2	42:DD:195:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DD:211:LEU:HD23	42:DD:211:LEU:HA	1.71	0.43
45:DG:81:THR:OG1	45:DG:82:LEU:N	2.51	0.43
52:DO:61[A]:ALA:CB	52:DO:66[A]:LYS:HG3	2.48	0.43
69:Df:16:TYR:CG	69:Df:25:PRO:HA	2.54	0.43
83:Dq:48:ARG:NH2	83:Dq:91:GLU:HG3	2.33	0.43
1:A2:14:C:OP2	4:AC:206:THR:HG21	2.18	0.43
1:A2:506:A:H3'	1:A2:506:A:OP1	2.18	0.43
1:A2:1057:U:H1'	1:A2:1058:U:H2'	1.99	0.43
1:A2:1142:A:H2'	1:A2:1143:A:C8	2.53	0.43
1:A2:1157:A:HO2'	1:A2:1158:C:P	2.41	0.43
1:A2:1235:C:O2	33:Af:138:ARG:CZ	2.67	0.43
1:A2:1600:A:O2'	1:A2:1602:C:N4	2.52	0.43
1:A2:1710:U:H2'	1:A2:1711:C:C5	2.54	0.43
9:AH:28:GLU:O	9:AH:30:SER:N	2.52	0.43
9:AH:74:GLN:O	9:AH:78:THR:HG23	2.19	0.43
12:AK:16:PHE:HD2	12:AK:76:LEU:HD23	1.84	0.43
13:AL:57:LYS:HB2	13:AL:110:HIS:CE1	2.54	0.43
14:AM:67:THR:C	14:AM:69:ALA:N	2.76	0.43
14:AM:129:GLU:O	14:AM:133:LEU:HD13	2.18	0.43
16:AO:84:ARG:HG3	16:AO:119:THR:HA	2.01	0.43
21:AT:118:PRO:O	21:AT:119:LYS:HB2	2.18	0.43
28:Aa:60:PRO:C	28:Aa:62:TYR:H	2.26	0.43
34:Ag:198:ASN:O	34:Ag:215:GLY:HA3	2.19	0.43
36:A1:169:U:C4'	36:A1:170:G:OP1	2.67	0.43
36:A1:685:G:P	49:BL:35:ARG:NH1	2.92	0.43
36:A1:735:A:H2'	36:A1:736:A:C8	2.53	0.43
36:A1:1109:U:H2'	36:A1:1110:U:O4'	2.19	0.43
36:A1:1293:U:O2'	36:A1:1294:A:H5'	2.19	0.43
36:A1:1364:C:H4'	54:BQ:9:GLN:NE2	2.34	0.43
36:A1:1573:G:N2	36:A1:1574:C:O2'	2.52	0.43
36:A1:2203:U:H2'	36:A1:2204:C:C6	2.54	0.43
36:A1:2700:G:O2'	36:A1:2705:A:N1	2.47	0.43
36:A1:3283:U:H2'	36:A1:3284:G:C8	2.53	0.43
86:A1:3512:OHX:N3	86:A1:3693:OHX:N4	2.66	0.43
37:A3:10:C:OP2	57:BT:26:HIS:CD2	2.55	0.43
38:A4:68:G:OP2	86:Bj:101:OHX:N6	2.51	0.43
44:BF:105:LEU:HA	44:BF:105:LEU:HD23	1.76	0.43
49:BL:48:PRO:HG3	49:BL:126:PHE:HE2	1.83	0.43
51:BN:10:LEU:HD13	51:BN:19:LEU:HD11	2.01	0.43
51:BN:136:ASP:OD2	51:BN:138:GLN:NE2	2.48	0.43
52:BO:98[A]:ALA:HA	52:BO:101[A]:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BO:170[B]:LYS:O	52:BO:173[B]:ALA:HB3	2.18	0.43
54:BQ:169:GLY:C	54:BQ:170:ARG:O	2.61	0.43
60:BW:8:PHE:HB3	60:BW:36:SER:HB2	2.01	0.43
65:Bb:31:SER:C	65:Bb:33:LYS:H	2.26	0.43
67:Bd:80:ASN:OD1	67:Bd:81:GLU:N	2.51	0.43
80:A6:25:C:O2	86:A6:1964:OHX:N2	2.52	0.43
80:A6:687:G:H2'	80:A6:687:G:N3	2.32	0.43
80:A6:754:A:N6	80:A6:793:A:H62	2.17	0.43
80:A6:825:U:C4	86:A6:2100:OHX:N3	2.86	0.43
80:A6:885:G:H2'	80:A6:886:U:C6	2.54	0.43
80:A6:936:G:N7	28:Ca:15:ARG:NH1	2.67	0.43
80:A6:1230:A:H2	80:A6:1255:G:N2	2.16	0.43
80:A6:1281:G:C6	80:A6:1282:U:C4	3.06	0.43
80:A6:1586:A:H2'	80:A6:1587:A:C8	2.54	0.43
80:A6:1756[B]:A:O2'	80:A6:1757:G:H5'	2.19	0.43
3:CB:135:LEU:HD22	3:CB:215:VAL:HG23	2.00	0.43
6:CE:128:LYS:HD3	6:CE:130:GLN:OE1	2.18	0.43
7:CF:149:VAL:HG11	7:CF:156:ARG:HD2	2.01	0.43
11:CJ:83:VAL:HA	11:CJ:149:ARG:HA	2.00	0.43
13:CL:128:CYS:O	13:CL:129:ARG:CB	2.66	0.43
22:CU:109:GLU:HG3	22:CU:110:PRO:CD	2.49	0.43
24:CW:20:THR:OG1	24:CW:22:LYS:HD3	2.19	0.43
81:Ch:72:ARG:HA	81:Ch:72:ARG:HD2	1.79	0.43
36:A5:49:A:OP1	49:DL:16:LYS:HE3	2.18	0.43
36:A5:79:U:H2'	36:A5:80:G:C8	2.54	0.43
36:A5:242:C:H2'	36:A5:243:G:H8	1.83	0.43
36:A5:1614:C:H2'	36:A5:1615:C:C6	2.53	0.43
36:A5:1668:G:H2'	36:A5:1669:C:O4'	2.19	0.43
36:A5:1763:U:H3'	36:A5:1764:U:C5	2.54	0.43
36:A5:2154:U:H5''	39:DA:242:ARG:O	2.18	0.43
36:A5:2427:U:H2'	36:A5:2428:U:C6	2.53	0.43
36:A5:2796:G:H5''	36:A5:2798:C:O4'	2.19	0.43
36:A5:3164:C:O2'	36:A5:3165:A:P	2.77	0.43
36:A5:3329:U:H2'	36:A5:3330:A:H5''	2.00	0.43
39:DA:68:LYS:HD3	39:DA:70:ARG:HH21	1.83	0.43
42:DD:99:TYR:CD2	42:DD:199:ILE:HG12	2.54	0.43
47:DI:171:TRP:HE3	47:DI:178:ARG:HB3	1.82	0.43
48:DJ:92:ARG:HH12	48:DJ:94:ARG:HH11	1.67	0.43
50:DM:14:LEU:H	50:DM:19:ARG:NH1	2.16	0.43
52:DO:128[B]:ARG:HD3	52:DO:128[B]:ARG:HA	1.75	0.43
55:DR:99:LEU:HD23	55:DR:99:LEU:HA	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:DT:80:VAL:HG11	57:DT:85:LEU:HD12	1.99	0.43
63:DZ:135:ARG:HH21	63:DZ:135:ARG:CB	2.31	0.43
66:Dc:24:THR:O	66:Dc:25:LEU:HD23	2.18	0.43
68:De:9:ILE:HG12	68:De:63:THR:HB	2.00	0.43
71:Dh:6:ALA:O	71:Dh:10:ARG:HG3	2.18	0.43
73:Dj:65:ARG:HG3	73:Dj:65:ARG:NH1	2.31	0.43
83:Dq:76:LEU:HD22	83:Dq:76:LEU:HA	1.87	0.43
1:A2:12:U:H2'	1:A2:13:C:C6	2.54	0.43
1:A2:68:A:C8	8:AG:160:ARG:NH1	2.87	0.43
1:A2:755:A:HO2'	1:A2:756:A:P	2.42	0.43
1:A2:827:C:H2'	1:A2:828:U:H6	1.84	0.43
1:A2:1491:U:O2	1:A2:1491:U:H5''	2.19	0.43
2:AA:182:LEU:HB3	2:AA:188:LEU:HD23	2.00	0.43
3:AB:131:ASP:OD2	3:AB:180:THR:HG21	2.19	0.43
3:AB:168:ILE:O	3:AB:172:LEU:HG	2.19	0.43
3:AB:193:ILE:H	3:AB:193:ILE:HG12	1.40	0.43
7:AF:144:GLU:HB2	7:AF:160:VAL:O	2.19	0.43
9:AH:86:GLN:CG	9:AH:87:ASP:H	2.31	0.43
14:AM:24:ILE:C	14:AM:26:ASP:H	2.27	0.43
18:AQ:9:THR:OG1	18:AQ:20:ALA:HB3	2.19	0.43
34:Ag:195:HIS:HD2	34:Ag:199:ILE:HD13	1.81	0.43
36:A1:8:C:H2'	36:A1:9:U:O4'	2.18	0.43
36:A1:40:A:N7	64:Ba:29:PRO:O	2.52	0.43
36:A1:160:G:H2'	36:A1:161:G:H5''	2.00	0.43
36:A1:637:C:H2'	36:A1:638:C:C5	2.54	0.43
36:A1:1051:U:H4'	57:BT:19:PHE:CD2	2.54	0.43
36:A1:1901:A:H5''	36:A1:1902:G:OP2	2.19	0.43
36:A1:2209:U:OP2	36:A1:2209:U:H6	2.01	0.43
36:A1:2620:G:C6	86:A1:3667:OHX:N5	2.83	0.43
36:A1:2767:U:H2'	36:A1:2768:U:C6	2.53	0.43
36:A1:2836:C:H5	36:A1:2852:C:N4	2.00	0.43
37:A3:13:A:OP1	37:A3:111:U:O2'	2.27	0.43
39:BA:114:SER:HB2	39:BA:169:ILE:HD12	2.01	0.43
39:BA:118:GLU:HG3	39:BA:126:LEU:HD21	2.01	0.43
40:BB:19:ARG:HB3	40:BB:232:ARG:HH12	1.84	0.43
40:BB:49:TYR:CZ	40:BB:166:ILE:HD12	2.53	0.43
40:BB:107:ALA:HA	40:BB:199:PHE:CD2	2.52	0.43
42:BD:11:ALA:O	42:BD:15:ARG:HG3	2.18	0.43
42:BD:194:LEU:O	42:BD:197:SER:HB3	2.19	0.43
47:BI:216:TYR:HD2	47:BI:217:PHE:CD1	2.37	0.43
54:BQ:65:SER:HB3	54:BQ:93:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BQ:88:THR:HG22	54:BQ:107:THR:HG21	2.00	0.43
58:BU:15:PHE:HB2	58:BU:65:VAL:HB	2.01	0.43
80:A6:884:A:O2'	80:A6:885:G:H5'	2.18	0.43
3:CB:64:ARG:HH22	16:CO:37:GLU:CG	2.31	0.43
3:CB:138:PHE:CD2	3:CB:214:LYS:HB3	2.54	0.43
9:CH:49:ILE:HD12	9:CH:172:VAL:HA	2.01	0.43
10:CI:114:GLU:HG2	10:CI:120:THR:HA	2.00	0.43
10:CI:199:LYS:HG3	10:CI:200:LYS:N	2.34	0.43
11:CJ:40:LYS:HA	11:CJ:43:TYR:HB2	2.01	0.43
18:CQ:123:ARG:HA	18:CQ:123:ARG:HD3	1.77	0.43
20:CS:120:ARG:HD3	81:Ch:58:GLU:HA	2.01	0.43
21:CT:15:ILE:HD11	21:CT:63:ARG:HD3	2.01	0.43
21:CT:25:GLN:O	21:CT:27:LYS:HG3	2.18	0.43
81:Ch:34:LYS:HD3	81:Ch:34:LYS:HA	1.85	0.43
36:A5:492:U:C2'	36:A5:493:G:H5'	2.49	0.43
36:A5:1307:G:H1'	36:A5:1308:A:C8	2.54	0.43
36:A5:2540:A:O2'	36:A5:2541:U:H2'	2.18	0.43
86:A5:3549:OHX:N5	86:A5:3632:OHX:N1	2.66	0.43
38:A8:38:U:C5	71:Dh:82:ALA:O	2.72	0.43
38:A8:126:A:H8	38:A8:126:A:OP2	2.02	0.43
47:DI:36:LEU:N	47:DI:36:LEU:HD12	2.33	0.43
51:DN:20:ARG:HG2	51:DN:20:ARG:H	1.66	0.43
51:DN:153:ASP:OD2	51:DN:155:VAL:HG22	2.18	0.43
55:DR:138:LEU:O	55:DR:142:ILE:HG13	2.19	0.43
62:DY:120:GLN:OE1	62:DY:126:LEU:HD23	2.17	0.43
63:DZ:129:TRP:O	63:DZ:132:SER:OG	2.36	0.43
79:Dp:74:ALA:O	79:Dp:78:THR:HG23	2.19	0.43
1:A2:542:A:H8	1:A2:543:C:H2'	1.84	0.43
1:A2:768:C:N1	11:AJ:143:ILE:HD13	2.33	0.43
1:A2:993:A:H4'	1:A2:1777:G:O2'	2.19	0.43
1:A2:1234:A:O2'	1:A2:1235:C:O5'	2.20	0.43
4:AC:227:PRO:HA	4:AC:230:TRP:CD1	2.54	0.43
6:AE:131:LEU:HD13	6:AE:135:GLY:HA2	2.01	0.43
9:AH:131:PHE:CD2	9:AH:132:PRO:N	2.87	0.43
25:AX:13:ARG:HA	25:AX:16:ARG:HD3	2.01	0.43
25:AX:144:ARG:H	25:AX:144:ARG:HG3	1.66	0.43
30:Ac:16:LEU:HB2	30:Ac:27:GLN:HB2	1.99	0.43
32:Ae:47:VAL:HG22	32:Ae:48:THR:H	1.82	0.43
35:Ah:88:ARG:HG2	35:Ah:91:THR:OG1	2.17	0.43
36:A1:508:U:H2'	36:A1:509:U:H6	1.82	0.43
36:A1:1222:G:O6	86:A1:3664:OHX:N2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1347:U:H3'	54:BQ:38:ARG:NH2	2.33	0.43
36:A1:1355:A:H1'	36:A1:1356:U:OP2	2.19	0.43
36:A1:1369:A:H2'	36:A1:1370:G:O4'	2.18	0.43
36:A1:1484:U:O5'	36:A1:1484:U:H6	2.02	0.43
37:A3:87:G:O2'	56:BS:119:ARG:NH2	2.49	0.43
39:BA:180:LEU:HG	79:Bp:26:VAL:HG21	2.00	0.43
41:BC:20:LEU:HA	41:BC:21:PRO:HD3	1.75	0.43
42:BD:99:TYR:CD2	42:BD:199:ILE:HG12	2.54	0.43
42:BD:166:ALA:HB1	42:BD:171:LEU:HD12	2.01	0.43
42:BD:258:LYS:HD3	42:BD:258:LYS:HA	1.81	0.43
44:BF:103:LEU:HA	44:BF:103:LEU:HD23	1.64	0.43
45:BG:93:LEU:C	45:BG:95:ASN:H	2.27	0.43
46:BH:88:TYR:CZ	46:BH:184:LYS:HG2	2.53	0.43
53:BP:169:THR:O	53:BP:173:ARG:HG3	2.19	0.43
57:BT:104:GLU:O	57:BT:108:ARG:HB2	2.19	0.43
58:BU:49:ASN:C	58:BU:51:GLY:H	2.26	0.43
59:BV:5:GLY:HA3	59:BV:106:LYS:O	2.19	0.43
63:BZ:115:LYS:NZ	63:BZ:119:GLU:OE2	2.49	0.43
64:Ba:90:TYR:CG	64:Ba:100:PRO:HG3	2.53	0.43
75:Bl:8:ARG:O	75:Bl:12:LYS:HG3	2.18	0.43
80:A6:507:U:H2'	80:A6:508:U:O4'	2.18	0.43
80:A6:886:U:O2'	16:CO:121:VAL:O	2.35	0.43
80:A6:1067:C:H2'	80:A6:1068:C:C6	2.54	0.43
80:A6:1244:A:O2'	80:A6:1245:G:O5'	2.23	0.43
86:A6:1921:OHX:N4	86:A6:2099:OHX:N3	2.66	0.43
4:CC:57:PHE:CZ	4:CC:138:PRO:HD3	2.54	0.43
4:CC:140:ARG:NH1	4:CC:229:LEU:HD11	2.34	0.43
7:CF:41:LYS:NZ	18:CQ:112:TYR:HE2	2.14	0.43
11:CJ:142:ASN:ND2	11:CJ:143:ILE:HD12	2.33	0.43
14:CM:69:ALA:O	14:CM:72:ILE:N	2.52	0.43
23:CV:5:LYS:O	23:CV:7:GLN:N	2.52	0.43
24:CW:7:LEU:HD22	24:CW:11:LEU:HG	1.99	0.43
32:Ce:61:SER:HB3	32:Ce:63:GLN:H	1.84	0.43
36:A5:32:U:H6	36:A5:32:U:O5'	2.00	0.43
36:A5:123:A:H5'	36:A5:124:U:OP2	2.18	0.43
36:A5:240:U:O2'	36:A5:241:G:H8	2.02	0.43
36:A5:1498:A:H2'	36:A5:1499:C:C6	2.54	0.43
36:A5:1525:G:C6	36:A5:1526:U:O4	2.72	0.43
36:A5:1753:G:C2'	36:A5:1754:G:O5'	2.66	0.43
36:A5:2373:A:N7	36:A5:2867:C:H1'	2.34	0.43
36:A5:2770:G:H2'	36:A5:2771:U:H5'	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:3238:G:H8	36:A5:3238:G:H5''	1.83	0.43
86:A8:207:OHX:N4	86:A8:218:OHX:N2	2.67	0.43
39:DA:116:VAL:CG1	39:DA:126:LEU:HB2	2.47	0.43
40:DB:67:PHE:O	40:DB:70:ARG:HB2	2.18	0.43
41:DC:205:PRO:HB3	41:DC:247:PHE:CD2	2.53	0.43
46:DH:23:ARG:HH21	46:DH:23:ARG:HD2	1.59	0.43
46:DH:87:LYS:NZ	46:DH:191:LEU:HD21	2.34	0.43
48:DJ:116:TYR:O	48:DJ:117:ASP:C	2.62	0.43
51:DN:5:LYS:HA	51:DN:5:LYS:HD3	1.73	0.43
53:DP:4:TYR:CZ	53:DP:18:ARG:HG3	2.53	0.43
54:DQ:41:ASP:HB2	54:DQ:42:ALA:H	1.49	0.43
62:DY:59:VAL:O	62:DY:64:LYS:HD2	2.18	0.43
63:DZ:65:ARG:HG3	63:DZ:65:ARG:NH1	2.34	0.43
77:Dn:2:ARG:HG3	77:Dn:3:ALA:N	2.33	0.43
1:A2:763:G:C6	1:A2:764:U:C4	3.07	0.43
1:A2:1013:A:H2'	1:A2:1014:G:O4'	2.19	0.43
1:A2:1244:A:HO2'	1:A2:1245:G:P	2.40	0.43
1:A2:1568:C:OP1	20:AS:36:LYS:HE2	2.19	0.43
1:A2:1590:G:OP2	86:A2:2024:OHX:N3	2.52	0.43
1:A2:1595:U:H5	1:A2:1596:C:C5	2.37	0.43
1:A2:1781:A:H2'	1:A2:1782:A:O4'	2.19	0.43
1:A2:1796:C:N1	28:Aa:5:ARG:HG2	2.33	0.43
86:A2:1987:OHX:N4	86:A2:2068:OHX:N6	2.67	0.43
86:A2:2017:OHX:N2	86:A2:2037:OHX:N4	2.67	0.43
2:AA:83:GLN:HG2	2:AA:100:GLY:H	1.84	0.43
5:AD:127:MET:HG2	5:AD:154:ASP:OD2	2.19	0.43
7:AF:43:PHE:CZ	7:AF:90:ILE:HG21	2.54	0.43
8:AG:69:LEU:HD12	8:AG:69:LEU:HA	1.82	0.43
9:AH:131:PHE:HB3	9:AH:132:PRO:HD3	2.01	0.43
17:AP:57:MET:O	17:AP:60:LEU:HB3	2.19	0.43
17:AP:108:ARG:HG2	17:AP:109:PRO:HD2	2.01	0.43
20:AS:8:GLN:HB2	20:AS:9:GLY:H	1.56	0.43
20:AS:27:LYS:N	20:AS:57:ARG:HH21	2.16	0.43
31:Ad:33:LYS:HD3	31:Ad:34:TYR:CE2	2.53	0.43
34:Ag:38:ARG:HG2	34:Ag:67:ILE:HG23	2.01	0.43
36:A1:413:U:OP1	53:BP:30:ARG:NH2	2.46	0.43
36:A1:516:A:H2'	36:A1:517:G:H5''	2.00	0.43
36:A1:860:G:C5	39:BA:181:LYS:HB2	2.54	0.43
36:A1:915:A:H2'	36:A1:915:A:N3	2.34	0.43
36:A1:1114:U:H5''	64:Ba:22:ILE:HD12	2.01	0.43
36:A1:1305:U:N1	40:BB:257:PRO:HG3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1595:U:C2	36:A1:1596:C:C5	3.07	0.43
36:A1:1668:G:C5	36:A1:1669:C:C5	3.07	0.43
36:A1:1838:G:H5''	36:A1:1839:A:OP1	2.19	0.43
36:A1:2278:C:P	77:Bn:23:ARG:NH1	2.92	0.43
36:A1:3152:U:C5	36:A1:3395:G:C6	3.07	0.43
36:A1:3210:A:H2'	36:A1:3211:C:H6	1.84	0.43
36:A1:3314:A:OP1	40:BB:174:LYS:HB2	2.18	0.43
86:A1:3539:OHX:N6	86:A1:3691:OHX:N4	2.67	0.43
40:BB:92:TYR:HE1	40:BB:159:ARG:HD2	1.84	0.43
41:BC:182:LEU:CD1	41:BC:223:PRO:HG2	2.49	0.43
41:BC:188:ARG:O	41:BC:193:LYS:HE3	2.18	0.43
42:BD:111:GLN:C	42:BD:113:LEU:N	2.75	0.43
45:BG:158:ASP:H	45:BG:159:PRO:HD2	1.84	0.43
45:BG:186:LEU:HA	45:BG:186:LEU:HD23	1.77	0.43
48:BJ:94:ARG:C	48:BJ:96:PHE:N	2.75	0.43
53:BP:36:ILE:CD1	53:BP:95:LEU:HD11	2.49	0.43
53:BP:67:ILE:HG22	53:BP:80:LYS:HB3	2.01	0.43
54:BQ:64:VAL:O	54:BQ:96:PHE:HE2	2.01	0.43
55:BR:175:GLN:O	55:BR:179:GLU:N	2.49	0.43
59:BV:33:ASN:HD21	59:BV:64:LYS:H	1.66	0.43
77:Bn:22:ALA:C	77:Bn:24:SER:N	2.77	0.43
80:A6:93:A:O2'	6:CE:4:GLY:HA3	2.18	0.43
80:A6:647:G:H21	80:A6:687:G:H22	1.58	0.43
80:A6:1159:C:H5''	80:A6:1160:A:H5'	1.99	0.43
80:A6:1212:G:C2	80:A6:1213:G:C8	3.07	0.43
80:A6:1450:U:OP2	86:A6:1983:OHX:N4	2.52	0.43
80:A6:1673:G:H8	80:A6:1673:G:O5'	2.01	0.43
86:A6:1933:OHX:N4	86:A6:2068:OHX:N6	2.67	0.43
4:CC:106:ASP:CG	4:CC:108:ASN:H	2.26	0.43
6:CE:118:GLU:C	6:CE:120:SER:N	2.77	0.43
7:CF:62:VAL:HG11	7:CF:134:VAL:HG22	1.99	0.43
10:CI:8:ARG:NH2	10:CI:22:ARG:HE	2.17	0.43
10:CI:120:THR:O	86:CI:301:OHX:N4	2.52	0.43
11:CJ:66:ASP:HA	11:CJ:67:PRO:HD2	1.62	0.43
11:CJ:142:ASN:HD22	11:CJ:142:ASN:C	2.27	0.43
12:CK:23:ALA:CB	12:CK:64:TYR:HB2	2.49	0.43
21:CT:28:LEU:HB3	21:CT:29:GLU:H	1.74	0.43
24:CW:24:GLN:NE2	29:Cb:4:VAL:HA	2.33	0.43
25:CX:62:LYS:HG3	25:CX:116:ASP:O	2.19	0.43
26:CY:10:ARG:O	26:CY:12:VAL:N	2.51	0.43
81:Ch:68:ARG:O	81:Ch:70:ASN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:174:C:H2'	36:A5:175:C:H6	1.84	0.43
36:A5:630:A:H2'	36:A5:631:U:C6	2.54	0.43
36:A5:1014:U:H3'	36:A5:1015:U:H5'	2.01	0.43
36:A5:1093:A:H2	36:A5:1096:U:O2	2.01	0.43
36:A5:1480:G:N2	36:A5:1872:C:C5	2.87	0.43
36:A5:1620:U:H2'	36:A5:1621:A:C8	2.54	0.43
36:A5:1638:A:H2	36:A5:1736:G:N3	2.16	0.43
36:A5:1815:U:H1'	36:A5:1816:A:O5'	2.19	0.43
36:A5:2656:A:C8	36:A5:2658:G:C8	3.07	0.43
38:A8:59:A:H3'	38:A8:59:A:OP2	2.19	0.43
41:DC:156:LEU:C	41:DC:158:SER:H	2.26	0.43
41:DC:352:ALA:O	41:DC:354:VAL:N	2.52	0.43
42:DD:223:PHE:O	42:DD:224:LYS:C	2.62	0.43
42:DD:270:LYS:HG3	42:DD:273:ARG:HB3	2.01	0.43
44:DF:32:ALA:O	44:DF:35:ALA:HB3	2.19	0.43
45:DG:190:VAL:O	45:DG:190:VAL:HG12	2.18	0.43
46:DH:7:GLU:HA	46:DH:68:LEU:HD11	2.00	0.43
46:DH:117:PHE:CE1	46:DH:165:CYS:HB3	2.53	0.43
49:DL:166:ALA:HB1	64:Da:147:LEU:HD21	2.01	0.43
53:DP:30:ARG:C	53:DP:30:ARG:HD3	2.44	0.43
70:Dg:81:CYS:O	70:Dg:83:ASN:N	2.51	0.43
73:Dj:64:MET:O	73:Dj:68:LYS:HB3	2.19	0.43
83:Dq:41:VAL:HG21	83:Dq:185:LEU:HD21	2.01	0.43
1:A2:67:A:C2	1:A2:69:G:H1'	2.54	0.42
1:A2:273:G:H2'	1:A2:274:G:O4'	2.18	0.42
1:A2:480:G:H22	1:A2:509:G:H1'	1.83	0.42
1:A2:781:U:O2'	1:A2:782:U:H6	2.02	0.42
1:A2:813:U:C6	55:BR:163:ARG:HD2	2.54	0.42
1:A2:886:U:H2'	1:A2:887:A:O4'	2.18	0.42
1:A2:1321:A:H4'	1:A2:1322:A:O5'	2.19	0.42
1:A2:1769:U:O2	16:AO:136:ARG:HD2	2.19	0.42
3:AB:70:LEU:HD12	3:AB:82:ARG:O	2.18	0.42
3:AB:109:LYS:HA	3:AB:109:LYS:HD3	1.75	0.42
4:AC:125:ILE:O	4:AC:129:ILE:HG13	2.19	0.42
5:AD:57:ASP:N	5:AD:57:ASP:OD1	2.50	0.42
5:AD:61:GLU:O	5:AD:63:GLY:N	2.52	0.42
20:AS:26:ILE:CD1	20:AS:30:TYR:HB2	2.48	0.42
26:AY:47:VAL:O	26:AY:49:LYS:NZ	2.49	0.42
29:Ab:67:THR:HB	29:Ab:68:GLY:H	1.58	0.42
36:A1:517:G:C8	36:A1:517:G:C5'	2.97	0.42
36:A1:634:C:HO2'	68:Be:47:ARG:HD3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:670:C:P	54:BQ:147:ARG:NH2	2.91	0.42
36:A1:1191:U:H5''	36:A1:1192:C:H5'	2.00	0.42
36:A1:1230:G:H2'	36:A1:1231:A:C8	2.54	0.42
36:A1:1481:A:OP1	36:A1:1481:A:C4'	2.67	0.42
36:A1:1694:U:O2'	36:A1:1695:U:H5'	2.19	0.42
36:A1:2404:A:P	86:A1:3738:OHX:N5	2.92	0.42
36:A1:2552:C:H5	66:Bc:53:LYS:NZ	2.17	0.42
36:A1:2896:A:H5'	36:A1:2896:A:H8	1.83	0.42
36:A1:3112:G:O2'	46:BH:70:THR:HB	2.19	0.42
86:A1:3601:OHX:N4	86:A1:3725:OHX:N1	2.67	0.42
42:BD:41:LYS:HD2	42:BD:41:LYS:HA	1.67	0.42
54:BQ:157:PRO:HD3	64:Ba:47:LYS:HB2	2.00	0.42
55:BR:8:LYS:O	55:BR:11:ALA:HB3	2.18	0.42
63:BZ:10:VAL:O	63:BZ:83:THR:HB	2.18	0.42
73:Bj:26:SER:O	73:Bj:34:CYS:HA	2.19	0.42
80:A6:149:C:H5''	26:CY:121:THR:OG1	2.19	0.42
80:A6:166:C:OP2	86:A6:2032:OHX:N4	2.52	0.42
80:A6:565:C:N4	86:A6:2054:OHX:N4	2.66	0.42
80:A6:775:G:C2'	80:A6:776:G:H5'	2.49	0.42
80:A6:1060:U:H4'	80:A6:1061:A:H5''	2.01	0.42
80:A6:1078:C:H2'	80:A6:1079:U:C6	2.54	0.42
80:A6:1097:U:OP1	80:A6:1098:U:H2'	2.18	0.42
80:A6:1227:A:C2	80:A6:1229:G:C2	3.07	0.42
2:CA:185:ARG:HB2	23:CV:45:ALA:HB3	2.01	0.42
4:CC:40:LYS:HE3	4:CC:40:LYS:HB2	1.89	0.42
8:CG:142:ARG:O	8:CG:145:PHE:N	2.49	0.42
11:CJ:57:ARG:O	11:CJ:61:THR:HG23	2.18	0.42
19:CR:50:ILE:O	19:CR:51:ALA:C	2.62	0.42
26:CY:120:GLY:O	26:CY:121:THR:C	2.62	0.42
34:Cg:106:HIS:HD2	34:Cg:110:VAL:HG22	1.83	0.42
34:Cg:129:LYS:HG2	34:Cg:149:ASP:C	2.44	0.42
34:Cg:297:ASP:O	34:Cg:299:GLN:N	2.52	0.42
81:Ch:71:ASN:O	81:Ch:73:SER:N	2.52	0.42
36:A5:911:C:N4	39:DA:3:ARG:HD3	2.33	0.42
36:A5:1110:U:O4	86:A5:3504:OHX:N4	2.52	0.42
36:A5:1258:U:OP1	83:Dq:46:ARG:NH2	2.52	0.42
36:A5:1523:U:H3'	36:A5:1607:U:O2	2.18	0.42
36:A5:1770:G:H5'	36:A5:1771:C:OP2	2.18	0.42
36:A5:1867:A:H2'	36:A5:1868:G:C8	2.54	0.42
36:A5:2147:A:H2'	36:A5:2148:U:O4'	2.19	0.42
36:A5:2441:A:N1	36:A5:2507:C:C2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2518:C:C2	36:A5:2590:A:C2	3.07	0.42
36:A5:3094:A:H2'	36:A5:3095:U:C6	2.54	0.42
86:A5:3514:OHX:N3	86:A7:209:OHX:N6	2.67	0.42
37:A7:11:A:O2'	37:A7:13:A:H2'	2.19	0.42
38:A8:6:U:H2'	38:A8:7:U:C6	2.54	0.42
40:DB:221:THR:CG2	40:DB:273:HIS:H	2.28	0.42
42:DD:254:LYS:HA	42:DD:255:PRO:HD2	1.90	0.42
44:DF:141:TYR:O	44:DF:142:SER:C	2.61	0.42
51:DN:160:GLU:OE1	51:DN:160:GLU:N	2.41	0.42
59:DV:93:LEU:HD23	59:DV:93:LEU:H	1.83	0.42
63:DZ:92:PHE:HA	63:DZ:95:VAL:HG23	2.01	0.42
71:Dh:94:LYS:O	71:Dh:98:SER:HB2	2.19	0.42
1:A2:88:U:H4'	1:A2:171:A:O4'	2.19	0.42
1:A2:237:C:C4'	1:A2:238:U:H5'	2.49	0.42
1:A2:380:U:H5	11:AJ:5:PRO:CA	2.31	0.42
1:A2:479:C:O2	1:A2:510:G:N2	2.52	0.42
1:A2:1151:A:H2'	1:A2:1152:A:C8	2.54	0.42
1:A2:1346:A:C8	1:A2:1370:U:O2	2.71	0.42
86:A2:1969:OHX:N6	77:Bn:25:LYS:O	2.52	0.42
2:AA:20:ALA:O	2:AA:21:ASN:HB2	2.19	0.42
2:AA:88:LYS:HE3	19:AR:82:ASP:OD2	2.19	0.42
2:AA:103:THR:HA	2:AA:104:PRO:HD3	1.61	0.42
7:AF:87:CYS:SG	7:AF:92:ARG:HG3	2.59	0.42
8:AG:55:GLY:C	8:AG:63:MET:HE3	2.44	0.42
11:AJ:175:ARG:HD2	11:AJ:176:ASN:N	2.34	0.42
12:AK:81:ASN:HB3	14:AM:37:VAL:HG11	2.00	0.42
13:AL:28:SER:O	13:AL:29:LYS:HB3	2.19	0.42
15:AN:67:THR:C	15:AN:69:ASN:H	2.24	0.42
23:AV:2:GLU:HB3	23:AV:3:ASN:H	1.64	0.42
23:AV:3:ASN:O	23:AV:4:ASP:C	2.62	0.42
26:AY:47:VAL:HG23	26:AY:48:TYR:HD2	1.84	0.42
27:AZ:97:LYS:HG3	27:AZ:98:GLN:H	1.84	0.42
36:A1:45:A:OP1	86:Bo:201:OHX:N1	2.52	0.42
36:A1:609:G:OP1	36:A1:609:G:H4'	2.20	0.42
36:A1:1227:C:H6	36:A1:1227:C:H5''	1.83	0.42
36:A1:1277:C:O2'	36:A1:1278:A:P	2.77	0.42
36:A1:1412:G:OP1	68:Be:105:ARG:NH2	2.42	0.42
36:A1:2534:G:C5	86:A1:3751:OHX:N4	2.87	0.42
86:A1:3467:OHX:N1	86:BA:301:OHX:N3	2.67	0.42
86:A1:3542:OHX:N2	86:A1:3751:OHX:N6	2.66	0.42
86:A1:3598:OHX:N5	86:A1:3722:OHX:N1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A1:3608:OHX:N3	86:A1:3739:OHX:N5	2.67	0.42
37:A3:103:A:H2'	37:A3:104:A:O4'	2.18	0.42
41:BC:289:ILE:O	41:BC:292:SER:HB2	2.19	0.42
41:BC:325:LEU:HD23	41:BC:325:LEU:HA	1.59	0.42
45:BG:245:LYS:HZ1	45:BG:246:MET:HB3	1.84	0.42
48:BJ:80:LEU:HD13	48:BJ:167:TYR:OH	2.19	0.42
51:BN:119:TYR:CZ	51:BN:131:GLU:HB3	2.54	0.42
53:BP:36:ILE:HG12	53:BP:44:ALA:HB1	2.01	0.42
53:BP:169:THR:HG23	69:Bf:60:ARG:HE	1.83	0.42
64:Ba:133:LEU:HD22	64:Ba:137:LYS:HG3	2.00	0.42
70:Bg:20:ILE:HD11	70:Bg:34:HIS:CE1	2.55	0.42
71:Bh:62:GLN:O	71:Bh:66:VAL:HG23	2.19	0.42
80:A6:230:C:N3	80:A6:235:G:N2	2.67	0.42
80:A6:567:A:H5'	32:Ce:10:ARG:HG3	2.01	0.42
80:A6:915:A:OP1	86:A6:1927:OHX:N6	2.53	0.42
80:A6:1019:A:OP1	15:CN:107:LYS:HD2	2.19	0.42
80:A6:1234:A:O2'	80:A6:1235:C:H6	2.02	0.42
80:A6:1369:U:O4	86:A6:1941:OHX:N4	2.52	0.42
80:A6:1474:G:H2'	80:A6:1475:A:C8	2.53	0.42
80:A6:1614:A:C6	80:A6:1615:C:N4	2.87	0.42
80:A6:1798:U:OP2	28:Ca:38:ARG:NH2	2.51	0.42
5:CD:224:ASP:OD1	34:Cg:228:LYS:HD2	2.19	0.42
6:CE:195:ILE:O	6:CE:196:VAL:HG23	2.18	0.42
8:CG:135:PRO:HB2	8:CG:141:ILE:HG12	2.00	0.42
9:CH:117:THR:HG22	9:CH:120:ALA:HB3	2.01	0.42
11:CJ:78:ARG:HG3	11:CJ:79:ARG:N	2.34	0.42
13:CL:75:VAL:HG21	13:CL:117:VAL:HG11	2.00	0.42
14:CM:81:ASP:HA	14:CM:82:PRO:HD2	1.86	0.42
25:CX:23:ARG:HH11	25:CX:23:ARG:CG	2.28	0.42
34:Cg:296:ALA:C	34:Cg:298:GLY:H	2.28	0.42
36:A5:437:G:H5''	36:A5:438:A:OP2	2.19	0.42
36:A5:1165:A:H2'	36:A5:1166:G:O4'	2.19	0.42
36:A5:1471:U:H2'	36:A5:1472:U:C6	2.54	0.42
36:A5:2436:U:C2'	36:A5:2437:G:H5''	2.48	0.42
36:A5:2840:C:OP1	86:A5:3654:OHX:N3	2.52	0.42
36:A5:3060:C:H1'	36:A5:3332:U:H1'	1.99	0.42
86:A5:3465:OHX:N1	86:A5:3810:OHX:N1	2.67	0.42
86:A5:3494:OHX:N1	86:A5:3822:OHX:N2	2.67	0.42
86:A5:3581:OHX:N5	86:A5:3815:OHX:N6	2.66	0.42
38:A8:92:A:H2'	38:A8:93:U:O4'	2.19	0.42
38:A8:157:U:O2'	38:A8:158:U:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DA:217:GLN:O	39:DA:218:HIS:HB3	2.18	0.42
44:DF:137:GLY:HA3	44:DF:236:ILE:HB	2.01	0.42
45:DG:54:GLU:O	45:DG:58:VAL:HG23	2.19	0.42
51:DN:44:ARG:HB3	51:DN:47:LYS:HB3	2.02	0.42
68:De:126:LEU:HD23	68:De:126:LEU:HA	1.78	0.42
1:A2:68:A:O2'	1:A2:69:G:OP2	2.25	0.42
1:A2:74:U:H1'	1:A2:75:U:O5'	2.19	0.42
1:A2:328:A:H2'	1:A2:329:G:O4'	2.19	0.42
1:A2:336:G:O2'	13:AL:133:LYS:N	2.52	0.42
1:A2:538:A:H8	1:A2:543:C:N4	2.16	0.42
1:A2:604:A:OP2	86:A2:1991:OHX:N5	2.51	0.42
1:A2:709:C:N4	1:A2:730:G:C4	2.87	0.42
1:A2:1229:G:OP2	33:Af:101:UNK:HA	2.19	0.42
1:A2:1489:U:H2'	1:A2:1490:C:OP1	2.19	0.42
1:A2:1560:U:O2	1:A2:1560:U:O4'	2.37	0.42
1:A2:1597:A:C8	31:Ad:14:TYR:HD2	2.36	0.42
1:A2:1796:C:H4'	1:A2:1797:A:OP2	2.18	0.42
86:A2:1940:OHX:N1	86:Ad:101:OHX:N2	2.67	0.42
86:A2:1962:OHX:N6	86:A2:1964:OHX:N5	2.67	0.42
2:AA:64:ILE:HG12	2:AA:122:ILE:HD11	2.01	0.42
2:AA:71:GLU:OE2	2:AA:71:GLU:N	2.37	0.42
3:AB:116:LYS:HD3	3:AB:117:TRP:CZ3	2.53	0.42
4:AC:67:GLN:O	4:AC:71:THR:HG23	2.19	0.42
5:AD:134:CYS:N	5:AD:157:LEU:HD11	2.34	0.42
5:AD:218:LEU:HD23	5:AD:218:LEU:HA	1.93	0.42
7:AF:157:ARG:HB2	7:AF:224:ASN:OD1	2.19	0.42
7:AF:190:ILE:HD12	7:AF:190:ILE:HG23	1.73	0.42
10:AI:48:THR:HG21	10:AI:54:LYS:HE3	2.00	0.42
11:AJ:92:LYS:HA	11:AJ:92:LYS:HE3	2.01	0.42
18:AQ:58:ASP:OD2	18:AQ:59:LYS:N	2.52	0.42
19:AR:66:VAL:O	19:AR:69:ILE:HG12	2.19	0.42
21:AT:65:ILE:HG12	21:AT:71:VAL:HG21	2.00	0.42
22:AU:109:GLU:HA	22:AU:110:PRO:HD2	1.78	0.42
25:AX:23:ARG:HD2	25:AX:26:GLU:OE1	2.18	0.42
28:Aa:90:GLU:C	28:Aa:92:ARG:H	2.27	0.42
35:Ah:31:SER:OG	35:Ah:33:LYS:HB2	2.19	0.42
35:Ah:43:ASP:CG	35:Ah:45:SER:HB2	2.44	0.42
36:A1:1615:C:H2'	36:A1:1616:U:C6	2.55	0.42
36:A1:2147:A:H2'	36:A1:2148:U:O4'	2.19	0.42
36:A1:2592:G:H4'	36:A1:2594:C:C2	2.54	0.42
36:A1:2805:G:C2'	36:A1:2806:U:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3185:U:C6	52:BO:126[B]:VAL:HG21	2.54	0.42
39:BA:4:VAL:CG1	39:BA:8:GLN:HB2	2.48	0.42
39:BA:104:LEU:O	39:BA:139:HIS:HE1	2.01	0.42
42:BD:40:HIS:CD2	42:BD:42:ALA:HB3	2.55	0.42
42:BD:68:THR:HG22	42:BD:71:GLY:H	1.83	0.42
47:BI:174:THR:HG23	47:BI:176:LEU:H	1.80	0.42
49:BL:47:ALA:HB1	49:BL:48:PRO:HD2	2.01	0.42
51:BN:38:ARG:HD2	51:BN:39:ALA:N	2.34	0.42
53:BP:173:ARG:HG3	53:BP:173:ARG:H	1.70	0.42
70:Bg:97:GLU:C	70:Bg:99:LYS:N	2.78	0.42
74:Bk:70:PRO:HA	74:Bk:71:PRO:HD3	1.69	0.42
78:Bo:104:LEU:HD12	78:Bo:104:LEU:HA	1.89	0.42
80:A6:75:U:O2'	80:A6:76:A:P	2.77	0.42
80:A6:137:U:H6	80:A6:137:U:H2'	1.57	0.42
80:A6:1273:G:N7	80:A6:1430:U:H3'	2.35	0.42
80:A6:1340:U:H5	18:CQ:8:GLN:O	2.02	0.42
80:A6:1497:U:H2'	80:A6:1498:G:H5'	2.01	0.42
80:A6:1514:U:O2	80:A6:1514:U:H2'	2.18	0.42
86:A6:1956:OHX:N4	86:A6:2058:OHX:N2	2.68	0.42
2:CA:185:ARG:HG2	23:CV:45:ALA:O	2.19	0.42
6:CE:92:LEU:HB2	6:CE:95:THR:HG21	2.01	0.42
9:CH:97:ARG:HA	9:CH:97:ARG:HD3	1.77	0.42
9:CH:164:TYR:CD1	9:CH:165:LYS:HG3	2.54	0.42
11:CJ:171:ARG:HE	11:CJ:174:ARG:CB	2.31	0.42
12:CK:24:LYS:HD3	12:CK:63:TYR:CZ	2.53	0.42
12:CK:31:LYS:HA	12:CK:37:THR:O	2.19	0.42
17:CP:28:MET:HE3	17:CP:28:MET:HB2	1.84	0.42
17:CP:90:ILE:HA	17:CP:107:ILE:HG12	2.01	0.42
20:CS:15:LEU:HD23	20:CS:22:VAL:HB	2.01	0.42
24:CW:5:SER:O	24:CW:7:LEU:N	2.48	0.42
28:Ca:23:CYS:O	28:Ca:27:SER:HA	2.19	0.42
28:Ca:61:GLU:HG3	28:Ca:62:TYR:O	2.19	0.42
36:A5:15:C:H6	36:A5:15:C:C5'	2.27	0.42
36:A5:283:G:O6	36:A5:304:G:H1'	2.20	0.42
36:A5:743:C:O2	54:DQ:141:ARG:HD3	2.18	0.42
36:A5:1369:A:OP1	64:Da:21:ARG:NH1	2.52	0.42
36:A5:1483:G:C8	36:A5:1485:G:C8	3.07	0.42
36:A5:2511:A:C3'	36:A5:2512:C:H5''	2.49	0.42
36:A5:2561:A:O2'	36:A5:2562:A:H8	2.02	0.42
36:A5:2596:U:H2'	36:A5:2597:U:C6	2.53	0.42
36:A5:2815:G:O6	86:A5:3762:OHX:N5	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:3242:G:C5'	36:A5:3245:A:C8	3.03	0.42
86:A5:3580:OHX:N5	86:A5:3660:OHX:N6	2.66	0.42
86:A5:3606:OHX:N3	86:A5:3740:OHX:N4	2.67	0.42
40:DB:258:ALA:C	40:DB:259:HIS:CG	2.97	0.42
47:DI:81:GLY:C	47:DI:83:ASP:N	2.77	0.42
50:DM:115:PHE:O	50:DM:119:GLN:HG3	2.19	0.42
52:DO:156[A]:LEU:HD23	52:DO:156[A]:LEU:HA	1.90	0.42
55:DR:99:LEU:O	55:DR:103:ARG:HG3	2.18	0.42
70:Dg:16:ARG:HH11	70:Dg:16:ARG:CG	2.29	0.42
71:Dh:55:LEU:HD23	71:Dh:55:LEU:HA	1.87	0.42
76:Dm:110:CYS:SG	76:Dm:112:LYS:HB2	2.59	0.42
83:Dq:11:TYR:HE1	83:Dq:15:LEU:HD12	1.84	0.42
1:A2:498:G:H2'	1:A2:499:U:C4	2.54	0.42
1:A2:648:G:C4	1:A2:687:G:N2	2.88	0.42
86:A2:1962:OHX:N4	86:A2:1964:OHX:N1	2.67	0.42
2:AA:172:LEU:HD13	2:AA:176:LEU:HD11	2.01	0.42
3:AB:59:ASP:HA	3:AB:62:LYS:HZ2	1.84	0.42
3:AB:132:ASP:HB2	3:AB:221:PRO:HB3	2.02	0.42
8:AG:76:LEU:HD22	8:AG:92:ARG:HB3	2.01	0.42
8:AG:109:LEU:HD23	8:AG:109:LEU:HA	1.85	0.42
9:AH:181:ILE:HD12	9:AH:181:ILE:HA	1.72	0.42
11:AJ:134:ILE:HA	11:AJ:158:PHE:HA	2.00	0.42
14:AM:29:LYS:HA	14:AM:32:LEU:HD12	2.00	0.42
16:AO:24:ASN:O	16:AO:25:ASP:HB2	2.19	0.42
16:AO:114:ARG:HA	28:Aa:62:TYR:CZ	2.54	0.42
19:AR:34:LEU:O	19:AR:38:ILE:HG22	2.18	0.42
25:AX:29:TYR:CZ	25:AX:33:LEU:HD12	2.54	0.42
26:AY:35:VAL:HG11	26:AY:40:LEU:HD11	2.01	0.42
27:AZ:40:VAL:HA	27:AZ:75:LEU:HD11	2.01	0.42
36:A1:213:A:H5''	62:BY:2:ALA:HA	2.00	0.42
36:A1:1144:U:H1'	36:A1:1145:G:C8	2.54	0.42
36:A1:1528:G:O2'	36:A1:1588:A:N3	2.49	0.42
36:A1:2397:A:P	36:A1:2398:A:H5'	2.59	0.42
36:A1:3380:U:O4	86:A1:3479:OHX:N4	2.53	0.42
86:A1:3442:OHX:N3	86:A1:3753:OHX:N4	2.68	0.42
86:A1:3693:OHX:N2	86:A1:3712:OHX:N3	2.67	0.42
41:BC:16:THR:HG22	41:BC:18:ASN:N	2.23	0.42
41:BC:264:SER:OG	41:BC:267:VAL:HG13	2.19	0.42
41:BC:330:TYR:CZ	44:BF:49:ALA:HA	2.54	0.42
42:BD:4:GLN:N	42:BD:4:GLN:OE1	2.52	0.42
45:BG:161:GLU:C	45:BG:163:VAL:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BP:182:ILE:HG22	53:BP:183:ALA:N	2.35	0.42
64:Ba:75:LEU:HD21	64:Ba:138:ILE:HD11	2.01	0.42
65:Bb:23:LYS:CD	65:Bb:24:PRO:HD3	2.49	0.42
70:Bg:46:ASP:HB2	70:Bg:80:ARG:CD	2.50	0.42
72:Bi:27:SER:O	72:Bi:28:TYR:HB2	2.19	0.42
80:A6:193:U:C4	80:A6:195:G:C8	3.08	0.42
80:A6:301:A:OP2	86:A6:1949:OHX:N1	2.52	0.42
80:A6:422:G:N7	86:A6:1942:OHX:N4	2.68	0.42
80:A6:563:U:H4'	32:Ce:17:GLN:HE22	1.76	0.42
80:A6:1007:C:H4'	16:CO:137:LEU:HD23	2.02	0.42
80:A6:1085:G:H2'	80:A6:1087:A:OP2	2.19	0.42
80:A6:1150:G:O6	86:A6:1971:OHX:N5	2.53	0.42
80:A6:1253:U:H4'	33:Cf:143:LYS:HA	2.02	0.42
80:A6:1547:A:H5'	20:CS:112:ASP:OD2	2.19	0.42
80:A6:1670:G:O6	86:A6:2009:OHX:N4	2.51	0.42
4:CC:53:ILE:H	4:CC:53:ILE:HG13	1.52	0.42
5:CD:202:LEU:C	5:CD:204:ASP:N	2.77	0.42
12:CK:34:GLU:O	12:CK:35:ILE:HB	2.19	0.42
15:CN:54:LEU:HD23	15:CN:54:LEU:HA	1.83	0.42
17:CP:68:PRO:HG2	17:CP:71:GLU:OE2	2.20	0.42
17:CP:129:GLY:HA3	81:Ch:74:LYS:HD2	2.01	0.42
18:CQ:103:ASN:HA	18:CQ:106:LYS:HB2	2.01	0.42
18:CQ:110:THR:HA	18:CQ:113:ASP:HB3	2.01	0.42
32:Ce:10:ARG:HH11	32:Ce:10:ARG:HD3	1.70	0.42
36:A5:378:A:N7	36:A5:391:A:H2	2.16	0.42
36:A5:958:C:OP1	36:A5:2799:A:H3'	2.19	0.42
36:A5:999:G:C6	36:A5:1000:C:N4	2.87	0.42
36:A5:1240:A:C2'	36:A5:1241:U:H5'	2.48	0.42
36:A5:1257:C:H5'	82:DK:122:UNK:O	2.19	0.42
36:A5:2213:A:H61	36:A5:2429:G:H1'	1.84	0.42
36:A5:2289:U:H2'	36:A5:2290:C:C6	2.55	0.42
36:A5:3047:U:O2'	40:DB:53:MET:CE	2.66	0.42
36:A5:3155:U:C3'	36:A5:3156:U:H5''	2.49	0.42
36:A5:3275:U:H4'	36:A5:3276:G:OP2	2.19	0.42
36:A5:3287:U:N3	36:A5:3288:G:C8	2.87	0.42
86:A8:207:OHX:N6	86:A8:218:OHX:N2	2.67	0.42
40:DB:361:THR:HG23	40:DB:371:GLN:O	2.20	0.42
42:DD:59:ASP:OD1	42:DD:81:HIS:CD2	2.71	0.42
42:DD:270:LYS:O	42:DD:271:LYS:HD3	2.20	0.42
45:DG:50:VAL:HG22	45:DG:52:TRP:CE2	2.54	0.42
49:DL:6:ASN:HB2	64:Da:48:TYR:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DL:116:LEU:HD23	49:DL:116:LEU:HA	1.73	0.42
63:DZ:61:LYS:O	63:DZ:65:ARG:HG2	2.18	0.42
64:Da:132:LYS:O	64:Da:136:GLU:HG3	2.18	0.42
73:Dj:14:LYS:HE2	75:Dl:51:ILE:HG13	2.01	0.42
76:Dm:99:CYS:HB3	76:Dm:115:CYS:HB3	2.01	0.42
1:A2:473:A:C2'	1:A2:474:A:H5'	2.49	0.42
1:A2:1456:C:O2	1:A2:1456:C:O4'	2.38	0.42
4:AC:44:LEU:HG	4:AC:247:ALA:HB2	2.01	0.42
7:AF:45:LYS:HA	7:AF:45:LYS:HD3	1.44	0.42
9:AH:17:GLU:HG2	9:AH:46:ILE:HB	2.01	0.42
9:AH:35:LYS:NZ	9:AH:36:ALA:H	2.18	0.42
9:AH:162:ILE:HA	9:AH:165:LYS:HG3	2.02	0.42
14:AM:63:VAL:HB	14:AM:64:SER:H	1.53	0.42
14:AM:131:ASP:HB2	14:AM:132:GLU:CD	2.45	0.42
15:AN:114:ARG:HD3	15:AN:114:ARG:HA	1.68	0.42
27:AZ:41:ILE:HD12	27:AZ:41:ILE:HA	1.97	0.42
30:Ac:26:THR:O	30:Ac:44:VAL:HG13	2.18	0.42
34:Ag:74:THR:CG2	34:Ag:79:TYR:HB2	2.48	0.42
34:Ag:205:SER:HB3	34:Ag:210:LEU:HB2	2.01	0.42
34:Ag:222:LEU:HD23	34:Ag:234:LEU:CD1	2.49	0.42
35:Ah:132:ALA:O	35:Ah:133:GLU:C	2.63	0.42
36:A1:108:A:O2'	36:A1:109:A:H2'	2.20	0.42
36:A1:372:A:H2'	36:A1:373:A:O4'	2.19	0.42
36:A1:373:A:N6	36:A1:396:A:H62	2.18	0.42
36:A1:767:U:H5'	49:BL:186:ARG:CZ	2.50	0.42
36:A1:880:G:O6	36:A1:883:A:H5''	2.19	0.42
36:A1:1769:G:N7	86:A1:3732:OHX:N2	2.68	0.42
36:A1:1887:A:H5'	40:BB:226:PHE:O	2.19	0.42
36:A1:2225:U:H2'	36:A1:2226:U:H6	1.84	0.42
36:A1:2226:U:O2'	36:A1:2227:C:H5'	2.19	0.42
36:A1:2533:G:C2	36:A1:2534:G:H1'	2.54	0.42
36:A1:2552:C:O2'	66:Bc:50:VAL:HG21	2.20	0.42
36:A1:2606:G:H2'	36:A1:2606:G:N3	2.34	0.42
36:A1:2747:A:H2'	36:A1:2748:A:C8	2.55	0.42
36:A1:2988:C:O2	40:BB:266:ARG:NH1	2.52	0.42
36:A1:3217:C:C4	53:BP:182:ILE:HG23	2.55	0.42
86:A1:3482:OHX:N1	86:A1:3800:OHX:N5	2.67	0.42
38:A4:150:G:C8	86:A4:205:OHX:N4	2.86	0.42
39:BA:105:GLY:HA3	39:BA:160:SER:HB3	2.00	0.42
41:BC:355:PHE:CE1	44:BF:70:LYS:HD2	2.55	0.42
51:BN:148:TYR:O	51:BN:150:TRP:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BO:76[B]:PRO:HB3	52:BO:138[B]:LEU:HG	2.00	0.42
60:BW:55:PHE:CD1	60:BW:55:PHE:C	2.98	0.42
62:BY:51:ARG:HG2	62:BY:115:ARG:NH2	2.35	0.42
68:Be:64:LYS:HE2	68:Be:65:PHE:CE2	2.55	0.42
79:Bp:45:LYS:O	79:Bp:45:LYS:HG3	2.19	0.42
80:A6:192:U:O4	10:CI:137:LYS:NZ	2.52	0.42
80:A6:195:G:H2'	80:A6:195:G:N3	2.34	0.42
80:A6:355:G:P	86:A6:1923:OHX:N5	2.92	0.42
80:A6:751:G:H2'	80:A6:752:A:H8	1.82	0.42
80:A6:1220:C:H5'	12:CK:52:LYS:CE	2.50	0.42
80:A6:1678:A:OP1	10:CI:59:ARG:NH2	2.52	0.42
6:CE:174:LYS:HB3	6:CE:174:LYS:HE3	1.73	0.42
7:CF:57:SER:HA	30:Cc:53:ILE:HB	2.01	0.42
8:CG:74:LYS:C	8:CG:75:LEU:HD23	2.43	0.42
9:CH:35:LYS:HE3	9:CH:35:LYS:HB3	1.85	0.42
10:CI:3:ILE:CG2	10:CI:30:GLY:HA3	2.50	0.42
10:CI:57:ALA:HB2	10:CI:177:GLY:HA2	2.01	0.42
11:CJ:90:LYS:HG2	11:CJ:95:TYR:CD1	2.53	0.42
13:CL:54:ILE:HD13	13:CL:54:ILE:HA	1.88	0.42
19:CR:84:TYR:OH	19:CR:86:PRO:HB3	2.20	0.42
26:CY:51:GLU:O	26:CY:52:LYS:C	2.62	0.42
31:Cd:12:ARG:HD2	31:Cd:17:GLY:O	2.19	0.42
36:A5:1170:A:OP2	86:A5:3517:OHX:N3	2.53	0.42
36:A5:1565:G:N1	36:A5:1574:C:C2	2.83	0.42
36:A5:1813:A:O2'	36:A5:1816:A:N3	2.47	0.42
36:A5:1880:U:H2'	36:A5:1881:A:O4'	2.18	0.42
36:A5:2294:U:C2	36:A5:2297:U:C5	3.07	0.42
36:A5:2573:G:H3'	36:A5:2574:G:H5''	2.02	0.42
36:A5:3228:C:HO2'	36:A5:3229:G:P	2.41	0.42
37:A7:98:C:OP1	56:DS:39:SER:OG	2.36	0.42
39:DA:61:VAL:HG22	39:DA:63:PHE:CE1	2.55	0.42
40:DB:37:ARG:O	40:DB:186:GLY:HA3	2.20	0.42
40:DB:81:THR:HB	40:DB:321:PHE:HA	2.01	0.42
40:DB:199:PHE:C	40:DB:201:LYS:H	2.28	0.42
42:DD:110:LEU:HD23	42:DD:110:LEU:C	2.44	0.42
42:DD:187:THR:CG2	42:DD:189:GLU:HB2	2.45	0.42
43:DE:93:VAL:O	43:DE:93:VAL:HG13	2.19	0.42
46:DH:20:ILE:HG13	50:DM:7:VAL:HG22	2.01	0.42
47:DI:47:PRO:HB3	47:DI:171:TRP:CZ2	2.55	0.42
49:DL:133:PRO:O	49:DL:135:ALA:N	2.52	0.42
51:DN:184:LYS:C	51:DN:186:GLY:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:DZ:46:ILE:HD12	63:DZ:47:GLU:C	2.45	0.42
65:Db:9:ALA:O	65:Db:10:HIS:C	2.63	0.42
67:Dd:46:THR:HG21	67:Dd:91:SER:CB	2.50	0.42
1:A2:505:A:H2'	1:A2:506:A:OP1	2.19	0.42
1:A2:681:U:O4	1:A2:682:C:N4	2.52	0.42
1:A2:685:A:O2'	1:A2:686:C:H5'	2.19	0.42
1:A2:719:U:O2	1:A2:719:U:H2'	2.18	0.42
1:A2:778:G:C5	1:A2:783:G:N1	2.88	0.42
1:A2:814:A:C5	1:A2:816:G:C8	3.07	0.42
1:A2:901:G:C6	1:A2:902:G:C6	3.08	0.42
1:A2:1226:A:HO2'	1:A2:1227:A:P	2.42	0.42
1:A2:1340:U:N3	1:A2:1378:U:H4'	2.34	0.42
1:A2:1365:C:H5''	18:AQ:28:LEU:CD2	2.49	0.42
1:A2:1449:U:O4	86:A2:1907:OHX:N1	2.53	0.42
1:A2:1540:G:C6	1:A2:1541:G:C4	3.07	0.42
1:A2:1547:A:H5'	20:AS:112:ASP:OD2	2.20	0.42
6:AE:36:HIS:HE2	6:AE:88:ASP:CG	2.28	0.42
6:AE:180:LEU:HD23	6:AE:180:LEU:HA	1.81	0.42
11:AJ:127:VAL:HG12	11:AJ:131:GLN:NE2	2.35	0.42
11:AJ:133:HIS:CD2	11:AJ:133:HIS:H	2.37	0.42
13:AL:127:GLN:HG3	13:AL:137:PHE:CZ	2.54	0.42
17:AP:69:GLU:CD	86:AP:201:OHX:N6	2.78	0.42
17:AP:72:LYS:HA	17:AP:73:PRO:HD3	1.91	0.42
17:AP:78:THR:OG1	17:AP:79:HIS:N	2.52	0.42
18:AQ:39:VAL:O	18:AQ:40:GLU:C	2.63	0.42
25:AX:126:LYS:HA	25:AX:131:SER:HA	2.02	0.42
27:AZ:71:ILE:HG22	27:AZ:75:LEU:HD12	2.02	0.42
31:Ad:5:ASN:HB3	31:Ad:7:TRP:NE1	2.35	0.42
36:A1:726:G:C5'	36:A1:726:G:C8	3.03	0.42
36:A1:845:G:O6	86:A1:3465:OHX:N3	2.53	0.42
36:A1:981:U:HO2'	36:A1:982:C:P	2.41	0.42
36:A1:1148:G:O6	86:A1:3729:OHX:N6	2.52	0.42
36:A1:1506:A:C2	36:A1:1513:G:C2	3.08	0.42
36:A1:1528:G:H2'	36:A1:1529:A:O4'	2.19	0.42
36:A1:1574:C:N3	36:A1:1575:A:C8	2.88	0.42
36:A1:1592:G:OP2	70:Bg:37:LYS:NZ	2.33	0.42
36:A1:1610:G:H2'	36:A1:1611:G:O4'	2.19	0.42
36:A1:2209:U:OP2	36:A1:2209:U:C6	2.72	0.42
36:A1:2387:A:OP2	86:A1:3570:OHX:N1	2.53	0.42
36:A1:2745:G:O2'	36:A1:2747:A:N7	2.52	0.42
36:A1:2979:U:C4	86:A1:3757:OHX:N2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:3328:G:C2	36:A1:3379:C:C2	3.07	0.42
86:A1:3458:OHX:N6	86:A1:3811:OHX:N6	2.67	0.42
41:BC:41:SER:O	41:BC:44:LYS:HB2	2.18	0.42
41:BC:316:ASN:C	41:BC:317:PRO:O	2.63	0.42
45:BG:190:VAL:HG13	45:BG:192:GLN:HG2	2.00	0.42
48:BJ:107:ASP:HA	48:BJ:124:GLY:HA2	2.00	0.42
48:BJ:145:LYS:HE2	48:BJ:145:LYS:HB2	1.54	0.42
50:BM:21:VAL:CG2	50:BM:63:VAL:HG21	2.49	0.42
50:BM:60:LEU:HD23	50:BM:60:LEU:HA	1.84	0.42
56:BS:75:PHE:HB2	56:BS:94:ILE:O	2.20	0.42
59:BV:4:ASN:C	59:BV:6:ALA:H	2.27	0.42
61:BX:109:LYS:HB2	61:BX:109:LYS:HE2	1.32	0.42
62:BY:95:VAL:HA	62:BY:96:PRO:HD3	1.90	0.42
62:BY:125:LYS:O	62:BY:126:LEU:HG	2.18	0.42
65:Bb:52:LYS:C	65:Bb:54:LEU:H	2.27	0.42
80:A6:463:U:H2'	80:A6:464:A:C8	2.54	0.42
80:A6:733:A:H2'	80:A6:734:A:O4'	2.20	0.42
80:A6:1003:A:H4'	80:A6:1004:U:O5'	2.20	0.42
80:A6:1334:U:H2'	80:A6:1335:U:H6	1.85	0.42
80:A6:1334:U:O2	31:Cd:56:ARG:HD3	2.18	0.42
80:A6:1391:A:C4	80:A6:1392:U:C5	3.08	0.42
80:A6:1398:U:H5''	80:A6:1398:U:O2	2.20	0.42
80:A6:1504:G:H2'	80:A6:1505:A:C8	2.54	0.42
2:CA:49:ASN:HB3	2:CA:52:LYS:HG3	2.02	0.42
2:CA:65:ALA:O	2:CA:66:ALA:HB3	2.19	0.42
2:CA:109:ASN:H	4:CC:64:LYS:HZ2	1.68	0.42
4:CC:139:ILE:CD1	4:CC:191:ALA:HB1	2.49	0.42
6:CE:105:VAL:HG11	6:CE:245:LYS:N	2.34	0.42
15:CN:71:ILE:HG22	15:CN:75:LEU:HD11	2.02	0.42
17:CP:22:LEU:HA	17:CP:25:LEU:CB	2.47	0.42
24:CW:21:GLY:O	29:Cb:3:LEU:HD22	2.20	0.42
36:A5:1690:C:H2'	36:A5:1691:U:O4'	2.20	0.42
36:A5:1940:G:N2	36:A5:3362:A:H8	2.18	0.42
36:A5:2549:G:H5'	36:A5:2549:G:H8	1.83	0.42
36:A5:2726:C:O2	36:A5:2726:C:O5'	2.36	0.42
36:A5:2882:U:H2'	36:A5:2883:U:C6	2.54	0.42
36:A5:2910:A:H5''	36:A5:2910:A:H8	1.85	0.42
36:A5:2935:U:O2	36:A5:2935:U:H2'	2.19	0.42
36:A5:3206:C:N3	50:DM:13:ARG:NH2	2.64	0.42
36:A5:3227:A:HO2'	50:DM:133:LYS:HZ2	1.57	0.42
36:A5:3350:C:H2'	36:A5:3351:U:C2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A5:3465:OHX:N3	86:A5:3810:OHX:N3	2.67	0.42
86:A5:3493:OHX:N4	51:DN:204:LYS:O	2.53	0.42
41:DC:22:LEU:HA	41:DC:23:PRO:HD3	1.68	0.42
45:DG:122:LYS:C	45:DG:124:ASP:H	2.28	0.42
45:DG:134:TYR:CD2	45:DG:190:VAL:HG11	2.54	0.42
46:DH:91:ARG:HG2	46:DH:182:SER:HB3	2.02	0.42
48:DJ:96:PHE:CD1	48:DJ:160:VAL:HG23	2.54	0.42
48:DJ:132:ASN:HD22	48:DJ:132:ASN:N	2.16	0.42
58:DU:17:VAL:HB	58:DU:63:VAL:HG23	2.01	0.42
58:DU:36:TYR:O	58:DU:40:HIS:CD2	2.72	0.42
64:Da:110:GLY:O	64:Da:128:ARG:O	2.37	0.42
70:Dg:67:LYS:HA	70:Dg:70:LYS:HE3	2.01	0.42
83:Dq:25:LEU:HD23	83:Dq:76:LEU:HD21	2.02	0.42
83:Dq:63:ILE:HG21	83:Dq:77:LEU:HD21	2.01	0.42
1:A2:36:C:H2'	1:A2:37:U:O4'	2.20	0.42
1:A2:73:U:C2	1:A2:74:U:O2	2.73	0.42
1:A2:959:U:OP2	15:AN:14:SER:HA	2.20	0.42
1:A2:1002:G:C2'	1:A2:1003:A:H5'	2.48	0.42
1:A2:1102:G:OP2	25:AX:7:ARG:NH1	2.52	0.42
2:AA:52:LYS:CD	23:AV:82:VAL:HA	2.47	0.42
4:AC:137:ILE:HG12	4:AC:138:PRO:HD2	2.01	0.42
5:AD:138:VAL:O	5:AD:149:ALA:HA	2.20	0.42
6:AE:87:MET:SD	6:AE:123:LEU:HB2	2.60	0.42
10:AI:87:ASN:HB3	10:AI:90:LEU:HD12	2.02	0.42
13:AL:3:THR:CG2	13:AL:82:ARG:HH21	2.32	0.42
13:AL:53:TYR:CD1	13:AL:53:TYR:C	2.97	0.42
14:AM:66:VAL:HB	14:AM:67:THR:H	1.51	0.42
16:AO:38:THR:O	16:AO:39:ILE:HG23	2.19	0.42
16:AO:129:LYS:HG3	16:AO:130:GLY:N	2.35	0.42
17:AP:18:ARG:O	20:AS:95:GLY:HA3	2.20	0.42
18:AQ:53:LEU:N	18:AQ:53:LEU:HD23	2.35	0.42
19:AR:17:ILE:HG12	19:AR:58:MET:HE2	2.01	0.42
24:AW:43:LYS:O	24:AW:43:LYS:HG3	2.18	0.42
26:AY:14:SER:CB	26:AY:21:LYS:HE3	2.49	0.42
29:Ab:63:LEU:HA	29:Ab:63:LEU:HD23	1.72	0.42
30:Ac:29:ARG:HG3	30:Ac:39:THR:OG1	2.19	0.42
30:Ac:42:ARG:NH1	30:Ac:56:LEU:HD22	2.33	0.42
35:Ah:116:GLU:O	35:Ah:117:LEU:C	2.63	0.42
36:A1:243:G:H2'	36:A1:244:G:O4'	2.20	0.42
36:A1:537:A:C2	36:A1:557:A:C4	3.08	0.42
36:A1:817:A:P	86:A1:3800:OHX:N3	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1247:U:H2'	36:A1:1268:G:O6	2.19	0.42
36:A1:1445:U:H5''	36:A1:1446:A:OP2	2.20	0.42
36:A1:2572:C:O2'	36:A1:2573:G:O5'	2.37	0.42
36:A1:2779:A:H5'	36:A1:2779:A:H8	1.85	0.42
36:A1:2947:G:N3	40:BB:250:ALA:HB1	2.35	0.42
36:A1:3202:G:O6	86:A1:3762:OHX:N1	2.53	0.42
86:A1:3496:OHX:N1	86:A1:3650:OHX:N6	2.68	0.42
86:A1:3690:OHX:N5	86:A1:3790:OHX:N1	2.67	0.42
37:A3:19:C:H2'	37:A3:20:A:C8	2.54	0.42
43:BE:5:LYS:O	43:BE:6:ALA:CB	2.67	0.42
43:BE:152:THR:HA	43:BE:153:PRO:HD3	1.96	0.42
44:BF:137:GLY:HA3	44:BF:236:ILE:HB	2.02	0.42
47:BI:208:ASN:CB	47:BI:211:ARG:HD2	2.50	0.42
55:BR:104:ARG:HD3	55:BR:104:ARG:H	1.83	0.42
67:Bd:36:ILE:HD12	67:Bd:59:ILE:HD11	2.02	0.42
70:Bg:96:GLU:HA	70:Bg:99:LYS:HB2	2.02	0.42
77:Bn:6:ARG:O	77:Bn:6:ARG:HG3	2.18	0.42
80:A6:75:U:O2'	80:A6:76:A:O4'	2.37	0.42
80:A6:169:A:OP2	8:CG:137:ARG:NH2	2.52	0.42
80:A6:485:A:N6	80:A6:486:G:N3	2.67	0.42
80:A6:677:G:C4'	80:A6:678:A:H5'	2.47	0.42
80:A6:761:G:O6	86:A6:1940:OHX:N1	2.53	0.42
80:A6:834:G:HO2'	80:A6:835:U:P	2.43	0.42
80:A6:845:G:H2'	80:A6:846:G:C8	2.52	0.42
80:A6:1429:G:C1'	22:CU:74:GLU:HG2	2.49	0.42
80:A6:1475:A:H2'	80:A6:1476:C:C6	2.55	0.42
2:CA:142:PRO:HG3	23:CV:32:VAL:HG13	2.02	0.42
7:CF:94:THR:O	7:CF:97:LEU:HB2	2.20	0.42
11:CJ:162:SER:HA	11:CJ:163:PRO:HD2	1.59	0.42
16:CO:31:THR:OG1	16:CO:35:GLY:HA2	2.20	0.42
20:CS:29:VAL:HG21	20:CS:54:LEU:HD23	2.00	0.42
20:CS:145:ARG:HB3	20:CS:146:ALA:H	1.57	0.42
21:CT:27:LYS:HG3	21:CT:27:LYS:H	1.69	0.42
22:CU:20:ILE:HD12	22:CU:100:VAL:HG21	2.01	0.42
23:CV:74:GLN:OE1	23:CV:82:VAL:N	2.49	0.42
24:CW:23:ARG:HH11	24:CW:66:ASN:HA	1.85	0.42
27:CZ:47:TYR:O	27:CZ:51:LEU:HD12	2.19	0.42
32:Ce:23:LYS:HB3	32:Ce:23:LYS:HE2	1.81	0.42
32:Ce:44:PHE:O	32:Ce:45:VAL:HG23	2.20	0.42
34:Cg:52:GLN:HG2	34:Cg:53:LYS:N	2.28	0.42
34:Cg:115:ILE:HG12	34:Cg:116:ASP:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:Cg:232:TYR:N	34:Cg:232:TYR:CD2	2.88	0.42
81:Ch:53:ARG:O	81:Ch:54:PRO:C	2.62	0.42
36:A5:892:U:H2'	36:A5:893:C:H5'	1.99	0.42
36:A5:1242:G:N2	86:A5:3622:OHX:N4	2.68	0.42
36:A5:2146:C:OP1	39:DA:200:ARG:NH1	2.49	0.42
36:A5:2840:C:H2'	36:A5:2841:G:O4'	2.20	0.42
36:A5:2985:C:H2'	36:A5:2986:U:C6	2.55	0.42
36:A5:3174:A:H2'	36:A5:3175:U:H5'	2.01	0.42
36:A5:3294:A:H2'	36:A5:3295:A:O4'	2.20	0.42
86:A5:3465:OHX:N5	86:A5:3810:OHX:N1	2.66	0.42
86:A5:3548:OHX:N5	86:A5:3595:OHX:N2	2.68	0.42
86:A5:3579:OHX:N4	86:A5:3588:OHX:N1	2.67	0.42
39:DA:129:ALA:O	39:DA:130:SER:C	2.62	0.42
39:DA:180:LEU:HD23	39:DA:180:LEU:HA	1.79	0.42
41:DC:52:VAL:HG13	41:DC:53:SER:O	2.19	0.42
41:DC:215:ILE:HD12	41:DC:215:ILE:HA	1.85	0.42
46:DH:93:VAL:HG13	76:Dm:78:ILE:HD12	2.01	0.42
50:DM:24:LYS:HB2	50:DM:24:LYS:HE2	1.78	0.42
55:DR:110:ARG:O	55:DR:110:ARG:HG2	2.19	0.42
57:DT:54:HIS:CG	57:DT:55:LYS:N	2.87	0.42
59:DV:45:ARG:HD3	59:DV:45:ARG:HA	1.81	0.42
74:Dk:18:ALA:O	74:Dk:20:VAL:N	2.53	0.42
79:Dp:83:ILE:HG22	79:Dp:87:ARG:NH1	2.34	0.42
1:A2:71:A:C2	1:A2:72:A:C2	3.08	0.42
1:A2:74:U:O2'	1:A2:75:U:H5'	2.20	0.42
1:A2:476:U:OP1	1:A2:477:A:O2'	2.31	0.42
1:A2:805:U:H2'	1:A2:806:A:H5''	2.02	0.42
1:A2:811:A:H8	1:A2:811:A:H2'	1.73	0.42
1:A2:978:A:H2'	1:A2:979:A:O4'	2.19	0.42
1:A2:1480:G:H4'	21:AT:11:ALA:CB	2.49	0.42
1:A2:1570:A:H2'	1:A2:1571:C:O4'	2.20	0.42
86:A2:1922:OHX:N6	86:A2:1978:OHX:N6	2.68	0.42
2:AA:167:LYS:HB3	2:AA:168:HIS:H	1.50	0.42
3:AB:97:LEU:HD12	3:AB:232:HIS:NE2	2.35	0.42
5:AD:74:GLN:OE1	5:AD:81:PRO:HA	2.20	0.42
6:AE:106:LYS:HG3	6:AE:108:ARG:NH1	2.34	0.42
7:AF:94:THR:CB	7:AF:114:ILE:HG13	2.48	0.42
8:AG:1:MET:CE	8:AG:106:LEU:HB2	2.50	0.42
9:AH:75:THR:OG1	9:AH:76:LYS:N	2.52	0.42
9:AH:117:THR:HG23	9:AH:120:ALA:H	1.84	0.42
11:AJ:143:ILE:HA	11:AJ:144:PRO:HD3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AL:6:THR:OG1	13:AL:7:VAL:N	2.52	0.42
19:AR:84:TYR:C	19:AR:85:VAL:HG23	2.45	0.42
23:AV:3:ASN:OD1	23:AV:7:GLN:HB2	2.20	0.42
24:AW:23:ARG:HD2	24:AW:23:ARG:HA	1.80	0.42
24:AW:30:SER:HB2	24:AW:61:ILE:CD1	2.50	0.42
29:Ab:61:THR:HG23	29:Ab:62:ILE:O	2.19	0.42
34:Ag:42:LEU:O	34:Ag:61:PHE:HD2	2.03	0.42
34:Ag:201:THR:CB	34:Ag:242:SER:HA	2.49	0.42
36:A1:402:A:C6	53:BP:21:TYR:CE2	3.08	0.42
36:A1:612:U:H2'	36:A1:613:G:C8	2.55	0.42
36:A1:715:A:H8	64:Ba:115:LYS:HG2	1.83	0.42
36:A1:761:A:C2	36:A1:771:A:H1'	2.55	0.42
36:A1:816:A:H1'	36:A1:819:U:O4	2.18	0.42
36:A1:929:A:H2'	36:A1:930:U:H6	1.83	0.42
36:A1:1231:A:H2	36:A1:1278:A:N7	2.18	0.42
36:A1:1560:G:C2'	36:A1:1561:G:H5'	2.49	0.42
36:A1:2660:G:O3'	36:A1:2749:G:N2	2.52	0.42
36:A1:3027:A:H2'	36:A1:3028:G:O4'	2.19	0.42
86:A1:3608:OHX:N3	86:A1:3739:OHX:N1	2.67	0.42
37:A3:22:A:H1'	42:BD:272:TYR:CZ	2.54	0.42
37:A3:32:U:H4'	37:A3:33:U:OP1	2.20	0.42
42:BD:294:ALA:HB1	47:BI:217:PHE:CB	2.50	0.42
44:BF:83:LEU:HD21	44:BF:116:PHE:HB3	2.01	0.42
45:BG:72:PRO:HA	45:BG:73:PRO:HD3	1.81	0.42
47:BI:216:TYR:CD1	86:BI:303:OHX:N5	2.87	0.42
48:BJ:54:VAL:HG11	48:BJ:57:PHE:CG	2.55	0.42
50:BM:17:VAL:HG21	50:BM:74:ARG:HB2	2.02	0.42
52:BO:24[A]:ALA:O	52:BO:27[A]:LEU:HB2	2.19	0.42
52:BO:156[A]:LEU:HD23	52:BO:156[A]:LEU:HA	1.86	0.42
53:BP:172:GLN:OE1	69:Bf:60:ARG:CZ	2.68	0.42
54:BQ:121:CYS:C	54:BQ:122:ILE:HD12	2.44	0.42
54:BQ:162:ALA:HA	54:BQ:163:PRO:HD2	1.48	0.42
56:BS:50:LYS:HA	56:BS:50:LYS:HD3	1.82	0.42
66:Bc:51:LEU:CD2	70:Bg:91:ARG:HB2	2.50	0.42
68:Be:74:PHE:CD2	68:Be:85:LEU:HD21	2.55	0.42
76:Bm:124:LYS:O	76:Bm:126:LYS:NZ	2.50	0.42
80:A6:38:C:H2'	80:A6:39:A:H5'	2.01	0.42
80:A6:65:A:H2	80:A6:84:A:H62	1.68	0.42
80:A6:95:G:C6	80:A6:96:G:C4	3.08	0.42
80:A6:367:A:OP1	86:CJ:201:OHX:N3	2.53	0.42
80:A6:525:A:C6	80:A6:526:A:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:613:G:H4'	80:A6:614:C:OP1	2.20	0.42
80:A6:845:G:N7	86:A6:1922:OHX:N4	2.68	0.42
80:A6:909:U:O5'	80:A6:909:U:H6	2.02	0.42
80:A6:978:A:H2'	80:A6:979:A:O4'	2.20	0.42
80:A6:1563:C:OP1	21:CT:84:LYS:HE3	2.19	0.42
86:A6:1956:OHX:N4	86:A6:2058:OHX:N6	2.68	0.42
3:CB:70:LEU:HB3	3:CB:79:HIS:HB3	2.01	0.42
5:CD:22:ASN:O	5:CD:26:THR:OG1	2.32	0.42
10:CI:110:ARG:HG3	10:CI:121:LEU:HD23	2.01	0.42
13:CL:86:ILE:HG21	13:CL:86:ILE:HD13	1.57	0.42
16:CO:16:VAL:HG21	16:CO:18:ARG:HH22	1.85	0.42
17:CP:77:ARG:HB3	17:CP:102:PHE:CE1	2.55	0.42
18:CQ:46:PHE:C	18:CQ:48:VAL:N	2.76	0.42
19:CR:19:ARG:H	19:CR:19:ARG:HG2	1.47	0.42
21:CT:64:HIS:CE1	21:CT:79:LEU:HD22	2.55	0.42
26:CY:35:VAL:HG13	26:CY:36:SER:N	2.35	0.42
28:Ca:64:LEU:HA	28:Ca:65:PRO:HD2	1.82	0.42
28:Ca:87:ARG:HB2	28:Ca:92:ARG:HG2	2.02	0.42
33:Cf:147:VAL:O	33:Cf:148:TYR:HB2	2.19	0.42
33:Cf:149:LYS:HE2	33:Cf:149:LYS:HB2	1.85	0.42
81:Ch:23:LYS:HG3	81:Ch:24:GLU:N	2.34	0.42
36:A5:353:G:O2'	36:A5:364:G:O6	2.37	0.42
36:A5:535:G:P	56:DS:146:LYS:HE2	2.60	0.42
36:A5:567:G:H2'	36:A5:568:G:C8	2.55	0.42
36:A5:600:G:H5'	36:A5:601:U:OP2	2.20	0.42
36:A5:815:G:C6	36:A5:906:A:C4	3.08	0.42
36:A5:943:U:O2'	64:Da:12:ARG:HB3	2.20	0.42
36:A5:2314:U:H4'	36:A5:2314:U:OP2	2.20	0.42
36:A5:2971:A:H4'	36:A5:2972:G:OP2	2.20	0.42
39:DA:172:GLY:HA3	79:Dp:68:ALA:N	2.25	0.42
42:DD:63:GLN:HB3	42:DD:65:ILE:HD11	2.01	0.42
42:DD:211:LEU:HD13	42:DD:219:PHE:CA	2.46	0.42
48:DJ:13:LYS:CE	48:DJ:132:ASN:HD21	2.32	0.42
48:DJ:21:ILE:HG13	48:DJ:37:LEU:HD11	2.01	0.42
82:DK:126:UNK:O	82:DK:127:UNK:C	2.68	0.42
51:DN:78:GLY:HA2	51:DN:89:VAL:HG21	2.02	0.42
54:DQ:12:ARG:O	54:DQ:13:SER:C	2.63	0.42
54:DQ:90:ASP:O	54:DQ:92:ARG:N	2.53	0.42
54:DQ:170:ARG:O	54:DQ:170:ARG:HG3	2.11	0.42
59:DV:87:ARG:HH12	59:DV:137:VAL:HG11	1.85	0.42
60:DW:97:LYS:O	60:DW:100:VAL:HG23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:DY:102:SER:O	62:DY:103:LYS:HD3	2.20	0.42
83:Dq:40:GLU:O	83:Dq:44:GLU:HB2	2.20	0.42
1:A2:40:A:H2'	1:A2:41:A:O4'	2.19	0.42
1:A2:425:A:H8	1:A2:425:A:C5'	2.32	0.42
1:A2:1162:C:H5''	1:A2:1163:A:OP2	2.20	0.42
1:A2:1234:A:H1'	33:Af:140:TYR:OH	2.20	0.42
1:A2:1346:A:H8	1:A2:1370:U:O2	2.03	0.42
1:A2:1418:G:O2'	31:Ad:56:ARG:O	2.29	0.42
1:A2:1683:C:HO2'	1:A2:1684:U:P	2.40	0.42
86:A2:1987:OHX:N1	86:A2:2068:OHX:N5	2.68	0.42
86:A2:2017:OHX:N4	86:A2:2076:OHX:N1	2.68	0.42
2:AA:69:ASN:HB3	2:AA:71:GLU:OE1	2.19	0.42
2:AA:185:ARG:HB2	23:AV:45:ALA:CB	2.47	0.42
3:AB:137:ILE:HG22	3:AB:215:VAL:CG2	2.50	0.42
6:AE:156:VAL:O	6:AE:157:ASN:HB2	2.20	0.42
9:AH:159:VAL:HG23	9:AH:163:ASP:OD1	2.20	0.42
10:AI:147:ALA:H	10:AI:149:SER:HB3	1.84	0.42
14:AM:28:LEU:HD22	14:AM:32:LEU:HG	2.02	0.42
15:AN:46:THR:HG23	15:AN:49:GLN:CD	2.45	0.42
18:AQ:127:LYS:C	18:AQ:128:LYS:HG2	2.40	0.42
22:AU:96:PRO:HG2	22:AU:99:ILE:HG22	2.02	0.42
25:AX:69:ARG:NH1	25:AX:116:ASP:OD1	2.52	0.42
36:A1:174:C:H2'	36:A1:175:C:H6	1.85	0.42
36:A1:259:C:H2'	36:A1:260:C:C6	2.55	0.42
36:A1:830:A:H2'	36:A1:831:G:O4'	2.20	0.42
36:A1:1039:U:H2'	36:A1:1040:A:C8	2.54	0.42
36:A1:1340:G:H2'	36:A1:1341:U:C6	2.54	0.42
36:A1:2544:U:H2'	36:A1:2545:C:C6	2.55	0.42
36:A1:2615:G:H2'	36:A1:2616:C:C6	2.55	0.42
36:A1:2664:C:OP2	48:BJ:142:LYS:NZ	2.53	0.42
36:A1:3163:A:C6	36:A1:3288:G:N1	2.88	0.42
40:BB:77:THR:CG2	40:BB:327:CYS:HA	2.50	0.42
40:BB:188:ILE:N	40:BB:188:ILE:CD1	2.83	0.42
42:BD:114:GLY:C	42:BD:116:ASP:N	2.78	0.42
42:BD:179:ARG:HA	42:BD:179:ARG:HD3	1.89	0.42
52:BO:36[B]:VAL:HB	52:BO:108[B]:ILE:HG12	2.02	0.42
52:BO:54[B]:TYR:CE2	52:BO:58[B]:LEU:HD22	2.54	0.42
55:BR:68:GLN:OE1	55:BR:68:GLN:HA	2.19	0.42
55:BR:115:ILE:HG12	55:BR:119:LEU:HD23	2.02	0.42
58:BU:10:LYS:HE2	58:BU:10:LYS:HA	2.02	0.42
63:BZ:4:PHE:CZ	66:Bc:35:ARG:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:BZ:52:LYS:O	63:BZ:65:ARG:NH1	2.53	0.42
64:Ba:116:GLY:HA2	64:Ba:137:LYS:NZ	2.34	0.42
66:Bc:13:LYS:HB3	66:Bc:100:ILE:HG23	2.01	0.42
69:Bf:89:LEU:HA	69:Bf:90:PRO:HD3	1.74	0.42
80:A6:79:C:H4'	8:CG:173:PRO:O	2.20	0.42
80:A6:350:U:H5''	80:A6:352:A:C5'	2.50	0.42
80:A6:478:A:C2	80:A6:511:A:C2	3.08	0.42
80:A6:660:N:C2'	80:A6:661:N:H4'	2.45	0.42
80:A6:1181:U:H5	86:CP:202:OHX:N3	2.18	0.42
5:CD:105:MET:HE3	5:CD:105:MET:HB3	1.89	0.42
8:CG:14:LYS:HD3	8:CG:16:PHE:CZ	2.54	0.42
12:CK:30:ALA:O	12:CK:31:LYS:HB2	2.19	0.42
15:CN:142:GLU:O	15:CN:143:SER:C	2.62	0.42
24:CW:50:PHE:HB3	24:CW:63:VAL:HG22	2.00	0.42
26:CY:27:VAL:C	26:CY:28:LEU:HD12	2.45	0.42
29:Cb:19:HIS:O	29:Cb:20:LYS:C	2.63	0.42
34:Cg:38:ARG:HA	34:Cg:67:ILE:HG23	2.01	0.42
34:Cg:84:SER:C	34:Cg:86:ASP:H	2.28	0.42
34:Cg:121:MET:HE3	34:Cg:121:MET:HB2	1.68	0.42
36:A5:851:C:H6	36:A5:851:C:C5'	2.25	0.42
36:A5:1760:A:H5'	36:A5:1761:C:OP2	2.19	0.42
36:A5:1887:A:OP1	86:A5:3628:OHX:N6	2.53	0.42
36:A5:2101:C:O2'	36:A5:2102:U:P	2.78	0.42
36:A5:2397:A:C2	36:A5:2873:U:H5'	2.55	0.42
36:A5:2827:U:O2	36:A5:2827:U:H2'	2.20	0.42
36:A5:2947:G:C2	40:DB:250:ALA:HB1	2.55	0.42
36:A5:3047:U:H5'	40:DB:329:PRO:HA	2.02	0.42
42:DD:124:GLU:O	42:DD:125:VAL:HB	2.20	0.42
82:DK:105:UNK:HA	82:DK:142:UNK:O	2.19	0.42
49:DL:59:ARG:HG3	49:DL:59:ARG:O	2.18	0.42
49:DL:109:PHE:O	49:DL:113:VAL:HG23	2.20	0.42
49:DL:157:ARG:NH1	64:Da:146:GLU:OE2	2.52	0.42
52:DO:15[B]:LEU:HD21	52:DO:125[B]:ARG:HG3	2.00	0.42
56:DS:106:LEU:C	56:DS:106:LEU:HD13	2.45	0.42
59:DV:125:LEU:HD12	59:DV:125:LEU:HA	1.84	0.42
62:DY:75:ARG:O	62:DY:77:LYS:N	2.53	0.42
69:Df:45:LEU:HA	69:Df:71:VAL:HG12	2.02	0.42
73:Dj:63:ARG:O	73:Dj:68:LYS:HE2	2.19	0.42
1:A2:68:A:H3'	1:A2:68:A:H8	1.84	0.42
1:A2:218:A:HO2'	1:A2:219:A:P	2.39	0.42
1:A2:478:A:H5'	32:Ae:33:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1096:C:O2	1:A2:1096:C:H2'	2.20	0.42
1:A2:1344:A:H4'	1:A2:1345:A:OP1	2.19	0.42
1:A2:1490:C:P	1:A2:1490:C:O4'	2.78	0.42
1:A2:1535:U:H1'	1:A2:1536:G:C2	2.55	0.42
1:A2:1686:C:C4	1:A2:1687:U:C5	3.08	0.42
1:A2:1720:G:O6	86:A2:1961:OHX:N5	2.52	0.42
3:AB:140:ILE:O	3:AB:210:ILE:HA	2.20	0.42
4:AC:130:ILE:O	4:AC:134:LEU:HD22	2.19	0.42
5:AD:5:ILE:CG2	5:AD:9:ARG:HB3	2.50	0.42
7:AF:69:PHE:CD2	18:AQ:50:GLU:HG2	2.54	0.42
11:AJ:49:LEU:HD22	11:AJ:53:ARG:HG3	2.01	0.42
19:AR:107:SER:HA	19:AR:110:VAL:HG23	2.01	0.42
21:AT:9:VAL:CG1	21:AT:14:PHE:HB2	2.48	0.42
26:AY:105:ARG:O	26:AY:109:LYS:HG3	2.20	0.42
36:A1:373:A:H62	36:A1:396:A:H62	1.67	0.42
36:A1:745:C:H5''	54:BQ:145:ASN:ND2	2.33	0.42
36:A1:1236:G:H21	36:A1:1245:A:H5''	1.85	0.42
36:A1:1252:A:H2'	36:A1:1253:U:C5	2.54	0.42
36:A1:1864:A:OP1	55:BR:88:ARG:NH1	2.50	0.42
36:A1:2296:A:H2	36:A1:2918:G:N3	2.18	0.42
36:A1:2539:C:H4'	36:A1:2540:A:OP2	2.19	0.42
36:A1:2585:G:C2	38:A4:151:C:H5	2.38	0.42
36:A1:2856:G:H2'	36:A1:2857:C:C6	2.55	0.42
36:A1:2873:U:H5	36:A1:2941:A:H2	1.68	0.42
36:A1:2880:U:O2	40:BB:250:ALA:HB3	2.20	0.42
36:A1:3276:G:N1	69:Bf:60:ARG:NH2	2.65	0.42
86:A1:3565:OHX:N6	86:A1:3603:OHX:N2	2.67	0.42
86:A1:3601:OHX:N6	86:A1:3725:OHX:N5	2.68	0.42
41:BC:179:LEU:HD23	41:BC:179:LEU:HA	1.91	0.42
41:BC:279:HIS:HB3	41:BC:281:ILE:O	2.19	0.42
47:BI:23:ASN:O	47:BI:24:ARG:HB2	2.19	0.42
51:BN:186:GLY:O	51:BN:190:THR:HG22	2.19	0.42
53:BP:10:ASN:HD22	53:BP:13:LYS:NZ	2.17	0.42
53:BP:127:ARG:HH11	53:BP:127:ARG:CB	2.33	0.42
57:BT:102:ARG:HG2	57:BT:102:ARG:HH11	1.85	0.42
59:BV:79:VAL:HG22	59:BV:99:ALA:O	2.20	0.42
61:BX:135:ILE:O	61:BX:135:ILE:HD13	2.20	0.42
66:Bc:43:ILE:HG22	66:Bc:70:PHE:HB2	2.01	0.42
80:A6:225:A:N1	80:A6:226:A:N6	2.68	0.42
80:A6:304:U:H2'	80:A6:305:C:C6	2.55	0.42
80:A6:722:G:N3	80:A6:723:G:C8	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:769:A:OP1	86:A6:1993:OHX:N6	2.53	0.42
80:A6:813:U:O2	80:A6:813:U:H2'	2.19	0.42
80:A6:918:U:H2'	80:A6:919:A:C8	2.53	0.42
80:A6:1175:U:H2'	80:A6:1176:G:C8	2.55	0.42
80:A6:1227:A:HO2'	80:A6:1228:G:P	2.26	0.42
80:A6:1527:C:H5'	7:CF:106:LYS:HE2	2.01	0.42
80:A6:1699:N:P	80:A6:1699:N:O4'	2.78	0.42
86:A6:2010:OHX:N5	86:A6:2069:OHX:N3	2.68	0.42
7:CF:117:THR:HG22	7:CF:121:ILE:CD1	2.49	0.42
8:CG:71:THR:HG22	8:CG:72:ARG:H	1.84	0.42
9:CH:31:SER:O	9:CH:35:LYS:HB3	2.19	0.42
15:CN:49:GLN:HE21	15:CN:49:GLN:HB3	1.70	0.42
18:CQ:48:VAL:CG2	18:CQ:81:ILE:HG13	2.50	0.42
19:CR:14:LYS:HG3	19:CR:69:ILE:CG2	2.50	0.42
28:Ca:10:ARG:NH1	28:Ca:36:ILE:HG13	2.35	0.42
30:Cc:54:LEU:HD13	30:Cc:54:LEU:HA	1.68	0.42
36:A5:248:U:O2	36:A5:248:U:H2'	2.20	0.42
36:A5:291:C:OP1	51:DN:68:ARG:HD2	2.20	0.42
36:A5:299:G:C4	72:Di:31:GLY:HA3	2.55	0.42
36:A5:1366:A:C2	36:A5:1367:G:C4	3.08	0.42
36:A5:1592:G:OP1	70:Dg:58:ARG:NH1	2.53	0.42
36:A5:1719:G:N7	55:DR:121:HIS:HE1	2.18	0.42
36:A5:2308:C:O2	86:A5:3816:OHX:N1	2.52	0.42
36:A5:2586:G:C5	45:DG:241:LYS:HB2	2.54	0.42
36:A5:2896:A:H8	36:A5:2896:A:C5'	2.32	0.42
36:A5:2953:U:H5''	36:A5:2954:U:OP2	2.20	0.42
36:A5:3078:U:H6	86:A5:3728:OHX:N1	2.18	0.42
86:A5:3581:OHX:N1	86:A5:3815:OHX:N2	2.68	0.42
86:A5:3617:OHX:N5	86:A5:3743:OHX:N2	2.68	0.42
40:DB:139:GLN:C	40:DB:141:GLY:N	2.77	0.42
40:DB:169:THR:CG2	40:DB:171:LEU:HG	2.49	0.42
40:DB:186:GLY:O	40:DB:190:GLU:HB2	2.19	0.42
40:DB:346:THR:O	40:DB:348:ARG:N	2.53	0.42
41:DC:80:GLY:HA2	41:DC:85:SER:OG	2.20	0.42
44:DF:73:GLY:O	57:DT:143:THR:HB	2.20	0.42
52:DO:180[A]:SER:O	52:DO:183[A]:ALA:N	2.40	0.42
53:DP:48:LEU:HD23	53:DP:48:LEU:HA	1.91	0.42
56:DS:40:ARG:HA	56:DS:40:ARG:HD2	1.55	0.42
59:DV:10:LYS:NZ	59:DV:56:ASP:OD1	2.48	0.42
59:DV:125:LEU:HB3	59:DV:126:TRP:CD1	2.55	0.42
71:Dh:17:LEU:HA	71:Dh:20:GLN:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:143:G:C2	1:A2:173:A:N3	2.88	0.41
1:A2:240:U:H4'	1:A2:241:U:OP2	2.20	0.41
1:A2:322:G:OP1	86:A2:1971:OHX:N4	2.53	0.41
1:A2:1253:U:H4'	33:Af:143:LYS:CA	2.50	0.41
1:A2:1337:A:H5'	1:A2:1338:C:OP2	2.20	0.41
1:A2:1612:U:C2'	1:A2:1613:U:H5'	2.46	0.41
86:A2:1907:OHX:N5	86:A2:2086:OHX:N4	2.67	0.41
86:A2:1983:OHX:N5	86:A2:2082:OHX:N6	2.68	0.41
86:A2:2024:OHX:N1	86:A2:2072:OHX:N3	2.68	0.41
2:AA:177:LEU:HD23	2:AA:177:LEU:HA	1.94	0.41
3:AB:29:TRP:CZ2	3:AB:45:LYS:HB3	2.55	0.41
6:AE:125:LYS:NZ	6:AE:225:VAL:O	2.41	0.41
7:AF:93:LEU:HD23	7:AF:93:LEU:HA	1.78	0.41
9:AH:133:THR:O	9:AH:134:GLU:HB2	2.19	0.41
10:AI:106:ALA:O	10:AI:109:PHE:N	2.53	0.41
10:AI:142:LYS:H	10:AI:142:LYS:HG2	1.65	0.41
10:AI:195:ARG:HA	10:AI:195:ARG:HD3	1.85	0.41
12:AK:3:MET:HE3	12:AK:8:ARG:NH1	2.35	0.41
12:AK:72:GLY:O	12:AK:76:LEU:HD22	2.20	0.41
22:AU:28:SER:HB2	22:AU:112:VAL:HA	2.02	0.41
22:AU:34:LEU:HD23	22:AU:112:VAL:HG13	2.02	0.41
23:AV:15:ARG:HB3	23:AV:16:LYS:H	1.60	0.41
24:AW:111:MET:CE	24:AW:116:ALA:HA	2.50	0.41
35:Ah:64:LYS:O	35:Ah:65:THR:HG23	2.20	0.41
35:Ah:84:LYS:HD2	35:Ah:85:SER:N	2.35	0.41
36:A1:743:C:O2	54:BQ:141:ARG:HD2	2.19	0.41
36:A1:1062:A:N3	57:BT:130:ARG:NH2	2.62	0.41
36:A1:1191:U:C2	52:BO:48[B]:PHE:CE1	3.07	0.41
36:A1:1574:C:N4	36:A1:1575:A:N7	2.68	0.41
36:A1:2903:A:H2'	36:A1:2904:U:O4'	2.20	0.41
36:A1:2995:A:H8	36:A1:2995:A:O5'	2.02	0.41
36:A1:3119:U:H5''	36:A1:3120:C:OP2	2.20	0.41
36:A1:3227:A:H2'	36:A1:3228:C:H5'	2.02	0.41
86:A1:3659:OHX:N3	86:A1:3719:OHX:N6	2.68	0.41
38:A4:15:G:C6	38:A4:16:G:N1	2.88	0.41
38:A4:113:U:H5''	75:Bl:7:PHE:HB3	2.00	0.41
41:BC:139:GLY:O	41:BC:140:HIS:HB2	2.20	0.41
45:BG:33:ASN:O	45:BG:39:ALA:HB3	2.20	0.41
45:BG:91:PHE:CZ	45:BG:185:ARG:HD2	2.55	0.41
45:BG:142:LEU:HA	45:BG:142:LEU:HD23	1.79	0.41
47:BI:169:LYS:NZ	57:BT:159:PHE:H	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BI:210:ILE:HG12	47:BI:217:PHE:CE2	2.54	0.41
49:BL:51:LEU:HD23	49:BL:51:LEU:HA	1.75	0.41
54:BQ:71:LEU:HD22	54:BQ:99:THR:HG21	2.02	0.41
54:BQ:120:GLU:CD	54:BQ:122:ILE:HD11	2.44	0.41
59:BV:93:LEU:HD23	59:BV:93:LEU:H	1.85	0.41
64:Ba:65:GLN:H	64:Ba:65:GLN:HG2	1.65	0.41
66:Bc:50:VAL:O	66:Bc:53:LYS:HB3	2.20	0.41
67:Bd:31:ARG:NH1	67:Bd:35:GLU:OE1	2.53	0.41
80:A6:154:G:H4'	8:CG:108:VAL:HG22	2.02	0.41
80:A6:727:U:H2'	80:A6:728:U:H6	1.85	0.41
80:A6:767:U:C5	26:CY:64:PHE:CE1	3.08	0.41
80:A6:1292:G:C6	80:A6:1293:U:C4	3.08	0.41
80:A6:1473:U:O5'	7:CF:190:ILE:HD11	2.20	0.41
80:A6:1601:G:N2	21:CT:88:VAL:HG13	2.34	0.41
4:CC:45:VAL:HG13	4:CC:72:LEU:HD22	2.02	0.41
11:CJ:150:LEU:HA	11:CJ:150:LEU:HD12	1.73	0.41
11:CJ:178:ALA:HA	11:CJ:181:ALA:HB3	2.02	0.41
12:CK:76:LEU:C	12:CK:76:LEU:HD13	2.45	0.41
14:CM:63:VAL:HB	14:CM:64:SER:H	1.57	0.41
17:CP:13:LYS:H	17:CP:13:LYS:HG3	1.71	0.41
17:CP:126:VAL:HG13	17:CP:127:ARG:N	2.34	0.41
24:CW:126:LEU:HD23	24:CW:126:LEU:HA	1.91	0.41
28:Ca:36:ILE:HD12	28:Ca:36:ILE:N	2.35	0.41
34:Cg:232:TYR:N	34:Cg:232:TYR:HD2	2.18	0.41
81:Ch:81:THR:O	81:Ch:82:THR:HG23	2.19	0.41
36:A5:242:C:H2'	36:A5:243:G:C8	2.55	0.41
36:A5:536:U:H1'	36:A5:559:A:C8	2.55	0.41
36:A5:622:A:H8	36:A5:622:A:O5'	2.03	0.41
36:A5:1116:G:H4'	36:A5:1117:G:OP2	2.20	0.41
36:A5:2207:A:H2'	36:A5:2208:A:O4'	2.19	0.41
36:A5:2533:G:N2	36:A5:2546:C:O2	2.53	0.41
36:A5:2550:U:H5	39:DA:40:TYR:O	2.03	0.41
41:DC:44:LYS:HB3	41:DC:47:ARG:HH11	1.84	0.41
41:DC:118:LYS:O	41:DC:122:THR:HG22	2.20	0.41
46:DH:161:LEU:HD13	46:DH:179:ILE:HG21	2.02	0.41
51:DN:183:THR:O	51:DN:183:THR:CG2	2.68	0.41
52:DO:54[B]:TYR:O	52:DO:57[B]:PHE:HB3	2.20	0.41
55:DR:146:LYS:O	55:DR:149:ALA:N	2.53	0.41
62:DY:11:ASP:HB3	62:DY:14:LYS:HG3	2.02	0.41
62:DY:33:ALA:HB2	62:DY:101:PRO:HB2	2.02	0.41
63:DZ:81:LEU:HD12	70:Dg:93:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:DZ:108:GLU:O	63:DZ:112:LYS:HG3	2.20	0.41
74:Dk:17:ARG:O	74:Dk:18:ALA:CB	2.67	0.41
1:A2:280:U:HO2'	1:A2:281:G:P	2.33	0.41
1:A2:487:G:C6	1:A2:488:G:C8	3.09	0.41
1:A2:542:A:O2'	1:A2:542:A:C8	2.73	0.41
1:A2:1133:A:H2'	1:A2:1134:C:O4'	2.19	0.41
2:AA:63:ILE:HG23	23:AV:35:ASN:O	2.21	0.41
3:AB:96:LEU:HD23	3:AB:96:LEU:O	2.20	0.41
4:AC:242:ILE:HG22	4:AC:243:TYR:CE2	2.55	0.41
7:AF:29:ILE:HG21	18:AQ:57:LEU:HD11	2.00	0.41
9:AH:70:PHE:HD1	9:AH:70:PHE:HA	1.65	0.41
10:AI:157:GLU:O	10:AI:160:PHE:HB2	2.19	0.41
12:AK:7:ASP:HB3	12:AK:37:THR:HG21	2.01	0.41
12:AK:71:GLU:H	12:AK:71:GLU:HG2	1.46	0.41
18:AQ:46:PHE:O	18:AQ:50:GLU:N	2.50	0.41
18:AQ:82:ARG:HH12	18:AQ:114:ARG:HB3	1.84	0.41
21:AT:6:VAL:C	21:AT:8:ASP:N	2.78	0.41
30:Ac:32:PHE:N	30:Ac:32:PHE:CD2	2.87	0.41
34:Ag:136:ILE:H	34:Ag:136:ILE:CD1	2.33	0.41
36:A1:249:U:H1'	36:A1:250:U:N3	2.35	0.41
36:A1:1305:U:C2	40:BB:257:PRO:HG3	2.55	0.41
36:A1:1310:G:N7	86:A1:3573:OHX:N5	2.67	0.41
36:A1:1781:C:H2'	36:A1:1782:U:C6	2.55	0.41
36:A1:1941:C:H6	36:A1:1941:C:O5'	2.03	0.41
36:A1:1951:C:H5'	36:A1:1952:G:OP1	2.19	0.41
36:A1:2881:C:H2'	36:A1:2882:U:C6	2.55	0.41
36:A1:2890:A:N1	36:A1:2913:C:N3	2.68	0.41
36:A1:3126:C:H1'	46:BH:156:GLN:NE2	2.35	0.41
36:A1:3242:G:H8	40:BB:154:TYR:CD2	2.38	0.41
86:A1:3520:OHX:N3	86:A1:3717:OHX:N4	2.68	0.41
40:BB:76:VAL:HA	40:BB:326:GLY:N	2.36	0.41
41:BC:268:ALA:O	41:BC:269:SER:HB2	2.20	0.41
41:BC:304:GLN:C	41:BC:306:THR:H	2.29	0.41
45:BG:54:GLU:O	45:BG:58:VAL:HG23	2.20	0.41
46:BH:165:CYS:SG	46:BH:179:ILE:HD12	2.61	0.41
53:BP:41:LEU:O	53:BP:41:LEU:HD22	2.20	0.41
59:BV:18:PRO:HA	59:BV:51:ALA:HA	2.02	0.41
59:BV:63:LYS:HD2	59:BV:63:LYS:HA	1.99	0.41
68:Be:109:LEU:HD21	68:Be:122:PRO:HB3	2.02	0.41
71:Bh:105:ARG:HG3	71:Bh:105:ARG:HH21	1.85	0.41
73:Bj:87:SER:C	86:Bj:101:OHX:N3	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:4:C:H2'	80:A6:5:U:C6	2.55	0.41
80:A6:393:C:OP2	10:CI:2:GLY:N	2.53	0.41
80:A6:675:U:H2'	80:A6:676:G:H8	1.83	0.41
80:A6:1358:G:H2'	80:A6:1359:C:C6	2.55	0.41
80:A6:1623:C:H2'	80:A6:1624:C:H6	1.84	0.41
80:A6:1665:U:C5'	80:A6:1665:U:C6	3.00	0.41
86:A6:1923:OHX:N4	86:A6:1931:OHX:N1	2.68	0.41
2:CA:126:PRO:HG2	2:CA:151:SER:HB3	2.02	0.41
4:CC:140:ARG:HH11	23:CV:10:GLU:CD	2.29	0.41
6:CE:130:GLN:HB3	6:CE:138:TYR:CE2	2.55	0.41
7:CF:89:ILE:HD12	7:CF:90:ILE:H	1.85	0.41
16:CO:43:THR:OG1	16:CO:46:MET:HG3	2.20	0.41
20:CS:112:ASP:O	20:CS:116:LEU:HD22	2.20	0.41
21:CT:77:ASN:HB3	21:CT:95:ASP:HB3	2.02	0.41
33:Cf:123:ASN:HA	33:Cf:124:PRO:HD2	1.65	0.41
34:Cg:5:GLU:HA	34:Cg:317:THR:HA	2.02	0.41
34:Cg:38:ARG:HG2	34:Cg:67:ILE:CG2	2.48	0.41
81:Ch:25:ILE:HG12	37:A7:39:C:H5'	2.01	0.41
36:A5:275:U:H2'	36:A5:276:U:C6	2.54	0.41
36:A5:357:A:H1'	41:DC:80:GLY:O	2.20	0.41
36:A5:594:U:C5'	36:A5:609:G:H1	2.34	0.41
36:A5:735:A:H5''	36:A5:735:A:H8	1.84	0.41
36:A5:806:A:O2'	36:A5:807:A:H5'	2.19	0.41
36:A5:1080:A:P	42:DD:140:ARG:HH21	2.42	0.41
36:A5:1393:A:N3	36:A5:1419:A:O2'	2.50	0.41
36:A5:1403:C:C2	36:A5:1409:G:C2	3.08	0.41
36:A5:1656:A:O2'	86:A5:3706:OHX:N2	2.53	0.41
36:A5:2442:G:C2	36:A5:2443:A:N7	2.89	0.41
36:A5:2590:A:C2'	36:A5:2591:A:O5'	2.67	0.41
36:A5:2897:A:H5''	76:Dm:125:LYS:HD2	2.02	0.41
36:A5:3006:A:H2'	36:A5:3007:U:O4'	2.19	0.41
38:A8:154:C:H5''	45:DG:181:LYS:HD3	2.02	0.41
40:DB:49:TYR:O	40:DB:79:VAL:HG23	2.19	0.41
44:DF:102:VAL:HG12	44:DF:130:ILE:HD12	2.02	0.41
45:DG:53:PRO:HD2	45:DG:56:VAL:HG21	2.02	0.41
47:DI:174:THR:OG1	47:DI:175:ASN:N	2.49	0.41
49:DL:61:PRO:C	49:DL:62:THR:HG23	2.45	0.41
49:DL:122:LYS:HG3	71:Dh:119:LYS:O	2.20	0.41
54:DQ:170:ARG:HD2	64:Da:56:VAL:O	2.20	0.41
56:DS:45:LEU:HA	56:DS:45:LEU:HD22	1.67	0.41
60:DW:125:ALA:C	60:DW:127:LYS:H	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Da:79:TRP:CZ3	64:Da:91:LEU:HD13	2.55	0.41
70:Dg:94:LEU:HD23	70:Dg:94:LEU:HA	1.66	0.41
1:A2:66:U:O2	8:AG:160:ARG:NE	2.53	0.41
1:A2:68:A:H3'	1:A2:68:A:C8	2.55	0.41
1:A2:190:C:C4	1:A2:196:G:C6	3.09	0.41
1:A2:637:C:OP1	24:AW:32:LYS:HG3	2.21	0.41
1:A2:694:U:C5	9:AH:96:ARG:O	2.73	0.41
1:A2:714:G:C6	1:A2:715:U:C2	3.08	0.41
1:A2:1235:C:O2	33:Af:138:ARG:NE	2.53	0.41
1:A2:1244:A:O2'	1:A2:1245:G:P	2.78	0.41
1:A2:1642:G:O6	86:A2:1901:OHX:N6	2.53	0.41
86:A2:1973:OHX:N4	86:A2:1988:OHX:N3	2.68	0.41
86:A2:2024:OHX:N1	86:A2:2072:OHX:N4	2.68	0.41
2:AA:160:ILE:HA	2:AA:161:PRO:HD2	1.93	0.41
2:AA:202:TYR:H	2:AA:202:TYR:HD2	1.68	0.41
3:AB:37:THR:C	3:AB:38:PHE:CG	2.98	0.41
3:AB:90:GLU:HG2	3:AB:223:PHE:HZ	1.84	0.41
3:AB:207:LEU:HB3	3:AB:210:ILE:HD11	2.02	0.41
6:AE:92:LEU:HD12	6:AE:92:LEU:HA	1.92	0.41
8:AG:79:LYS:O	8:AG:80:ASN:HB2	2.19	0.41
8:AG:119:GLN:HG3	8:AG:120:GLU:N	2.35	0.41
9:AH:91:ILE:HD12	9:AH:91:ILE:HA	1.88	0.41
11:AJ:108:ARG:HG2	11:AJ:147:MET:HE2	2.02	0.41
13:AL:87:ARG:HH21	13:AL:104:HIS:CE1	2.38	0.41
16:AO:26:THR:HG21	16:AO:97:GLY:C	2.46	0.41
18:AQ:22:VAL:HG22	18:AQ:65:ILE:CD1	2.49	0.41
19:AR:23:LYS:O	19:AR:24:LEU:HB2	2.20	0.41
20:AS:33:THR:C	20:AS:35:ILE:H	2.28	0.41
22:AU:37:VAL:O	22:AU:41:ILE:HD13	2.21	0.41
22:AU:109:GLU:OE1	22:AU:110:PRO:HD2	2.20	0.41
25:AX:40:SER:HB2	25:AX:41:SER:H	1.59	0.41
27:AZ:65:LEU:HB3	27:AZ:71:ILE:CD1	2.50	0.41
31:Ad:41:GLN:OE1	31:Ad:41:GLN:N	2.51	0.41
34:Ag:10:ARG:HG2	34:Ag:54:PHE:CE1	2.56	0.41
35:Ah:61:ILE:HD12	35:Ah:62:ARG:N	2.35	0.41
36:A1:601:U:O2	36:A1:601:U:H2'	2.21	0.41
36:A1:839:C:H4'	36:A1:1724:U:H2'	2.02	0.41
36:A1:841:A:OP1	55:BR:125:LYS:HE2	2.20	0.41
36:A1:996:A:C2	36:A1:1054:A:C4	3.08	0.41
36:A1:1176:C:OP1	52:BO:25[B]:LYS:HE2	2.20	0.41
36:A1:2653:C:OP1	78:Bo:89:LYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2799:A:H5''	36:A1:2800:G:O5'	2.20	0.41
36:A1:3129:A:OP2	86:A1:3802:OHX:N6	2.54	0.41
86:A1:3538:OHX:N6	86:A3:208:OHX:N5	2.69	0.41
37:A3:76:A:OP2	86:A3:201:OHX:N5	2.53	0.41
37:A3:85:G:O6	86:A3:202:OHX:N4	2.53	0.41
39:BA:65:ASP:HB3	39:BA:68:LYS:O	2.21	0.41
39:BA:171:GLY:O	79:Bp:68:ALA:HB2	2.20	0.41
42:BD:94:ASN:OD1	42:BD:97:ALA:N	2.46	0.41
43:BE:130:ILE:HG21	43:BE:135:VAL:HG23	2.02	0.41
43:BE:163:PHE:CD1	43:BE:163:PHE:C	2.99	0.41
44:BF:158:LYS:HG2	44:BF:159:GLN:N	2.34	0.41
45:BG:42:PRO:HD2	45:BG:44:ARG:NH1	2.36	0.41
45:BG:45:ASN:OD1	61:BX:26:VAL:HG23	2.21	0.41
46:BH:4:ILE:HD11	56:BS:148:LEU:HD11	2.03	0.41
48:BJ:108:GLU:HB2	48:BJ:111:ASP:OD2	2.20	0.41
50:BM:60:LEU:HD13	56:BS:152:LEU:HD11	2.02	0.41
54:BQ:57:ILE:HG22	54:BQ:58:ASN:N	2.35	0.41
54:BQ:159:LYS:HE2	54:BQ:159:LYS:HB3	1.89	0.41
56:BS:66:GLU:CD	56:BS:98:SER:HA	2.45	0.41
63:BZ:124:ALA:O	63:BZ:126:LYS:N	2.54	0.41
64:Ba:131:SER:O	64:Ba:132:LYS:C	2.63	0.41
71:Bh:68:GLN:HA	71:Bh:71:LYS:HB2	2.03	0.41
72:Bi:99:ARG:HB3	72:Bi:100:HIS:H	1.46	0.41
79:Bp:8:VAL:O	79:Bp:9:GLY:C	2.63	0.41
79:Bp:27:LYS:O	79:Bp:31:ILE:HD12	2.20	0.41
80:A6:485:A:C6	80:A6:486:G:H1'	2.55	0.41
80:A6:778:G:O6	26:Cy:10:ARG:HB3	2.20	0.41
80:A6:1729:C:O2'	10:CI:2:GLY:HA2	2.19	0.41
3:CB:226:GLY:HA2	36:A5:2536:A:H4'	2.02	0.41
6:CE:48:LEU:HD12	6:CE:48:LEU:HA	1.71	0.41
6:CE:194:THR:O	6:CE:210:ILE:HG23	2.20	0.41
7:CF:37:GLN:HG2	18:CQ:53:LEU:HD13	2.01	0.41
7:CF:82:PHE:CZ	30:Cc:49:ARG:HD2	2.56	0.41
9:CH:30:SER:CB	9:CH:34:LEU:HD12	2.50	0.41
9:CH:110:GLN:O	9:CH:111:LYS:C	2.63	0.41
11:CJ:141:VAL:HG11	11:CJ:146:PHE:CD2	2.55	0.41
13:CL:34:TRP:CH2	13:CL:36:LYS:HD3	2.55	0.41
17:CP:126:VAL:HG13	81:Ch:71:ASN:HD21	1.85	0.41
20:CS:83:ALA:O	20:CS:86:LEU:HB2	2.19	0.41
27:CZ:88:ILE:O	27:CZ:104:ALA:HA	2.19	0.41
36:A5:314:U:H2'	36:A5:315:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:926:A:H2'	36:A5:927:C:C6	2.54	0.41
36:A5:945:C:H2'	36:A5:946:U:C6	2.56	0.41
36:A5:956:U:H2'	36:A5:957:C:C6	2.55	0.41
36:A5:1307:G:OP2	52:DO:59[B]:ARG:NH1	2.52	0.41
36:A5:1488:G:O2'	70:Dg:10:ARG:O	2.36	0.41
36:A5:1596:C:H2'	36:A5:1597:C:C6	2.55	0.41
36:A5:1763:U:H3'	36:A5:1764:U:C6	2.56	0.41
36:A5:1864:A:H5'	55:DR:88:ARG:HD2	2.02	0.41
36:A5:2799:A:H1'	64:Da:42:ARG:NH2	2.35	0.41
86:A5:3720:OHX:N5	86:A5:3722:OHX:N6	2.68	0.41
37:A7:110:G:C6	37:A7:111:U:C4	3.08	0.41
42:DD:113:LEU:HA	42:DD:113:LEU:HD12	1.68	0.41
44:DF:169:ILE:HD13	44:DF:181:ILE:HA	2.01	0.41
45:DG:71:VAL:CG2	45:DG:76:ALA:HB2	2.50	0.41
82:DK:134:UNK:O	82:DK:136:UNK:N	2.54	0.41
50:DM:59:ASN:O	50:DM:62:GLN:HG2	2.21	0.41
52:DO:49[B]:ARG:O	52:DO:52[B]:LEU:HB2	2.21	0.41
59:DV:87:ARG:HH22	59:DV:137:VAL:CG2	2.31	0.41
1:A2:279:G:C3'	1:A2:279:G:C8	3.03	0.41
1:A2:327:U:O2'	13:AL:10:GLU:HG2	2.21	0.41
1:A2:484:C:O2'	1:A2:485:A:OP1	2.35	0.41
1:A2:568:G:O2'	1:A2:569:C:H5'	2.20	0.41
1:A2:739:G:O6	86:A2:1976:OHX:N4	2.53	0.41
1:A2:773:C:OP1	6:AE:21:ASP:HB2	2.19	0.41
1:A2:794:U:H3'	1:A2:794:U:OP2	2.20	0.41
1:A2:1182:U:O2	1:A2:1184:A:H8	2.04	0.41
1:A2:1334:U:H2'	1:A2:1335:U:H6	1.83	0.41
2:AA:63:ILE:HG12	23:AV:36:VAL:HG22	2.01	0.41
6:AE:141:THR:O	6:AE:143:ASP:N	2.53	0.41
6:AE:208:VAL:HG12	6:AE:210:ILE:HD11	2.02	0.41
9:AH:99:LEU:HD23	9:AH:100:PRO:HD2	2.02	0.41
17:AP:68:PRO:HG2	17:AP:71:GLU:OE2	2.21	0.41
20:AS:27:LYS:HA	20:AS:57:ARG:HE	1.84	0.41
20:AS:47:CYS:HB3	20:AS:54:LEU:CD1	2.50	0.41
25:AX:73:ARG:NE	25:AX:84:THR:HG22	2.27	0.41
34:Ag:236:ALA:C	34:Ag:237:GLN:HG2	2.46	0.41
36:A1:339:C:H5'	36:A1:339:C:C6	2.51	0.41
36:A1:545:U:O2	36:A1:545:U:H2'	2.21	0.41
36:A1:634:C:O3'	68:Be:47:ARG:NH1	2.53	0.41
36:A1:916:G:C5'	36:A1:917:A:OP1	2.65	0.41
36:A1:1026:A:C6	36:A1:1027:A:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1266:G:N2	36:A1:1276:U:H1'	2.35	0.41
36:A1:1608:C:H5''	61:BX:111:ASN:ND2	2.36	0.41
36:A1:1623:G:OP2	86:A1:3587:OHX:N1	2.53	0.41
36:A1:2169:G:O6	86:A1:3455:OHX:N4	2.54	0.41
36:A1:2298:U:OP1	86:A1:3456:OHX:N1	2.53	0.41
36:A1:2642:A:OP2	57:BT:3:LYS:HE3	2.20	0.41
36:A1:3217:C:O2	36:A1:3217:C:H2'	2.20	0.41
36:A1:3282:U:O5'	36:A1:3282:U:H6	2.03	0.41
36:A1:3354:U:H5''	36:A1:3355:U:O5'	2.20	0.41
86:A1:3608:OHX:N4	86:A1:3739:OHX:N2	2.68	0.41
38:A4:145:U:H2'	38:A4:146:U:O4'	2.20	0.41
39:BA:114:SER:HB2	39:BA:169:ILE:CD1	2.50	0.41
41:BC:265:GLU:H	41:BC:265:GLU:CD	2.27	0.41
42:BD:105:ILE:HD13	42:BD:105:ILE:HA	1.81	0.41
42:BD:155:THR:HB	42:BD:179:ARG:HD3	2.01	0.41
42:BD:159:VAL:HG12	42:BD:160:PHE:CD1	2.56	0.41
42:BD:279:LYS:HE3	42:BD:282:ARG:NH1	2.36	0.41
43:BE:175:LYS:HD3	50:BM:111:ALA:O	2.21	0.41
47:BI:61:SER:HB2	47:BI:63:GLU:HG2	2.02	0.41
49:BL:93:ILE:HA	49:BL:93:ILE:HD13	1.66	0.41
49:BL:144:THR:HB	49:BL:145:PHE:CD2	2.55	0.41
51:BN:11:GLN:O	51:BN:14:LYS:HE3	2.21	0.41
53:BP:131:ARG:HH11	53:BP:131:ARG:HD3	1.69	0.41
55:BR:159:ALA:O	55:BR:163:ARG:HD3	2.21	0.41
58:BU:50:LEU:O	58:BU:52:ASN:N	2.54	0.41
62:BY:60:ARG:HD3	62:BY:60:ARG:HA	1.82	0.41
67:Bd:19:ARG:HB3	67:Bd:35:GLU:HG2	2.02	0.41
70:Bg:58:ARG:CG	70:Bg:58:ARG:NH1	2.81	0.41
71:Bh:73:LYS:HE3	71:Bh:73:LYS:HB3	1.66	0.41
73:Bj:24:ARG:O	73:Bj:25:ARG:CB	2.66	0.41
80:A6:30:G:H2'	80:A6:31:C:C6	2.55	0.41
80:A6:115:G:OP1	13:CL:67:ARG:NE	2.49	0.41
80:A6:318:U:O4	86:A6:2019:OHX:N4	2.53	0.41
80:A6:577:G:C8	80:A6:577:G:C3'	3.04	0.41
80:A6:678:A:H2'	80:A6:679:U:O4'	2.20	0.41
80:A6:779:U:HO2'	80:A6:780:A:P	2.41	0.41
80:A6:788:A:H3'	6:CE:108:ARG:HH22	1.86	0.41
80:A6:1045:C:OP1	3:CB:153:HIS:HE1	2.01	0.41
80:A6:1259:U:C2	80:A6:1260:U:C5	3.08	0.41
80:A6:1555:A:OP2	17:CP:47:ARG:NH2	2.53	0.41
2:CA:71:GLU:HG2	2:CA:72:ASP:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CA:123:VAL:HG11	2:CA:133:ILE:HD11	2.02	0.41
5:CD:64:ARG:HG2	5:CD:65:ARG:H	1.85	0.41
5:CD:110:LEU:HD22	5:CD:178:ARG:HH22	1.85	0.41
5:CD:113:LEU:HB3	5:CD:114:ALA:H	1.54	0.41
9:CH:166:LEU:O	9:CH:168:SER:N	2.53	0.41
13:CL:109:VAL:HG21	13:CL:125:VAL:HG11	2.02	0.41
17:CP:130:ARG:NH1	81:Ch:71:ASN:OD1	2.53	0.41
18:CQ:39:VAL:HG12	18:CQ:41:PRO:HD2	2.02	0.41
22:CU:34:LEU:HD21	22:CU:89:ARG:HD2	2.02	0.41
22:CU:83:GLU:HG3	31:Cd:55:PHE:CD2	2.52	0.41
81:Ch:74:LYS:HB2	81:Ch:74:LYS:HE2	1.83	0.41
36:A5:36:C:C2'	36:A5:37:U:H5'	2.51	0.41
36:A5:243:G:H2'	36:A5:244:G:H8	1.83	0.41
36:A5:748:U:H2'	36:A5:749:C:C6	2.55	0.41
36:A5:817:A:O2'	73:Dj:11:ARG:HG2	2.19	0.41
36:A5:860:G:C5	39:DA:181:LYS:HB2	2.54	0.41
36:A5:1190:A:C8	36:A5:1193:A:H1'	2.55	0.41
36:A5:1256:G:O6	36:A5:1261:G:N2	2.54	0.41
36:A5:2667:A:H8	36:A5:2667:A:C5'	2.28	0.41
36:A5:2995:A:O5'	36:A5:2995:A:H8	2.03	0.41
36:A5:3158:G:C5	36:A5:3159:C:C5	3.08	0.41
37:A7:24:A:H2'	37:A7:25:G:O4'	2.21	0.41
37:A7:55:A:H2'	37:A7:56:A:O4'	2.20	0.41
42:DD:33:ARG:O	42:DD:34:LYS:C	2.63	0.41
42:DD:92:LEU:HD23	42:DD:92:LEU:HA	1.68	0.41
43:DE:173:MET:HE3	43:DE:173:MET:HB3	1.46	0.41
46:DH:156:GLN:NE2	46:DH:160:ASP:OD1	2.46	0.41
46:DH:166:ARG:O	46:DH:167:VAL:HB	2.20	0.41
48:DJ:92:ARG:HH11	48:DJ:92:ARG:CG	2.25	0.41
49:DL:46:ILE:HG23	49:DL:46:ILE:HD12	1.80	0.41
50:DM:47:ASP:CG	50:DM:55:ARG:HB2	2.46	0.41
50:DM:62:GLN:HG2	50:DM:62:GLN:H	1.78	0.41
51:DN:28:TRP:O	51:DN:32:GLN:HG2	2.21	0.41
54:DQ:161:LYS:HD2	54:DQ:161:LYS:N	2.35	0.41
55:DR:5:ARG:CZ	55:DR:5:ARG:HB2	2.49	0.41
56:DS:82:ASP:OD1	56:DS:87:THR:HB	2.20	0.41
63:DZ:121:ARG:HH11	63:DZ:121:ARG:HG3	1.85	0.41
71:Dh:85:THR:HG22	71:Dh:88:LEU:HB2	2.02	0.41
78:Do:73:GLU:HG3	78:Do:80:ARG:HG2	2.01	0.41
79:Dp:20:SER:O	79:Dp:24:ARG:HB2	2.20	0.41
79:Dp:80:ARG:HE	79:Dp:80:ARG:HB2	1.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Dq:48:ARG:HH21	83:Dq:91:GLU:HG3	1.86	0.41
1:A2:23:G:O2'	1:A2:368:U:OP1	2.38	0.41
1:A2:284:G:N7	8:AG:188:ARG:NH1	2.68	0.41
1:A2:948:G:H2'	1:A2:949:C:O4'	2.21	0.41
1:A2:1151:A:H2'	1:A2:1152:A:H8	1.85	0.41
1:A2:1201:G:H22	1:A2:1600:A:H5'	1.85	0.41
1:A2:1253:U:H4'	33:Af:143:LYS:CB	2.50	0.41
1:A2:1654:G:H2'	1:A2:1745:G:N2	2.35	0.41
1:A2:1740:A:O2'	1:A2:1741:U:H5'	2.20	0.41
2:AA:35:PRO:HG3	23:AV:87:ARG:HH21	1.85	0.41
2:AA:198:MET:SD	2:AA:199:PRO:HD2	2.61	0.41
3:AB:72:ASP:OD1	16:AO:114:ARG:HD2	2.20	0.41
4:AC:230:TRP:CE2	24:AW:68:ARG:HB3	2.55	0.41
6:AE:68:ARG:NH1	6:AE:76:VAL:HG21	2.35	0.41
8:AG:27:PHE:C	8:AG:30:LYS:HG2	2.45	0.41
12:AK:50:THR:HB	12:AK:55:VAL:O	2.19	0.41
17:AP:108:ARG:HD2	17:AP:110:GLU:OE1	2.19	0.41
18:AQ:4:VAL:HG12	18:AQ:5:PRO:HD2	2.03	0.41
18:AQ:127:LYS:HA	18:AQ:134:ALA:HA	2.02	0.41
26:AY:44:LEU:HA	26:AY:47:VAL:CG2	2.51	0.41
32:Ae:34:ALA:O	32:Ae:37:ARG:HB3	2.20	0.41
36:A1:291:C:OP1	51:BN:68:ARG:HG2	2.21	0.41
36:A1:608:A:C5	43:BE:22:ARG:NH1	2.89	0.41
36:A1:619:A:H5'	36:A1:620:U:O4'	2.20	0.41
36:A1:1080:A:OP1	42:BD:140:ARG:HB2	2.21	0.41
36:A1:1231:A:N1	36:A1:1279:C:N4	2.68	0.41
36:A1:2525:G:C8	36:A1:2525:G:H3'	2.56	0.41
36:A1:2846:U:O2	36:A1:2846:U:O4'	2.37	0.41
36:A1:2986:U:H2'	36:A1:2987:A:C8	2.56	0.41
36:A1:3055:U:H6	36:A1:3055:U:O5'	2.03	0.41
36:A1:3139:A:H2'	36:A1:3140:G:O4'	2.21	0.41
36:A1:3353:G:H4'	36:A1:3354:U:OP2	2.21	0.41
86:A1:3478:OHX:N6	86:A1:3788:OHX:N5	2.67	0.41
86:A1:3659:OHX:N1	86:A1:3719:OHX:N2	2.68	0.41
37:A3:9:C:H2'	37:A3:10:C:H5'	2.02	0.41
37:A3:56:A:O2'	48:BJ:148:VAL:HG22	2.20	0.41
40:BB:53:MET:HE1	40:BB:327:CYS:HB2	2.02	0.41
42:BD:254:LYS:HA	42:BD:255:PRO:HD2	1.96	0.41
44:BF:80:GLN:HB2	57:BT:135:PRO:HB2	2.03	0.41
45:BG:36:ILE:O	45:BG:38:GLN:HG2	2.21	0.41
45:BG:73:PRO:HD3	45:BG:233:TRP:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BJ:7:ASN:HA	48:BJ:8:PRO:HD3	1.57	0.41
51:BN:184:LYS:H	51:BN:186:GLY:H	1.68	0.41
52:BO:138[A]:LEU:HD12	52:BO:138[A]:LEU:HA	1.75	0.41
53:BP:169:THR:CG2	69:Bf:60:ARG:HH11	2.31	0.41
56:BS:40:ARG:HA	56:BS:40:ARG:HD2	1.47	0.41
62:BY:58:VAL:HG22	62:BY:104:LEU:CD2	2.50	0.41
80:A6:57:G:O6	86:A6:1946:OHX:N6	2.52	0.41
80:A6:540:G:O2'	80:A6:542:A:H5'	2.21	0.41
80:A6:587:C:H2'	80:A6:588:U:O4'	2.21	0.41
80:A6:1097:U:H4'	80:A6:1098:U:C5'	2.50	0.41
80:A6:1535:U:O2'	80:A6:1536:G:O5'	2.38	0.41
80:A6:1541:G:C6	80:A6:1542:G:N1	2.89	0.41
80:A6:1619:C:C2	30:Cc:22:ARG:HD2	2.55	0.41
2:CA:41:ARG:HD3	19:CR:103:ASP:CB	2.50	0.41
2:CA:105:GLY:O	2:CA:108:THR:O	2.38	0.41
3:CB:30:PHE:CD1	3:CB:94:LYS:HA	2.55	0.41
6:CE:212:ASP:OD1	6:CE:216:ASN:HB2	2.21	0.41
7:CF:37:GLN:OE1	18:CQ:53:LEU:HD22	2.20	0.41
10:CI:106:ALA:HB2	10:CI:165:LEU:HG	2.01	0.41
11:CJ:171:ARG:NE	11:CJ:171:ARG:HA	2.36	0.41
14:CM:71:ILE:O	14:CM:75:VAL:HG23	2.20	0.41
16:CO:68:ALA:HA	16:CO:71:CYS:HB2	2.03	0.41
17:CP:86:VAL:HB	17:CP:87:PRO:HD2	2.02	0.41
17:CP:116:LEU:HD23	17:CP:116:LEU:HA	1.85	0.41
18:CQ:129:PHE:CE1	22:CU:78:THR:HA	2.55	0.41
20:CS:84:TRP:HA	20:CS:89:GLN:HE22	1.86	0.41
23:CV:5:LYS:O	23:CV:5:LYS:HG2	2.21	0.41
25:CX:17:VAL:HG23	25:CX:20:ARG:NH2	2.35	0.41
27:CZ:55:PRO:HG3	27:CZ:88:ILE:HG23	2.02	0.41
28:Ca:62:TYR:CG	28:Ca:63:ALA:N	2.89	0.41
34:Cg:29:GLN:HA	34:Cg:30:PRO:HD2	1.93	0.41
34:Cg:249:ARG:NH2	34:Cg:315:VAL:HG11	2.35	0.41
81:Ch:65:THR:O	81:Ch:70:ASN:ND2	2.32	0.41
36:A5:93:C:OP2	36:A5:2764:C:O2'	2.37	0.41
36:A5:173:G:N1	36:A5:246:U:C2	2.88	0.41
36:A5:1253:U:O2	36:A5:1263:A:H5'	2.21	0.41
36:A5:1382:G:OP2	41:DC:188:ARG:NH1	2.46	0.41
36:A5:1932:A:H5'	36:A5:1933:A:OP2	2.19	0.41
36:A5:1939:G:C6	36:A5:2110:G:O6	2.74	0.41
36:A5:2298:U:C5	36:A5:2921:U:H1'	2.56	0.41
36:A5:2568:C:O2'	36:A5:2569:A:O5'	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:2900:A:N3	36:A5:3025:C:O2'	2.50	0.41
36:A5:3288:G:O2'	36:A5:3289:G:P	2.78	0.41
86:A5:3491:OHX:N3	86:A5:3734:OHX:N4	2.68	0.41
86:A5:3538:OHX:N4	86:A5:3759:OHX:N3	2.68	0.41
86:A5:3606:OHX:N3	86:A5:3740:OHX:N1	2.68	0.41
86:A5:3640:OHX:N3	86:A5:3741:OHX:N1	2.69	0.41
40:DB:221:THR:HG22	40:DB:272:TYR:N	2.36	0.41
41:DC:52:VAL:HB	41:DC:99:MET:CE	2.51	0.41
44:DF:121:LYS:HB2	57:DT:133:ALA:HB3	2.03	0.41
46:DH:117:PHE:CZ	46:DH:165:CYS:HB3	2.55	0.41
52:DO:121[A]:PRO:HA	52:DO:124[A]:LEU:HD22	2.02	0.41
57:DT:68:THR:HG23	57:DT:69:LYS:N	2.35	0.41
61:DX:55:ASN:OD1	61:DX:56:ARG:O	2.39	0.41
62:DY:50:ILE:HD12	62:DY:70:ILE:HG12	2.02	0.41
71:Dh:83:LYS:O	71:Dh:84:LYS:C	2.61	0.41
72:Di:76:ARG:HA	72:Di:76:ARG:HE	1.85	0.41
79:Dp:30:GLU:HG2	79:Dp:34:HIS:NE2	2.36	0.41
1:A2:81:G:C6	1:A2:82:U:N3	2.88	0.41
1:A2:732:G:N1	86:A2:2012:OHX:N3	2.68	0.41
1:A2:1042:G:C6	1:A2:1043:A:N7	2.89	0.41
1:A2:1138:A:H2'	1:A2:1139:A:H8	1.85	0.41
1:A2:1172:G:C5	1:A2:1173:C:C4	3.09	0.41
1:A2:1235:C:C2	33:Af:138:ARG:CZ	3.03	0.41
1:A2:1462:G:N7	20:AS:143:ARG:NH2	2.69	0.41
1:A2:1479:A:P	21:AT:57:ARG:HH12	2.44	0.41
1:A2:1756[A]:A:H8	1:A2:1756[A]:A:OP2	2.04	0.41
1:A2:1766:A:N1	28:Aa:80:HIS:ND1	2.55	0.41
2:AA:13:ASP:O	2:AA:16:LEU:HB2	2.21	0.41
5:AD:195:SER:O	5:AD:196:ARG:HB3	2.20	0.41
6:AE:104:ASP:HB3	6:AE:106:LYS:N	2.33	0.41
12:AK:11:ILE:HD12	12:AK:42:VAL:HA	2.03	0.41
13:AL:118:GLN:HG3	13:AL:119:VAL:N	2.35	0.41
17:AP:75:PRO:HA	17:AP:93:VAL:HG12	2.03	0.41
24:AW:6:VAL:HG13	24:AW:29:PRO:HD2	2.02	0.41
25:AX:23:ARG:HH11	25:AX:23:ARG:HG3	1.85	0.41
27:AZ:67:ASP:C	27:AZ:69:LEU:H	2.29	0.41
34:Ag:52:GLN:CD	34:Ag:52:GLN:H	2.29	0.41
36:A1:44:U:OP1	51:BN:84:PRO:HG2	2.20	0.41
36:A1:165:A:H2'	36:A1:166:C:O4'	2.21	0.41
36:A1:199:A:C4	36:A1:201:A:C8	3.09	0.41
36:A1:290:G:OP1	51:BN:98:LEU:HD22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:373:A:H62	36:A1:396:A:N6	2.19	0.41
36:A1:623:U:H2'	36:A1:624:G:O5'	2.20	0.41
36:A1:871:U:H2'	36:A1:872:U:H6	1.84	0.41
36:A1:1470:U:H2'	36:A1:1471:U:C6	2.55	0.41
36:A1:2585:G:C6	61:BX:24:LEU:HD13	2.56	0.41
36:A1:2622:C:H2'	36:A1:2623:G:H5'	2.03	0.41
36:A1:3267:A:H2'	43:BE:69:PHE:CE1	2.56	0.41
37:A3:27:A:OP2	42:BD:57:ASN:HB2	2.19	0.41
38:A4:23:U:C1'	62:BY:17:LYS:HG2	2.51	0.41
40:BB:153:LYS:HG2	40:BB:154:TYR:CZ	2.55	0.41
40:BB:167:ARG:O	86:BB:401:OHX:N4	2.54	0.41
41:BC:74:ILE:N	41:BC:74:ILE:HD12	2.35	0.41
43:BE:42:LEU:HD12	43:BE:47:PHE:O	2.20	0.41
43:BE:42:LEU:HD22	43:BE:79:VAL:HG21	2.03	0.41
44:BF:163:LEU:HD23	44:BF:163:LEU:HA	1.60	0.41
48:BJ:27:GLY:O	48:BJ:31:THR:HG23	2.20	0.41
49:BL:54:LEU:HG	49:BL:119:TYR:CD1	2.56	0.41
59:BV:74:MET:HG3	59:BV:102:ILE:HD13	2.01	0.41
59:BV:93:LEU:HD23	59:BV:93:LEU:N	2.35	0.41
61:BX:132:ALA:O	61:BX:136:ALA:N	2.52	0.41
64:Ba:60:TYR:CD1	64:Ba:60:TYR:C	2.99	0.41
69:Bf:59:VAL:C	69:Bf:61:GLY:N	2.79	0.41
80:A6:40:A:H2'	80:A6:41:A:O4'	2.21	0.41
80:A6:138:A:C8	80:A6:142:G:H5'	2.56	0.41
80:A6:680:U:C2	80:A6:682:C:N4	2.89	0.41
80:A6:713:A:O5'	80:A6:713:A:H8	2.03	0.41
80:A6:823:G:C5	80:A6:850:A:C2	3.08	0.41
80:A6:1234:A:HO2'	80:A6:1235:C:H6	1.67	0.41
2:CA:41:ARG:CB	2:CA:45:VAL:HG23	2.51	0.41
2:CA:64:ILE:HD13	2:CA:122:ILE:HD11	2.03	0.41
3:CB:40:ASN:OD1	3:CB:40:ASN:N	2.54	0.41
3:CB:59:ASP:C	3:CB:61:LEU:H	2.27	0.41
5:CD:164:VAL:HG23	5:CD:168:ILE:HG12	2.02	0.41
6:CE:181:VAL:O	6:CE:192:ILE:HA	2.21	0.41
7:CF:27:THR:HA	7:CF:28:PRO:HD2	1.74	0.41
8:CG:98:ARG:HH11	8:CG:105:ASP:CG	2.29	0.41
8:CG:214:LYS:HA	8:CG:217:SER:HB2	2.02	0.41
11:CJ:27:GLU:OE1	11:CJ:39:LYS:NZ	2.49	0.41
11:CJ:133:HIS:C	11:CJ:134:ILE:HG13	2.45	0.41
12:CK:32:HIS:CD2	12:CK:34:GLU:O	2.73	0.41
15:CN:54:LEU:HD22	15:CN:60:VAL:HG11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CO:29:HIS:CD2	16:CO:41:ARG:HB2	2.56	0.41
20:CS:143:ARG:C	20:CS:145:ARG:N	2.78	0.41
21:CT:15:ILE:HD13	21:CT:60:SER:HA	2.02	0.41
23:CV:56:SER:OG	23:CV:59:VAL:HG23	2.20	0.41
36:A5:174:C:H2'	36:A5:175:C:O4'	2.21	0.41
36:A5:289:A:N3	51:DN:93:LYS:HG3	2.36	0.41
36:A5:729:C:O2'	54:DQ:79:LYS:HE2	2.21	0.41
36:A5:1449:A:C2	36:A5:2356:A:C4	3.08	0.41
36:A5:1648:A:H2'	36:A5:1649:U:O4'	2.19	0.41
36:A5:2534:G:H8	36:A5:2534:G:OP2	2.03	0.41
36:A5:2775:U:H2'	36:A5:2776:C:C6	2.56	0.41
39:DA:242:ARG:HG3	39:DA:242:ARG:HH11	1.84	0.41
40:DB:57:VAL:HG23	40:DB:358:TRP:HE3	1.86	0.41
40:DB:360:ASP:OD1	40:DB:361:THR:N	2.52	0.41
45:DG:95:ASN:CG	45:DG:98:ARG:HH12	2.23	0.41
45:DG:187:GLY:C	45:DG:189:LEU:H	2.28	0.41
45:DG:229:VAL:C	45:DG:231:LYS:H	2.29	0.41
46:DH:13:PRO:HG2	46:DH:16:VAL:HG13	2.02	0.41
48:DJ:151:SER:O	48:DJ:152:HIS:CB	2.68	0.41
62:DY:37:LYS:HE2	62:DY:37:LYS:H	1.85	0.41
63:DZ:46:ILE:HD12	63:DZ:46:ILE:C	2.46	0.41
66:Dc:56:LEU:HD23	66:Dc:56:LEU:HA	1.87	0.41
68:De:11:LYS:HD3	68:De:11:LYS:HA	1.87	0.41
78:Do:93:LEU:HD12	78:Do:93:LEU:N	2.35	0.41
1:A2:812:A:OP1	1:A2:814:A:C8	2.73	0.41
1:A2:992:A:H2'	1:A2:993:A:H5'	2.02	0.41
1:A2:1433:G:N2	31:Ad:45:GLU:OE1	2.54	0.41
2:AA:162:CYS:HB3	2:AA:163:ASN:H	1.35	0.41
6:AE:114:ILE:HB	6:AE:118:GLU:OE2	2.20	0.41
6:AE:121:TYR:HA	6:AE:163:ASP:O	2.21	0.41
9:AH:74:GLN:O	9:AH:75:THR:C	2.63	0.41
16:AO:41:ARG:O	16:AO:42:VAL:HG22	2.21	0.41
21:AT:49:ASP:O	21:AT:51:GLU:N	2.54	0.41
23:AV:21:ASN:OD1	24:AW:23:ARG:NH2	2.53	0.41
26:AY:14:SER:HB3	26:AY:21:LYS:HE3	2.02	0.41
28:Aa:82:ARG:O	28:Aa:84:VAL:HG12	2.20	0.41
33:Af:102:VAL:HB	33:Af:103:LEU:H	1.68	0.41
36:A1:156:G:OP2	72:Bi:25:LYS:HB3	2.20	0.41
36:A1:275:U:H2'	36:A1:276:U:C6	2.55	0.41
36:A1:1081:U:O5'	86:A1:3746:OHX:N6	2.53	0.41
36:A1:1098:A:OP2	57:BT:129:LYS:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:1492:G:N7	75:Bl:2:ALA:HB3	2.33	0.41
36:A1:1561:G:N2	36:A1:1578:C:N3	2.68	0.41
36:A1:2117:A:H4'	36:A1:3081:C:O4'	2.20	0.41
36:A1:2367:A:H2'	36:A1:2368:A:C8	2.56	0.41
36:A1:2574:G:O2'	36:A1:2575:G:H5'	2.21	0.41
36:A1:2777:G:H5''	36:A1:2778:G:P	2.61	0.41
36:A1:2984:C:H2'	36:A1:2985:C:C6	2.56	0.41
36:A1:3102:G:O6	86:A1:3439:OHX:N3	2.54	0.41
36:A1:3193:C:H2'	36:A1:3194:C:O4'	2.20	0.41
86:A1:3604:OHX:N6	86:A1:3816:OHX:N5	2.68	0.41
40:BB:232:ARG:NH1	40:BB:269:GLN:O	2.53	0.41
42:BD:56:THR:C	42:BD:58:LYS:N	2.78	0.41
43:BE:136:GLU:O	43:BE:140:VAL:HG23	2.21	0.41
48:BJ:139:THR:HG22	48:BJ:147:THR:HA	2.02	0.41
48:BJ:159:THR:O	48:BJ:162:TRP:HB3	2.21	0.41
51:BN:143:ARG:HH11	51:BN:143:ARG:HD2	1.74	0.41
54:BQ:131:ALA:N	54:BQ:132:PRO:HD3	2.36	0.41
54:BQ:178:ARG:HA	54:BQ:178:ARG:HD3	1.66	0.41
56:BS:132:THR:O	56:BS:133:ALA:HB3	2.20	0.41
60:BW:38:SER:O	60:BW:42:GLN:HG3	2.20	0.41
67:Bd:86:LYS:HD2	67:Bd:86:LYS:H	1.86	0.41
70:Bg:67:LYS:O	70:Bg:67:LYS:HG3	2.19	0.41
80:A6:29:U:H2'	80:A6:30:G:H8	1.86	0.41
80:A6:1366:U:O2'	21:CT:7:ARG:HD2	2.20	0.41
80:A6:1635:A:H5'	80:A6:1638:G:H4'	2.03	0.41
2:CA:24:LEU:O	2:CA:163:ASN:ND2	2.50	0.41
2:CA:41:ARG:HB2	2:CA:45:VAL:HG23	2.03	0.41
2:CA:103:THR:HA	2:CA:104:PRO:HD3	1.85	0.41
3:CB:180:THR:HG23	3:CB:183:GLN:OE1	2.20	0.41
4:CC:180:ALA:HB2	4:CC:198:THR:HG21	2.01	0.41
4:CC:244:SER:OG	4:CC:245:ASP:N	2.53	0.41
8:CG:5:ILE:O	8:CG:13:GLN:HA	2.21	0.41
9:CH:16:LEU:O	9:CH:20:VAL:HG23	2.20	0.41
9:CH:46:ILE:HG23	9:CH:59:ALA:O	2.21	0.41
25:CX:33:LEU:HD23	25:CX:33:LEU:HA	1.70	0.41
25:CX:102:VAL:HG12	25:CX:127:VAL:HG23	2.03	0.41
26:CY:34:ASN:HB3	26:CY:35:VAL:H	1.63	0.41
26:CY:124:ARG:O	26:CY:127:LYS:HB3	2.21	0.41
27:CZ:51:LEU:HD12	27:CZ:51:LEU:H	1.85	0.41
36:A5:726:G:C8	36:A5:726:G:C5'	3.01	0.41
36:A5:993:G:N3	36:A5:2637:A:H2'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:1097:G:OP1	57:DT:129:LYS:NZ	2.51	0.41
36:A5:1597:C:H5'	36:A5:1696:A:H1'	2.01	0.41
36:A5:1622:U:H2'	36:A5:1623:G:O4'	2.20	0.41
36:A5:1821:U:H4'	36:A5:1822:C:OP2	2.21	0.41
36:A5:2191:U:H2'	36:A5:2192:C:O4'	2.20	0.41
36:A5:2222:A:H8	36:A5:2222:A:O5'	2.04	0.41
36:A5:2313:A:H4'	36:A5:2314:U:C5'	2.50	0.41
36:A5:2405:C:O2	36:A5:2819:A:N1	2.53	0.41
36:A5:2655:U:H2'	78:Do:3:ASN:O	2.21	0.41
36:A5:2988:C:P	52:DO:68[A]:ARG:NH1	2.94	0.41
36:A5:3349:C:H2'	36:A5:3350:C:O4'	2.20	0.41
38:A8:135:G:OP1	61:DX:49:LYS:HE3	2.20	0.41
40:DB:4:ARG:HH11	40:DB:4:ARG:HG3	1.84	0.41
47:DI:212:GLU:C	47:DI:214:PRO:HD3	2.46	0.41
48:DJ:110:ILE:HD13	48:DJ:122:ILE:HD11	2.03	0.41
82:DK:16:UNK:O	82:DK:61:UNK:N	2.54	0.41
49:DL:59:ARG:O	49:DL:60:ALA:HB3	2.20	0.41
63:DZ:17:ARG:HG2	70:Dg:73:SER:O	2.19	0.41
63:DZ:95:VAL:CG1	63:DZ:110:ALA:HA	2.50	0.41
1:A2:304:U:OP1	13:AL:136:ARG:HD3	2.20	0.41
1:A2:499:U:H2'	1:A2:500:C:C6	2.55	0.41
1:A2:1233:G:OP2	86:A2:2044:OHX:N1	2.54	0.41
1:A2:1253:U:H4'	33:Af:143:LYS:N	2.36	0.41
86:A2:1962:OHX:N3	86:A2:1964:OHX:N1	2.68	0.41
2:AA:111:ILE:HA	2:AA:111:ILE:HD12	1.90	0.41
5:AD:66:ILE:O	5:AD:70:THR:HG23	2.20	0.41
8:AG:85:ARG:HA	8:AG:86:PRO:HD3	1.75	0.41
9:AH:51:VAL:HG23	9:AH:53:GLY:N	2.34	0.41
10:AI:103:GLN:NE2	10:AI:166:TYR:CE1	2.89	0.41
14:AM:55:GLY:HA2	14:AM:85:LYS:CD	2.50	0.41
14:AM:131:ASP:OD1	14:AM:132:GLU:N	2.53	0.41
15:AN:61:THR:HG22	29:Ab:32:PHE:CZ	2.56	0.41
17:AP:128:HIS:O	17:AP:130:ARG:HG2	2.20	0.41
20:AS:29:VAL:HA	20:AS:32:LEU:HD12	2.03	0.41
20:AS:109:LEU:HG	20:AS:113:LEU:CD1	2.50	0.41
24:AW:80:ASN:ND2	24:AW:124:LYS:HG2	2.34	0.41
25:AX:28:ASN:OD1	25:AX:28:ASN:N	2.48	0.41
25:AX:90:ASP:OD1	32:Ae:15:LYS:N	2.53	0.41
26:AY:94:TYR:CD2	26:AY:96:LEU:HD11	2.55	0.41
34:Ag:98:GLU:HG3	34:Ag:99:THR:O	2.20	0.41
36:A1:372:A:O2'	36:A1:373:A:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:694:C:OP2	41:BC:118:LYS:HE2	2.21	0.41
36:A1:953:G:O2'	36:A1:1116:G:H5'	2.21	0.41
36:A1:1191:U:H4'	36:A1:1192:C:H5'	2.02	0.41
36:A1:1554:U:O2'	36:A1:1582:C:H5	2.03	0.41
36:A1:1581:C:C3'	36:A1:1582:C:H5''	2.51	0.41
36:A1:2508:U:H2'	36:A1:2509:U:O4'	2.21	0.41
36:A1:3089:C:H2'	36:A1:3090:U:O4'	2.21	0.41
86:A1:3505:OHX:N5	86:A1:3813:OHX:N1	2.69	0.41
38:A4:5:U:H2'	38:A4:6:U:C6	2.56	0.41
38:A4:154:C:H2'	38:A4:155:A:O4'	2.21	0.41
39:BA:206:PRO:HD3	39:BA:213:GLY:CA	2.51	0.41
40:BB:37:ARG:HA	40:BB:186:GLY:HA2	2.02	0.41
40:BB:116:ARG:HG2	40:BB:175:LYS:CA	2.49	0.41
40:BB:320:ASP:OD2	40:BB:320:ASP:N	2.43	0.41
51:BN:37:HIS:HE1	51:BN:63:ARG:NH1	2.00	0.41
51:BN:114:ARG:HA	51:BN:114:ARG:HD3	1.93	0.41
54:BQ:86:THR:HG22	54:BQ:105:ARG:HB2	2.01	0.41
56:BS:1:MET:SD	56:BS:36:ILE:HD13	2.61	0.41
56:BS:129:ILE:HD13	56:BS:129:ILE:HG21	1.90	0.41
60:BW:4:GLU:HG2	60:BW:30:ARG:NE	2.34	0.41
60:BW:52:THR:O	60:BW:56:ARG:HG3	2.21	0.41
65:Bb:23:LYS:HE3	65:Bb:24:PRO:HD3	2.02	0.41
66:Bc:73:GLY:O	66:Bc:76:GLU:HG2	2.21	0.41
67:Bd:54:GLU:OE2	67:Bd:54:GLU:N	2.48	0.41
70:Bg:58:ARG:HG3	70:Bg:58:ARG:NH1	2.36	0.41
74:Bk:59:ALA:O	74:Bk:62:ALA:HB3	2.20	0.41
75:Bl:27:ILE:C	75:Bl:29:LEU:H	2.28	0.41
80:A6:189:C:O5'	80:A6:189:C:H6	2.03	0.41
80:A6:196:G:C2	80:A6:197:A:H1'	2.55	0.41
80:A6:495:C:H3'	80:A6:496:G:C5'	2.50	0.41
80:A6:563:U:C4	80:A6:564:G:C6	3.08	0.41
80:A6:747:C:OP1	86:A6:2090:OHX:N3	2.54	0.41
80:A6:1616:G:H4'	30:Cc:18:ARG:NH1	2.36	0.41
80:A6:1715:G:N1	80:A6:1716:C:C4	2.89	0.41
3:CB:83:LYS:O	3:CB:103:MET:HA	2.20	0.41
6:CE:57:ASN:HB2	6:CE:60:GLU:H	1.86	0.41
6:CE:121:TYR:CD2	6:CE:161:LYS:HE3	2.56	0.41
9:CH:56:LYS:HB2	9:CH:88:ARG:HH11	1.86	0.41
11:CJ:66:ASP:HB3	11:CJ:69:ARG:HB3	2.02	0.41
14:CM:32:LEU:O	14:CM:36:LEU:HD12	2.21	0.41
20:CS:62:THR:OG1	20:CS:64:GLU:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CU:80:GLU:OE1	31:Cd:44:ARG:HD2	2.21	0.41
23:CV:13:VAL:HA	23:CV:14:PRO:HD3	1.87	0.41
26:CY:25:VAL:O	26:CY:70:VAL:HA	2.19	0.41
30:Cc:5:THR:O	30:Cc:7:VAL:N	2.52	0.41
81:Ch:65:THR:O	81:Ch:67:GLY:N	2.51	0.41
36:A5:531:G:O6	86:A5:3732:OHX:N4	2.53	0.41
36:A5:971:G:H2'	36:A5:972:A:O4'	2.20	0.41
36:A5:973:A:H5''	36:A5:974:G:OP2	2.21	0.41
36:A5:3205:G:H2'	36:A5:3206:C:C5	2.56	0.41
37:A7:4:U:H2'	37:A7:5:G:C8	2.56	0.41
38:A8:67:U:H5''	73:Dj:85:LYS:HB2	2.03	0.41
38:A8:145:U:H2'	38:A8:146:U:H6	1.86	0.41
38:A8:156:U:HO2'	38:A8:157:U:P	2.40	0.41
39:DA:34:TYR:O	39:DA:35:ALA:C	2.62	0.41
42:DD:257:GLU:CD	42:DD:257:GLU:N	2.79	0.41
44:DF:22:THR:HA	44:DF:25:GLN:OE1	2.20	0.41
46:DH:89:LYS:HG2	46:DH:145:VAL:HG22	2.02	0.41
51:DN:102:ALA:O	51:DN:106:VAL:HG13	2.21	0.41
52:DO:157[B]:GLU:O	52:DO:161[B]:LYS:HG3	2.21	0.41
56:DS:104:GLU:O	56:DS:104:GLU:HG3	2.14	0.41
57:DT:25:VAL:HG22	57:DT:30:TYR:HE2	1.85	0.41
59:DV:128:ARG:HB3	59:DV:128:ARG:CZ	2.51	0.41
60:DW:120:LYS:O	60:DW:123:ARG:HB2	2.21	0.41
60:DW:127:LYS:HA	60:DW:130:SER:OG	2.20	0.41
64:Da:13:GLY:O	68:De:36:LYS:HE2	2.20	0.41
64:Da:14:HIS:ND1	64:Da:14:HIS:N	2.68	0.41
75:Dl:9:ILE:HG23	75:Dl:9:ILE:HD12	1.83	0.41
77:Dn:22:ALA:C	77:Dn:24:SER:H	2.29	0.41
84:Dr:29:UNK:C	84:Dr:31:UNK:N	2.83	0.41
1:A2:333:A:C6	1:A2:334:G:C6	3.09	0.41
1:A2:460:A:H3'	1:A2:461:G:H8	1.85	0.41
1:A2:686:C:H2'	1:A2:687:G:C8	2.55	0.41
1:A2:768:C:O2	11:AJ:143:ILE:HG21	2.21	0.41
1:A2:839:U:C2'	1:A2:840:U:H5'	2.47	0.41
1:A2:919:A:H4'	16:AO:35:GLY:HA3	2.03	0.41
1:A2:1181:U:H2'	1:A2:1182:U:O4'	2.21	0.41
1:A2:1240:U:OP2	86:A2:2031:OHX:N1	2.54	0.41
1:A2:1274:C:H4'	1:A2:1275:A:O5'	2.21	0.41
1:A2:1281:G:C5	1:A2:1282:U:C5	3.09	0.41
1:A2:1301:U:H2'	1:A2:1302:U:O4'	2.21	0.41
1:A2:1340:U:C2	1:A2:1378:U:H4'	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:1413:U:O2	86:A2:1950:OHX:N4	2.54	0.41
1:A2:1524:A:N3	1:A2:1590:G:O2'	2.44	0.41
1:A2:1553:G:O6	17:AP:43:ARG:HD3	2.20	0.41
1:A2:1556:A:C5	1:A2:1560:U:C2	3.09	0.41
86:A2:1973:OHX:N2	86:A2:1988:OHX:N5	2.69	0.41
86:A2:2017:OHX:N2	86:A2:2037:OHX:N6	2.69	0.41
3:AB:77:GLU:C	3:AB:79:HIS:N	2.78	0.41
3:AB:141:ALA:HB1	3:AB:207:LEU:CD2	2.49	0.41
3:AB:171:ILE:O	3:AB:175:GLU:HG2	2.21	0.41
3:AB:185:THR:HA	3:AB:188:LEU:HD12	2.03	0.41
3:AB:190:PRO:C	3:AB:191:GLU:HG2	2.46	0.41
5:AD:105:MET:O	5:AD:106:LYS:C	2.61	0.41
5:AD:150:MET:HE3	35:Ah:110:TRP:CE3	2.51	0.41
6:AE:100:ARG:NH2	6:AE:121:TYR:O	2.54	0.41
6:AE:123:LEU:HD22	6:AE:236:ILE:HG23	2.03	0.41
6:AE:129:VAL:HB	6:AE:139:VAL:HG12	2.03	0.41
7:AF:95:ASN:O	7:AF:98:MET:HG2	2.20	0.41
8:AG:55:GLY:CA	8:AG:63:MET:HE3	2.51	0.41
8:AG:58:LYS:HB2	8:AG:59:GLN:OE1	2.21	0.41
8:AG:63:MET:HE2	8:AG:106:LEU:CD2	2.51	0.41
11:AJ:110:GLN:HE22	11:AJ:126:ARG:CG	2.23	0.41
16:AO:81:VAL:HG13	16:AO:115:ILE:CG2	2.50	0.41
16:AO:105:LEU:HD12	16:AO:106:ALA:N	2.36	0.41
18:AQ:45:ARG:O	18:AQ:48:VAL:HG12	2.21	0.41
20:AS:11:PHE:HE2	20:AS:13:HIS:HA	1.86	0.41
20:AS:23:ASP:OD1	20:AS:24:GLY:N	2.54	0.41
23:AV:28:ASP:C	23:AV:30:ALA:H	2.28	0.41
23:AV:74:GLN:C	23:AV:76:ASP:H	2.29	0.41
27:AZ:41:ILE:O	27:AZ:75:LEU:HD13	2.20	0.41
36:A1:226:C:H2'	36:A1:227:G:O4'	2.21	0.41
36:A1:256:G:H2'	36:A1:257:U:C6	2.56	0.41
36:A1:637:C:C2'	36:A1:638:C:C6	3.01	0.41
36:A1:661:G:P	64:Ba:12:ARG:NH2	2.94	0.41
36:A1:736:A:H2'	36:A1:737:G:O4'	2.21	0.41
36:A1:1273:A:O2'	36:A1:1274:A:P	2.79	0.41
36:A1:1414:G:N7	86:A1:3676:OHX:N2	2.68	0.41
36:A1:1713:G:O6	66:Bc:28:LYS:HE2	2.20	0.41
36:A1:1795:U:H4'	36:A1:1796:G:C4	2.56	0.41
36:A1:1834:U:H3'	36:A1:1835:A:H5'	2.03	0.41
36:A1:1853:U:OP2	86:A1:3579:OHX:N3	2.54	0.41
36:A1:1876:U:H2'	36:A1:1877:U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:2111:G:H1'	60:BW:44:LYS:HD2	2.03	0.41
36:A1:2157:G:O6	39:BA:152:SER:HB3	2.21	0.41
36:A1:2360:C:H5''	36:A1:2361:A:P	2.61	0.41
36:A1:2514:U:H5'	45:BG:68:ARG:HG3	2.03	0.41
36:A1:2518:C:OP1	86:A1:3679:OHX:N5	2.54	0.41
36:A1:2534:G:N2	36:A1:2546:C:C2	2.89	0.41
36:A1:2552:C:O2'	36:A1:2553:U:H5'	2.21	0.41
36:A1:2584:G:O2'	45:BG:240:ASN:ND2	2.54	0.41
36:A1:2712:U:H2'	36:A1:2713:U:C5	2.56	0.41
36:A1:3163:A:H2'	36:A1:3164:C:H5'	2.02	0.41
36:A1:3174:A:C2'	36:A1:3175:U:H5'	2.48	0.41
36:A1:3227:A:C2'	36:A1:3228:C:H5'	2.50	0.41
86:A1:3512:OHX:N1	86:A1:3693:OHX:N4	2.69	0.41
40:BB:83:PRO:O	40:BB:165:GLN:HG3	2.21	0.41
40:BB:117:ARG:HA	40:BB:175:LYS:HG3	2.02	0.41
40:BB:284:ARG:HB3	40:BB:323:MET:HB2	2.02	0.41
41:BC:29:PRO:HD2	41:BC:277:PRO:HB2	2.03	0.41
41:BC:187:LEU:HD23	41:BC:187:LEU:HA	1.93	0.41
43:BE:7:PRO:HG2	43:BE:10:TYR:CZ	2.56	0.41
43:BE:78:ARG:NH1	43:BE:78:ARG:HG3	2.36	0.41
44:BF:57:THR:O	44:BF:58:ALA:C	2.63	0.41
44:BF:218:ARG:HH11	44:BF:218:ARG:HD2	1.68	0.41
45:BG:106:LYS:HE2	45:BG:106:LYS:HB3	1.81	0.41
45:BG:134:TYR:CD2	45:BG:190:VAL:HG21	2.56	0.41
46:BH:3:TYR:CD2	46:BH:3:TYR:N	2.89	0.41
46:BH:106:LYS:H	46:BH:109:ALA:CB	2.33	0.41
49:BL:24:VAL:CG2	49:BL:26:PHE:CE2	3.03	0.41
51:BN:45:PRO:O	51:BN:49:ARG:HB3	2.20	0.41
51:BN:75:VAL:HA	51:BN:76:PRO:HD3	1.73	0.41
52:BO:3[A]:VAL:HG13	52:BO:4[A]:GLU:HG3	2.03	0.41
52:BO:44[B]:SER:O	52:BO:50[B]:ASN:ND2	2.46	0.41
54:BQ:30:VAL:O	54:BQ:31:LYS:C	2.63	0.41
55:BR:44:LEU:HD13	55:BR:44:LEU:HA	1.84	0.41
55:BR:104:ARG:HE	55:BR:104:ARG:C	2.29	0.41
59:BV:33:ASN:ND2	59:BV:64:LYS:H	2.19	0.41
64:Ba:2:PRO:HG2	64:Ba:5:PHE:CD2	2.56	0.41
68:Be:64:LYS:HG2	68:Be:65:PHE:CD2	2.56	0.41
71:Bh:68:GLN:C	71:Bh:70:TYR:N	2.79	0.41
78:Bo:77:CYS:SG	78:Bo:79:THR:CG2	3.04	0.41
80:A6:68:A:H5'	8:CG:162:VAL:HG21	2.02	0.41
80:A6:277:U:HO2'	80:A6:278:U:P	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:336:G:H2'	80:A6:338:C:H5	1.85	0.41
80:A6:829:A:HO2'	80:A6:830:U:P	2.44	0.41
80:A6:896:U:O2	16:CO:41:ARG:NH1	2.49	0.41
80:A6:1253:U:H4'	33:Cf:143:LYS:N	2.36	0.41
80:A6:1373:C:O5'	80:A6:1373:C:H6	2.04	0.41
80:A6:1481:C:H4'	80:A6:1482:C:OP1	2.20	0.41
2:CA:66:ALA:HB2	23:CV:37:ALA:HB2	2.02	0.41
2:CA:92:HIS:HB3	2:CA:182:LEU:HD11	2.02	0.41
2:CA:119:ARG:HH11	2:CA:119:ARG:HD3	1.76	0.41
3:CB:103:MET:H	3:CB:215:VAL:HG13	1.86	0.41
3:CB:123:ALA:HB2	3:CB:165:ARG:HG2	2.03	0.41
4:CC:41:LEU:O	4:CC:41:LEU:HD22	2.21	0.41
6:CE:66:MET:HE1	6:CE:78:THR:O	2.21	0.41
6:CE:77:ARG:HH11	6:CE:77:ARG:CG	2.33	0.41
6:CE:212:ASP:C	6:CE:214:LEU:H	2.28	0.41
8:CG:153:VAL:H	8:CG:153:VAL:HG22	1.54	0.41
9:CH:62:VAL:HA	9:CH:63:PRO:HD3	1.99	0.41
10:CI:14:THR:H	10:CI:14:THR:HG23	1.69	0.41
11:CJ:109:LEU:O	11:CJ:110:GLN:C	2.64	0.41
12:CK:52:LYS:HG3	12:CK:54:TYR:CE1	2.56	0.41
14:CM:50:LYS:O	14:CM:54:ARG:HG2	2.21	0.41
14:CM:131:ASP:OD1	14:CM:132:GLU:N	2.54	0.41
15:CN:21:ASN:HB2	15:CN:22:ALA:H	1.63	0.41
15:CN:88:LEU:HA	15:CN:88:LEU:HD23	1.79	0.41
16:CO:111:ARG:HA	28:Ca:56:ALA:O	2.21	0.41
17:CP:98:ASN:HD21	17:CP:101:ALA:HB3	1.86	0.41
18:CQ:95:LYS:HG2	18:CQ:96:TYR:CE1	2.56	0.41
18:CQ:115:THR:HG23	18:CQ:118:ILE:O	2.21	0.41
18:CQ:127:LYS:HE2	18:CQ:132:LYS:O	2.21	0.41
20:CS:36:LYS:O	20:CS:102:ALA:N	2.54	0.41
23:CV:41:GLU:O	23:CV:44:ARG:NH1	2.54	0.41
24:CW:106:THR:OG1	24:CW:111:MET:HE2	2.21	0.41
25:CX:72:VAL:HG11	25:CX:96:VAL:HG21	2.02	0.41
26:CY:52:LYS:O	26:CY:54:ALA:N	2.54	0.41
26:CY:81:GLU:O	26:CY:85:PHE:HD2	2.04	0.41
27:CZ:45:GLU:H	27:CZ:45:GLU:HG3	1.64	0.41
29:Cb:75:GLU:HB3	29:Cb:76:GLY:H	1.41	0.41
34:Cg:13:LEU:O	34:Cg:309:VAL:HG12	2.20	0.41
34:Cg:106:HIS:CE1	34:Cg:132:LYS:HD2	2.55	0.41
34:Cg:283:LYS:HG3	34:Cg:284:ALA:N	2.35	0.41
36:A5:291:C:H2'	36:A5:292:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:501:A:H2'	36:A5:502:U:C6	2.56	0.41
36:A5:600:G:N7	86:A5:3639:OHX:N2	2.68	0.41
36:A5:914:A:N3	39:DA:204:MET:HG2	2.36	0.41
36:A5:1049:C:H2'	36:A5:1050:U:C6	2.55	0.41
36:A5:1062:A:H4'	57:DT:105:PHE:CE2	2.56	0.41
36:A5:1077:U:H2'	36:A5:1078:U:C6	2.56	0.41
36:A5:1358:C:H2'	36:A5:1359:C:O4'	2.21	0.41
36:A5:1547:G:H2'	36:A5:1548:C:C6	2.56	0.41
36:A5:1824:U:O3'	74:Dk:17:ARG:NH2	2.54	0.41
36:A5:2179:C:H4'	36:A5:2180:G:OP2	2.20	0.41
36:A5:2504:U:O2'	36:A5:2505:U:OP1	2.35	0.41
36:A5:2558:U:O2'	36:A5:2559:U:H5'	2.21	0.41
36:A5:2561:A:HO2'	36:A5:2562:A:H8	1.68	0.41
36:A5:2660:G:H4'	36:A5:2750:U:O2	2.21	0.41
36:A5:2663:G:H2'	36:A5:2664:C:O4'	2.21	0.41
36:A5:2749:G:P	42:DD:48:LYS:NZ	2.94	0.41
36:A5:2911:A:H4'	36:A5:2912:G:C8	2.56	0.41
36:A5:3245:A:C2	36:A5:3246:G:C2	3.08	0.41
36:A5:3257:C:H2'	36:A5:3258:U:O4'	2.20	0.41
36:A5:3308:C:O2	53:DP:69:ARG:HD3	2.20	0.41
36:A5:3393:U:H2'	36:A5:3394:U:O4'	2.20	0.41
86:A5:3640:OHX:N6	86:A5:3741:OHX:N4	2.68	0.41
38:A8:35:C:H5'	73:Dj:70:VAL:HG11	2.03	0.41
39:DA:15:ILE:HD12	39:DA:15:ILE:HA	1.66	0.41
39:DA:65:ASP:HA	39:DA:66:PRO:HD3	1.87	0.41
39:DA:144:ASN:O	39:DA:160:SER:N	2.45	0.41
40:DB:73:VAL:HG13	59:DV:89:ASP:C	2.45	0.41
40:DB:328:ILE:HG21	40:DB:328:ILE:HD13	1.65	0.41
42:DD:49:TYR:CE1	42:DD:75:LEU:HD12	2.56	0.41
42:DD:122:VAL:O	42:DD:124:GLU:N	2.44	0.41
42:DD:257:GLU:CD	42:DD:257:GLU:H	2.29	0.41
44:DF:62:ILE:O	44:DF:66:LYS:HG3	2.21	0.41
44:DF:102:VAL:HG12	44:DF:130:ILE:CD1	2.50	0.41
44:DF:148:VAL:HG12	44:DF:181:ILE:HD11	2.01	0.41
46:DH:86:TYR:CE1	46:DH:151:VAL:HG13	2.56	0.41
46:DH:129:ARG:O	46:DH:132:VAL:HG13	2.20	0.41
46:DH:150:SER:O	46:DH:151:VAL:C	2.64	0.41
47:DI:24:ARG:O	47:DI:25:ALA:HB3	2.21	0.41
47:DI:42:THR:CG2	47:DI:45:GLU:HG3	2.51	0.41
48:DJ:9:MET:HG3	48:DJ:10:ARG:H	1.86	0.41
49:DL:144:THR:C	49:DL:146:PRO:HD3	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DO:108[A]:ILE:HA	52:DO:109[A]:PRO:HD2	1.90	0.41
52:DO:177[B]:LYS:HB3	52:DO:177[B]:LYS:HE2	1.81	0.41
55:DR:169:ALA:O	55:DR:173:ARG:HB3	2.21	0.41
56:DS:16:THR:OG1	56:DS:19:VAL:N	2.52	0.41
56:DS:34:GLU:O	56:DS:38:LYS:HG3	2.20	0.41
60:DW:63:ILE:HB	60:DW:64:THR:H	1.52	0.41
66:Dc:61:MET:HE3	66:Dc:62:LEU:HG	2.01	0.41
67:Dd:9:THR:OG1	67:Dd:76:SER:HB3	2.20	0.41
67:Dd:89:LEU:HD12	67:Dd:89:LEU:HA	1.92	0.41
69:Df:89:LEU:HA	69:Df:90:PRO:HD3	1.87	0.41
70:Dg:85:VAL:HA	70:Dg:88:ARG:HB3	2.03	0.41
70:Dg:96:GLU:O	70:Dg:99:LYS:HB2	2.21	0.41
73:Dj:2:GLY:O	73:Dj:7:SER:HB3	2.20	0.41
83:Dq:46:ARG:HA	83:Dq:46:ARG:HD3	1.93	0.41
1:A2:377:G:O6	86:A2:1957:OHX:N5	2.54	0.41
1:A2:488:G:N7	1:A2:498:G:N2	2.68	0.41
1:A2:781:U:O2'	1:A2:782:U:O5'	2.39	0.41
1:A2:817:A:C6	1:A2:818:C:N4	2.89	0.41
1:A2:991:G:O6	86:A2:1970:OHX:N2	2.54	0.41
1:A2:1163:A:N6	1:A2:1164:G:C6	2.89	0.41
1:A2:1657:U:N3	86:A2:1969:OHX:N1	2.69	0.41
86:A2:1907:OHX:N2	86:A2:2086:OHX:N6	2.68	0.41
86:A2:1914:OHX:N3	86:A2:1938:OHX:N4	2.69	0.41
2:AA:30:GLN:NE2	2:AA:149:LEU:HD13	2.35	0.41
3:AB:81:PHE:HA	3:AB:106:THR:CG2	2.51	0.41
8:AG:28:PHE:CZ	8:AG:104:PRO:HG3	2.56	0.41
9:AH:76:LYS:HE2	9:AH:76:LYS:HB3	1.86	0.41
9:AH:129:LEU:HD21	9:AH:172:VAL:HG11	2.02	0.41
10:AI:21:PHE:O	10:AI:22:ARG:HG2	2.20	0.41
13:AL:98:ASN:ND2	24:AW:79:PHE:HD1	2.19	0.41
14:AM:52:LEU:HD23	14:AM:122:VAL:HG21	2.03	0.41
14:AM:57:ALA:HB3	14:AM:85:LYS:NZ	2.36	0.41
17:AP:12:PHE:CG	17:AP:13:LYS:N	2.88	0.41
17:AP:96:ILE:CD1	17:AP:116:LEU:HD22	2.51	0.41
17:AP:116:LEU:HD23	17:AP:116:LEU:HA	1.91	0.41
19:AR:5:ARG:N	19:AR:5:ARG:HD3	2.35	0.41
21:AT:72:GLY:O	21:AT:76:LEU:HG	2.21	0.41
21:AT:121:GLY:O	21:AT:122:ARG:HD2	2.21	0.41
36:A1:161:G:H8	36:A1:161:G:C5'	2.34	0.41
36:A1:185:C:H2'	36:A1:186:U:H6	1.86	0.41
36:A1:193:C:H2'	36:A1:194:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A1:299:G:C6	36:A1:300:G:C5	3.09	0.41
36:A1:741:U:H2'	36:A1:742:G:O4'	2.22	0.41
36:A1:911:C:O2	36:A1:917:A:N1	2.53	0.41
36:A1:1204:A:C2'	36:A1:1205:A:H5'	2.51	0.41
36:A1:1610:G:P	61:BX:125:ARG:HH12	2.44	0.41
36:A1:2403:G:O2'	86:A1:3738:OHX:N2	2.54	0.41
36:A1:2564:G:C5	36:A1:2565:U:C5	3.10	0.41
36:A1:2576:G:C5	36:A1:2577:C:C5	3.08	0.41
36:A1:3153:U:H4'	86:A1:3704:OHX:N1	2.36	0.41
36:A1:3336:A:H8	36:A1:3336:A:O5'	2.04	0.41
86:A1:3534:OHX:N1	86:A1:3576:OHX:N2	2.69	0.41
41:BC:337:GLU:O	41:BC:339:LEU:N	2.54	0.41
42:BD:68:THR:HG22	42:BD:70:THR:N	2.36	0.41
45:BG:71:VAL:HG13	45:BG:235:GLY:HA3	2.03	0.41
51:BN:22:LEU:O	51:BN:26:ARG:HG3	2.21	0.41
54:BQ:92:ARG:HE	54:BQ:92:ARG:HB2	1.63	0.41
60:BW:1:MET:HE3	60:BW:15:PRO:HD3	2.03	0.41
63:BZ:97:SER:CB	63:BZ:99:GLU:HG3	2.49	0.41
66:Bc:57:GLU:O	66:Bc:60:ALA:HB3	2.21	0.41
70:Bg:74:ARG:CZ	70:Bg:74:ARG:HB3	2.51	0.41
71:Bh:70:TYR:O	71:Bh:73:LYS:HG2	2.21	0.41
78:Bo:12:CYS:SG	78:Bo:74:CYS:SG	3.16	0.41
78:Bo:17:CYS:SG	78:Bo:77:CYS:HB3	2.61	0.41
80:A6:765:G:C6	11:CJ:149:ARG:HG3	2.56	0.41
80:A6:775:G:N7	26:CY:11:LYS:NZ	2.67	0.41
80:A6:989:U:H2'	80:A6:990:C:C6	2.55	0.41
80:A6:1382:A:C4	80:A6:1383:G:N7	2.89	0.41
80:A6:1640:C:H1'	80:A6:1763:A:N1	2.36	0.41
86:A6:1909:OHX:N5	86:A6:2086:OHX:N2	2.69	0.41
86:A6:1933:OHX:N4	86:A6:2068:OHX:N3	2.69	0.41
2:CA:28:ASN:O	2:CA:150:ASP:HB3	2.21	0.41
3:CB:119:THR:O	3:CB:142:PHE:HA	2.21	0.41
3:CB:146:GLN:O	3:CB:148:ASN:N	2.55	0.41
7:CF:130:ILE:HD13	7:CF:130:ILE:HG21	1.73	0.41
8:CG:158:ILE:H	8:CG:158:ILE:HG12	1.66	0.41
11:CJ:45:ILE:HG22	11:CJ:101:VAL:HG12	2.03	0.41
11:CJ:87:SER:HG	11:CJ:90:LYS:HB2	1.86	0.41
11:CJ:171:ARG:HH11	11:CJ:174:ARG:HD3	1.85	0.41
13:CL:113:PRO:O	13:CL:114:ALA:HB2	2.19	0.41
17:CP:121:ILE:HD13	17:CP:122:THR:H	1.86	0.41
18:CQ:93:HIS:HA	18:CQ:97:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CZ:82:HIS:O	27:CZ:85:LYS:HB2	2.21	0.41
27:CZ:104:ALA:O	27:CZ:105:THR:OG1	2.32	0.41
29:Cb:63:LEU:HD23	29:Cb:63:LEU:HA	1.92	0.41
31:Cd:46:LYS:O	31:Cd:50:ILE:HG13	2.21	0.41
32:Ce:49:LEU:H	32:Ce:49:LEU:HD22	1.85	0.41
36:A5:48:A:OP2	49:DL:16:LYS:O	2.38	0.41
36:A5:118:U:C5	36:A5:119:U:C4	3.09	0.41
36:A5:438:A:O2'	36:A5:439:C:P	2.79	0.41
36:A5:529:A:H2'	36:A5:530:G:O4'	2.20	0.41
36:A5:734:C:OP1	36:A5:734:C:H6	2.04	0.41
36:A5:817:A:OP2	86:A5:3734:OHX:N6	2.53	0.41
36:A5:1334:U:H5'	44:DF:207:LEU:O	2.21	0.41
36:A5:1685:C:H2'	36:A5:1686:U:C6	2.56	0.41
36:A5:1766:G:C2'	36:A5:1767:C:H5'	2.51	0.41
36:A5:2567:C:N4	36:A5:2568:C:H41	2.19	0.41
36:A5:2666:C:H2'	36:A5:2667:A:H5''	2.03	0.41
37:A7:67:G:H5'	42:DD:10:SER:HB2	2.03	0.41
39:DA:179:LEU:O	39:DA:184:ARG:HD2	2.21	0.41
42:DD:95:TRP:CZ2	42:DD:181:PRO:HD3	2.54	0.41
52:DO:78[B]:ARG:NH1	52:DO:78[B]:ARG:HG3	2.36	0.41
63:DZ:68:ILE:O	63:DZ:115:LYS:HG3	2.21	0.41
63:DZ:109:GLU:O	63:DZ:113:VAL:HG23	2.21	0.41
69:Df:102:LEU:HD23	69:Df:102:LEU:HA	1.84	0.41
83:Dq:67:LEU:HD22	83:Dq:67:LEU:HA	1.96	0.41
1:A2:532:U:H2'	26:AY:33:ALA:HB1	2.03	0.40
1:A2:776:G:N2	1:A2:785:U:H1'	2.36	0.40
1:A2:1053:G:H5'	1:A2:1053:G:C8	2.56	0.40
1:A2:1280:C:H2'	1:A2:1281:G:C8	2.56	0.40
1:A2:1313:A:O2'	1:A2:1315:U:OP1	2.35	0.40
1:A2:1360:A:H2'	1:A2:1361:U:C1'	2.51	0.40
4:AC:230:TRP:NE1	24:AW:68:ARG:HB3	2.36	0.40
7:AF:42:LEU:HD21	7:AF:45:LYS:HD2	2.03	0.40
8:AG:21:GLU:H	8:AG:21:GLU:HG2	1.60	0.40
9:AH:131:PHE:HD2	9:AH:132:PRO:N	2.19	0.40
10:AI:37:LYS:O	10:AI:59:ARG:HA	2.20	0.40
11:AJ:17:ARG:HA	11:AJ:18:PRO:HD3	1.96	0.40
19:AR:10:LYS:HG2	19:AR:53:TYR:CE1	2.56	0.40
19:AR:24:LEU:HA	19:AR:31:ASN:OD1	2.21	0.40
24:AW:80:ASN:HD21	24:AW:124:LYS:NZ	2.19	0.40
28:Aa:23:CYS:CB	28:Aa:74:CYS:HB3	2.50	0.40
28:Aa:76:SER:O	28:Aa:80:HIS:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Ad:5:ASN:HB3	31:Ad:7:TRP:CD1	2.56	0.40
33:Af:144:CYS:CB	33:Af:147:VAL:HG13	2.49	0.40
36:A1:20:A:OP2	71:Bh:90:ARG:NH1	2.54	0.40
36:A1:715:A:H5'	64:Ba:133:LEU:HD12	2.03	0.40
36:A1:1019:G:N2	36:A1:1034:U:H1'	2.36	0.40
36:A1:1193:A:P	52:BO:49[A]:ARG:HH22	2.44	0.40
36:A1:1887:A:OP2	86:A1:3434:OHX:N4	2.54	0.40
36:A1:2314:U:H6	36:A1:2314:U:H2'	1.34	0.40
36:A1:3006:A:C2	36:A1:3141:A:C4	3.09	0.40
36:A1:3156:U:O2'	36:A1:3157:U:P	2.78	0.40
36:A1:3294:A:H8	36:A1:3294:A:C5'	2.34	0.40
86:A1:3492:OHX:N4	86:A1:3814:OHX:N3	2.68	0.40
86:A1:3693:OHX:N5	86:A1:3712:OHX:N1	2.68	0.40
86:A1:3786:OHX:N4	38:A4:140:G:OP1	2.53	0.40
40:BB:108:GLU:HB2	40:BB:137:TYR:CE2	2.56	0.40
41:BC:100:PHE:O	41:BC:101:ALA:C	2.64	0.40
42:BD:148:ILE:HD13	42:BD:148:ILE:HG21	1.79	0.40
43:BE:89:THR:HG21	50:BM:115:PHE:HB2	2.02	0.40
43:BE:149:ILE:HG23	43:BE:155:LEU:HD12	2.02	0.40
45:BG:75:ILE:HG22	45:BG:76:ALA:N	2.32	0.40
45:BG:246:MET:HE3	45:BG:246:MET:HB2	1.83	0.40
46:BH:94:TYR:CE2	46:BH:98:PRO:HA	2.56	0.40
53:BP:178:ALA:O	53:BP:182:ILE:HG13	2.21	0.40
54:BQ:131:ALA:O	54:BQ:134:GLY:N	2.46	0.40
55:BR:100:ARG:O	55:BR:104:ARG:HD3	2.21	0.40
64:Ba:135:GLU:HG3	64:Ba:145:VAL:HG21	2.03	0.40
72:Bi:56:ARG:O	72:Bi:60:LEU:HB2	2.21	0.40
80:A6:241:U:O4	86:A6:2087:OHX:N4	2.53	0.40
80:A6:599:A:H2'	80:A6:600:U:C6	2.56	0.40
80:A6:624:G:H2'	80:A6:625:C:H6	1.86	0.40
80:A6:625:C:H2'	80:A6:626:U:C6	2.56	0.40
80:A6:1096:C:H6	80:A6:1096:C:H2'	1.66	0.40
80:A6:1225:U:C4	80:A6:1226:A:N7	2.90	0.40
80:A6:1382:A:H5''	22:CU:60:THR:HG22	2.02	0.40
80:A6:1405:G:H2'	80:A6:1406:A:C8	2.56	0.40
80:A6:1445:G:C6	33:Cf:91:UNK:HB2	2.55	0.40
80:A6:1715:G:C6	80:A6:1716:C:N4	2.89	0.40
86:A6:2005:OHX:N1	86:CL:201:OHX:N2	2.69	0.40
3:CB:87:ARG:NH2	3:CB:89:ASP:OD1	2.54	0.40
4:CC:139:ILE:HD11	4:CC:191:ALA:HB1	2.03	0.40
5:CD:40:ARG:HG3	22:CU:110:PRO:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CD:134:CYS:SG	5:CD:135:GLU:N	2.93	0.40
6:CE:34:GLY:HA3	6:CE:83:PRO:CG	2.50	0.40
11:CJ:169:PRO:HB2	11:CJ:170:GLY:H	1.70	0.40
14:CM:91:VAL:HG13	14:CM:92:ALA:N	2.36	0.40
16:CO:92:LYS:HD2	16:CO:121:VAL:HG22	2.02	0.40
17:CP:107:ILE:HG23	17:CP:107:ILE:HD12	1.70	0.40
22:CU:63:LEU:HD13	31:Cd:34:TYR:CE1	2.56	0.40
26:CY:121:THR:CG2	26:CY:123:LYS:HB2	2.51	0.40
27:CZ:85:LYS:HB3	27:CZ:86:GLU:O	2.21	0.40
28:Ca:10:ARG:HD3	28:Ca:34:LYS:HA	2.02	0.40
36:A5:237:G:N2	36:A5:238:A:O4'	2.54	0.40
36:A5:288:C:H4'	51:DN:171:SER:O	2.21	0.40
36:A5:372:A:C6	36:A5:373:A:C6	3.09	0.40
36:A5:384:A:H1'	36:A5:1465:A:C8	2.56	0.40
36:A5:561:C:H2'	36:A5:562:C:H6	1.87	0.40
36:A5:715:A:C8	64:Da:115:LYS:HG3	2.56	0.40
36:A5:1014:U:H3'	36:A5:1015:U:C5'	2.51	0.40
36:A5:1064:A:N6	36:A5:1096:U:H3	2.19	0.40
36:A5:1572:U:O2'	36:A5:1573:G:H8	2.04	0.40
36:A5:2507:C:HO2'	36:A5:2508:U:P	2.38	0.40
36:A5:2509:U:H2'	36:A5:2510:U:C5'	2.45	0.40
36:A5:2872:A:O2'	36:A5:2873:U:P	2.79	0.40
36:A5:3028:G:H2'	36:A5:3029:A:C8	2.55	0.40
36:A5:3089:C:H2'	36:A5:3090:U:O4'	2.21	0.40
41:DC:341:SER:O	41:DC:342:LYS:HB3	2.21	0.40
46:DH:40:HIS:ND1	46:DH:41:ILE:HG13	2.36	0.40
49:DL:121:SER:O	49:DL:121:SER:OG	2.30	0.40
51:DN:99:ARG:O	51:DN:102:ALA:HB3	2.22	0.40
55:DR:127:SER:HB3	55:DR:132:PHE:HD2	1.87	0.40
57:DT:26:HIS:CD2	57:DT:26:HIS:N	2.89	0.40
57:DT:96:ILE:HA	57:DT:96:ILE:HD13	1.58	0.40
58:DU:90:ARG:NH1	58:DU:90:ARG:HB3	2.36	0.40
58:DU:105:LEU:HA	58:DU:105:LEU:HD12	1.87	0.40
61:DX:105:VAL:HG13	61:DX:130:TYR:CG	2.56	0.40
63:DZ:22:LYS:HE2	63:DZ:129:TRP:CH2	2.56	0.40
63:DZ:136:PHE:HB2	70:Dg:88:ARG:HG3	2.03	0.40
67:Dd:19:ARG:HD3	67:Dd:35:GLU:HG2	2.02	0.40
70:Dg:57:LEU:HB3	70:Dg:61:GLN:HB2	2.03	0.40
1:A2:82:U:H2'	1:A2:83:G:O4'	2.21	0.40
1:A2:140:A:OP2	8:AG:187:LYS:NZ	2.54	0.40
1:A2:458:G:H5''	1:A2:459:G:OP1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:830:U:O2	1:A2:830:U:H2'	2.21	0.40
1:A2:1180:C:O2	17:AP:128:HIS:HE1	2.04	0.40
1:A2:1191:U:H5'	18:AQ:143:ARG:CZ	2.51	0.40
5:AD:53:THR:HG22	5:AD:91:VAL:HG11	2.03	0.40
6:AE:52:LEU:O	6:AE:54:TYR:N	2.54	0.40
7:AF:65:ARG:HA	7:AF:66:GLN:C	2.45	0.40
10:AI:90:LEU:HA	10:AI:90:LEU:HD23	1.76	0.40
14:AM:98:GLY:CA	14:AM:118:ALA:HB2	2.50	0.40
15:AN:27:LYS:HD2	15:AN:28:LEU:H	1.86	0.40
16:AO:102:LEU:HD22	16:AO:102:LEU:HA	1.71	0.40
20:AS:92:ILE:O	20:AS:92:ILE:HD13	2.21	0.40
25:AX:107:PHE:HD1	25:AX:107:PHE:HA	1.68	0.40
27:AZ:54:VAL:HG22	27:AZ:57:TYR:HE1	1.85	0.40
27:AZ:90:LYS:HB3	27:AZ:90:LYS:HE2	1.73	0.40
30:Ac:5:THR:HA	30:Ac:6:PRO:HD3	1.79	0.40
35:Ah:46:LYS:O	36:A1:1018:G:H5''	2.21	0.40
36:A1:544:C:H2'	36:A1:547:G:H1	1.85	0.40
36:A1:973:A:OP2	54:BQ:12:ARG:NH1	2.55	0.40
36:A1:1075:A:C6	65:Bb:45:HIS:CE1	3.10	0.40
36:A1:1211:U:H2'	36:A1:1212:A:C8	2.55	0.40
36:A1:1322:U:OP1	56:BS:117:ARG:HD2	2.21	0.40
36:A1:1844:C:O2	73:Bj:9:GLY:HA2	2.21	0.40
36:A1:2679:A:O2'	48:BJ:52:TYR:OH	2.35	0.40
36:A1:3288:G:O2'	36:A1:3289:G:OP2	2.32	0.40
36:A1:3349:C:H2'	36:A1:3350:C:O4'	2.21	0.40
37:A3:118:A:H2'	37:A3:119:U:O4'	2.21	0.40
40:BB:46:PHE:CD2	40:BB:205:VAL:HG13	2.56	0.40
40:BB:166:ILE:HG21	40:BB:174:LYS:O	2.21	0.40
42:BD:7:ALA:O	86:BD:301:OHX:N3	2.54	0.40
44:BF:88:ARG:HH21	44:BF:109:THR:HA	1.86	0.40
51:BN:15:GLN:HB3	72:Bi:51:SER:HB2	2.03	0.40
53:BP:32:THR:HG21	53:BP:87:SER:CB	2.46	0.40
55:BR:7:GLN:OE1	55:BR:7:GLN:N	2.55	0.40
55:BR:11:ALA:O	55:BR:15:VAL:HG23	2.21	0.40
59:BV:33:ASN:C	59:BV:34:LEU:HG	2.46	0.40
59:BV:81:GLN:O	59:BV:82:ALA:HB3	2.22	0.40
63:BZ:64:LYS:HB2	63:BZ:64:LYS:HE2	1.97	0.40
69:Bf:16:TYR:OH	69:Bf:91:ALA:HB2	2.22	0.40
74:Bk:64:LYS:N	74:Bk:64:LYS:HD2	2.36	0.40
75:Bl:9:ILE:O	75:Bl:13:MET:HG3	2.22	0.40
79:Bp:45:LYS:HB2	79:Bp:45:LYS:HE3	1.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:217:A:C8	80:A6:218:A:C8	3.09	0.40
80:A6:333:A:C6	80:A6:334:G:C6	3.09	0.40
80:A6:538:A:C8	80:A6:543:C:C5	3.09	0.40
80:A6:1220:C:OP1	12:CK:48:SER:HB2	2.21	0.40
80:A6:1229:G:C2	80:A6:1255:G:C5	3.09	0.40
2:CA:66:ALA:HB1	23:CV:50:TYR:CD1	2.56	0.40
3:CB:36:SER:H	3:CB:231:LEU:HD22	1.86	0.40
5:CD:135:GLU:HB3	5:CD:187:LYS:HB3	2.02	0.40
7:CF:76:ARG:HD3	18:CQ:122:ARG:NE	2.36	0.40
11:CJ:108:ARG:HB2	11:CJ:110:GLN:HB3	2.01	0.40
15:CN:42:ARG:C	15:CN:44:GLY:H	2.29	0.40
17:CP:33:PHE:CE1	17:CP:112:LEU:HD13	2.56	0.40
21:CT:21:PHE:HD2	21:CT:22:LEU:HD23	1.86	0.40
28:Ca:44:ILE:HD13	28:Ca:65:PRO:HB2	2.03	0.40
29:Cb:61:THR:HG23	29:Cb:62:ILE:H	1.85	0.40
36:A5:63:A:OP1	51:DN:172:ARG:NH2	2.55	0.40
36:A5:92:G:OP1	78:Do:46:LYS:HE2	2.21	0.40
36:A5:337:G:C4'	41:DC:48:GLN:HG3	2.51	0.40
36:A5:661:G:P	64:Da:12:ARG:HH22	2.44	0.40
36:A5:1056:U:H2'	36:A5:1057:A:O5'	2.21	0.40
36:A5:1072:G:H2'	36:A5:1073:U:C6	2.56	0.40
36:A5:1352:A:P	36:A5:1352:A:H3'	2.61	0.40
36:A5:2881:C:H2'	36:A5:2882:U:C6	2.57	0.40
36:A5:2979:U:N3	86:A5:3667:OHX:N1	2.68	0.40
36:A5:3218:A:H3'	36:A5:3218:A:OP1	2.22	0.40
36:A5:3353:G:H4'	36:A5:3354:U:OP2	2.21	0.40
37:A7:27:A:H2'	37:A7:28:C:C6	2.56	0.40
38:A8:38:U:C5	71:Dh:83:LYS:HA	2.56	0.40
39:DA:83:HIS:O	39:DA:86:GLN:HB3	2.21	0.40
39:DA:206:PRO:HG3	39:DA:213:GLY:CA	2.51	0.40
41:DC:195:ARG:O	41:DC:196:ASN:HB2	2.21	0.40
42:DD:108:ARG:HA	42:DD:251:PRO:HB2	2.03	0.40
43:DE:172:HIS:CD2	43:DE:173:MET:HG2	2.56	0.40
44:DF:236:ILE:O	44:DF:240:VAL:HG23	2.20	0.40
45:DG:73:PRO:HA	45:DG:232:HIS:O	2.21	0.40
46:DH:31:ARG:HB2	46:DH:82:VAL:HA	2.02	0.40
47:DI:156:ARG:C	47:DI:158:LYS:N	2.78	0.40
56:DS:7:TYR:CE1	56:DS:34:GLU:HG2	2.56	0.40
57:DT:85:LEU:HD23	57:DT:85:LEU:HA	1.67	0.40
59:DV:120:LYS:HB2	59:DV:137:VAL:HG23	2.03	0.40
65:Db:18:ARG:O	86:Db:101:OHX:N4	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Dc:69:TYR:N	66:Dc:69:TYR:CD1	2.89	0.40
69:Df:37:THR:HB	69:Df:39:GLN:OE1	2.21	0.40
78:Do:34:SER:C	78:Do:36:PHE:H	2.29	0.40
78:Do:43:TYR:OH	78:Do:47:GLN:NE2	2.54	0.40
1:A2:143:G:C2	1:A2:173:A:C2	3.10	0.40
1:A2:212:U:OP2	86:AL:201:OHX:N2	2.54	0.40
1:A2:756:A:H1'	6:AE:12:LEU:O	2.20	0.40
1:A2:806:A:H8	1:A2:806:A:H5'	1.86	0.40
1:A2:1715:G:C2'	1:A2:1716:C:H5'	2.51	0.40
86:A2:1940:OHX:N3	86:Ad:101:OHX:N6	2.69	0.40
86:A2:1948:OHX:N6	86:A2:2078:OHX:N5	2.70	0.40
2:AA:33:GLN:H	2:AA:33:GLN:HG2	1.67	0.40
4:AC:73:LEU:HD13	4:AC:73:LEU:HA	1.75	0.40
7:AF:29:ILE:HG22	7:AF:34:GLN:CG	2.52	0.40
7:AF:36:ALA:HB3	7:AF:45:LYS:HZ3	1.86	0.40
8:AG:32:ILE:HD12	8:AG:100:ALA:HB1	2.02	0.40
8:AG:70:PRO:C	8:AG:98:ARG:NH1	2.78	0.40
9:AH:60:ILE:HD12	9:AH:92:PHE:CE2	2.56	0.40
12:AK:50:THR:O	12:AK:53:GLY:N	2.55	0.40
17:AP:69:GLU:CD	86:AP:201:OHX:N4	2.79	0.40
18:AQ:138:PHE:HB3	18:AQ:139:GLN:H	1.67	0.40
20:AS:29:VAL:O	20:AS:43:SER:OG	2.30	0.40
25:AX:69:ARG:O	25:AX:86:PHE:HE2	2.04	0.40
35:Ah:114:LYS:HE3	35:Ah:114:LYS:HB2	1.84	0.40
35:Ah:117:LEU:O	35:Ah:118:SER:C	2.63	0.40
36:A1:111:C:O2'	36:A1:112:U:H5'	2.21	0.40
36:A1:1093:A:O2'	36:A1:1094:U:O5'	2.39	0.40
36:A1:1362:G:O2'	44:BF:158:LYS:HE2	2.21	0.40
36:A1:1508:C:OP1	53:BP:127:ARG:NH2	2.55	0.40
36:A1:1547:G:O2'	36:A1:1548:C:H5'	2.21	0.40
36:A1:1816:A:O2'	36:A1:1817:G:P	2.79	0.40
36:A1:1889:G:OP1	40:BB:247:ARG:HG3	2.21	0.40
36:A1:2137:U:C6	36:A1:2141:U:C4	3.10	0.40
36:A1:2163:C:O2'	39:BA:11:GLY:HA3	2.21	0.40
36:A1:2444:C:H3'	36:A1:2445:A:C5'	2.52	0.40
36:A1:3330:A:H2'	36:A1:3331:U:H6	1.86	0.40
36:A1:3382:U:O2	36:A1:3382:U:H2'	2.21	0.40
37:A3:27:A:P	42:BD:57:ASN:H	2.45	0.40
37:A3:75:G:OP1	86:A3:201:OHX:N6	2.55	0.40
38:A4:79:A:O3'	38:A4:80:A:C4'	2.69	0.40
39:BA:65:ASP:HA	39:BA:66:PRO:HD3	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BC:219:LEU:O	41:BC:222:VAL:HG13	2.21	0.40
42:BD:105:ILE:O	42:BD:109:THR:CG2	2.70	0.40
44:BF:44:ILE:HG12	44:BF:180:SER:HB3	2.02	0.40
44:BF:195:PHE:CD1	44:BF:195:PHE:C	2.99	0.40
46:BH:90:MET:HG2	46:BH:181:VAL:HG22	2.03	0.40
47:BI:46:PHE:HD2	47:BI:139:ARG:HG3	1.87	0.40
52:BO:28[B]:LEU:HD23	52:BO:28[B]:LEU:HA	1.85	0.40
54:BQ:40:THR:C	54:BQ:42:ALA:H	2.29	0.40
58:BU:59:ASP:C	58:BU:61:THR:H	2.28	0.40
63:BZ:136:PHE:CD1	63:BZ:136:PHE:N	2.89	0.40
65:Bb:11:ASN:O	65:Bb:15:LYS:HG3	2.21	0.40
72:Bi:74:LYS:HA	72:Bi:83:ALA:HB2	2.02	0.40
78:Bo:72:LEU:HD11	78:Bo:83:LEU:HB2	2.04	0.40
80:A6:325:G:H4'	13:CL:83:THR:HG21	2.03	0.40
80:A6:866:G:H5''	15:CN:2:GLY:O	2.22	0.40
80:A6:900:A:OP1	16:CO:43:THR:OG1	2.38	0.40
80:A6:1346:A:N3	80:A6:1346:A:H2'	2.36	0.40
80:A6:1363:U:O2'	80:A6:1364:G:H5'	2.22	0.40
80:A6:1723:U:O5'	80:A6:1723:U:H6	2.04	0.40
20:CS:15:LEU:HD22	20:CS:22:VAL:O	2.21	0.40
20:CS:32:LEU:O	20:CS:34:THR:N	2.55	0.40
23:CV:3:ASN:OD1	23:CV:4:ASP:N	2.55	0.40
28:Ca:45:VAL:HG23	28:Ca:46:GLU:H	1.86	0.40
36:A5:590:G:O6	36:A5:611:A:H3'	2.22	0.40
36:A5:735:A:HO2'	36:A5:736:A:P	2.42	0.40
36:A5:2294:U:O2	36:A5:2296:A:C8	2.75	0.40
36:A5:2572:C:O2'	36:A5:2573:G:P	2.79	0.40
36:A5:2841:G:OP2	86:A5:3654:OHX:N1	2.55	0.40
36:A5:2873:U:C2	86:A5:3717:OHX:N1	2.90	0.40
36:A5:2926:A:O2'	36:A5:2927:C:H5'	2.21	0.40
36:A5:2977:G:OP1	86:A5:3674:OHX:N6	2.55	0.40
36:A5:3351:U:H3'	36:A5:3351:U:O2	2.21	0.40
86:A5:3474:OHX:N6	86:A5:3681:OHX:N2	2.69	0.40
38:A8:65:A:H2'	38:A8:66:A:O4'	2.21	0.40
39:DA:104:LEU:HD12	39:DA:104:LEU:HA	1.81	0.40
40:DB:258:ALA:O	40:DB:259:HIS:CD2	2.75	0.40
41:DC:255:PHE:O	41:DC:258:LEU:HB2	2.21	0.40
42:DD:43:LYS:O	42:DD:46:THR:OG1	2.26	0.40
42:DD:270:LYS:O	42:DD:273:ARG:HD2	2.22	0.40
43:DE:47:PHE:CD1	43:DE:74:VAL:HG22	2.56	0.40
45:DG:68:ARG:H	45:DG:68:ARG:HG2	1.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:37:ASN:OD1	46:DH:39:LYS:HB2	2.21	0.40
46:DH:90:MET:HA	46:DH:180:TYR:O	2.21	0.40
52:DO:64[A]:PHE:CE1	52:DO:68[A]:ARG:HD3	2.56	0.40
52:DO:95[B]:GLY:O	52:DO:98[B]:ALA:HB3	2.22	0.40
55:DR:138:LEU:O	55:DR:138:LEU:HD22	2.22	0.40
56:DS:74:ASN:OD1	56:DS:95:ARG:NH1	2.54	0.40
59:DV:39:VAL:HG21	59:DV:51:ALA:C	2.46	0.40
61:DX:91:ASN:O	61:DX:92:LYS:C	2.64	0.40
64:Da:79:TRP:CH2	64:Da:91:LEU:HD13	2.56	0.40
65:Db:21:ILE:C	65:Db:22:LYS:HG3	2.47	0.40
66:Dc:14:LEU:HA	66:Dc:17:VAL:HG23	2.03	0.40
68:De:82:LEU:HD22	68:De:117:ILE:HD13	2.04	0.40
73:Dj:47:TYR:HB3	73:Dj:49:TRP:NE1	2.37	0.40
74:Dk:54:LEU:HG	74:Dk:56:ILE:CD1	2.51	0.40
76:Dm:98:LYS:HD3	76:Dm:115:CYS:HB2	2.02	0.40
83:Dq:53:MET:SD	83:Dq:85:GLY:HA3	2.61	0.40
1:A2:205:U:H2'	1:A2:206:A:O4'	2.21	0.40
1:A2:473:A:H2'	1:A2:474:A:H5'	2.03	0.40
1:A2:1227:A:C2	14:AM:43:ARG:HG2	2.56	0.40
1:A2:1370:U:H4'	1:A2:1371:A:H5'	2.01	0.40
1:A2:1382:A:H5''	22:AU:60:THR:H	1.87	0.40
1:A2:1394:G:C2	1:A2:1405:G:C2	3.10	0.40
1:A2:1473:U:HO2'	1:A2:1474:G:P	2.45	0.40
86:A2:1918:OHX:N6	86:A2:2067:OHX:N6	2.69	0.40
86:A2:1970:OHX:N3	86:A2:2014:OHX:N4	2.69	0.40
2:AA:59:LEU:O	2:AA:63:ILE:HG13	2.21	0.40
3:AB:115:ARG:HD3	3:AB:115:ARG:HA	1.73	0.40
4:AC:111:VAL:HG21	4:AC:218:ILE:HD13	2.01	0.40
5:AD:167:PHE:HD1	5:AD:190:ARG:HD3	1.85	0.40
6:AE:44:LEU:HD23	6:AE:44:LEU:HA	1.77	0.40
6:AE:154:ILE:HG12	6:AE:172:PHE:CD2	2.56	0.40
7:AF:112:ARG:HD3	27:AZ:95:HIS:NE2	2.35	0.40
7:AF:205:SER:C	7:AF:207:THR:H	2.30	0.40
9:AH:13:PRO:CB	9:AH:14:THR:HB	2.50	0.40
10:AI:155:SER:HB2	10:AI:189:LEU:HD21	2.04	0.40
11:AJ:45:ILE:HD13	11:AJ:45:ILE:HA	1.84	0.40
14:AM:48:SER:HB3	14:AM:122:VAL:HG23	2.04	0.40
14:AM:68:GLU:C	14:AM:70:ASN:H	2.29	0.40
15:AN:27:LYS:HB2	15:AN:28:LEU:H	1.64	0.40
21:AT:118:PRO:C	21:AT:120:GLY:N	2.80	0.40
22:AU:106:ILE:O	22:AU:107:THR:OG1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AV:64:GLU:OE1	29:Ab:2:VAL:HG22	2.21	0.40
25:AX:107:PHE:CE1	25:AX:123:LYS:HB3	2.56	0.40
28:Aa:18:VAL:HG21	28:Aa:33:ASP:OD1	2.21	0.40
29:Ab:49:HIS:CE1	29:Ab:70:LYS:HG2	2.56	0.40
33:Af:148:TYR:HD1	33:Af:148:TYR:HA	1.76	0.40
34:Ag:117:LYS:HD2	34:Ag:117:LYS:N	2.36	0.40
34:Ag:164:ASP:C	34:Ag:166:SER:H	2.29	0.40
34:Ag:307:ASP:O	34:Ag:309:VAL:HG23	2.21	0.40
36:A1:900:G:H1'	36:A1:1589:A:H61	1.86	0.40
36:A1:1262:G:H5''	36:A1:1263:A:OP2	2.21	0.40
36:A1:1483:G:O3'	36:A1:1484:U:H3'	2.22	0.40
36:A1:1492:G:O3'	75:B1:48:LYS:NZ	2.55	0.40
36:A1:1799:A:O5'	36:A1:1799:A:H8	2.05	0.40
36:A1:2102:U:H2'	36:A1:2103:U:C6	2.56	0.40
36:A1:2263:C:H6	36:A1:2263:C:O5'	2.03	0.40
36:A1:2278:C:OP2	77:Bn:23:ARG:NH1	2.54	0.40
36:A1:2343:C:H2'	36:A1:2344:U:H6	1.86	0.40
36:A1:2529:A:P	45:BG:248:LYS:NZ	2.93	0.40
36:A1:2567:C:C2'	36:A1:2568:C:H5'	2.52	0.40
36:A1:2771:U:H2'	36:A1:2772:C:O2	2.21	0.40
36:A1:2948:C:O2'	40:BB:242:THR:HB	2.21	0.40
36:A1:3095:U:H6	36:A1:3095:U:O5'	2.04	0.40
36:A1:3113:A:H4'	46:BH:69:ARG:HB3	2.02	0.40
36:A1:3355:U:H3'	36:A1:3356:G:C5'	2.51	0.40
86:A1:3478:OHX:N4	86:A1:3788:OHX:N1	2.70	0.40
40:BB:283:TYR:CZ	40:BB:325:LYS:HB2	2.56	0.40
40:BB:370:PHE:HD1	40:BB:375:GLU:HG2	1.86	0.40
41:BC:216:VAL:HA	41:BC:227:THR:HG21	2.03	0.40
43:BE:173:MET:HE3	43:BE:173:MET:HB3	1.78	0.40
48:BJ:108:GLU:C	48:BJ:110:ILE:H	2.29	0.40
49:BL:189:GLU:O	49:BL:192:GLU:HG2	2.21	0.40
52:BO:15[B]:LEU:HA	52:BO:15[B]:LEU:HD23	1.88	0.40
55:BR:17:VAL:HG12	55:BR:18:GLY:H	1.87	0.40
55:BR:165:LYS:HE3	55:BR:165:LYS:HB2	1.77	0.40
59:BV:40:LYS:HE3	59:BV:40:LYS:HB3	1.89	0.40
69:Bf:42:GLN:HA	69:Bf:45:LEU:HG	2.04	0.40
78:Bo:69:VAL:HG22	78:Bo:84:THR:HB	2.04	0.40
78:Bo:74:CYS:HB3	78:Bo:77:CYS:SG	2.60	0.40
80:A6:234:G:H2'	80:A6:235:G:O4'	2.21	0.40
80:A6:341:A:H4'	10:CI:87:ASN:ND2	2.37	0.40
80:A6:543:C:O2	80:A6:543:C:O4'	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:A6:568:G:O2'	80:A6:569:C:H5'	2.21	0.40
80:A6:711:U:H5'	80:A6:712:G:OP2	2.22	0.40
80:A6:1081:A:O2'	80:A6:1082:C:O5'	2.34	0.40
80:A6:1234:A:H2'	80:A6:1245:G:C8	2.57	0.40
2:CA:7:PHE:CZ	2:CA:191:ARG:HD2	2.57	0.40
2:CA:146:LEU:HD13	2:CA:162:CYS:SG	2.62	0.40
4:CC:121:VAL:O	4:CC:125:ILE:HG13	2.21	0.40
6:CE:206:ASP:HB2	6:CE:222:LEU:HB2	2.03	0.40
7:CF:43:PHE:O	7:CF:44:ASN:C	2.65	0.40
8:CG:132:ARG:C	8:CG:133:LEU:HD12	2.46	0.40
10:CI:69:SER:OG	10:CI:185:GLU:OE2	2.37	0.40
11:CJ:60:LEU:HD23	11:CJ:60:LEU:HA	1.95	0.40
17:CP:44:ARG:O	17:CP:48:GLY:N	2.53	0.40
21:CT:25:GLN:O	21:CT:27:LYS:N	2.52	0.40
21:CT:141:GLU:C	21:CT:143:ASP:H	2.29	0.40
24:CW:25:VAL:HG22	24:CW:65:LEU:HD21	2.02	0.40
25:CX:31:LYS:HD3	25:CX:31:LYS:HA	1.88	0.40
32:Ce:43:ARG:HG3	32:Ce:43:ARG:NH1	2.27	0.40
36:A5:139:G:H2'	36:A5:140:C:C6	2.56	0.40
36:A5:142:C:H2'	36:A5:143:G:O4'	2.22	0.40
36:A5:147:U:O4	45:DG:183:LYS:HE2	2.22	0.40
36:A5:797:U:O2'	36:A5:798:G:H5'	2.21	0.40
36:A5:916:G:C5'	36:A5:917:A:OP1	2.69	0.40
36:A5:1046:A:H2'	36:A5:1049:C:C5	2.56	0.40
36:A5:1213:G:OP1	56:DS:137:ARG:HD3	2.22	0.40
36:A5:2818:U:C6	36:A5:2818:U:C5'	2.95	0.40
36:A5:3066:U:H2'	36:A5:3067:C:C6	2.57	0.40
36:A5:3255:U:O5'	36:A5:3255:U:H6	2.04	0.40
86:A5:3579:OHX:N6	86:A5:3588:OHX:N5	2.69	0.40
37:A7:4:U:H2'	37:A7:5:G:H8	1.86	0.40
39:DA:68:LYS:HG3	39:DA:69:TYR:N	2.36	0.40
40:DB:291:GLU:H	40:DB:291:GLU:HG3	1.76	0.40
43:DE:155:LEU:HD23	43:DE:155:LEU:HA	1.76	0.40
44:DF:158:LYS:HD2	44:DF:158:LYS:C	2.46	0.40
45:DG:82:LEU:HD13	45:DG:178:ALA:HB1	2.02	0.40
45:DG:214:LEU:HD12	45:DG:214:LEU:HA	1.78	0.40
46:DH:57:VAL:HG23	46:DH:68:LEU:HG	2.04	0.40
51:DN:6:TYR:CE2	72:Di:40:VAL:HG22	2.55	0.40
51:DN:135:VAL:O	51:DN:137:PRO:HD3	2.21	0.40
52:DO:157[B]:GLU:OE2	52:DO:160[B]:ARG:NH1	2.46	0.40
53:DP:36:ILE:O	53:DP:39:TRP:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Da:4:ARG:HH11	64:Da:4:ARG:HD2	1.66	0.40
74:Dk:5:ILE:HG22	74:Dk:54:LEU:HB2	2.02	0.40
1:A2:142:G:C8	1:A2:266:A:N1	2.89	0.40
1:A2:477:A:OP1	32:Ae:30:PRO:HA	2.21	0.40
1:A2:570:A:H5''	1:A2:571:G:OP2	2.21	0.40
1:A2:600:U:OP2	25:AX:108:GLY:HA2	2.22	0.40
1:A2:952:A:O2'	15:AN:114:ARG:HG3	2.21	0.40
1:A2:992:A:O4'	1:A2:992:A:N3	2.54	0.40
1:A2:1018:U:H2'	1:A2:1019:A:C8	2.56	0.40
1:A2:1490:C:H1'	1:A2:1491:U:O4'	2.22	0.40
1:A2:1585:U:N3	1:A2:1611:A:C2	2.67	0.40
86:A2:1983:OHX:N2	86:A2:2082:OHX:N6	2.69	0.40
86:A2:2017:OHX:N4	86:A2:2076:OHX:N2	2.69	0.40
3:AB:48:VAL:HG11	3:AB:57:ALA:HB1	2.04	0.40
4:AC:148:LEU:HD22	4:AC:148:LEU:HA	1.92	0.40
5:AD:161:GLY:O	5:AD:164:VAL:HB	2.22	0.40
9:AH:62:VAL:HG11	9:AH:70:PHE:HD2	1.87	0.40
9:AH:96:ARG:NH1	9:AH:124:LYS:HB3	2.37	0.40
10:AI:21:PHE:CZ	10:AI:22:ARG:HD3	2.56	0.40
11:AJ:27:GLU:HB3	11:AJ:39:LYS:HD2	2.03	0.40
14:AM:55:GLY:HA2	14:AM:85:LYS:HD2	2.03	0.40
15:AN:33:VAL:HA	15:AN:36:GLN:HB2	2.02	0.40
19:AR:66:VAL:HG12	19:AR:69:ILE:HD11	2.04	0.40
23:AV:16:LYS:HG2	23:AV:21:ASN:HA	2.03	0.40
29:Ab:62:ILE:HG23	29:Ab:63:LEU:N	2.37	0.40
34:Ag:21:THR:O	34:Ag:291:SER:HB3	2.22	0.40
34:Ag:38:ARG:HG2	34:Ag:67:ILE:HD13	2.03	0.40
35:Ah:117:LEU:HD21	35:Ah:121:LYS:HD2	2.03	0.40
36:A1:848:A:C5	36:A1:849:C:H1'	2.57	0.40
36:A1:855:U:H2'	36:A1:856:G:O4'	2.20	0.40
36:A1:1362:G:H2'	36:A1:1363:A:C8	2.57	0.40
36:A1:1569:U:H5''	36:A1:1570:U:C6	2.55	0.40
36:A1:1580:A:H4'	36:A1:1581:C:OP1	2.19	0.40
36:A1:1820:U:H1'	36:A1:1821:U:OP2	2.22	0.40
36:A1:2156:C:OP1	39:BA:241:ARG:NH2	2.54	0.40
36:A1:2622:C:C2'	36:A1:2623:G:H5'	2.51	0.40
36:A1:2921:U:H2'	36:A1:2923:U:H5''	2.02	0.40
36:A1:3178:A:N3	52:BO:115[A]:LYS:HG2	2.37	0.40
40:BB:206:ASP:OD1	40:BB:206:ASP:N	2.45	0.40
44:BF:38:LYS:HE3	44:BF:38:LYS:HB2	1.79	0.40
44:BF:139:PRO:HA	44:BF:237:ASN:OD1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BH:92:TYR:CG	46:BH:142:ASP:HB3	2.57	0.40
48:BJ:110:ILE:O	48:BJ:112:LEU:N	2.54	0.40
49:BL:76:THR:HG23	49:BL:101:ARG:NH1	2.37	0.40
52:BO:29[B]:ASN:OD1	69:Bf:14:LEU:HD22	2.21	0.40
52:BO:192[A]:LYS:H	52:BO:192[A]:LYS:HG2	1.61	0.40
60:BW:8:PHE:CE2	60:BW:46:PRO:HG3	2.56	0.40
60:BW:39:LEU:HD12	60:BW:44:LYS:HG3	2.04	0.40
64:Ba:120:ASN:O	64:Ba:141:ALA:HB1	2.21	0.40
71:Bh:4:VAL:H	71:Bh:4:VAL:HG13	1.62	0.40
73:Bj:88:ALA:C	86:Bj:101:OHX:N4	2.79	0.40
80:A6:11:A:N1	80:A6:1143:A:H2	2.20	0.40
80:A6:12:U:H2'	80:A6:13:C:C6	2.56	0.40
80:A6:36:C:H2'	80:A6:37:U:C6	2.57	0.40
80:A6:788:A:C4	6:CE:19:LEU:HD13	2.56	0.40
80:A6:1556:A:P	17:CP:44:ARG:HE	2.45	0.40
2:CA:149:LEU:HD23	2:CA:149:LEU:HA	1.84	0.40
3:CB:116:LYS:HB3	3:CB:117:TRP:CD1	2.57	0.40
3:CB:136:ARG:HG2	3:CB:138:PHE:CE2	2.56	0.40
3:CB:144:ARG:HB3	3:CB:208:GLN:HB3	2.03	0.40
4:CC:162:CYS:O	4:CC:163:GLY:C	2.63	0.40
5:CD:162:GLN:C	5:CD:164:VAL:N	2.78	0.40
7:CF:114:ILE:HD13	7:CF:114:ILE:HA	1.60	0.40
7:CF:150:GLY:H	30:Cc:67:ARG:C	2.30	0.40
8:CG:35:GLU:HA	8:CG:50:PHE:O	2.22	0.40
9:CH:21:ALA:O	9:CH:24:PHE:N	2.55	0.40
9:CH:56:LYS:HD2	9:CH:88:ARG:HH12	1.86	0.40
19:CR:57:LEU:HD23	19:CR:57:LEU:HA	1.91	0.40
20:CS:94:ASP:CG	20:CS:96:LYS:HG3	2.47	0.40
28:Ca:34:LYS:O	28:Ca:35:ALA:HB3	2.21	0.40
28:Ca:45:VAL:HG11	28:Ca:53:LEU:HG	2.04	0.40
29:Cb:62:ILE:HG23	29:Cb:63:LEU:N	2.35	0.40
34:Cg:61:PHE:HD1	34:Cg:92:TRP:CE3	2.40	0.40
36:A5:594:U:O2'	36:A5:595:G:H5'	2.21	0.40
36:A5:735:A:H8	36:A5:735:A:C5'	2.35	0.40
36:A5:806:A:H5''	36:A5:936:A:H61	1.85	0.40
36:A5:1192:C:N4	36:A5:1302:A:P	2.95	0.40
36:A5:1769:G:O6	86:A5:3766:OHX:N2	2.55	0.40
36:A5:2138:A:C4	73:Dj:3:LYS:HB3	2.56	0.40
36:A5:2442:G:N2	36:A5:2506:U:H3	2.17	0.40
36:A5:2697:A:H2'	36:A5:2698:G:C8	2.56	0.40
36:A5:3132:C:H2'	36:A5:3133:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:A5:3389:U:O4	86:A5:3726:OHX:N4	2.54	0.40
86:A5:3467:OHX:N1	86:A5:3819:OHX:N3	2.69	0.40
86:A5:3610:OHX:N6	86:A5:3813:OHX:N3	2.70	0.40
37:A7:90:U:O5'	37:A7:90:U:H6	2.04	0.40
37:A7:113:C:H2'	37:A7:114:U:O4'	2.22	0.40
38:A8:120:C:H2'	38:A8:121:U:O4'	2.22	0.40
39:DA:40:TYR:HA	39:DA:90:ALA:O	2.21	0.40
40:DB:233:TRP:CD1	40:DB:265:ALA:HB1	2.56	0.40
40:DB:239:PRO:O	40:DB:242:THR:HG23	2.21	0.40
41:DC:93:MET:HE2	41:DC:93:MET:H	1.85	0.40
41:DC:99:MET:HE3	41:DC:103:THR:H	1.86	0.40
43:DE:13:GLU:OE2	68:De:91:THR:HB	2.22	0.40
44:DF:229:PHE:C	44:DF:229:PHE:HD1	2.29	0.40
46:DH:90:MET:HE2	46:DH:90:MET:HB3	1.82	0.40
46:DH:128:VAL:HG22	46:DH:134:ILE:HD13	2.03	0.40
51:DN:49:ARG:HB3	51:DN:50:ARG:H	1.68	0.40
51:DN:193:ARG:HH11	51:DN:193:ARG:HD2	1.75	0.40
52:DO:78[B]:ARG:NH2	52:DO:81[B]:TYR:CD2	2.90	0.40
52:DO:88[B]:VAL:HG12	52:DO:89[B]:SER:N	2.36	0.40
54:DQ:99:THR:HB	54:DQ:100:THR:H	1.56	0.40
58:DU:14:THR:HG23	58:DU:66:VAL:HG13	2.03	0.40
63:DZ:4:PHE:CE2	66:Dc:63:SER:HB3	2.56	0.40
66:Dc:9:SER:HG	66:Dc:12:GLN:H	1.70	0.40
74:Dk:41:THR:HG21	74:Dk:62:ALA:HB1	2.03	0.40
76:Dm:82:LEU:HD23	76:Dm:82:LEU:HA	1.84	0.40
78:Do:71:ARG:HG3	78:Do:71:ARG:HH11	1.85	0.40
79:Dp:35:ALA:HB3	79:Dp:37:TYR:CE2	2.56	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	Interatomic distance (Å)	Clash overlap (Å)
20:AS:97:ASP:OD2	86:A1:3788:OHX:N2[2_545]	2.06	0.14
47:DI:218:ALA:O	86:CG:301:OHX:N3[2_647]	2.16	0.04

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	AA	204/252 (81%)	143 (70%)	35 (17%)	26 (13%)	0	1
2	CA	204/252 (81%)	146 (72%)	33 (16%)	25 (12%)	0	1
3	AB	212/255 (83%)	133 (63%)	41 (19%)	38 (18%)	0	0
3	CB	214/255 (84%)	174 (81%)	25 (12%)	15 (7%)	1	4
4	AC	215/254 (85%)	187 (87%)	16 (7%)	12 (6%)	1	8
4	CC	215/254 (85%)	188 (87%)	14 (6%)	13 (6%)	1	7
5	AD	221/240 (92%)	180 (81%)	28 (13%)	13 (6%)	1	7
5	CD	221/240 (92%)	177 (80%)	23 (10%)	21 (10%)	0	2
6	AE	258/261 (99%)	201 (78%)	36 (14%)	21 (8%)	1	3
6	CE	258/261 (99%)	219 (85%)	19 (7%)	20 (8%)	1	4
7	AF	204/225 (91%)	154 (76%)	31 (15%)	19 (9%)	0	2
7	CF	204/225 (91%)	155 (76%)	32 (16%)	17 (8%)	0	3
8	AG	224/236 (95%)	190 (85%)	22 (10%)	12 (5%)	1	9
8	CG	216/236 (92%)	183 (85%)	21 (10%)	12 (6%)	1	8
9	AH	182/190 (96%)	127 (70%)	28 (15%)	27 (15%)	0	0
9	CH	184/190 (97%)	143 (78%)	23 (12%)	18 (10%)	0	2
10	AI	184/200 (92%)	155 (84%)	14 (8%)	15 (8%)	0	3
10	CI	184/200 (92%)	160 (87%)	17 (9%)	7 (4%)	2	15
11	AJ	183/197 (93%)	152 (83%)	19 (10%)	12 (7%)	1	5
11	CJ	183/197 (93%)	152 (83%)	17 (9%)	14 (8%)	1	4
12	AK	94/105 (90%)	66 (70%)	18 (19%)	10 (11%)	0	2
12	CK	92/105 (88%)	59 (64%)	15 (16%)	18 (20%)	0	0
13	AL	153/156 (98%)	125 (82%)	19 (12%)	9 (6%)	1	7
13	CL	144/156 (92%)	118 (82%)	15 (10%)	11 (8%)	1	4
14	AM	122/143 (85%)	66 (54%)	23 (19%)	33 (27%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CM	122/143 (85%)	60 (49%)	31 (25%)	31 (25%)	0	0
15	AN	148/151 (98%)	125 (84%)	15 (10%)	8 (5%)	1	9
15	CN	148/151 (98%)	129 (87%)	10 (7%)	9 (6%)	1	7
16	AO	125/137 (91%)	94 (75%)	16 (13%)	15 (12%)	0	1
16	CO	126/137 (92%)	101 (80%)	20 (16%)	5 (4%)	2	14
17	AP	122/142 (86%)	92 (75%)	15 (12%)	15 (12%)	0	1
17	CP	133/142 (94%)	91 (68%)	20 (15%)	22 (16%)	0	0
18	AQ	139/143 (97%)	114 (82%)	14 (10%)	11 (8%)	1	3
18	CQ	140/143 (98%)	122 (87%)	10 (7%)	8 (6%)	1	8
19	AR	116/136 (85%)	87 (75%)	17 (15%)	12 (10%)	0	2
19	CR	113/136 (83%)	92 (81%)	12 (11%)	9 (8%)	1	3
20	AS	143/146 (98%)	110 (77%)	19 (13%)	14 (10%)	0	2
20	CS	143/146 (98%)	111 (78%)	25 (18%)	7 (5%)	1	10
21	AT	141/144 (98%)	111 (79%)	18 (13%)	12 (8%)	0	3
21	CT	141/144 (98%)	125 (89%)	9 (6%)	7 (5%)	1	10
22	AU	105/121 (87%)	87 (83%)	13 (12%)	5 (5%)	2	11
22	CU	108/121 (89%)	81 (75%)	12 (11%)	15 (14%)	0	1
23	AV	85/87 (98%)	64 (75%)	11 (13%)	10 (12%)	0	1
23	CV	85/87 (98%)	71 (84%)	7 (8%)	7 (8%)	0	3
24	AW	127/130 (98%)	114 (90%)	10 (8%)	3 (2%)	4	24
24	CW	127/130 (98%)	115 (91%)	12 (9%)	0	100	100
25	AX	142/145 (98%)	111 (78%)	13 (9%)	18 (13%)	0	1
25	CX	142/145 (98%)	127 (89%)	13 (9%)	2 (1%)	9	36
26	AY	132/135 (98%)	106 (80%)	13 (10%)	13 (10%)	0	2
26	CY	132/135 (98%)	100 (76%)	17 (13%)	15 (11%)	0	1
27	AZ	68/108 (63%)	46 (68%)	11 (16%)	11 (16%)	0	0
27	CZ	67/108 (62%)	50 (75%)	10 (15%)	7 (10%)	0	2
28	Aa	95/119 (80%)	57 (60%)	21 (22%)	17 (18%)	0	0
28	Ca	95/119 (80%)	67 (70%)	20 (21%)	8 (8%)	0	3
29	Ab	79/82 (96%)	62 (78%)	13 (16%)	4 (5%)	1	10
29	Cb	79/82 (96%)	62 (78%)	9 (11%)	8 (10%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
30	Ac	61/67 (91%)	47 (77%)	9 (15%)	5 (8%)	0	3
30	Cc	61/67 (91%)	41 (67%)	17 (28%)	3 (5%)	1	10
31	Ad	51/56 (91%)	43 (84%)	6 (12%)	2 (4%)	2	14
31	Cd	51/56 (91%)	45 (88%)	2 (4%)	4 (8%)	1	4
32	Ae	58/63 (92%)	49 (84%)	7 (12%)	2 (3%)	3	17
32	Ce	60/63 (95%)	45 (75%)	9 (15%)	6 (10%)	0	2
33	Af	50/152 (33%)	30 (60%)	9 (18%)	11 (22%)	0	0
33	Cf	50/152 (33%)	26 (52%)	13 (26%)	11 (22%)	0	0
34	Ag	316/319 (99%)	273 (86%)	30 (10%)	13 (4%)	2	13
34	Cg	316/319 (99%)	262 (83%)	38 (12%)	16 (5%)	1	10
35	Ah	120/273 (44%)	92 (77%)	17 (14%)	11 (9%)	0	2
39	BA	250/254 (98%)	230 (92%)	14 (6%)	6 (2%)	4	24
39	DA	250/254 (98%)	213 (85%)	30 (12%)	7 (3%)	4	21
40	BB	384/387 (99%)	333 (87%)	37 (10%)	14 (4%)	2	16
40	DB	384/387 (99%)	341 (89%)	34 (9%)	9 (2%)	5	25
41	BC	359/362 (99%)	304 (85%)	34 (10%)	21 (6%)	1	8
41	DC	359/362 (99%)	306 (85%)	32 (9%)	21 (6%)	1	8
42	BD	294/297 (99%)	242 (82%)	31 (10%)	21 (7%)	1	4
42	DD	292/297 (98%)	267 (91%)	19 (6%)	6 (2%)	5	27
43	BE	152/176 (86%)	137 (90%)	11 (7%)	4 (3%)	4	23
43	DE	153/176 (87%)	134 (88%)	15 (10%)	4 (3%)	4	23
44	BF	220/244 (90%)	200 (91%)	11 (5%)	9 (4%)	2	13
44	DF	221/244 (91%)	201 (91%)	15 (7%)	5 (2%)	5	25
45	BG	231/256 (90%)	186 (80%)	26 (11%)	19 (8%)	0	3
45	DG	229/256 (90%)	180 (79%)	28 (12%)	21 (9%)	0	2
46	BH	189/191 (99%)	166 (88%)	17 (9%)	6 (3%)	3	18
46	DH	189/191 (99%)	172 (91%)	13 (7%)	4 (2%)	5	27
47	BI	207/221 (94%)	181 (87%)	19 (9%)	7 (3%)	3	17
47	DI	209/221 (95%)	175 (84%)	22 (10%)	12 (6%)	1	8
48	BJ	167/174 (96%)	120 (72%)	26 (16%)	21 (13%)	0	1
48	DJ	167/174 (96%)	135 (81%)	19 (11%)	13 (8%)	1	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
49	BL	191/199 (96%)	161 (84%)	18 (9%)	12 (6%)	1	6
49	DL	192/199 (96%)	161 (84%)	20 (10%)	11 (6%)	1	8
50	BM	134/138 (97%)	117 (87%)	8 (6%)	9 (7%)	1	5
50	DM	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	53
51	BN	201/204 (98%)	184 (92%)	10 (5%)	7 (4%)	3	16
51	DN	201/204 (98%)	182 (90%)	13 (6%)	6 (3%)	3	19
52	BO	353/219 (161%)	332 (94%)	14 (4%)	7 (2%)	6	28
52	DO	352/219 (161%)	324 (92%)	18 (5%)	10 (3%)	4	21
53	BP	181/184 (98%)	155 (86%)	17 (9%)	9 (5%)	1	10
53	DP	153/184 (83%)	142 (93%)	9 (6%)	2 (1%)	9	38
54	BQ	183/186 (98%)	162 (88%)	17 (9%)	4 (2%)	5	26
54	DQ	183/186 (98%)	168 (92%)	9 (5%)	6 (3%)	3	17
55	BR	186/189 (98%)	170 (91%)	12 (6%)	4 (2%)	5	26
55	DR	186/189 (98%)	167 (90%)	16 (9%)	3 (2%)	7	34
56	BS	170/172 (99%)	154 (91%)	12 (7%)	4 (2%)	4	24
56	DS	170/172 (99%)	163 (96%)	6 (4%)	1 (1%)	21	56
57	BT	157/160 (98%)	140 (89%)	10 (6%)	7 (4%)	2	12
57	DT	157/160 (98%)	146 (93%)	9 (6%)	2 (1%)	9	38
58	BU	98/121 (81%)	75 (76%)	14 (14%)	9 (9%)	0	2
58	DU	96/121 (79%)	80 (83%)	13 (14%)	3 (3%)	3	19
59	BV	134/137 (98%)	124 (92%)	9 (7%)	1 (1%)	18	53
59	DV	134/137 (98%)	124 (92%)	8 (6%)	2 (2%)	8	35
60	BW	96/155 (62%)	69 (72%)	16 (17%)	11 (12%)	0	1
60	DW	133/155 (86%)	106 (80%)	19 (14%)	8 (6%)	1	7
61	BX	119/142 (84%)	106 (89%)	11 (9%)	2 (2%)	7	32
61	DX	118/142 (83%)	103 (87%)	7 (6%)	8 (7%)	1	5
62	BY	124/127 (98%)	107 (86%)	15 (12%)	2 (2%)	7	34
62	DY	124/127 (98%)	107 (86%)	12 (10%)	5 (4%)	2	14
63	BZ	133/136 (98%)	114 (86%)	9 (7%)	10 (8%)	1	4
63	DZ	133/136 (98%)	107 (80%)	13 (10%)	13 (10%)	0	2
64	Ba	146/149 (98%)	120 (82%)	15 (10%)	11 (8%)	1	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
64	Da	146/149 (98%)	123 (84%)	18 (12%)	5 (3%)	3	17
65	Bb	56/59 (95%)	44 (79%)	9 (16%)	3 (5%)	1	9
65	Db	56/59 (95%)	44 (79%)	7 (12%)	5 (9%)	0	3
66	Bc	95/105 (90%)	86 (90%)	8 (8%)	1 (1%)	11	43
66	Dc	98/105 (93%)	87 (89%)	8 (8%)	3 (3%)	3	19
67	Bd	107/113 (95%)	94 (88%)	8 (8%)	5 (5%)	2	11
67	Dd	107/113 (95%)	88 (82%)	13 (12%)	6 (6%)	1	8
68	Be	125/130 (96%)	111 (89%)	10 (8%)	4 (3%)	3	18
68	De	125/130 (96%)	110 (88%)	9 (7%)	6 (5%)	2	11
69	Bf	104/107 (97%)	100 (96%)	2 (2%)	2 (2%)	6	30
69	Df	104/107 (97%)	96 (92%)	5 (5%)	3 (3%)	3	20
70	Bg	110/121 (91%)	97 (88%)	9 (8%)	4 (4%)	2	16
70	Dg	110/121 (91%)	93 (84%)	13 (12%)	4 (4%)	2	16
71	Bh	117/120 (98%)	99 (85%)	10 (8%)	8 (7%)	1	5
71	Dh	117/120 (98%)	99 (85%)	14 (12%)	4 (3%)	3	17
72	Bi	97/100 (97%)	75 (77%)	11 (11%)	11 (11%)	0	1
72	Di	97/100 (97%)	77 (79%)	13 (13%)	7 (7%)	1	4
73	Bj	85/88 (97%)	70 (82%)	12 (14%)	3 (4%)	3	16
73	Dj	85/88 (97%)	75 (88%)	8 (9%)	2 (2%)	4	24
74	Bk	75/78 (96%)	66 (88%)	8 (11%)	1 (1%)	9	38
74	Dk	75/78 (96%)	61 (81%)	10 (13%)	4 (5%)	1	9
75	Bl	48/51 (94%)	44 (92%)	4 (8%)	0	100	100
75	Dl	48/51 (94%)	41 (85%)	6 (12%)	1 (2%)	5	27
76	Bm	50/128 (39%)	45 (90%)	3 (6%)	2 (4%)	2	14
76	Dm	50/128 (39%)	48 (96%)	1 (2%)	1 (2%)	6	28
77	Bn	23/25 (92%)	20 (87%)	3 (13%)	0	100	100
77	Dn	23/25 (92%)	22 (96%)	0	1 (4%)	2	12
78	Bo	103/106 (97%)	86 (84%)	13 (13%)	4 (4%)	2	14
78	Do	103/106 (97%)	90 (87%)	11 (11%)	2 (2%)	6	30
79	Bp	89/92 (97%)	77 (86%)	9 (10%)	3 (3%)	3	17
79	Dp	89/92 (97%)	81 (91%)	8 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
81	Ch	61/273 (22%)	38 (62%)	9 (15%)	14 (23%)	0	0
83	Dq	117/312 (38%)	93 (80%)	18 (15%)	6 (5%)	1	10
All	All	22511/24658 (91%)	18787 (84%)	2329 (10%)	1395 (6%)	1	6

All (1395) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AA	4	PRO
2	AA	29	VAL
2	AA	30	GLN
2	AA	39	ASN
2	AA	66	ALA
2	AA	95	ALA
2	AA	111	ILE
2	AA	191	ARG
2	AA	203	PHE
2	AA	205	ARG
3	AB	21	VAL
3	AB	26	ARG
3	AB	49	ASN
3	AB	58	SER
3	AB	60	ALA
3	AB	63	GLY
3	AB	113	MET
3	AB	116	LYS
3	AB	176	VAL
3	AB	177	GLN
3	AB	179	SER
3	AB	182	ALA
3	AB	206	PRO
3	AB	221	PRO
4	AC	146	THR
4	AC	148	LEU
5	AD	4	LEU
5	AD	62	ASN
5	AD	65	ARG
5	AD	93	ASP
5	AD	211	PRO
5	AD	212	LYS
5	AD	216	PRO
5	AD	220	PRO

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Mol	Chain	Res	Type
6	AE	104	ASP
6	AE	142	HIS
6	AE	153	ASN
6	AE	164	LEU
6	AE	260	GLY
7	AF	26	ALA
7	AF	39	GLU
7	AF	43	PHE
7	AF	63	GLN
7	AF	101	GLY
7	AF	153	GLY
7	AF	206	SER
8	AG	20	ASP
8	AG	25	ARG
8	AG	154	ARG
8	AG	173	PRO
8	AG	174	LYS
9	AH	31	SER
9	AH	36	ALA
9	AH	64	VAL
9	AH	67	LEU
9	AH	98	ILE
9	AH	105	THR
9	AH	111	LYS
9	AH	112	ARG
9	AH	131	PHE
9	AH	133	THR
9	AH	134	GLU
9	AH	155	ASP
10	AI	13	ALA
10	AI	22	ARG
10	AI	147	ALA
10	AI	149	SER
11	AJ	98	ALA
11	AJ	100	LYS
11	AJ	118	LEU
11	AJ	121	SER
11	AJ	164	PHE
12	AK	60	SER
12	AK	81	ASN
12	AK	87	VAL
12	AK	88	PRO

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Mol	Chain	Res	Type
12	AK	93	GLN
13	AL	7	VAL
13	AL	29	LYS
13	AL	133	LYS
14	AM	21	GLU
14	AM	25	GLU
14	AM	45	LEU
14	AM	55	GLY
14	AM	83	GLU
14	AM	87	PRO
14	AM	89	ILE
14	AM	90	LYS
14	AM	93	ASP
14	AM	126	TRP
15	AN	19	SER
15	AN	22	ALA
16	AO	38	THR
16	AO	39	ILE
16	AO	124	ASP
16	AO	125	SER
16	AO	126	THR
17	AP	29	SER
17	AP	54	ALA
17	AP	125	PRO
17	AP	126	VAL
18	AQ	41	PRO
18	AQ	58	ASP
18	AQ	59	LYS
18	AQ	114	ARG
18	AQ	116	LEU
18	AQ	138	PHE
19	AR	6	THR
19	AR	26	LEU
19	AR	85	VAL
19	AR	86	PRO
19	AR	88	VAL
19	AR	96	SER
19	AR	124	VAL
20	AS	14	ILE
20	AS	25	ASN
20	AS	28	ILE
20	AS	60	GLU

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Mol	Chain	Res	Type
20	AS	91	ASP
20	AS	92	ILE
21	AT	31	PRO
21	AT	53	TRP
21	AT	69	LYS
22	AU	118	VAL
23	AV	4	ASP
23	AV	7	GLN
23	AV	11	LEU
25	AX	3	LYS
25	AX	41	SER
25	AX	96	VAL
25	AX	114	LYS
25	AX	128	SER
25	AX	131	SER
25	AX	137	LYS
25	AX	138	GLU
25	AX	144	ARG
26	AY	32	ARG
26	AY	36	SER
26	AY	78	SER
27	AZ	38	HIS
27	AZ	39	ALA
27	AZ	43	ASP
27	AZ	44	GLN
27	AZ	54	VAL
27	AZ	71	ILE
27	AZ	88	ILE
28	Aa	19	LYS
28	Aa	45	VAL
28	Aa	46	GLU
28	Aa	62	TYR
28	Aa	65	PRO
28	Aa	82	ARG
28	Aa	84	VAL
28	Aa	85	ARG
29	Ab	38	PRO
29	Ab	62	ILE
30	Ac	36	THR
30	Ac	51	ASN
31	Ad	8	PHE
32	Ae	47	VAL

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Mol	Chain	Res	Type
33	Af	102	VAL
33	Af	103	LEU
33	Af	106	TYR
33	Af	111	GLU
33	Af	128	ALA
33	Af	148	TYR
34	Ag	51	ASP
34	Ag	160	GLU
34	Ag	318	ALA
35	Ah	47	ALA
35	Ah	52	PRO
35	Ah	85	SER
35	Ah	87	THR
39	BA	144	ASN
40	BB	3	HIS
40	BB	5	LYS
40	BB	140	ASP
40	BB	174	LYS
40	BB	300	ARG
40	BB	347	SER
40	BB	351	LEU
40	BB	385	LYS
41	BC	4	PRO
41	BC	268	ALA
41	BC	269	SER
41	BC	283	THR
41	BC	292	SER
41	BC	320	ASN
41	BC	338	LYS
41	BC	361	HIS
42	BD	20	PHE
42	BD	58	LYS
42	BD	124	GLU
42	BD	125	VAL
42	BD	210	GLU
42	BD	233	ALA
42	BD	234	ASP
42	BD	258	LYS
42	BD	276	LYS
42	BD	293	LEU
42	BD	295	GLY
43	BE	6	ALA

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Mol	Chain	Res	Type
44	BF	25	GLN
44	BF	26	VAL
44	BF	216	VAL
45	BG	25	PRO
45	BG	31	PRO
45	BG	36	ILE
45	BG	37	GLY
45	BG	156	ASP
46	BH	50	ASN
46	BH	109	ALA
47	BI	113	GLN
47	BI	207	GLU
47	BI	218	ALA
47	BI	219	ALA
48	BJ	8	PRO
48	BJ	11	ASP
48	BJ	12	LEU
48	BJ	74	PRO
48	BJ	94	ARG
48	BJ	165	GLN
49	BL	5	LYS
49	BL	47	ALA
49	BL	50	PRO
49	BL	129	ASN
49	BL	131	LYS
49	BL	193	ALA
50	BM	8	LYS
50	BM	9	ALA
50	BM	135	LEU
50	BM	136	ALA
51	BN	74	PRO
51	BN	75	VAL
52	BO	3[B]	SER
52	BO	111[A]	PRO
52	BO	111[B]	PRO
53	BP	157	VAL
54	BQ	99	THR
55	BR	5	ARG
55	BR	47	ASN
56	BS	167	ARG
57	BT	124	VAL
57	BT	159	PHE

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Mol	Chain	Res	Type
58	BU	107	PHE
60	BW	26	SER
60	BW	81	PRO
60	BW	86	SER
60	BW	97	LYS
61	BX	44	PRO
62	BY	84	LYS
63	BZ	17	ARG
63	BZ	59	ALA
63	BZ	125	GLY
63	BZ	128	GLN
63	BZ	129	TRP
64	Ba	66	ALA
64	Ba	76	ASP
66	Bc	100	ILE
67	Bd	5	LYS
67	Bd	6	ASP
67	Bd	7	VAL
67	Bd	83	GLU
67	Bd	84	ASP
68	Be	12	LYS
68	Be	27	ARG
68	Be	123	LYS
71	Bh	97	ALA
71	Bh	119	LYS
72	Bi	13	LYS
72	Bi	33	ALA
73	Bj	85	LYS
76	Bm	78	ILE
78	Bo	94	GLY
78	Bo	100	LYS
2	CA	4	PRO
2	CA	8	ASP
2	CA	22	THR
2	CA	23	HIS
2	CA	44	GLY
2	CA	163	ASN
2	CA	164	ASN
2	CA	185	ARG
2	CA	187	ALA
2	CA	189	VAL
2	CA	203	PHE

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Mol	Chain	Res	Type
2	CA	206	ASP
3	CB	26	ARG
3	CB	62	LYS
3	CB	81	PHE
3	CB	82	ARG
3	CB	147	ALA
3	CB	179	SER
3	CB	206	PRO
3	CB	210	ILE
3	CB	223	PHE
4	CC	91	ARG
4	CC	92	ALA
4	CC	107	SER
4	CC	248	SER
5	CD	4	LEU
5	CD	44	THR
5	CD	61	GLU
5	CD	91	VAL
5	CD	113	LEU
5	CD	115	ILE
5	CD	211	PRO
5	CD	212	LYS
5	CD	216	PRO
5	CD	217	ILE
5	CD	219	ALA
5	CD	220	PRO
6	CE	24	SER
6	CE	95	THR
6	CE	163	ASP
6	CE	164	LEU
6	CE	196	VAL
7	CF	28	PRO
7	CF	39	GLU
7	CF	54	LYS
7	CF	58	LEU
7	CF	125	THR
7	CF	153	GLY
7	CF	184	PHE
8	CG	153	VAL
8	CG	173	PRO
8	CG	174	LYS
9	CH	10	SER

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Mol	Chain	Res	Type
9	CH	11	GLN
9	CH	31	SER
9	CH	64	VAL
9	CH	67	LEU
9	CH	74	GLN
9	CH	110	GLN
9	CH	116	ARG
9	CH	131	PHE
9	CH	163	ASP
9	CH	185	ILE
10	CI	116	HIS
11	CJ	118	LEU
11	CJ	121	SER
11	CJ	168	ARG
12	CK	23	ALA
12	CK	79	TYR
12	CK	82	LEU
12	CK	83	PRO
12	CK	88	PRO
12	CK	92	ILE
12	CK	97	PRO
14	CM	21	GLU
14	CM	66	VAL
14	CM	83	GLU
14	CM	84	ASN
14	CM	85	LYS
14	CM	87	PRO
14	CM	89	ILE
14	CM	91	VAL
14	CM	93	ASP
14	CM	109	GLU
15	CN	19	SER
15	CN	66	ILE
15	CN	87	ASP
16	CO	50	ALA
16	CO	126	THR
17	CP	9	LYS
17	CP	11	VAL
17	CP	51	SER
17	CP	52	LYS
17	CP	68	PRO
17	CP	125	PRO

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Mol	Chain	Res	Type
17	CP	126	VAL
17	CP	127	ARG
17	CP	135	THR
18	CQ	42	GLU
18	CQ	115	THR
18	CQ	116	LEU
19	CR	88	VAL
19	CR	96	SER
19	CR	98	GLY
19	CR	104	ASN
19	CR	116	LYS
20	CS	91	ASP
20	CS	92	ILE
21	CT	29	GLU
21	CT	33	TYR
21	CT	34	VAL
22	CU	15	GLN
22	CU	17	GLN
22	CU	18	GLN
22	CU	49	ASN
22	CU	52	LYS
22	CU	96	PRO
22	CU	97	VAL
23	CV	78	LEU
25	CX	131	SER
26	CY	12	VAL
26	CY	30	PRO
26	CY	33	ALA
26	CY	35	VAL
26	CY	52	LYS
26	CY	68	LYS
26	CY	121	THR
26	CY	123	LYS
27	CZ	44	GLN
27	CZ	85	LYS
27	CZ	104	ALA
28	Ca	28	LYS
28	Ca	46	GLU
28	Ca	47	ALA
28	Ca	63	ALA
29	Cb	20	LYS
29	Cb	38	PRO

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Mol	Chain	Res	Type
29	Cb	60	SER
29	Cb	62	ILE
31	Cd	6	VAL
31	Cd	19	ARG
32	Ce	45	VAL
32	Ce	60	PRO
33	Cf	102	VAL
33	Cf	103	LEU
33	Cf	106	TYR
33	Cf	136	LYS
33	Cf	148	TYR
34	Cg	4	ASN
34	Cg	160	GLU
34	Cg	163	ASP
34	Cg	165	ASP
34	Cg	318	ALA
81	Ch	42	ALA
81	Ch	50	ASN
81	Ch	66	ALA
81	Ch	69	ARG
39	DA	96	LEU
40	DB	129	ALA
40	DB	140	ASP
40	DB	347	SER
41	DC	14	GLU
41	DC	15	ALA
41	DC	90	PHE
41	DC	145	ILE
41	DC	302	ALA
41	DC	311	HIS
41	DC	329	PRO
41	DC	330	TYR
41	DC	361	HIS
42	DD	215	ASP
42	DD	260	PHE
43	DE	97	ASN
43	DE	98	VAL
44	DF	158	LYS
45	DG	25	PRO
45	DG	26	LEU
45	DG	34	PHE
45	DG	122	LYS

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Mol	Chain	Res	Type
47	DI	25	ALA
47	DI	82	ARG
47	DI	170	LYS
47	DI	175	ASN
47	DI	187	ALA
48	DJ	8	PRO
48	DJ	10	ARG
48	DJ	12	LEU
48	DJ	94	ARG
48	DJ	95	ASN
48	DJ	108	GLU
48	DJ	115	LYS
48	DJ	167	TYR
49	DL	47	ALA
49	DL	129	ASN
49	DL	134	GLU
49	DL	150	PRO
50	DM	136	ALA
51	DN	49	ARG
51	DN	146	ALA
51	DN	147	ARG
52	DO	110[A]	PRO
52	DO	110[B]	PRO
52	DO	111[A]	PRO
52	DO	111[B]	PRO
52	DO	180[A]	SER
52	DO	180[B]	SER
52	DO	181[A]	ALA
52	DO	181[B]	ALA
54	DQ	41	ASP
54	DQ	99	THR
55	DR	35	ALA
56	DS	2	ALA
57	DT	136	ARG
59	DV	42	SER
60	DW	26	SER
60	DW	71	ARG
60	DW	76	VAL
61	DX	24	LEU
61	DX	25	LYS
61	DX	40	LEU
61	DX	44	PRO

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Mol	Chain	Res	Type
61	DX	45	LYS
62	DY	77	LYS
62	DY	83	ASP
62	DY	84	LYS
62	DY	125	LYS
62	DY	126	LEU
63	DZ	5	LEU
63	DZ	125	GLY
63	DZ	129	TRP
64	Da	76	ASP
65	Db	21	ILE
65	Db	23	LYS
65	Db	25	LYS
65	Db	39	PHE
66	Dc	100	ILE
66	Dc	104	LEU
67	Dd	7	VAL
67	Dd	45	GLY
67	Dd	84	ASP
68	De	4	LEU
68	De	5	PRO
68	De	27	ARG
69	Df	88	ASN
70	Dg	10	ARG
70	Dg	100	ILE
71	Dh	40	SER
71	Dh	82	ALA
72	Di	33	ALA
72	Di	63	ASN
72	Di	64	SER
72	Di	98	ARG
73	Dj	87	SER
74	Dk	17	ARG
74	Dk	18	ALA
75	Dl	3	ALA
78	Do	78	LYS
2	AA	5	ALA
2	AA	49	ASN
2	AA	81	PHE
2	AA	94	GLY
2	AA	190	ASP
2	AA	194	PRO

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Mol	Chain	Res	Type
2	AA	196	SER
3	AB	23	PRO
3	AB	55	LYS
3	AB	72	ASP
3	AB	79	HIS
3	AB	82	ARG
3	AB	93	GLY
3	AB	108	ASP
3	AB	148	ASN
3	AB	181	LEU
3	AB	207	LEU
4	AC	35	TRP
4	AC	203	LYS
4	AC	248	SER
5	AD	44	THR
5	AD	218	LEU
6	AE	12	LEU
6	AE	152	PRO
6	AE	157	ASN
6	AE	195	ILE
6	AE	245	LYS
7	AF	35	GLN
7	AF	45	LYS
7	AF	58	LEU
7	AF	127	GLN
7	AF	150	GLY
7	AF	223	SER
8	AG	24	ILE
8	AG	146	GLY
8	AG	152	ASP
8	AG	153	VAL
9	AH	32	PRO
9	AH	104	ARG
9	AH	156	SER
9	AH	186	PRO
10	AI	40	ALA
10	AI	105	ASP
10	AI	120	THR
10	AI	199	LYS
11	AJ	134	ILE
11	AJ	167	ALA
11	AJ	171	ARG

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Mol	Chain	Res	Type
12	AK	30	ALA
12	AK	64	TYR
12	AK	82	LEU
14	AM	54	ARG
14	AM	63	VAL
14	AM	66	VAL
14	AM	84	ASN
14	AM	91	VAL
14	AM	113	ARG
14	AM	128	ALA
15	AN	13	SER
15	AN	27	LYS
15	AN	28	LEU
15	AN	68	GLY
16	AO	40	ALA
16	AO	42	VAL
16	AO	46	MET
16	AO	50	ALA
16	AO	51	ASP
16	AO	114	ARG
17	AP	48	GLY
17	AP	51	SER
17	AP	101	ALA
18	AQ	40	GLU
18	AQ	113	ASP
19	AR	25	THR
20	AS	59	GLY
20	AS	61	LEU
20	AS	142	GLY
21	AT	11	ALA
21	AT	28	LEU
21	AT	50	ALA
22	AU	17	GLN
23	AV	12	TYR
24	AW	66	ASN
25	AX	8	GLY
25	AX	97	ASP
26	AY	5	VAL
26	AY	11	LYS
27	AZ	73	GLY
28	Aa	36	ILE
28	Aa	63	ALA

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Mol	Chain	Res	Type
28	Aa	75	VAL
28	Aa	86	VAL
29	Ab	63	LEU
30	Ac	35	ASP
30	Ac	61	ARG
31	Ad	34	TYR
33	Af	118	ARG
33	Af	127	GLY
34	Ag	3	SER
34	Ag	28	GLY
34	Ag	161	LYS
34	Ag	217	ASP
35	Ah	46	LYS
35	Ah	82	THR
35	Ah	89	ARG
35	Ah	140	ASP
39	BA	13	GLY
39	BA	70	ARG
40	BB	136	LYS
40	BB	138	ALA
41	BC	15	ALA
41	BC	107	ARG
41	BC	182	LEU
41	BC	232	SER
41	BC	311	HIS
41	BC	317	PRO
42	BD	137	ASP
42	BD	188	GLU
42	BD	209	GLU
42	BD	215	ASP
42	BD	292	ALA
43	BE	97	ASN
43	BE	98	VAL
44	BF	24	GLU
44	BF	175	LYS
45	BG	39	ALA
45	BG	115	ALA
45	BG	159	PRO
45	BG	254	ASP
47	BI	194	GLY
48	BJ	9	MET
48	BJ	73	GLY

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Mol	Chain	Res	Type
48	BJ	86	VAL
48	BJ	115	LYS
48	BJ	167	TYR
49	BL	136	GLU
49	BL	141	ALA
50	BM	10	SER
51	BN	144	ARG
51	BN	184	LYS
52	BO	17[A]	GLY
52	BO	17[B]	GLY
53	BP	164	LYS
53	BP	182	ILE
54	BQ	98	LYS
54	BQ	183	GLY
56	BS	2	ALA
56	BS	12	ARG
56	BS	13	ARG
57	BT	125	ALA
58	BU	11	ILE
58	BU	50	LEU
58	BU	51	GLY
58	BU	91	ASP
59	BV	82	ALA
61	BX	45	LYS
62	BY	92	GLY
64	Ba	47	LYS
64	Ba	57	GLY
64	Ba	121	VAL
70	Bg	74	ARG
70	Bg	77	GLY
71	Bh	90	ARG
71	Bh	95	PHE
71	Bh	96	GLU
72	Bi	28	TYR
72	Bi	49	GLY
72	Bi	50	LEU
73	Bj	65	ARG
79	Bp	60	CYS
2	CA	29	VAL
2	CA	30	GLN
2	CA	95	ALA
2	CA	103	THR

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Mol	Chain	Res	Type
2	CA	111	ILE
2	CA	158	VAL
2	CA	186	GLY
2	CA	191	ARG
2	CA	194	PRO
3	CB	93	GLY
3	CB	154	SER
3	CB	209	ASN
3	CB	224	ASP
4	CC	93	GLY
4	CC	106	ASP
4	CC	153	SER
4	CC	163	GLY
4	CC	164	SER
5	CD	45	LYS
5	CD	221	SER
6	CE	12	LEU
6	CE	104	ASP
7	CF	35	GLN
7	CF	36	ALA
7	CF	55	ASP
7	CF	100	ASN
7	CF	204	GLY
8	CG	25	ARG
8	CG	68	LEU
8	CG	152	ASP
8	CG	154	ARG
9	CH	87	ASP
9	CH	112	ARG
10	CI	62	THR
10	CI	115	ALA
11	CJ	105	LEU
11	CJ	110	GLN
11	CJ	134	ILE
11	CJ	147	MET
11	CJ	169	PRO
12	CK	9	ASN
12	CK	32	HIS
12	CK	35	ILE
12	CK	81	ASN
12	CK	94	GLU
13	CL	114	ALA

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Mol	Chain	Res	Type
13	CL	133	LYS
13	CL	144	ALA
14	CM	22	VAL
14	CM	58	LEU
14	CM	63	VAL
14	CM	103	LEU
14	CM	119	SER
14	CM	131	ASP
15	CN	60	VAL
15	CN	139	TRP
15	CN	140	LYS
17	CP	6	ASN
17	CP	10	ARG
17	CP	14	THR
17	CP	17	TYR
17	CP	131	ALA
17	CP	132	GLY
18	CQ	39	VAL
18	CQ	142	TYR
19	CR	63	LYS
19	CR	99	VAL
20	CS	60	GLU
20	CS	61	LEU
21	CT	26	GLY
22	CU	16	GLN
22	CU	100	VAL
23	CV	4	ASP
23	CV	43	GLY
23	CV	44	ARG
26	CY	34	ASN
26	CY	58	PHE
27	CZ	38	HIS
28	Ca	62	TYR
29	Cb	57	GLU
30	Cc	61	ARG
30	Cc	62	GLU
32	Ce	47	VAL
32	Ce	51	ASN
32	Ce	61	SER
33	Cf	112	GLY
33	Cf	124	PRO
33	Cf	131	PHE

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Mol	Chain	Res	Type
33	Cf	145	HIS
34	Cg	97	GLY
34	Cg	149	ASP
34	Cg	282	SER
81	Ch	46	LYS
81	Ch	47	ALA
81	Ch	48	ARG
81	Ch	63	ASP
81	Ch	65	THR
81	Ch	72	ARG
39	DA	24	GLN
39	DA	194	ASN
40	DB	235	THR
40	DB	293	ASN
41	DC	71	VAL
41	DC	190	GLY
41	DC	272	VAL
41	DC	345	GLU
41	DC	353	ALA
42	DD	125	VAL
42	DD	178	ASN
45	DG	81	THR
45	DG	121	SER
45	DG	188	THR
45	DG	203	VAL
45	DG	223	ALA
45	DG	240	ASN
46	DH	144	ILE
46	DH	189	GLU
47	DI	220	GLN
48	DJ	55	ARG
49	DL	135	ALA
49	DL	141	ALA
51	DN	184	LYS
53	DP	66	SER
53	DP	67	ILE
54	DQ	91	ALA
54	DQ	167	SER
58	DU	49	ASN
58	DU	91	ASP
59	DV	41	GLY
60	DW	63	ILE

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Mol	Chain	Res	Type
60	DW	77	LYS
63	DZ	17	ARG
63	DZ	93	LYS
63	DZ	130	PHE
63	DZ	134	LEU
64	Da	24	LYS
66	Dc	10	ILE
67	Dd	83	GLU
68	De	6	HIS
68	De	12	LYS
68	De	124	GLY
69	Df	91	ALA
71	Dh	119	LYS
77	Dn	23	ARG
83	Dq	47	GLY
83	Dq	198	PRO
2	AA	27	ARG
2	AA	103	THR
3	AB	35	PRO
3	AB	38	PHE
3	AB	62	LYS
3	AB	209	ASN
4	AC	106	ASP
4	AC	150	GLN
4	AC	235	LEU
5	AD	54	ARG
6	AE	200	ARG
7	AF	33	VAL
7	AF	156	ARG
9	AH	5	GLN
9	AH	29	ASN
9	AH	74	GLN
9	AH	75	THR
9	AH	110	GLN
10	AI	41	LYS
10	AI	136	SER
10	AI	153	GLU
11	AJ	163	PRO
13	AL	4	GLU
13	AL	55	ASP
13	AL	146	ALA
13	AL	153	PHE

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Mol	Chain	Res	Type
13	AL	154	ALA
14	AM	22	VAL
14	AM	81	ASP
14	AM	82	PRO
14	AM	85	LYS
14	AM	112	ALA
14	AM	135	MET
16	AO	18	ARG
16	AO	123	SER
17	AP	11	VAL
17	AP	22	LEU
17	AP	52	LYS
19	AR	83	GLN
19	AR	115	LEU
20	AS	10	SER
20	AS	80	LYS
20	AS	83	ALA
21	AT	25	GLN
22	AU	55	PRO
23	AV	2	GLU
23	AV	10	GLU
23	AV	15	ARG
25	AX	37	ALA
25	AX	40	SER
25	AX	89	ASN
26	AY	34	ASN
26	AY	51	GLU
26	AY	53	ASP
27	AZ	41	ILE
27	AZ	55	PRO
27	AZ	97	LYS
28	Aa	66	LYS
33	Af	138	ARG
34	Ag	15	GLY
34	Ag	96	THR
34	Ag	98	GLU
39	BA	250	GLN
40	BB	4	ARG
41	BC	14	GLU
41	BC	16	THR
42	BD	112	LYS
45	BG	78	PHE

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Mol	Chain	Res	Type
45	BG	122	LYS
46	BH	42	ASP
47	BI	195	ALA
48	BJ	140	ARG
48	BJ	169	ALA
48	BJ	173	ASP
49	BL	134	GLU
49	BL	166	ALA
50	BM	28	SER
50	BM	95	ALA
51	BN	145	ASP
53	BP	160	ALA
55	BR	53	LYS
55	BR	64	ARG
57	BT	114	ALA
58	BU	10	LYS
58	BU	44	GLU
60	BW	17	ARG
60	BW	77	LYS
63	BZ	16	GLY
63	BZ	35	SER
63	BZ	102	GLU
64	Ba	93	SER
70	Bg	46	ASP
70	Bg	98	GLN
71	Bh	4	VAL
71	Bh	91	ALA
72	Bi	34	SER
72	Bi	95	ALA
72	Bi	98	ARG
78	Bo	34	SER
79	Bp	58	SER
4	CC	238	SER
5	CD	179	GLN
5	CD	180	GLY
6	CE	57	ASN
6	CE	94	ALA
6	CE	168	LYS
6	CE	171	ASP
7	CF	43	PHE
8	CG	142	ARG
8	CG	165	GLY

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Mol	Chain	Res	Type
9	CH	133	THR
10	CI	101	ILE
10	CI	136	SER
10	CI	137	LYS
11	CJ	162	SER
13	CL	6	THR
13	CL	121	ASP
13	CL	132	SER
14	CM	25	GLU
14	CM	26	ASP
14	CM	82	PRO
14	CM	135	MET
15	CN	22	ALA
16	CO	114	ARG
17	CP	69	GLU
19	CR	86	PRO
20	CS	33	THR
22	CU	13	GLU
22	CU	51	VAL
22	CU	53	LYS
22	CU	119	ALA
26	CY	11	LYS
26	CY	51	GLU
26	CY	132	ARG
31	Cd	11	PRO
34	Cg	39	ASP
34	Cg	161	LYS
34	Cg	297	ASP
81	Ch	84	LYS
39	DA	56	ALA
39	DA	144	ASN
39	DA	249	SER
40	DB	138	ALA
40	DB	155	ALA
41	DC	146	PRO
42	DD	270	LYS
43	DE	10	TYR
43	DE	32	ALA
45	DG	39	ALA
45	DG	123	GLN
45	DG	133	LYS
45	DG	237	ILE

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Mol	Chain	Res	Type
47	DI	83	ASP
47	DI	101	LYS
47	DI	174	THR
47	DI	176	LEU
49	DL	101	ARG
49	DL	140	SER
51	DN	181	ASN
52	DO	12[A]	LYS
52	DO	12[B]	LYS
58	DU	48	GLY
60	DW	74	LYS
60	DW	134	GLN
61	DX	38	LEU
61	DX	47	ALA
61	DX	55	ASN
63	DZ	16	GLY
64	Da	47	LYS
67	Dd	5	LYS
67	Dd	86	LYS
70	Dg	79	SER
72	Di	34	SER
83	Dq	33	VAL
2	AA	33	GLN
2	AA	158	VAL
2	AA	164	ASN
2	AA	185	ARG
2	AA	189	VAL
3	AB	54	LEU
3	AB	61	LEU
3	AB	81	PHE
3	AB	112	SER
3	AB	154	SER
3	AB	215	VAL
4	AC	39	THR
5	AD	217	ILE
6	AE	77	ARG
6	AE	80	THR
6	AE	163	ASP
6	AE	188	ASN
6	AE	193	GLY
7	AF	51	VAL
7	AF	79	ASN

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Mol	Chain	Res	Type
8	AG	69	LEU
9	AH	13	PRO
9	AH	84	LYS
9	AH	132	PRO
10	AI	59	ARG
10	AI	152	ILE
12	AK	94	GLU
13	AL	145	ALA
14	AM	39	ASP
14	AM	68	GLU
14	AM	106	ILE
14	AM	107	ASP
14	AM	108	ARG
14	AM	129	GLU
14	AM	130	THR
15	AN	138	ASN
16	AO	69	ALA
18	AQ	142	TYR
19	AR	23	LYS
19	AR	72	LYS
21	AT	7	ARG
21	AT	23	GLN
21	AT	39	THR
23	AV	44	ARG
25	AX	92	CYS
25	AX	109	ARG
25	AX	112	LYS
26	AY	60	PHE
28	Aa	64	LEU
30	Ac	6	PRO
32	Ae	50	VAL
33	Af	145	HIS
34	Ag	136	ILE
34	Ag	163	ASP
34	Ag	237	GLN
40	BB	386	ASP
41	BC	146	PRO
41	BC	233	LEU
42	BD	6	ASP
42	BD	252	ALA
42	BD	253	PHE
43	BE	95	GLY

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Mol	Chain	Res	Type
44	BF	160	ARG
45	BG	157	VAL
45	BG	253	SER
46	BH	13	PRO
47	BI	24	ARG
48	BJ	95	ASN
48	BJ	108	GLU
48	BJ	114	ILE
48	BJ	117	ASP
51	BN	94	TYR
51	BN	149	ASN
53	BP	158	ALA
53	BP	161	ALA
53	BP	163	LYS
54	BQ	162	ALA
57	BT	12	ARG
58	BU	31	ALA
58	BU	49	ASN
60	BW	64	THR
63	BZ	103	GLN
64	Ba	96	LYS
65	Bb	32	LEU
68	Be	40	SER
71	Bh	27	GLU
73	Bj	25	ARG
74	Bk	33	LYS
78	Bo	15	LYS
79	Bp	51	ALA
2	CA	10	THR
4	CC	40	LYS
4	CC	150	GLN
4	CC	235	LEU
5	CD	111	ASN
5	CD	144	ALA
6	CE	189	LEU
6	CE	245	LYS
7	CF	29	ILE
7	CF	101	GLY
7	CF	151	GLY
8	CG	2	LYS
8	CG	70	PRO
9	CH	66	SER

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Mol	Chain	Res	Type
11	CJ	65	LYS
11	CJ	126	ARG
12	CK	30	ALA
12	CK	95	ARG
13	CL	7	VAL
13	CL	55	ASP
13	CL	61	THR
13	CL	129	ARG
14	CM	45	LEU
14	CM	64	SER
14	CM	81	ASP
14	CM	106	ILE
14	CM	118	ALA
14	CM	128	ALA
14	CM	129	GLU
16	CO	124	ASP
17	CP	7	ALA
17	CP	48	GLY
17	CP	75	PRO
20	CS	145	ARG
21	CT	25	GLN
21	CT	66	TYR
22	CU	19	ILE
23	CV	10	GLU
25	CX	101	GLU
26	CY	53	ASP
27	CZ	103	ARG
28	Ca	15	ARG
28	Ca	35	ALA
28	Ca	59	TYR
29	Cb	58	SER
32	Ce	54	ARG
33	Cf	138	ARG
34	Cg	298	GLY
81	Ch	43	ASP
81	Ch	64	LYS
39	DA	143	GLU
40	DB	333	LYS
41	DC	233	LEU
41	DC	306	THR
41	DC	331	ALA
41	DC	342	LYS

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Mol	Chain	Res	Type
42	DD	124	GLU
44	DF	191	VAL
45	DG	206	GLU
46	DH	167	VAL
47	DI	207	GLU
49	DL	60	ALA
49	DL	76	THR
51	DN	48	ALA
55	DR	147	ALA
60	DW	25	ASP
63	DZ	34	LYS
63	DZ	36	HIS
64	Da	121	VAL
70	Dg	99	LYS
73	Dj	85	LYS
74	Dk	8	ILE
83	Dq	102	SER
3	AB	64	ARG
4	AC	36	VAL
5	AD	59	LEU
6	AE	233	LYS
7	AF	21	THR
7	AF	64	VAL
9	AH	73	VAL
9	AH	185	ILE
11	AJ	162	SER
14	AM	101	ALA
17	AP	38	PRO
21	AT	29	GLU
22	AU	49	ASN
23	AV	46	ILE
23	AV	49	GLU
24	AW	67	GLY
24	AW	83	ILE
25	AX	70	LYS
26	AY	6	THR
26	AY	47	VAL
29	Ab	51	GLN
35	Ah	53	ARG
35	Ah	102	THR
39	BA	35	ALA
39	BA	251	LYS

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Mol	Chain	Res	Type
41	BC	5	GLN
44	BF	178	ILE
45	BG	47	SER
46	BH	2	LYS
46	BH	107	ASP
48	BJ	24	GLY
48	BJ	111	ASP
48	BJ	172	LEU
49	BL	130	GLY
49	BL	133	PRO
50	BM	6	ILE
50	BM	36	VAL
52	BO	187[A]	GLU
52	BO	187[B]	GLU
57	BT	18	ASP
60	BW	80	ARG
60	BW	89	LEU
64	Ba	56	VAL
64	Ba	117	ARG
65	Bb	53	ALA
69	Bf	59	VAL
72	Bi	3	VAL
76	Bm	79	GLU
3	CB	63	GLY
6	CE	90	ILE
6	CE	205	PHE
9	CH	12	ALA
9	CH	13	PRO
10	CI	78	ILE
11	CJ	115	LYS
11	CJ	119	ALA
11	CJ	150	LEU
12	CK	10	LYS
14	CM	59	LEU
14	CM	107	ASP
14	CM	127	GLY
15	CN	43	LYS
15	CN	137	PRO
17	CP	49	MET
17	CP	130	ARG
17	CP	136	SER
20	CS	14	ILE

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Mol	Chain	Res	Type
21	CT	28	LEU
27	CZ	54	VAL
27	CZ	70	LYS
29	Cb	21	LEU
29	Cb	63	LEU
30	Cc	37	SER
31	Cd	7	TRP
33	Cf	146	SER
34	Cg	217	ASP
34	Cg	228	LYS
81	Ch	51	ARG
41	DC	5	GLN
44	DF	229	PHE
45	DG	69	LEU
45	DG	120	LYS
45	DG	124	ASP
46	DH	110	LYS
48	DJ	111	ASP
48	DJ	153	LYS
49	DL	121	SER
54	DQ	98	LYS
55	DR	183	ALA
57	DT	20	ARG
63	DZ	7	ALA
64	Da	129	PHE
65	Db	24	PRO
72	Di	9	ILE
74	Dk	19	ASP
76	Dm	78	ILE
83	Dq	197	PHE
2	AA	139	VAL
3	AB	78	ASP
3	AB	210	ILE
6	AE	3	ARG
6	AE	53	LYS
8	AG	132	ARG
9	AH	11	GLN
10	AI	10	LYS
10	AI	186	GLY
11	AJ	132	ARG
15	AN	60	VAL
17	AP	10	ARG

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Mol	Chain	Res	Type
17	AP	23	GLU
17	AP	69	GLU
17	AP	130	ARG
20	AS	7	GLU
20	AS	34	THR
22	AU	117	VAL
26	AY	58	PHE
26	AY	77	ASN
28	Aa	10	ARG
35	Ah	88	ARG
40	BB	155	ALA
40	BB	317	ILE
41	BC	72	ALA
42	BD	259	LYS
44	BF	164	SER
45	BG	75	ILE
53	BP	162	GLU
60	BW	67	VAL
60	BW	76	VAL
64	Ba	91	LEU
65	Bb	21	ILE
69	Bf	91	ALA
72	Bi	21	THR
72	Bi	94	ILE
2	CA	109	ASN
2	CA	139	VAL
3	CB	21	VAL
6	CE	194	THR
12	CK	3	MET
12	CK	24	LYS
12	CK	31	LYS
13	CL	146	ALA
14	CM	115	VAL
18	CQ	40	GLU
19	CR	120	SER
23	CV	6	GLY
34	Cg	153	GLN
40	DB	187	SER
41	DC	328	ASN
44	DF	157	ASN
45	DG	202	GLU
47	DI	204	GLY

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Mol	Chain	Res	Type
48	DJ	114	ILE
63	DZ	29	HIS
71	Dh	83	LYS
6	AE	234	PRO
11	AJ	117	GLY
16	AO	48	VAL
18	AQ	97	VAL
64	Ba	29	PRO
5	CD	203	PRO
8	CG	69	LEU
9	CH	32	PRO
18	CQ	97	VAL
44	DF	178	ILE
45	DG	190	VAL
83	Dq	196	VAL
2	AA	117	GLU
14	AM	40	GLY
28	Aa	50	VAL
28	Aa	59	TYR
44	BF	91	GLY
45	BG	158	ASP
5	CD	43	PRO
22	CU	118	VAL
23	CV	77	GLY
63	DZ	103	GLN
72	Di	3	VAL
78	Do	31	GLY
3	AB	197	ILE
4	AC	145	GLY
18	AQ	29	ILE
21	AT	100	ILE
33	Af	147	VAL
45	BG	116	VAL
45	BG	119	GLY
45	BG	135	GLY
63	BZ	36	HIS
2	CA	94	GLY
6	CE	150	PRO
6	CE	195	ILE
7	CF	152	GLY
16	CO	131	GLY
34	Cg	15	GLY

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Mol	Chain	Res	Type
45	DG	73	PRO
48	DJ	118	PRO
54	DQ	42	ALA
6	AE	45	ILE
8	AG	70	PRO
12	AK	89	GLY
14	AM	117	GLY
41	BC	131	VAL
53	BP	84	PRO
5	CD	163	PRO
6	CE	260	GLY
18	CQ	4	VAL
26	CY	29	HIS
69	Df	59	VAL
4	AC	163	GLY
57	BT	123	GLY
6	CE	30	ARG

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AA	164/210 (78%)	114 (70%)	50 (30%)	0	1
2	CA	165/210 (79%)	126 (76%)	39 (24%)	1	4
3	AB	191/224 (85%)	137 (72%)	54 (28%)	0	2
3	CB	192/224 (86%)	141 (73%)	51 (27%)	0	3
4	AC	176/205 (86%)	124 (70%)	52 (30%)	0	2
4	CC	176/205 (86%)	131 (74%)	45 (26%)	0	3
5	AD	182/195 (93%)	133 (73%)	49 (27%)	0	2
5	CD	182/195 (93%)	139 (76%)	43 (24%)	1	4
6	AE	221/222 (100%)	160 (72%)	61 (28%)	0	2
6	CE	221/222 (100%)	165 (75%)	56 (25%)	0	3
7	AF	173/191 (91%)	139 (80%)	34 (20%)	1	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	CF	173/191 (91%)	128 (74%)	45 (26%)	0	3
8	AG	188/201 (94%)	145 (77%)	43 (23%)	1	5
8	CG	187/201 (93%)	136 (73%)	51 (27%)	0	2
9	AH	165/170 (97%)	116 (70%)	49 (30%)	0	2
9	CH	165/170 (97%)	126 (76%)	39 (24%)	1	4
10	AI	150/161 (93%)	114 (76%)	36 (24%)	1	4
10	CI	150/161 (93%)	118 (79%)	32 (21%)	1	6
11	AJ	158/166 (95%)	121 (77%)	37 (23%)	1	4
11	CJ	158/166 (95%)	124 (78%)	34 (22%)	1	6
12	AK	77/98 (79%)	57 (74%)	20 (26%)	0	3
12	CK	73/98 (74%)	56 (77%)	17 (23%)	1	4
13	AL	129/137 (94%)	102 (79%)	27 (21%)	1	7
13	CL	129/137 (94%)	99 (77%)	30 (23%)	1	4
14	AM	88/119 (74%)	53 (60%)	35 (40%)	0	1
14	CM	88/119 (74%)	53 (60%)	35 (40%)	0	1
15	AN	127/128 (99%)	86 (68%)	41 (32%)	0	1
15	CN	127/128 (99%)	97 (76%)	30 (24%)	1	4
16	AO	81/105 (77%)	57 (70%)	24 (30%)	0	2
16	CO	97/105 (92%)	70 (72%)	27 (28%)	0	2
17	AP	101/118 (86%)	81 (80%)	20 (20%)	1	8
17	CP	103/118 (87%)	84 (82%)	19 (18%)	1	9
18	AQ	117/119 (98%)	82 (70%)	35 (30%)	0	2
18	CQ	118/119 (99%)	90 (76%)	28 (24%)	1	4
19	AR	94/124 (76%)	72 (77%)	22 (23%)	1	4
19	CR	92/124 (74%)	67 (73%)	25 (27%)	0	2
20	AS	128/129 (99%)	87 (68%)	41 (32%)	0	1
20	CS	128/129 (99%)	92 (72%)	36 (28%)	0	2
21	AT	115/116 (99%)	84 (73%)	31 (27%)	0	2
21	CT	115/116 (99%)	86 (75%)	29 (25%)	0	3
22	AU	100/114 (88%)	69 (69%)	31 (31%)	0	1
22	CU	103/114 (90%)	65 (63%)	38 (37%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
23	AV	74/74 (100%)	54 (73%)	20 (27%)	0	2
23	CV	74/74 (100%)	57 (77%)	17 (23%)	1	5
24	AW	110/111 (99%)	82 (74%)	28 (26%)	0	3
24	CW	110/111 (99%)	94 (86%)	16 (14%)	3	15
25	AX	119/120 (99%)	93 (78%)	26 (22%)	1	6
25	CX	119/120 (99%)	96 (81%)	23 (19%)	1	8
26	AY	112/113 (99%)	81 (72%)	31 (28%)	0	2
26	CY	112/113 (99%)	82 (73%)	30 (27%)	0	2
27	AZ	61/89 (68%)	42 (69%)	19 (31%)	0	1
27	CZ	61/89 (68%)	44 (72%)	17 (28%)	0	2
28	Aa	83/101 (82%)	60 (72%)	23 (28%)	0	2
28	Ca	83/101 (82%)	68 (82%)	15 (18%)	2	9
29	Ab	70/71 (99%)	60 (86%)	10 (14%)	3	16
29	Cb	70/71 (99%)	57 (81%)	13 (19%)	1	9
30	Ac	56/60 (93%)	36 (64%)	20 (36%)	0	1
30	Cc	56/60 (93%)	35 (62%)	21 (38%)	0	1
31	Ad	47/49 (96%)	40 (85%)	7 (15%)	3	15
31	Cd	47/49 (96%)	35 (74%)	12 (26%)	0	3
32	Ae	51/54 (94%)	41 (80%)	10 (20%)	1	8
32	Ce	53/54 (98%)	37 (70%)	16 (30%)	0	1
33	Af	43/112 (38%)	31 (72%)	12 (28%)	0	2
33	Cf	43/112 (38%)	29 (67%)	14 (33%)	0	1
34	Ag	259/262 (99%)	215 (83%)	44 (17%)	2	11
34	Cg	260/262 (99%)	222 (85%)	38 (15%)	3	15
35	Ah	97/195 (50%)	71 (73%)	26 (27%)	0	2
39	BA	193/196 (98%)	153 (79%)	40 (21%)	1	7
39	DA	192/196 (98%)	149 (78%)	43 (22%)	1	5
40	BB	321/323 (99%)	231 (72%)	90 (28%)	0	2
40	DB	321/323 (99%)	242 (75%)	79 (25%)	1	4
41	BC	288/289 (100%)	221 (77%)	67 (23%)	1	4
41	DC	288/289 (100%)	213 (74%)	75 (26%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	BD	244/245 (100%)	183 (75%)	61 (25%)	0	3
42	DD	243/245 (99%)	185 (76%)	58 (24%)	1	4
43	BE	134/153 (88%)	110 (82%)	24 (18%)	2	10
43	DE	135/153 (88%)	113 (84%)	22 (16%)	2	12
44	BF	186/205 (91%)	162 (87%)	24 (13%)	4	19
44	DF	187/205 (91%)	158 (84%)	29 (16%)	2	13
45	BG	187/208 (90%)	146 (78%)	41 (22%)	1	5
45	DG	177/208 (85%)	136 (77%)	41 (23%)	1	4
46	BH	171/171 (100%)	127 (74%)	44 (26%)	0	3
46	DH	171/171 (100%)	128 (75%)	43 (25%)	0	3
47	BI	177/187 (95%)	140 (79%)	37 (21%)	1	7
47	DI	179/187 (96%)	134 (75%)	45 (25%)	0	3
48	BJ	147/150 (98%)	104 (71%)	43 (29%)	0	2
48	DJ	147/150 (98%)	113 (77%)	34 (23%)	1	5
49	BL	154/159 (97%)	121 (79%)	33 (21%)	1	6
49	DL	154/159 (97%)	126 (82%)	28 (18%)	2	9
50	BM	107/109 (98%)	81 (76%)	26 (24%)	1	4
50	DM	108/109 (99%)	80 (74%)	28 (26%)	0	3
51	BN	175/176 (99%)	137 (78%)	38 (22%)	1	6
51	DN	175/176 (99%)	139 (79%)	36 (21%)	1	7
52	BO	323/179 (180%)	260 (80%)	63 (20%)	1	8
52	DO	323/179 (180%)	254 (79%)	69 (21%)	1	6
53	BP	140/146 (96%)	104 (74%)	36 (26%)	0	3
53	DP	125/146 (86%)	98 (78%)	27 (22%)	1	6
54	BQ	150/151 (99%)	122 (81%)	28 (19%)	1	9
54	DQ	150/151 (99%)	121 (81%)	29 (19%)	1	8
55	BR	153/154 (99%)	109 (71%)	44 (29%)	0	2
55	DR	153/154 (99%)	113 (74%)	40 (26%)	0	3
56	BS	156/156 (100%)	119 (76%)	37 (24%)	1	4
56	DS	156/156 (100%)	119 (76%)	37 (24%)	1	4
57	BT	136/137 (99%)	104 (76%)	32 (24%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
57	DT	136/137 (99%)	107 (79%)	29 (21%)	1	6
58	BU	87/107 (81%)	72 (83%)	15 (17%)	2	11
58	DU	85/107 (79%)	60 (71%)	25 (29%)	0	2
59	BV	104/105 (99%)	84 (81%)	20 (19%)	1	8
59	DV	104/105 (99%)	93 (89%)	11 (11%)	6	27
60	BW	57/129 (44%)	48 (84%)	9 (16%)	2	13
60	DW	100/129 (78%)	83 (83%)	17 (17%)	2	11
61	BX	104/118 (88%)	75 (72%)	29 (28%)	0	2
61	DX	104/118 (88%)	77 (74%)	27 (26%)	0	3
62	BY	109/110 (99%)	83 (76%)	26 (24%)	1	4
62	DY	109/110 (99%)	81 (74%)	28 (26%)	0	3
63	BZ	115/116 (99%)	84 (73%)	31 (27%)	0	2
63	DZ	115/116 (99%)	87 (76%)	28 (24%)	1	4
64	Ba	118/119 (99%)	95 (80%)	23 (20%)	1	8
64	Da	118/119 (99%)	90 (76%)	28 (24%)	1	4
65	Bb	46/47 (98%)	36 (78%)	10 (22%)	1	6
65	Db	46/47 (98%)	32 (70%)	14 (30%)	0	1
66	Bc	81/88 (92%)	61 (75%)	20 (25%)	1	4
66	Dc	84/88 (96%)	65 (77%)	19 (23%)	1	5
67	Bd	92/97 (95%)	69 (75%)	23 (25%)	0	3
67	Dd	94/97 (97%)	72 (77%)	22 (23%)	1	4
68	Be	109/111 (98%)	84 (77%)	25 (23%)	1	5
68	De	109/111 (98%)	85 (78%)	24 (22%)	1	5
69	Bf	90/91 (99%)	76 (84%)	14 (16%)	2	13
69	Df	90/91 (99%)	80 (89%)	10 (11%)	6	25
70	Bg	95/103 (92%)	71 (75%)	24 (25%)	0	3
70	Dg	95/103 (92%)	70 (74%)	25 (26%)	0	3
71	Bh	104/105 (99%)	74 (71%)	30 (29%)	0	2
71	Dh	103/105 (98%)	75 (73%)	28 (27%)	0	2
72	Bi	81/82 (99%)	57 (70%)	24 (30%)	0	2
72	Di	80/82 (98%)	51 (64%)	29 (36%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
73	Bj	70/71 (99%)	55 (79%)	15 (21%)	1	6
73	Dj	70/71 (99%)	55 (79%)	15 (21%)	1	6
74	Bk	68/69 (99%)	49 (72%)	19 (28%)	0	2
74	Dk	67/69 (97%)	50 (75%)	17 (25%)	0	3
75	Bl	45/46 (98%)	32 (71%)	13 (29%)	0	2
75	Dl	45/46 (98%)	30 (67%)	15 (33%)	0	1
76	Bm	47/116 (40%)	36 (77%)	11 (23%)	1	4
76	Dm	47/116 (40%)	35 (74%)	12 (26%)	0	3
77	Bn	23/23 (100%)	15 (65%)	8 (35%)	0	1
77	Dn	23/23 (100%)	13 (56%)	10 (44%)	0	0
78	Bo	90/91 (99%)	64 (71%)	26 (29%)	0	2
78	Do	90/91 (99%)	72 (80%)	18 (20%)	1	7
79	Bp	71/72 (99%)	53 (75%)	18 (25%)	0	3
79	Dp	71/72 (99%)	59 (83%)	12 (17%)	2	11
81	Ch	54/199 (27%)	38 (70%)	16 (30%)	0	2
83	Dq	105/233 (45%)	74 (70%)	31 (30%)	0	2
All	All	19013/20583 (92%)	14450 (76%)	4563 (24%)	1	4

All (4563) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AA	7	PHE
2	AA	9	LEU
2	AA	10	THR
2	AA	24	LEU
2	AA	27	ARG
2	AA	29	VAL
2	AA	33	GLN
2	AA	34	GLU
2	AA	37	VAL
2	AA	43	ASP
2	AA	45	VAL
2	AA	47	VAL
2	AA	50	VAL
2	AA	52	LYS
2	AA	55	GLU

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Mol	Chain	Res	Type
2	AA	57	LEU
2	AA	59	LEU
2	AA	62	ARG
2	AA	76	ILE
2	AA	79	ARG
2	AA	84	ARG
2	AA	87	LEU
2	AA	88	LYS
2	AA	96	THR
2	AA	98	ILE
2	AA	101	ARG
2	AA	103	THR
2	AA	110	TYR
2	AA	111	ILE
2	AA	114	SER
2	AA	117	GLU
2	AA	119	ARG
2	AA	123	VAL
2	AA	124	THR
2	AA	131	GLN
2	AA	133	ILE
2	AA	135	GLU
2	AA	140	ASN
2	AA	154	GLU
2	AA	156	VAL
2	AA	157	ASP
2	AA	162	CYS
2	AA	168	HIS
2	AA	170	ILE
2	AA	172	LEU
2	AA	177	LEU
2	AA	184	LEU
2	AA	185	ARG
2	AA	196	SER
2	AA	197	ILE
3	AB	21	VAL
3	AB	22	ASP
3	AB	36	SER
3	AB	38	PHE
3	AB	42	ASN
3	AB	47	LEU
3	AB	54	LEU

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Mol	Chain	Res	Type
3	AB	55	LYS
3	AB	58	SER
3	AB	61	LEU
3	AB	65	VAL
3	AB	68	VAL
3	AB	70	LEU
3	AB	73	LEU
3	AB	77	GLU
3	AB	78	ASP
3	AB	80	SER
3	AB	81	PHE
3	AB	83	LYS
3	AB	85	LYS
3	AB	91	VAL
3	AB	94	LYS
3	AB	96	LEU
3	AB	97	LEU
3	AB	105	PHE
3	AB	108	ASP
3	AB	109	LYS
3	AB	110	LEU
3	AB	115	ARG
3	AB	124	ASN
3	AB	131	ASP
3	AB	135	LEU
3	AB	146	GLN
3	AB	148	ASN
3	AB	149	GLN
3	AB	154	SER
3	AB	167	VAL
3	AB	170	GLU
3	AB	174	LYS
3	AB	177	GLN
3	AB	179	SER
3	AB	180	THR
3	AB	181	LEU
3	AB	183	GLN
3	AB	184	LEU
3	AB	193	ILE
3	AB	202	LYS
3	AB	214	LYS
3	AB	215	VAL

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Mol	Chain	Res	Type
3	AB	218	LEU
3	AB	220	GLN
3	AB	223	PHE
3	AB	225	VAL
3	AB	228	LEU
4	AC	41	LEU
4	AC	50	ILE
4	AC	53	ILE
4	AC	58	LEU
4	AC	64	LYS
4	AC	68	ILE
4	AC	70	ASP
4	AC	71	THR
4	AC	72	LEU
4	AC	73	LEU
4	AC	76	LEU
4	AC	77	GLN
4	AC	80	VAL
4	AC	87	GLN
4	AC	89	GLN
4	AC	90	THR
4	AC	95	ARG
4	AC	96	THR
4	AC	97	ARG
4	AC	103	VAL
4	AC	106	ASP
4	AC	111	VAL
4	AC	117	THR
4	AC	119	LYS
4	AC	125	ILE
4	AC	130	ILE
4	AC	134	LEU
4	AC	137	ILE
4	AC	139	ILE
4	AC	140	ARG
4	AC	141	ARG
4	AC	146	THR
4	AC	148	LEU
4	AC	156	THR
4	AC	159	THR
4	AC	166	THR
4	AC	174	ARG

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Mol	Chain	Res	Type
4	AC	185	LYS
4	AC	187	LEU
4	AC	206	THR
4	AC	208	GLU
4	AC	218	ILE
4	AC	221	THR
4	AC	222	TYR
4	AC	226	THR
4	AC	227	PRO
4	AC	229	LEU
4	AC	235	LEU
4	AC	237	VAL
4	AC	240	LEU
4	AC	245	ASP
4	AC	246	GLU
5	AD	4	LEU
5	AD	5	ILE
5	AD	7	LYS
5	AD	9	ARG
5	AD	21	LEU
5	AD	23	GLU
5	AD	29	LEU
5	AD	37	VAL
5	AD	39	VAL
5	AD	41	VAL
5	AD	49	ILE
5	AD	53	THR
5	AD	65	ARG
5	AD	66	ILE
5	AD	81	PRO
5	AD	84	ILE
5	AD	89	GLU
5	AD	91	VAL
5	AD	92	GLN
5	AD	93	ASP
5	AD	94	ARG
5	AD	96	LEU
5	AD	103	GLU
5	AD	105	MET
5	AD	117	ARG
5	AD	127	MET
5	AD	129	SER

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Mol	Chain	Res	Type
5	AD	134	CYS
5	AD	141	LYS
5	AD	142	LEU
5	AD	151	LYS
5	AD	158	ILE
5	AD	164	VAL
5	AD	170	THR
5	AD	172	THR
5	AD	176	LEU
5	AD	178	ARG
5	AD	181	VAL
5	AD	182	LEU
5	AD	187	LYS
5	AD	190	ARG
5	AD	200	LYS
5	AD	204	ASP
5	AD	207	THR
5	AD	212	LYS
5	AD	215	GLU
5	AD	220	PRO
5	AD	221	SER
5	AD	222	VAL
6	AE	6	LYS
6	AE	7	LYS
6	AE	9	LEU
6	AE	12	LEU
6	AE	23	LEU
6	AE	26	CYS
6	AE	38	LEU
6	AE	39	ARG
6	AE	45	ILE
6	AE	48	LEU
6	AE	49	ARG
6	AE	56	LEU
6	AE	59	ARG
6	AE	62	LYS
6	AE	67	GLN
6	AE	68	ARG
6	AE	70	VAL
6	AE	72	VAL
6	AE	77	ARG
6	AE	92	LEU

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Mol	Chain	Res	Type
6	AE	95	THR
6	AE	102	VAL
6	AE	105	VAL
6	AE	116	ASP
6	AE	117	GLU
6	AE	123	LEU
6	AE	126	VAL
6	AE	128	LYS
6	AE	129	VAL
6	AE	131	LEU
6	AE	133	LYS
6	AE	146	THR
6	AE	153	ASN
6	AE	155	LYS
6	AE	158	ASP
6	AE	160	VAL
6	AE	164	LEU
6	AE	166	SER
6	AE	176	ASP
6	AE	180	LEU
6	AE	181	VAL
6	AE	187	ARG
6	AE	192	ILE
6	AE	197	HIS
6	AE	198	LYS
6	AE	211	LYS
6	AE	214	LEU
6	AE	215	ASP
6	AE	220	THR
6	AE	221	ARG
6	AE	222	LEU
6	AE	227	VAL
6	AE	231	GLN
6	AE	236	ILE
6	AE	237	SER
6	AE	240	LYS
6	AE	242	LYS
6	AE	246	LEU
6	AE	248	ILE
6	AE	259	GLN
6	AE	261	LEU
7	AF	21	THR

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Mol	Chain	Res	Type
7	AF	23	VAL
7	AF	24	VAL
7	AF	25	LEU
7	AF	27	THR
7	AF	32	GLU
7	AF	41	LYS
7	AF	45	LYS
7	AF	53	VAL
7	AF	63	GLN
7	AF	68	ILE
7	AF	70	VAL
7	AF	79	ASN
7	AF	89	ILE
7	AF	93	LEU
7	AF	94	THR
7	AF	109	LYS
7	AF	114	ILE
7	AF	117	THR
7	AF	119	ASP
7	AF	130	ILE
7	AF	140	THR
7	AF	146	THR
7	AF	147	THR
7	AF	149	VAL
7	AF	156	ARG
7	AF	160	VAL
7	AF	162	VAL
7	AF	163	SER
7	AF	193	THR
7	AF	203	LYS
7	AF	206	SER
7	AF	216	GLU
7	AF	225	ARG
8	AG	9	VAL
8	AG	21	GLU
8	AG	25	ARG
8	AG	30	LYS
8	AG	32	ILE
8	AG	45	PHE
8	AG	58	LYS
8	AG	59	GLN
8	AG	69	LEU

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Mol	Chain	Res	Type
8	AG	71	THR
8	AG	76	LEU
8	AG	78	THR
8	AG	79	LYS
8	AG	82	SER
8	AG	87	ARG
8	AG	97	VAL
8	AG	98	ARG
8	AG	105	ASP
8	AG	109	LEU
8	AG	111	LEU
8	AG	120	GLU
8	AG	124	LEU
8	AG	126	ASP
8	AG	127	THR
8	AG	129	VAL
8	AG	132	ARG
8	AG	133	LEU
8	AG	137	ARG
8	AG	142	ARG
8	AG	143	LYS
8	AG	150	GLU
8	AG	155	ASP
8	AG	158	ILE
8	AG	162	VAL
8	AG	170	THR
8	AG	175	ILE
8	AG	176	GLN
8	AG	177	ARG
8	AG	179	VAL
8	AG	211	LEU
8	AG	212	LEU
8	AG	217	SER
8	AG	223	LYS
9	AH	7	LYS
9	AH	9	LEU
9	AH	25	VAL
9	AH	37	GLU
9	AH	38	LEU
9	AH	42	GLN
9	AH	46	ILE
9	AH	49	ILE

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Mol	Chain	Res	Type
9	AH	50	ASP
9	AH	51	VAL
9	AH	58	LEU
9	AH	60	ILE
9	AH	66	SER
9	AH	67	LEU
9	AH	70	PHE
9	AH	74	GLN
9	AH	75	THR
9	AH	77	LEU
9	AH	78	THR
9	AH	79	ARG
9	AH	80	GLU
9	AH	87	ASP
9	AH	95	GLU
9	AH	97	ARG
9	AH	103	SER
9	AH	105	THR
9	AH	108	GLN
9	AH	109	VAL
9	AH	110	GLN
9	AH	114	ARG
9	AH	116	ARG
9	AH	117	THR
9	AH	121	VAL
9	AH	126	LEU
9	AH	130	VAL
9	AH	136	VAL
9	AH	143	LEU
9	AH	144	VAL
9	AH	148	LYS
9	AH	150	GLN
9	AH	154	LEU
9	AH	161	GLN
9	AH	162	ILE
9	AH	166	LEU
9	AH	167	GLU
9	AH	175	LYS
9	AH	181	ILE
9	AH	184	GLU
9	AH	185	ILE
10	AI	7	SER

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Mol	Chain	Res	Type
10	AI	8	ARG
10	AI	14	THR
10	AI	20	GLN
10	AI	21	PHE
10	AI	26	LYS
10	AI	28	GLU
10	AI	29	LEU
10	AI	32	GLN
10	AI	36	THR
10	AI	46	VAL
10	AI	56	ARG
10	AI	58	LEU
10	AI	60	ILE
10	AI	72	ILE
10	AI	74	LYS
10	AI	76	THR
10	AI	82	VAL
10	AI	103	GLN
10	AI	107	THR
10	AI	120	THR
10	AI	121	LEU
10	AI	123	LYS
10	AI	135	LYS
10	AI	137	LYS
10	AI	138	ASN
10	AI	140	GLU
10	AI	142	LYS
10	AI	151	LYS
10	AI	152	ILE
10	AI	154	SER
10	AI	155	SER
10	AI	164	ARG
10	AI	184	LEU
10	AI	196	LEU
10	AI	199	LYS
11	AJ	3	ARG
11	AJ	7	THR
11	AJ	13	SER
11	AJ	14	THR
11	AJ	22	SER
11	AJ	28	LEU
11	AJ	39	LYS

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Mol	Chain	Res	Type
11	AJ	46	SER
11	AJ	49	LEU
11	AJ	54	ARG
11	AJ	60	LEU
11	AJ	78	ARG
11	AJ	79	ARG
11	AJ	82	ARG
11	AJ	88	GLU
11	AJ	89	ASP
11	AJ	92	LYS
11	AJ	93	LEU
11	AJ	96	VAL
11	AJ	99	LEU
11	AJ	101	VAL
11	AJ	105	LEU
11	AJ	109	LEU
11	AJ	110	GLN
11	AJ	111	THR
11	AJ	113	VAL
11	AJ	120	LYS
11	AJ	130	THR
11	AJ	133	HIS
11	AJ	134	ILE
11	AJ	138	LYS
11	AJ	149	ARG
11	AJ	161	THR
11	AJ	171	ARG
11	AJ	172	VAL
11	AJ	175	ARG
11	AJ	182	GLU
12	AK	8	ARG
12	AK	13	GLN
12	AK	20	VAL
12	AK	22	VAL
12	AK	27	PHE
12	AK	29	GLN
12	AK	31	LYS
12	AK	32	HIS
12	AK	40	LEU
12	AK	46	LEU
12	AK	47	GLN
12	AK	49	LEU

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Mol	Chain	Res	Type
12	AK	50	THR
12	AK	55	VAL
12	AK	56	LYS
12	AK	71	GLU
12	AK	76	LEU
12	AK	78	GLU
12	AK	80	LEU
12	AK	82	LEU
13	AL	3	THR
13	AL	4	GLU
13	AL	7	VAL
13	AL	8	GLN
13	AL	21	ASN
13	AL	27	THR
13	AL	29	LYS
13	AL	30	ARG
13	AL	40	LEU
13	AL	43	LYS
13	AL	44	THR
13	AL	54	ILE
13	AL	56	LYS
13	AL	63	LEU
13	AL	67	ARG
13	AL	74	THR
13	AL	79	LYS
13	AL	80	MET
13	AL	83	THR
13	AL	94	ILE
13	AL	99	ARG
13	AL	109	VAL
13	AL	123	VAL
13	AL	127	GLN
13	AL	131	ILE
13	AL	140	VAL
13	AL	141	LYS
14	AM	25	GLU
14	AM	28	LEU
14	AM	31	VAL
14	AM	33	ARG
14	AM	36	LEU
14	AM	41	LEU
14	AM	43	ARG

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Mol	Chain	Res	Type
14	AM	45	LEU
14	AM	50	LYS
14	AM	52	LEU
14	AM	53	THR
14	AM	58	LEU
14	AM	59	LEU
14	AM	61	VAL
14	AM	62	LEU
14	AM	63	VAL
14	AM	66	VAL
14	AM	71	ILE
14	AM	74	LEU
14	AM	75	VAL
14	AM	83	GLU
14	AM	88	LEU
14	AM	89	ILE
14	AM	97	LEU
14	AM	103	LEU
14	AM	116	VAL
14	AM	119	SER
14	AM	121	VAL
14	AM	129	GLU
14	AM	132	GLU
14	AM	135	MET
14	AM	138	GLU
14	AM	139	HIS
14	AM	140	PHE
14	AM	141	SER
15	AN	3	ARG
15	AN	4	MET
15	AN	12	SER
15	AN	16	ILE
15	AN	21	ASN
15	AN	27	LYS
15	AN	33	VAL
15	AN	36	GLN
15	AN	39	LYS
15	AN	42	ARG
15	AN	45	LEU
15	AN	50	ILE
15	AN	55	ARG
15	AN	56	ASP

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Mol	Chain	Res	Type
15	AN	58	HIS
15	AN	60	VAL
15	AN	62	GLN
15	AN	64	ARG
15	AN	65	VAL
15	AN	66	ILE
15	AN	67	THR
15	AN	71	ILE
15	AN	77	SER
15	AN	83	GLU
15	AN	84	ILE
15	AN	88	LEU
15	AN	93	LYS
15	AN	94	LYS
15	AN	97	SER
15	AN	102	LEU
15	AN	105	ASN
15	AN	109	LYS
15	AN	114	ARG
15	AN	115	LEU
15	AN	125	LEU
15	AN	134	VAL
15	AN	142	GLU
15	AN	145	THR
15	AN	149	LEU
15	AN	150	VAL
15	AN	151	ASN
16	AO	13	VAL
16	AO	14	PHE
16	AO	16	VAL
16	AO	24	ASN
16	AO	26	THR
16	AO	28	VAL
16	AO	29	HIS
16	AO	30	VAL
16	AO	31	THR
16	AO	39	ILE
16	AO	42	VAL
16	AO	43	THR
16	AO	81	VAL
16	AO	92	LYS
16	AO	99	GLN

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Mol	Chain	Res	Type
16	AO	102	LEU
16	AO	103	ARG
16	AO	107	ARG
16	AO	108	SER
16	AO	118	VAL
16	AO	123	SER
16	AO	124	ASP
16	AO	125	SER
16	AO	137	LEU
17	AP	14	THR
17	AP	22	LEU
17	AP	24	LYS
17	AP	26	LEU
17	AP	30	THR
17	AP	31	GLU
17	AP	34	VAL
17	AP	35	LYS
17	AP	44	ARG
17	AP	47	ARG
17	AP	50	THR
17	AP	52	LYS
17	AP	69	GLU
17	AP	86	VAL
17	AP	92	SER
17	AP	100	LYS
17	AP	110	GLU
17	AP	121	ILE
17	AP	125	PRO
17	AP	130	ARG
18	AQ	4	VAL
18	AQ	8	GLN
18	AQ	12	LYS
18	AQ	14	LYS
18	AQ	17	THR
18	AQ	23	LYS
18	AQ	26	LYS
18	AQ	36	ILE
18	AQ	39	VAL
18	AQ	43	ILE
18	AQ	44	LEU
18	AQ	45	ARG
18	AQ	52	LEU

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Mol	Chain	Res	Type
18	AQ	53	LEU
18	AQ	54	LEU
18	AQ	57	LEU
18	AQ	59	LYS
18	AQ	63	ILE
18	AQ	66	ARG
18	AQ	67	VAL
18	AQ	69	VAL
18	AQ	76	SER
18	AQ	90	VAL
18	AQ	94	GLN
18	AQ	98	ASP
18	AQ	101	SER
18	AQ	106	LYS
18	AQ	115	THR
18	AQ	117	LEU
18	AQ	118	ILE
18	AQ	123	ARG
18	AQ	128	LYS
18	AQ	136	SER
18	AQ	137	ARG
18	AQ	141	SER
19	AR	4	VAL
19	AR	25	THR
19	AR	26	LEU
19	AR	29	GLN
19	AR	30	THR
19	AR	34	LEU
19	AR	38	ILE
19	AR	44	LYS
19	AR	46	LEU
19	AR	49	LYS
19	AR	54	THR
19	AR	69	ILE
19	AR	72	LYS
19	AR	73	LEU
19	AR	78	ARG
19	AR	83	GLN
19	AR	105	GLN
19	AR	107	SER
19	AR	111	LYS
19	AR	113	LEU

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Mol	Chain	Res	Type
19	AR	115	LEU
19	AR	119	LEU
20	AS	3	LEU
20	AS	4	VAL
20	AS	5	VAL
20	AS	8	GLN
20	AS	11	PHE
20	AS	12	GLN
20	AS	13	HIS
20	AS	14	ILE
20	AS	15	LEU
20	AS	17	LEU
20	AS	20	THR
20	AS	21	ASN
20	AS	26	ILE
20	AS	28	ILE
20	AS	34	THR
20	AS	38	VAL
20	AS	46	VAL
20	AS	54	LEU
20	AS	57	ARG
20	AS	60	GLU
20	AS	61	LEU
20	AS	71	GLN
20	AS	74	GLN
20	AS	77	THR
20	AS	80	LYS
20	AS	81	ILE
20	AS	86	LEU
20	AS	89	GLN
20	AS	92	ILE
20	AS	93	THR
20	AS	96	LYS
20	AS	107	SER
20	AS	108	LYS
20	AS	110	ARG
20	AS	116	LEU
20	AS	119	ILE
20	AS	132	ARG
20	AS	136	GLN
20	AS	138	THR
20	AS	140	THR

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Mol	Chain	Res	Type
20	AS	143	ARG
21	AT	4	VAL
21	AT	6	VAL
21	AT	13	ASP
21	AT	22	LEU
21	AT	28	LEU
21	AT	30	VAL
21	AT	33	TYR
21	AT	34	VAL
21	AT	35	ASP
21	AT	36	ILE
21	AT	37	VAL
21	AT	38	LYS
21	AT	57	ARG
21	AT	63	ARG
21	AT	67	MET
21	AT	68	ARG
21	AT	84	LYS
21	AT	86	ARG
21	AT	88	VAL
21	AT	89	ARG
21	AT	92	LYS
21	AT	94	ILE
21	AT	103	LYS
21	AT	111	ILE
21	AT	113	ILE
21	AT	126	GLU
21	AT	131	ASP
21	AT	132	LEU
21	AT	134	ARG
21	AT	135	ILE
21	AT	144	GLU
22	AU	15	GLN
22	AU	17	GLN
22	AU	18	GLN
22	AU	20	ILE
22	AU	22	ILE
22	AU	23	ARG
22	AU	27	THR
22	AU	30	LYS
22	AU	31	VAL
22	AU	34	LEU

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Mol	Chain	Res	Type
22	AU	35	GLU
22	AU	42	VAL
22	AU	43	LYS
22	AU	47	GLN
22	AU	48	HIS
22	AU	51	VAL
22	AU	57	ARG
22	AU	58	LEU
22	AU	60	THR
22	AU	61	LYS
22	AU	66	SER
22	AU	74	GLU
22	AU	76	SER
22	AU	81	THR
22	AU	88	LYS
22	AU	89	ARG
22	AU	97	VAL
22	AU	99	ILE
22	AU	103	ILE
22	AU	108	ILE
22	AU	121	ASN
23	AV	1	MET
23	AV	2	GLU
23	AV	3	ASN
23	AV	5	LYS
23	AV	7	GLN
23	AV	11	LEU
23	AV	24	ILE
23	AV	25	LYS
23	AV	32	VAL
23	AV	38	LYS
23	AV	41	GLU
23	AV	49	GLU
23	AV	52	THR
23	AV	60	ARG
23	AV	62	ARG
23	AV	68	SER
23	AV	69	LEU
23	AV	74	GLN
23	AV	78	LEU
23	AV	80	LYS
24	AW	6	VAL

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Mol	Chain	Res	Type
24	AW	7	LEU
24	AW	22	LYS
24	AW	23	ARG
24	AW	24	GLN
24	AW	25	VAL
24	AW	27	ILE
24	AW	30	SER
24	AW	43	LYS
24	AW	47	ILE
24	AW	53	ILE
24	AW	56	HIS
24	AW	65	LEU
24	AW	66	ASN
24	AW	69	LEU
24	AW	74	VAL
24	AW	83	ILE
24	AW	86	ILE
24	AW	87	GLU
24	AW	93	LEU
24	AW	98	GLN
24	AW	103	ILE
24	AW	104	LEU
24	AW	105	THR
24	AW	114	GLU
24	AW	119	LYS
24	AW	121	VAL
24	AW	129	VAL
25	AX	7	ARG
25	AX	9	LEU
25	AX	14	LYS
25	AX	18	HIS
25	AX	19	ARG
25	AX	26	GLU
25	AX	28	ASN
25	AX	40	SER
25	AX	60	GLU
25	AX	62	LYS
25	AX	69	ARG
25	AX	82	LYS
25	AX	83	VAL
25	AX	84	THR
25	AX	103	LEU

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Mol	Chain	Res	Type
25	AX	107	PHE
25	AX	109	ARG
25	AX	110	LYS
25	AX	114	LYS
25	AX	117	ILE
25	AX	131	SER
25	AX	133	LEU
25	AX	137	LYS
25	AX	138	GLU
25	AX	140	LYS
25	AX	144	ARG
26	AY	8	ARG
26	AY	10	ARG
26	AY	17	LEU
26	AY	29	HIS
26	AY	32	ARG
26	AY	34	ASN
26	AY	44	LEU
26	AY	46	GLU
26	AY	47	VAL
26	AY	49	LYS
26	AY	51	GLU
26	AY	52	LYS
26	AY	57	VAL
26	AY	61	ARG
26	AY	62	THR
26	AY	75	VAL
26	AY	81	GLU
26	AY	84	LYS
26	AY	88	THR
26	AY	93	ARG
26	AY	96	LEU
26	AY	99	LYS
26	AY	102	LYS
26	AY	105	ARG
26	AY	107	GLN
26	AY	112	LYS
26	AY	123	LYS
26	AY	127	LYS
26	AY	128	LYS
26	AY	129	VAL
26	AY	135	ASP

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Mol	Chain	Res	Type
27	AZ	38	HIS
27	AZ	42	LEU
27	AZ	49	ARG
27	AZ	50	ILE
27	AZ	58	ARG
27	AZ	68	ARG
27	AZ	69	LEU
27	AZ	71	ILE
27	AZ	75	LEU
27	AZ	77	ARG
27	AZ	80	LEU
27	AZ	85	LYS
27	AZ	88	ILE
27	AZ	92	ILE
27	AZ	93	SER
27	AZ	95	HIS
27	AZ	96	SER
27	AZ	100	ILE
27	AZ	105	THR
28	Aa	12	LYS
28	Aa	30	ILE
28	Aa	36	ILE
28	Aa	41	ILE
28	Aa	44	ILE
28	Aa	45	VAL
28	Aa	50	VAL
28	Aa	53	LEU
28	Aa	58	VAL
28	Aa	61	GLU
28	Aa	64	LEU
28	Aa	66	LYS
28	Aa	67	THR
28	Aa	68	TYR
28	Aa	69	ASN
28	Aa	70	LYS
28	Aa	82	ARG
28	Aa	83	ILE
28	Aa	84	VAL
28	Aa	85	ARG
28	Aa	86	VAL
28	Aa	87	ARG
28	Aa	90	GLU

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Mol	Chain	Res	Type
29	Ab	2	VAL
29	Ab	3	LEU
29	Ab	4	VAL
29	Ab	20	LYS
29	Ab	26	GLN
29	Ab	29	ARG
29	Ab	33	LEU
29	Ab	34	ASP
29	Ab	41	LEU
29	Ab	67	THR
30	Ac	5	THR
30	Ac	13	ILE
30	Ac	14	LYS
30	Ac	15	VAL
30	Ac	19	THR
30	Ac	25	VAL
30	Ac	32	PHE
30	Ac	33	LEU
30	Ac	34	GLU
30	Ac	38	ARG
30	Ac	39	THR
30	Ac	49	ARG
30	Ac	52	ASP
30	Ac	54	LEU
30	Ac	57	MET
30	Ac	58	GLU
30	Ac	59	SER
30	Ac	62	GLU
30	Ac	64	ARG
30	Ac	65	ARG
31	Ad	6	VAL
31	Ad	22	ARG
31	Ad	25	SER
31	Ad	30	LEU
31	Ad	32	ARG
31	Ad	36	LEU
31	Ad	48	ASN
32	Ae	3	LYS
32	Ae	20	LYS
32	Ae	21	VAL
32	Ae	25	GLU
32	Ae	28	LYS

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Mol	Chain	Res	Type
32	Ae	29	LYS
32	Ae	42	ARG
32	Ae	48	THR
32	Ae	49	LEU
32	Ae	50	VAL
33	Af	102	VAL
33	Af	108	VAL
33	Af	120	GLU
33	Af	121	CYS
33	Af	125	THR
33	Af	130	VAL
33	Af	137	ASP
33	Af	146	SER
33	Af	147	VAL
33	Af	149	LYS
33	Af	150	VAL
33	Af	151	ASN
34	Ag	6	VAL
34	Ag	7	LEU
34	Ag	8	VAL
34	Ag	10	ARG
34	Ag	46	LYS
34	Ag	47	LEU
34	Ag	48	THR
34	Ag	51	ASP
34	Ag	52	GLN
34	Ag	58	VAL
34	Ag	76	ASP
34	Ag	87	LYS
34	Ag	88	THR
34	Ag	91	LEU
34	Ag	94	VAL
34	Ag	96	THR
34	Ag	112	SER
34	Ag	117	LYS
34	Ag	118	LYS
34	Ag	129	LYS
34	Ag	134	TRP
34	Ag	136	ILE
34	Ag	137	LYS
34	Ag	141	LEU
34	Ag	153	GLN

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Mol	Chain	Res	Type
34	Ag	165	ASP
34	Ag	166	SER
34	Ag	185	GLN
34	Ag	188	ILE
34	Ag	193	ILE
34	Ag	199	ILE
34	Ag	211	ILE
34	Ag	216	LYS
34	Ag	222	LEU
34	Ag	238	ASP
34	Ag	248	ASN
34	Ag	250	TYR
34	Ag	265	LEU
34	Ag	266	ASP
34	Ag	268	GLN
34	Ag	292	LEU
34	Ag	300	THR
34	Ag	316	MET
34	Ag	317	THR
35	Ah	24	GLU
35	Ah	25	ILE
35	Ah	28	SER
35	Ah	34	LYS
35	Ah	46	LYS
35	Ah	51	ARG
35	Ah	61	ILE
35	Ah	64	LYS
35	Ah	65	THR
35	Ah	68	ARG
35	Ah	75	ASP
35	Ah	78	ASP
35	Ah	82	THR
35	Ah	84	LYS
35	Ah	88	ARG
35	Ah	89	ARG
35	Ah	96	ARG
35	Ah	97	THR
35	Ah	100	THR
35	Ah	102	THR
35	Ah	105	LYS
35	Ah	112	ASP
35	Ah	116	GLU

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Mol	Chain	Res	Type
35	Ah	130	GLU
35	Ah	131	ILE
35	Ah	139	GLU
39	BA	10	LYS
39	BA	18	SER
39	BA	20	THR
39	BA	31	THR
39	BA	32	LEU
39	BA	41	ILE
39	BA	44	ILE
39	BA	45	VAL
39	BA	48	ILE
39	BA	62	VAL
39	BA	70	ARG
39	BA	72	ARG
39	BA	74	GLU
39	BA	82	VAL
39	BA	88	ILE
39	BA	95	SER
39	BA	98	VAL
39	BA	101	VAL
39	BA	104	LEU
39	BA	116	VAL
39	BA	126	LEU
39	BA	134	VAL
39	BA	137	ILE
39	BA	157	VAL
39	BA	165	VAL
39	BA	169	ILE
39	BA	177	LYS
39	BA	179	LEU
39	BA	180	LEU
39	BA	181	LYS
39	BA	190	ARG
39	BA	191	LEU
39	BA	202	VAL
39	BA	204	MET
39	BA	207	VAL
39	BA	219	ILE
39	BA	225	ILE
39	BA	227	ARG
39	BA	230	VAL

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Mol	Chain	Res	Type
39	BA	247	ARG
40	BB	2	SER
40	BB	7	GLU
40	BB	10	ARG
40	BB	17	LEU
40	BB	19	ARG
40	BB	20	LYS
40	BB	25	ILE
40	BB	30	LYS
40	BB	37	ARG
40	BB	39	LYS
40	BB	47	LEU
40	BB	50	LYS
40	BB	56	ILE
40	BB	70	ARG
40	BB	73	VAL
40	BB	79	VAL
40	BB	84	VAL
40	BB	85	VAL
40	BB	90	VAL
40	BB	100	ARG
40	BB	103	THR
40	BB	105	VAL
40	BB	110	LEU
40	BB	111	SER
40	BB	114	VAL
40	BB	116	ARG
40	BB	121	ASN
40	BB	134	SER
40	BB	139	GLN
40	BB	144	ILE
40	BB	146	ARG
40	BB	148	LEU
40	BB	150	ARG
40	BB	153	LYS
40	BB	156	SER
40	BB	157	VAL
40	BB	162	VAL
40	BB	166	ILE
40	BB	169	THR
40	BB	173	GLN
40	BB	181	ILE

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Mol	Chain	Res	Type
40	BB	183	LEU
40	BB	187	SER
40	BB	188	ILE
40	BB	192	VAL
40	BB	196	ARG
40	BB	200	GLU
40	BB	202	THR
40	BB	205	VAL
40	BB	206	ASP
40	BB	210	GLU
40	BB	215	ILE
40	BB	221	THR
40	BB	229	VAL
40	BB	232	ARG
40	BB	235	THR
40	BB	238	LEU
40	BB	241	LYS
40	BB	242	THR
40	BB	244	ARG
40	BB	246	LEU
40	BB	252	ILE
40	BB	264	VAL
40	BB	275	ARG
40	BB	281	LYS
40	BB	300	ARG
40	BB	301	THR
40	BB	305	ILE
40	BB	308	MET
40	BB	319	ASN
40	BB	320	ASP
40	BB	324	VAL
40	BB	325	LYS
40	BB	328	ILE
40	BB	332	ARG
40	BB	336	VAL
40	BB	338	LEU
40	BB	341	SER
40	BB	344	THR
40	BB	346	THR
40	BB	347	SER
40	BB	349	LYS
40	BB	352	GLU

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Mol	Chain	Res	Type
40	BB	355	SER
40	BB	361	THR
40	BB	364	LYS
40	BB	372	THR
40	BB	380	MET
40	BB	385	LYS
40	BB	387	LEU
41	BC	4	PRO
41	BC	22	LEU
41	BC	25	VAL
41	BC	40	THR
41	BC	47	ARG
41	BC	53	SER
41	BC	60	THR
41	BC	69	ARG
41	BC	71	VAL
41	BC	73	ARG
41	BC	74	ILE
41	BC	93	MET
41	BC	98	ARG
41	BC	99	MET
41	BC	108	LYS
41	BC	122	THR
41	BC	124	SER
41	BC	133	SER
41	BC	136	LEU
41	BC	138	ARG
41	BC	144	LYS
41	BC	148	ILE
41	BC	150	LEU
41	BC	152	VAL
41	BC	156	LEU
41	BC	170	LYS
41	BC	172	VAL
41	BC	177	ASP
41	BC	179	LEU
41	BC	182	LEU
41	BC	185	LYS
41	BC	187	LEU
41	BC	188	ARG
41	BC	193	LYS
41	BC	200	THR

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Mol	Chain	Res	Type
41	BC	203	ARG
41	BC	206	LEU
41	BC	216	VAL
41	BC	220	ARG
41	BC	222	VAL
41	BC	230	VAL
41	BC	233	LEU
41	BC	246	ARG
41	BC	258	LEU
41	BC	259	ASP
41	BC	267	VAL
41	BC	283	THR
41	BC	287	THR
41	BC	289	ILE
41	BC	295	ILE
41	BC	306	THR
41	BC	307	GLN
41	BC	313	LEU
41	BC	319	LYS
41	BC	322	GLN
41	BC	323	VAL
41	BC	332	LYS
41	BC	333	VAL
41	BC	339	LEU
41	BC	343	LYS
41	BC	345	GLU
41	BC	346	LYS
41	BC	349	THR
41	BC	350	LYS
41	BC	354	VAL
41	BC	356	THR
41	BC	358	THR
42	BD	4	GLN
42	BD	5	LYS
42	BD	8	LYS
42	BD	9	SER
42	BD	10	SER
42	BD	15	ARG
42	BD	22	ARG
42	BD	23	ARG
42	BD	35	ARG
42	BD	41	LYS

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Mol	Chain	Res	Type
42	BD	64	ILE
42	BD	68	THR
42	BD	69	ILE
42	BD	85	ARG
42	BD	89	THR
42	BD	92	LEU
42	BD	93	THR
42	BD	105	ILE
42	BD	109	THR
42	BD	115	LEU
42	BD	118	THR
42	BD	122	VAL
42	BD	123	GLU
42	BD	128	GLU
42	BD	131	LEU
42	BD	135	VAL
42	BD	137	ASP
42	BD	140	ARG
42	BD	144	VAL
42	BD	146	LEU
42	BD	148	ILE
42	BD	151	GLN
42	BD	152	ARG
42	BD	154	THR
42	BD	155	THR
42	BD	159	VAL
42	BD	163	LEU
42	BD	164	LYS
42	BD	177	GLU
42	BD	187	THR
42	BD	188	GLU
42	BD	193	GLU
42	BD	194	LEU
42	BD	196	ARG
42	BD	208	MET
42	BD	211	LEU
42	BD	222	LEU
42	BD	231	ILE
42	BD	232	ASP
42	BD	241	THR
42	BD	254	LYS
42	BD	257	GLU

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Mol	Chain	Res	Type
42	BD	259	LYS
42	BD	263	GLU
42	BD	264	GLN
42	BD	273	ARG
42	BD	277	LEU
42	BD	279	LYS
42	BD	280	GLU
42	BD	290	ILE
42	BD	293	LEU
43	BE	5	LYS
43	BE	15	VAL
43	BE	18	LEU
43	BE	21	THR
43	BE	31	ARG
43	BE	52	VAL
43	BE	64	LEU
43	BE	65	ILE
43	BE	78	ARG
43	BE	79	VAL
43	BE	84	VAL
43	BE	89	THR
43	BE	90	LYS
43	BE	93	VAL
43	BE	94	GLU
43	BE	98	VAL
43	BE	108	LYS
43	BE	129	GLU
43	BE	130	ILE
43	BE	134	ARG
43	BE	146	ILE
43	BE	152	THR
43	BE	155	LEU
43	BE	175	LYS
44	BF	24	GLU
44	BF	25	GLN
44	BF	38	LYS
44	BF	56	GLU
44	BF	77	VAL
44	BF	82	LYS
44	BF	83	LEU
44	BF	87	VAL
44	BF	88	ARG

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Mol	Chain	Res	Type
44	BF	92	ILE
44	BF	93	ASN
44	BF	98	LYS
44	BF	101	LYS
44	BF	110	ARG
44	BF	121	LYS
44	BF	124	LEU
44	BF	143	THR
44	BF	151	ARG
44	BF	158	LYS
44	BF	179	LEU
44	BF	184	LEU
44	BF	208	SER
44	BF	216	VAL
44	BF	239	LEU
45	BG	26	LEU
45	BG	27	THR
45	BG	36	ILE
45	BG	41	GLN
45	BG	50	VAL
45	BG	61	GLN
45	BG	63	LYS
45	BG	69	LEU
45	BG	71	VAL
45	BG	74	THR
45	BG	79	GLN
45	BG	81	THR
45	BG	82	LEU
45	BG	84	ARG
45	BG	90	THR
45	BG	92	LYS
45	BG	95	ASN
45	BG	110	THR
45	BG	116	VAL
45	BG	118	GLU
45	BG	132	VAL
45	BG	136	LEU
45	BG	150	LEU
45	BG	156	ASP
45	BG	160	ILE
45	BG	163	VAL
45	BG	169	LEU

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Mol	Chain	Res	Type
45	BG	181	LYS
45	BG	183	LYS
45	BG	185	ARG
45	BG	189	LEU
45	BG	203	VAL
45	BG	204	ARG
45	BG	214	LEU
45	BG	216	SER
45	BG	238	LEU
45	BG	241	LYS
45	BG	246	MET
45	BG	248	LYS
45	BG	251	LYS
45	BG	254	ASP
46	BH	1	MET
46	BH	4	ILE
46	BH	5	GLN
46	BH	9	GLN
46	BH	16	VAL
46	BH	18	VAL
46	BH	20	ILE
46	BH	22	SER
46	BH	24	ILE
46	BH	33	THR
46	BH	36	LYS
46	BH	41	ILE
46	BH	48	VAL
46	BH	49	ASN
46	BH	52	LEU
46	BH	62	ARG
46	BH	65	VAL
46	BH	68	LEU
46	BH	69	ARG
46	BH	70	THR
46	BH	80	THR
46	BH	82	VAL
46	BH	91	ARG
46	BH	121	LYS
46	BH	123	ILE
46	BH	132	VAL
46	BH	134	ILE
46	BH	135	GLU

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Mol	Chain	Res	Type
46	BH	137	SER
46	BH	138	THR
46	BH	139	ASN
46	BH	147	SER
46	BH	151	VAL
46	BH	152	GLU
46	BH	161	LEU
46	BH	162	GLN
46	BH	164	ILE
46	BH	166	ARG
46	BH	170	LYS
46	BH	172	ILE
46	BH	173	ARG
46	BH	189	GLU
46	BH	190	ASP
46	BH	191	LEU
47	BI	3	ARG
47	BI	19	LYS
47	BI	24	ARG
47	BI	26	VAL
47	BI	30	LYS
47	BI	32	ARG
47	BI	33	ILE
47	BI	36	LEU
47	BI	40	LYS
47	BI	42	THR
47	BI	48	LEU
47	BI	52	LEU
47	BI	57	LEU
47	BI	63	GLU
47	BI	74	LYS
47	BI	77	THR
47	BI	78	THR
47	BI	87	LEU
47	BI	90	ARG
47	BI	91	VAL
47	BI	99	ILE
47	BI	116	ARG
47	BI	129	VAL
47	BI	130	ASP
47	BI	140	THR
47	BI	156	ARG

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Mol	Chain	Res	Type
47	BI	163	GLN
47	BI	165	ILE
47	BI	169	LYS
47	BI	174	THR
47	BI	184	LYS
47	BI	185	ARG
47	BI	191	LYS
47	BI	197	VAL
47	BI	203	LYS
47	BI	207	GLU
47	BI	215	GLU
48	BJ	6	GLN
48	BJ	7	ASN
48	BJ	9	MET
48	BJ	10	ARG
48	BJ	12	LEU
48	BJ	13	LYS
48	BJ	16	LYS
48	BJ	19	LEU
48	BJ	23	VAL
48	BJ	25	GLU
48	BJ	26	SER
48	BJ	31	THR
48	BJ	34	SER
48	BJ	44	THR
48	BJ	46	VAL
48	BJ	59	ILE
48	BJ	65	ILE
48	BJ	70	THR
48	BJ	80	LEU
48	BJ	84	LEU
48	BJ	88	GLU
48	BJ	94	ARG
48	BJ	99	THR
48	BJ	106	ILE
48	BJ	107	ASP
48	BJ	112	LEU
48	BJ	114	ILE
48	BJ	115	LYS
48	BJ	119	SER
48	BJ	120	ILE
48	BJ	122	ILE

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Mol	Chain	Res	Type
48	BJ	125	MET
48	BJ	130	VAL
48	BJ	134	PRO
48	BJ	137	ARG
48	BJ	138	VAL
48	BJ	140	ARG
48	BJ	142	LYS
48	BJ	148	VAL
48	BJ	158	ASP
48	BJ	161	SER
48	BJ	166	LYS
48	BJ	172	LEU
49	BL	5	LYS
49	BL	15	ARG
49	BL	23	LYS
49	BL	31	LYS
49	BL	46	ILE
49	BL	51	LEU
49	BL	54	LEU
49	BL	57	VAL
49	BL	58	VAL
49	BL	59	ARG
49	BL	63	VAL
49	BL	67	ARG
49	BL	69	VAL
49	BL	85	LEU
49	BL	93	ILE
49	BL	107	GLU
49	BL	114	GLN
49	BL	115	ARG
49	BL	122	LYS
49	BL	124	ILE
49	BL	131	LYS
49	BL	134	GLU
49	BL	136	GLU
49	BL	140	SER
49	BL	147	ILE
49	BL	164	GLU
49	BL	168	ARG
49	BL	171	ARG
49	BL	180	ARG
49	BL	182	ILE

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Mol	Chain	Res	Type
49	BL	188	ARG
49	BL	190	LYS
49	BL	194	GLU
50	BM	6	ILE
50	BM	8	LYS
50	BM	13	ARG
50	BM	15	VAL
50	BM	20	VAL
50	BM	25	LYS
50	BM	27	GLN
50	BM	43	LYS
50	BM	50	LYS
50	BM	53	VAL
50	BM	58	ILE
50	BM	64	VAL
50	BM	66	THR
50	BM	72	LEU
50	BM	82	SER
50	BM	90	VAL
50	BM	92	GLU
50	BM	93	LYS
50	BM	102	LYS
50	BM	108	ARG
50	BM	113	THR
50	BM	125	LYS
50	BM	126	GLN
50	BM	130	THR
50	BM	132	LYS
50	BM	135	LEU
51	BN	10	LEU
51	BN	14	LYS
51	BN	15	GLN
51	BN	18	VAL
51	BN	19	LEU
51	BN	20	ARG
51	BN	22	LEU
51	BN	27	VAL
51	BN	38	ARG
51	BN	49	ARG
51	BN	50	ARG
51	BN	68	ARG
51	BN	75	VAL

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Mol	Chain	Res	Type
51	BN	80	THR
51	BN	83	LYS
51	BN	85	THR
51	BN	89	VAL
51	BN	92	LEU
51	BN	96	ARG
51	BN	97	SER
51	BN	98	LEU
51	BN	105	ARG
51	BN	106	VAL
51	BN	113	LEU
51	BN	117	ASN
51	BN	131	GLU
51	BN	133	ILE
51	BN	142	ILE
51	BN	151	ILE
51	BN	155	VAL
51	BN	157	LYS
51	BN	170	LYS
51	BN	182	ASN
51	BN	183	THR
51	BN	190	THR
51	BN	196	THR
51	BN	198	SER
51	BN	204	LYS
52	BO	12[A]	LYS
52	BO	12[B]	LYS
52	BO	22[A]	VAL
52	BO	22[B]	THR
52	BO	25[A]	LYS
52	BO	25[B]	LYS
52	BO	33[A]	ILE
52	BO	33[B]	ILE
52	BO	34[A]	VAL
52	BO	34[B]	VAL
52	BO	41[A]	LEU
52	BO	41[B]	LEU
52	BO	58[A]	LEU
52	BO	58[B]	LEU
52	BO	59[A]	ARG
52	BO	59[B]	ARG
52	BO	67[A]	THR

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Mol	Chain	Res	Type
52	BO	67[B]	THR
52	BO	78[A]	ARG
52	BO	78[B]	ARG
52	BO	84[A]	LEU
52	BO	84[B]	ILE
52	BO	85[A]	ARG
52	BO	85[B]	ARG
52	BO	88[A]	VAL
52	BO	88[B]	VAL
52	BO	106[A]	GLU
52	BO	106[B]	GLU
52	BO	110[A]	PRO
52	BO	110[B]	PRO
52	BO	116[A]	LYS
52	BO	116[B]	LYS
52	BO	117[A]	ARG
52	BO	117[B]	ARG
52	BO	122[A]	GLN
52	BO	122[B]	GLN
52	BO	124[A]	LEU
52	BO	124[B]	LEU
52	BO	126[A]	VAL
52	BO	126[B]	VAL
52	BO	128[A]	ARG
52	BO	128[B]	ARG
52	BO	129[A]	LEU
52	BO	129[B]	LEU
52	BO	134[A]	LYS
52	BO	134[B]	LYS
52	BO	142[A]	SER
52	BO	142[B]	SER
52	BO	143[A]	THR
52	BO	143[B]	THR
52	BO	148[A]	LYS
52	BO	148[B]	LYS
52	BO	160[A]	ARG
52	BO	160[B]	ARG
52	BO	170[A]	LYS
52	BO	170[B]	LYS
52	BO	175[A]	THR
52	BO	175[B]	THR
52	BO	182[A]	ASN

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Mol	Chain	Res	Type
52	BO	182[B]	SER
52	BO	186[B]	SER
52	BO	192[A]	LYS
52	BO	192[B]	LYS
53	BP	9	THR
53	BP	24	VAL
53	BP	29	THR
53	BP	32	THR
53	BP	36	ILE
53	BP	41	LEU
53	BP	52	LEU
53	BP	53	ASP
53	BP	56	ARG
53	BP	67	ILE
53	BP	69	ARG
53	BP	70	THR
53	BP	78	VAL
53	BP	91	VAL
53	BP	94	LEU
53	BP	111	LYS
53	BP	112	LEU
53	BP	114	VAL
53	BP	118	GLN
53	BP	119	VAL
53	BP	120	ASN
53	BP	123	PRO
53	BP	124	LYS
53	BP	126	ARG
53	BP	127	ARG
53	BP	136	ILE
53	BP	142	SER
53	BP	144	SER
53	BP	151	THR
53	BP	153	LYS
53	BP	157	VAL
53	BP	166	VAL
53	BP	171	ARG
53	BP	173	ARG
53	BP	180	LYS
53	BP	181	ARG
54	BQ	3	ILE
54	BQ	7	SER

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Mol	Chain	Res	Type
54	BQ	17	THR
54	BQ	24	VAL
54	BQ	26	LEU
54	BQ	32	LEU
54	BQ	34	THR
54	BQ	39	ARG
54	BQ	41	ASP
54	BQ	46	LYS
54	BQ	49	LEU
54	BQ	57	ILE
54	BQ	64	VAL
54	BQ	69	ARG
54	BQ	73	GLN
54	BQ	74	GLU
54	BQ	81	VAL
54	BQ	86	THR
54	BQ	88	THR
54	BQ	93	ILE
54	BQ	98	LYS
54	BQ	113	LYS
54	BQ	122	ILE
54	BQ	135	GLN
54	BQ	138	LEU
54	BQ	150	VAL
54	BQ	168	THR
54	BQ	180	ARG
55	BR	5	ARG
55	BR	8	LYS
55	BR	10	LEU
55	BR	17	VAL
55	BR	22	VAL
55	BR	25	ASP
55	BR	29	THR
55	BR	30	SER
55	BR	41	ILE
55	BR	42	ARG
55	BR	43	LYS
55	BR	44	LEU
55	BR	49	THR
55	BR	52	LYS
55	BR	53	LYS
55	BR	55	VAL

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Mol	Chain	Res	Type
55	BR	60	LYS
55	BR	71	ARG
55	BR	72	GLU
55	BR	74	ARG
55	BR	81	ARG
55	BR	86	GLU
55	BR	91	SER
55	BR	98	ARG
55	BR	99	LEU
55	BR	100	ARG
55	BR	103	ARG
55	BR	104	ARG
55	BR	106	LEU
55	BR	108	LYS
55	BR	115	ILE
55	BR	116	ASP
55	BR	126	GLU
55	BR	128	LYS
55	BR	135	LYS
55	BR	138	LEU
55	BR	139	VAL
55	BR	144	GLN
55	BR	153	LYS
55	BR	164	LEU
55	BR	165	LYS
55	BR	175	GLN
55	BR	177	VAL
55	BR	180	LYS
56	BS	1	MET
56	BS	8	GLN
56	BS	12	ARG
56	BS	13	ARG
56	BS	17	GLU
56	BS	40	ARG
56	BS	45	LEU
56	BS	50	LYS
56	BS	51	VAL
56	BS	58	ILE
56	BS	61	ILE
56	BS	63	GLN
56	BS	71	LYS
56	BS	80	ARG

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Mol	Chain	Res	Type
56	BS	87	THR
56	BS	97	VAL
56	BS	100	VAL
56	BS	105	THR
56	BS	115	ARG
56	BS	117	ARG
56	BS	123	ILE
56	BS	125	LYS
56	BS	130	GLU
56	BS	132	THR
56	BS	136	LYS
56	BS	137	ARG
56	BS	138	GLN
56	BS	142	GLN
56	BS	149	LYS
56	BS	155	ARG
56	BS	156	VAL
56	BS	157	GLN
56	BS	160	THR
56	BS	162	THR
56	BS	166	LYS
56	BS	167	ARG
56	BS	169	SER
57	BT	9	SER
57	BT	25	VAL
57	BT	26	HIS
57	BT	27	LEU
57	BT	28	SER
57	BT	32	LYS
57	BT	55	LYS
57	BT	72	VAL
57	BT	75	ILE
57	BT	78	LYS
57	BT	79	MET
57	BT	80	VAL
57	BT	83	ARG
57	BT	88	ARG
57	BT	89	LEU
57	BT	96	ILE
57	BT	102	ARG
57	BT	103	GLN
57	BT	104	GLU

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Mol	Chain	Res	Type
57	BT	106	LEU
57	BT	110	LYS
57	BT	118	GLU
57	BT	124	VAL
57	BT	126	VAL
57	BT	128	LEU
57	BT	139	ARG
57	BT	141	VAL
57	BT	143	THR
57	BT	144	GLU
57	BT	149	GLN
57	BT	158	THR
57	BT	160	ILE
58	BU	10	LYS
58	BU	27	VAL
58	BU	29	ASP
58	BU	38	ILE
58	BU	39	ASP
58	BU	43	VAL
58	BU	49	ASN
58	BU	50	LEU
58	BU	52	ASN
58	BU	61	THR
58	BU	64	THR
58	BU	66	VAL
58	BU	88	GLN
58	BU	93	ILE
58	BU	100	THR
59	BV	13	ILE
59	BV	32	ARG
59	BV	33	ASN
59	BV	48	ARG
59	BV	63	LYS
59	BV	64	LYS
59	BV	69	LEU
59	BV	72	LYS
59	BV	73	VAL
59	BV	74	MET
59	BV	79	VAL
59	BV	83	LYS
59	BV	84	SER
59	BV	88	ARG

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Mol	Chain	Res	Type
59	BV	91	VAL
59	BV	102	ILE
59	BV	115	THR
59	BV	118	VAL
59	BV	120	LYS
59	BV	125	LEU
60	BW	4	GLU
60	BW	5	ILE
60	BW	19	THR
60	BW	25	ASP
60	BW	34	SER
60	BW	39	LEU
60	BW	54	LEU
60	BW	57	LYS
60	BW	63	ILE
61	BX	26	VAL
61	BX	27	ARG
61	BX	34	LEU
61	BX	36	LYS
61	BX	37	THR
61	BX	38	LEU
61	BX	39	LYS
61	BX	40	LEU
61	BX	45	LYS
61	BX	48	SER
61	BX	49	LYS
61	BX	63	ILE
61	BX	70	GLU
61	BX	71	THR
61	BX	73	MET
61	BX	75	LYS
61	BX	85	GLN
61	BX	86	VAL
61	BX	92	LYS
61	BX	105	VAL
61	BX	108	LEU
61	BX	109	LYS
61	BX	115	ARG
61	BX	125	ARG
61	BX	127	THR
61	BX	133	LEU
61	BX	135	ILE

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Mol	Chain	Res	Type
61	BX	139	ILE
61	BX	142	ILE
62	BY	8	VAL
62	BY	13	ARG
62	BY	17	LYS
62	BY	26	GLN
62	BY	37	LYS
62	BY	39	LEU
62	BY	40	ARG
62	BY	45	ILE
62	BY	50	ILE
62	BY	51	ARG
62	BY	56	VAL
62	BY	57	LEU
62	BY	60	ARG
62	BY	64	LYS
62	BY	70	ILE
62	BY	76	LEU
62	BY	80	VAL
62	BY	90	VAL
62	BY	94	SER
62	BY	95	VAL
62	BY	97	ILE
62	BY	105	VAL
62	BY	110	HIS
62	BY	115	ARG
62	BY	125	LYS
62	BY	126	LEU
63	BZ	3	LYS
63	BZ	14	VAL
63	BZ	17	ARG
63	BZ	24	VAL
63	BZ	34	LYS
63	BZ	43	VAL
63	BZ	46	ILE
63	BZ	53	VAL
63	BZ	54	THR
63	BZ	64	LYS
63	BZ	72	ILE
63	BZ	74	VAL
63	BZ	75	VAL
63	BZ	80	LEU

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Mol	Chain	Res	Type
63	BZ	81	LEU
63	BZ	83	THR
63	BZ	86	THR
63	BZ	87	LEU
63	BZ	90	GLU
63	BZ	92	PHE
63	BZ	99	GLU
63	BZ	102	GLU
63	BZ	103	GLN
63	BZ	106	GLN
63	BZ	107	ARG
63	BZ	109	GLU
63	BZ	120	GLU
63	BZ	121	ARG
63	BZ	127	ASN
63	BZ	134	LEU
63	BZ	135	ARG
64	Ba	4	ARG
64	Ba	6	THR
64	Ba	7	LYS
64	Ba	8	THR
64	Ba	10	LYS
64	Ba	12	ARG
64	Ba	16	SER
64	Ba	29	PRO
64	Ba	42	ARG
64	Ba	58	MET
64	Ba	60	TYR
64	Ba	76	ASP
64	Ba	78	LEU
64	Ba	84	GLU
64	Ba	91	LEU
64	Ba	92	LYS
64	Ba	96	LYS
64	Ba	115	LYS
64	Ba	120	ASN
64	Ba	123	VAL
64	Ba	130	VAL
64	Ba	133	LEU
64	Ba	139	ARG
65	Bb	14	ARG
65	Bb	22	LYS

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Mol	Chain	Res	Type
65	Bb	23	LYS
65	Bb	25	LYS
65	Bb	28	LYS
65	Bb	33	LYS
65	Bb	35	VAL
65	Bb	38	LYS
65	Bb	50	THR
65	Bb	59	LYS
66	Bc	16	LEU
66	Bc	18	ILE
66	Bc	22	LYS
66	Bc	30	THR
66	Bc	32	LYS
66	Bc	34	LEU
66	Bc	36	GLN
66	Bc	48	THR
66	Bc	51	LEU
66	Bc	52	ARG
66	Bc	54	SER
66	Bc	76	GLU
66	Bc	79	THR
66	Bc	83	LYS
66	Bc	87	VAL
66	Bc	93	LEU
66	Bc	97	ASP
66	Bc	99	ASP
66	Bc	100	ILE
66	Bc	103	THR
67	Bd	6	ASP
67	Bd	8	VAL
67	Bd	13	THR
67	Bd	16	LEU
67	Bd	26	LYS
67	Bd	28	ARG
67	Bd	31	ARG
67	Bd	46	THR
67	Bd	47	ASP
67	Bd	53	PRO
67	Bd	55	LEU
67	Bd	64	VAL
67	Bd	68	GLU
67	Bd	70	ARG

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Mol	Chain	Res	Type
67	Bd	75	ILE
67	Bd	79	ARG
67	Bd	82	GLU
67	Bd	86	LYS
67	Bd	89	LEU
67	Bd	94	GLU
67	Bd	96	VAL
67	Bd	102	LYS
67	Bd	106	THR
68	Be	4	LEU
68	Be	8	LYS
68	Be	15	LYS
68	Be	18	LYS
68	Be	19	ARG
68	Be	27	ARG
68	Be	33	ARG
68	Be	51	SER
68	Be	54	LYS
68	Be	61	LYS
68	Be	62	LYS
68	Be	73	THR
68	Be	75	LEU
68	Be	76	VAL
68	Be	82	LEU
68	Be	84	THR
68	Be	85	LEU
68	Be	87	MET
68	Be	91	THR
68	Be	106	VAL
68	Be	109	LEU
68	Be	113	LYS
68	Be	125	ARG
68	Be	126	LEU
68	Be	128	LEU
69	Bf	10	LYS
69	Bf	15	SER
69	Bf	20	LYS
69	Bf	28	SER
69	Bf	31	LYS
69	Bf	49	ILE
69	Bf	59	VAL
69	Bf	60	ARG

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Mol	Chain	Res	Type
69	Bf	70	LYS
69	Bf	80	VAL
69	Bf	81	VAL
69	Bf	92	LYS
69	Bf	98	VAL
69	Bf	106	ASN
70	Bg	3	GLN
70	Bg	5	VAL
70	Bg	8	ARG
70	Bg	20	ILE
70	Bg	21	LYS
70	Bg	23	VAL
70	Bg	24	LYS
70	Bg	29	ILE
70	Bg	33	GLN
70	Bg	38	LEU
70	Bg	44	CYS
70	Bg	51	LEU
70	Bg	52	GLN
70	Bg	56	THR
70	Bg	58	ARG
70	Bg	65	VAL
70	Bg	71	THR
70	Bg	72	VAL
70	Bg	74	ARG
70	Bg	86	LYS
70	Bg	88	ARG
70	Bg	95	ILE
70	Bg	102	LYS
70	Bg	104	VAL
71	Bh	15	GLU
71	Bh	20	GLN
71	Bh	21	LEU
71	Bh	27	GLU
71	Bh	28	LEU
71	Bh	38	ARG
71	Bh	43	LYS
71	Bh	44	ILE
71	Bh	45	LYS
71	Bh	46	THR
71	Bh	47	VAL
71	Bh	48	ARG

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Mol	Chain	Res	Type
71	Bh	49	LYS
71	Bh	50	SER
71	Bh	62	GLN
71	Bh	71	LYS
71	Bh	73	LYS
71	Bh	74	LYS
71	Bh	81	ARG
71	Bh	84	LYS
71	Bh	85	THR
71	Bh	89	ARG
71	Bh	96	GLU
71	Bh	100	VAL
71	Bh	101	THR
71	Bh	104	GLN
71	Bh	105	ARG
71	Bh	107	LYS
71	Bh	115	LYS
71	Bh	119	LYS
72	Bi	11	LEU
72	Bi	17	VAL
72	Bi	18	THR
72	Bi	21	THR
72	Bi	25	LYS
72	Bi	26	ILE
72	Bi	29	LYS
72	Bi	34	SER
72	Bi	36	ARG
72	Bi	42	SER
72	Bi	45	ARG
72	Bi	57	LEU
72	Bi	58	ILE
72	Bi	60	LEU
72	Bi	62	ARG
72	Bi	64	SER
72	Bi	68	ARG
72	Bi	70	ARG
72	Bi	72	VAL
72	Bi	76	ARG
72	Bi	81	THR
72	Bi	88	GLU
72	Bi	90	MET
72	Bi	99	ARG

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Mol	Chain	Res	Type
73	Bj	3	LYS
73	Bj	5	THR
73	Bj	17	THR
73	Bj	24	ARG
73	Bj	25	ARG
73	Bj	33	THR
73	Bj	36	SER
73	Bj	37	CYS
73	Bj	44	THR
73	Bj	59	THR
73	Bj	67	LEU
73	Bj	80	THR
73	Bj	82	SER
73	Bj	84	SER
73	Bj	85	LYS
74	Bk	5	ILE
74	Bk	6	THR
74	Bk	8	ILE
74	Bk	12	LEU
74	Bk	13	GLU
74	Bk	19	ASP
74	Bk	24	THR
74	Bk	41	THR
74	Bk	45	VAL
74	Bk	46	ARG
74	Bk	48	SER
74	Bk	50	SER
74	Bk	53	THR
74	Bk	64	LYS
74	Bk	65	LEU
74	Bk	67	GLN
74	Bk	72	THR
74	Bk	77	ARG
74	Bk	78	LEU
75	Bl	5	LYS
75	Bl	6	SER
75	Bl	21	ARG
75	Bl	23	LEU
75	Bl	27	ILE
75	Bl	29	LEU
75	Bl	33	ASN
75	Bl	34	THR

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Mol	Chain	Res	Type
75	B1	36	ARG
75	B1	40	LYS
75	B1	45	ARG
75	B1	48	LYS
75	B1	51	ILE
76	Bm	77	ILE
76	Bm	78	ILE
76	Bm	79	GLU
76	Bm	83	LYS
76	Bm	85	LEU
76	Bm	104	PRO
76	Bm	108	THR
76	Bm	112	LYS
76	Bm	113	ARG
76	Bm	114	LYS
76	Bm	127	LEU
77	Bn	2	ARG
77	Bn	6	ARG
77	Bn	9	ARG
77	Bn	10	THR
77	Bn	13	LEU
77	Bn	16	LYS
77	Bn	19	LYS
77	Bn	20	VAL
78	Bo	2	VAL
78	Bo	3	ASN
78	Bo	8	ARG
78	Bo	17	CYS
78	Bo	26	THR
78	Bo	27	GLN
78	Bo	29	LYS
78	Bo	34	SER
78	Bo	35	LEU
78	Bo	47	GLN
78	Bo	48	SER
78	Bo	60	LYS
78	Bo	61	LYS
78	Bo	66	LYS
78	Bo	72	LEU
78	Bo	79	THR
78	Bo	80	ARG
78	Bo	83	LEU

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Mol	Chain	Res	Type
78	Bo	84	THR
78	Bo	85	LEU
78	Bo	89	LYS
78	Bo	93	LEU
78	Bo	99	GLN
78	Bo	100	LYS
78	Bo	104	LEU
78	Bo	105	GLN
79	Bp	5	THR
79	Bp	6	LYS
79	Bp	11	THR
79	Bp	16	VAL
79	Bp	25	GLN
79	Bp	32	GLN
79	Bp	45	LYS
79	Bp	48	LYS
79	Bp	49	ARG
79	Bp	56	THR
79	Bp	59	CYS
79	Bp	60	CYS
79	Bp	73	THR
79	Bp	78	THR
79	Bp	84	ARG
79	Bp	89	MET
79	Bp	90	VAL
79	Bp	91	GLU
2	CA	6	THR
2	CA	9	LEU
2	CA	12	GLU
2	CA	24	LEU
2	CA	29	VAL
2	CA	30	GLN
2	CA	31	VAL
2	CA	41	ARG
2	CA	45	VAL
2	CA	49	ASN
2	CA	50	VAL
2	CA	57	LEU
2	CA	59	LEU
2	CA	62	ARG
2	CA	76	ILE
2	CA	87	LEU

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Mol	Chain	Res	Type
2	CA	88	LYS
2	CA	93	THR
2	CA	96	THR
2	CA	103	THR
2	CA	110	TYR
2	CA	111	ILE
2	CA	123	VAL
2	CA	124	THR
2	CA	131	GLN
2	CA	139	VAL
2	CA	146	LEU
2	CA	151	SER
2	CA	154	GLU
2	CA	157	ASP
2	CA	167	LYS
2	CA	172	LEU
2	CA	180	GLU
2	CA	183	ARG
2	CA	185	ARG
2	CA	188	LEU
2	CA	189	VAL
2	CA	196	SER
2	CA	198	MET
3	CB	21	VAL
3	CB	22	ASP
3	CB	28	GLU
3	CB	33	LYS
3	CB	36	SER
3	CB	37	THR
3	CB	40	ASN
3	CB	47	LEU
3	CB	51	SER
3	CB	55	LYS
3	CB	61	LEU
3	CB	62	LYS
3	CB	65	VAL
3	CB	66	VAL
3	CB	68	VAL
3	CB	70	LEU
3	CB	73	LEU
3	CB	81	PHE
3	CB	82	ARG

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Mol	Chain	Res	Type
3	CB	83	LYS
3	CB	85	LYS
3	CB	105	PHE
3	CB	106	THR
3	CB	108	ASP
3	CB	110	LEU
3	CB	116	LYS
3	CB	125	VAL
3	CB	126	THR
3	CB	127	VAL
3	CB	129	THR
3	CB	130	SER
3	CB	137	ILE
3	CB	151	LYS
3	CB	159	SER
3	CB	166	LYS
3	CB	170	GLU
3	CB	173	THR
3	CB	177	GLN
3	CB	180	THR
3	CB	181	LEU
3	CB	184	LEU
3	CB	203	ASP
3	CB	204	ILE
3	CB	210	ILE
3	CB	212	VAL
3	CB	213	ARG
3	CB	214	LYS
3	CB	215	VAL
3	CB	217	LEU
3	CB	219	LYS
3	CB	231	LEU
4	CC	41	LEU
4	CC	50	ILE
4	CC	53	ILE
4	CC	54	GLU
4	CC	55	GLU
4	CC	58	LEU
4	CC	69	ILE
4	CC	71	THR
4	CC	72	LEU
4	CC	73	LEU

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Mol	Chain	Res	Type
4	CC	76	LEU
4	CC	77	GLN
4	CC	80	VAL
4	CC	81	MET
4	CC	83	ILE
4	CC	87	GLN
4	CC	89	GLN
4	CC	90	THR
4	CC	91	ARG
4	CC	95	ARG
4	CC	97	ARG
4	CC	106	ASP
4	CC	111	VAL
4	CC	130	ILE
4	CC	139	ILE
4	CC	140	ARG
4	CC	141	ARG
4	CC	146	THR
4	CC	148	LEU
4	CC	150	GLN
4	CC	159	THR
4	CC	164	SER
4	CC	170	ILE
4	CC	185	LYS
4	CC	186	LYS
4	CC	194	GLU
4	CC	206	THR
4	CC	207	LEU
4	CC	218	ILE
4	CC	225	LEU
4	CC	229	LEU
4	CC	233	GLN
4	CC	237	VAL
4	CC	240	LEU
4	CC	248	SER
5	CD	4	LEU
5	CD	5	ILE
5	CD	7	LYS
5	CD	9	ARG
5	CD	10	LYS
5	CD	11	LEU
5	CD	21	LEU

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Mol	Chain	Res	Type
5	CD	37	VAL
5	CD	39	VAL
5	CD	40	ARG
5	CD	41	VAL
5	CD	45	LYS
5	CD	53	THR
5	CD	55	THR
5	CD	59	LEU
5	CD	66	ILE
5	CD	67	ASN
5	CD	69	LEU
5	CD	76	ARG
5	CD	84	ILE
5	CD	89	GLU
5	CD	94	ARG
5	CD	109	LEU
5	CD	115	ILE
5	CD	116	ARG
5	CD	117	ARG
5	CD	127	MET
5	CD	142	LEU
5	CD	146	ARG
5	CD	150	MET
5	CD	158	ILE
5	CD	162	GLN
5	CD	168	ILE
5	CD	170	THR
5	CD	172	THR
5	CD	178	ARG
5	CD	202	LEU
5	CD	204	ASP
5	CD	208	ILE
5	CD	212	LYS
5	CD	213	GLU
5	CD	222	VAL
5	CD	223	LYS
6	CE	6	LYS
6	CE	7	LYS
6	CE	9	LEU
6	CE	12	LEU
6	CE	23	LEU
6	CE	37	LYS

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Mol	Chain	Res	Type
6	CE	38	LEU
6	CE	39	ARG
6	CE	42	LEU
6	CE	45	ILE
6	CE	48	LEU
6	CE	49	ARG
6	CE	50	ASN
6	CE	51	ARG
6	CE	67	GLN
6	CE	68	ARG
6	CE	70	VAL
6	CE	71	LYS
6	CE	77	ARG
6	CE	95	THR
6	CE	97	GLU
6	CE	102	VAL
6	CE	105	VAL
6	CE	106	LYS
6	CE	111	VAL
6	CE	113	ARG
6	CE	115	THR
6	CE	116	ASP
6	CE	123	LEU
6	CE	126	VAL
6	CE	127	LYS
6	CE	128	LYS
6	CE	131	LEU
6	CE	147	ILE
6	CE	148	ARG
6	CE	160	VAL
6	CE	176	ASP
6	CE	180	LEU
6	CE	181	VAL
6	CE	184	THR
6	CE	187	ARG
6	CE	191	ARG
6	CE	195	ILE
6	CE	214	LEU
6	CE	219	VAL
6	CE	221	ARG
6	CE	222	LEU
6	CE	223	ASN

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Mol	Chain	Res	Type
6	CE	227	VAL
6	CE	236	ILE
6	CE	237	SER
6	CE	240	LYS
6	CE	244	ILE
6	CE	245	LYS
6	CE	246	LEU
6	CE	261	LEU
7	CF	23	VAL
7	CF	24	VAL
7	CF	25	LEU
7	CF	27	THR
7	CF	32	GLU
7	CF	33	VAL
7	CF	38	THR
7	CF	39	GLU
7	CF	41	LYS
7	CF	50	GLU
7	CF	59	VAL
7	CF	64	VAL
7	CF	65	ARG
7	CF	68	ILE
7	CF	70	VAL
7	CF	76	ARG
7	CF	83	ARG
7	CF	84	LYS
7	CF	89	ILE
7	CF	92	ARG
7	CF	93	LEU
7	CF	94	THR
7	CF	107	LYS
7	CF	109	LYS
7	CF	112	ARG
7	CF	114	ILE
7	CF	125	THR
7	CF	128	ASN
7	CF	147	THR
7	CF	148	ARG
7	CF	156	ARG
7	CF	157	ARG
7	CF	162	VAL
7	CF	167	ARG

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Mol	Chain	Res	Type
7	CF	170	GLN
7	CF	187	ILE
7	CF	190	ILE
7	CF	194	LEU
7	CF	203	LYS
7	CF	208	SER
7	CF	212	LYS
7	CF	213	LYS
7	CF	216	GLU
7	CF	219	ARG
7	CF	225	ARG
8	CG	6	SER
8	CG	9	VAL
8	CG	12	SER
8	CG	17	GLU
8	CG	20	ASP
8	CG	21	GLU
8	CG	25	ARG
8	CG	30	LYS
8	CG	31	ARG
8	CG	44	GLU
8	CG	46	LYS
8	CG	51	LYS
8	CG	71	THR
8	CG	73	ILE
8	CG	74	LYS
8	CG	76	LEU
8	CG	78	THR
8	CG	79	LYS
8	CG	81	VAL
8	CG	89	ASP
8	CG	93	LYS
8	CG	97	VAL
8	CG	108	VAL
8	CG	109	LEU
8	CG	111	LEU
8	CG	115	LYS
8	CG	120	GLU
8	CG	121	LEU
8	CG	122	GLU
8	CG	126	ASP
8	CG	127	THR

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Mol	Chain	Res	Type
8	CG	128	THR
8	CG	129	VAL
8	CG	132	ARG
8	CG	137	ARG
8	CG	143	LYS
8	CG	150	GLU
8	CG	151	ASP
8	CG	153	VAL
8	CG	154	ARG
8	CG	155	ASP
8	CG	158	ILE
8	CG	168	THR
8	CG	169	TYR
8	CG	170	THR
8	CG	176	GLN
8	CG	177	ARG
8	CG	179	VAL
8	CG	193	LEU
8	CG	212	LEU
8	CG	215	ARG
9	CH	8	ILE
9	CH	9	LEU
9	CH	11	GLN
9	CH	14	THR
9	CH	28	GLU
9	CH	33	GLU
9	CH	41	LEU
9	CH	49	ILE
9	CH	51	VAL
9	CH	60	ILE
9	CH	67	LEU
9	CH	75	THR
9	CH	77	LEU
9	CH	78	THR
9	CH	79	ARG
9	CH	81	LEU
9	CH	86	GLN
9	CH	87	ASP
9	CH	97	ARG
9	CH	105	THR
9	CH	106	SER
9	CH	108	GLN

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Mol	Chain	Res	Type
9	CH	110	GLN
9	CH	114	ARG
9	CH	117	THR
9	CH	118	LEU
9	CH	124	LYS
9	CH	125	ILE
9	CH	126	LEU
9	CH	130	VAL
9	CH	134	GLU
9	CH	135	ILE
9	CH	136	VAL
9	CH	143	LEU
9	CH	144	VAL
9	CH	181	ILE
9	CH	182	VAL
9	CH	185	ILE
9	CH	187	SER
10	CI	5	ARG
10	CI	18	ARG
10	CI	25	ARG
10	CI	29	LEU
10	CI	36	THR
10	CI	46	VAL
10	CI	58	LEU
10	CI	59	ARG
10	CI	60	ILE
10	CI	61	GLU
10	CI	62	THR
10	CI	64	ASN
10	CI	66	SER
10	CI	74	LYS
10	CI	76	THR
10	CI	77	ARG
10	CI	78	ILE
10	CI	82	VAL
10	CI	111	GLN
10	CI	120	THR
10	CI	121	LEU
10	CI	138	ASN
10	CI	140	GLU
10	CI	141	ARG
10	CI	151	LYS

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Mol	Chain	Res	Type
10	CI	152	ILE
10	CI	153	GLU
10	CI	155	SER
10	CI	158	SER
10	CI	183	ILE
10	CI	184	LEU
10	CI	199	LYS
11	CJ	3	ARG
11	CJ	7	THR
11	CJ	22	SER
11	CJ	28	LEU
11	CJ	33	GLU
11	CJ	39	LYS
11	CJ	45	ILE
11	CJ	48	GLN
11	CJ	49	LEU
11	CJ	78	ARG
11	CJ	81	VAL
11	CJ	82	ARG
11	CJ	90	LYS
11	CJ	93	LEU
11	CJ	101	VAL
11	CJ	105	LEU
11	CJ	109	LEU
11	CJ	110	GLN
11	CJ	111	THR
11	CJ	113	VAL
11	CJ	115	LYS
11	CJ	130	THR
11	CJ	133	HIS
11	CJ	134	ILE
11	CJ	140	ILE
11	CJ	142	ASN
11	CJ	145	SER
11	CJ	149	ARG
11	CJ	150	LEU
11	CJ	151	ASP
11	CJ	161	THR
11	CJ	171	ARG
11	CJ	172	VAL
11	CJ	186	GLU
12	CK	3	MET

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Mol	Chain	Res	Type
12	CK	5	LYS
12	CK	13	GLN
12	CK	15	LEU
12	CK	20	VAL
12	CK	21	VAL
12	CK	26	ASP
12	CK	27	PHE
12	CK	33	GLU
12	CK	36	ASP
12	CK	40	LEU
12	CK	55	VAL
12	CK	57	THR
12	CK	71	GLU
12	CK	74	GLU
12	CK	76	LEU
12	CK	77	ARG
13	CL	3	THR
13	CL	5	LEU
13	CL	10	GLU
13	CL	21	ASN
13	CL	26	LYS
13	CL	27	THR
13	CL	30	ARG
13	CL	31	THR
13	CL	32	LYS
13	CL	33	ARG
13	CL	40	LEU
13	CL	44	THR
13	CL	46	LYS
13	CL	47	THR
13	CL	56	LYS
13	CL	60	PHE
13	CL	72	THR
13	CL	74	THR
13	CL	80	MET
13	CL	83	THR
13	CL	86	ILE
13	CL	96	LYS
13	CL	98	ASN
13	CL	99	ARG
13	CL	109	VAL
13	CL	123	VAL

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Mol	Chain	Res	Type
13	CL	128	CYS
13	CL	129	ARG
13	CL	131	ILE
13	CL	140	VAL
14	CM	25	GLU
14	CM	28	LEU
14	CM	31	VAL
14	CM	36	LEU
14	CM	39	ASP
14	CM	43	ARG
14	CM	45	LEU
14	CM	52	LEU
14	CM	58	LEU
14	CM	59	LEU
14	CM	61	VAL
14	CM	62	LEU
14	CM	63	VAL
14	CM	65	SER
14	CM	66	VAL
14	CM	71	ILE
14	CM	74	LEU
14	CM	75	VAL
14	CM	83	GLU
14	CM	85	LYS
14	CM	88	LEU
14	CM	89	ILE
14	CM	91	VAL
14	CM	97	LEU
14	CM	103	LEU
14	CM	116	VAL
14	CM	121	VAL
14	CM	129	GLU
14	CM	132	GLU
14	CM	134	SER
14	CM	135	MET
14	CM	136	ILE
14	CM	138	GLU
14	CM	139	HIS
14	CM	140	PHE
15	CN	4	MET
15	CN	13	SER
15	CN	14	SER

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Mol	Chain	Res	Type
15	CN	16	ILE
15	CN	20	ARG
15	CN	21	ASN
15	CN	27	LYS
15	CN	28	LEU
15	CN	33	VAL
15	CN	35	GLU
15	CN	39	LYS
15	CN	58	HIS
15	CN	65	VAL
15	CN	66	ILE
15	CN	70	LYS
15	CN	76	LYS
15	CN	80	LEU
15	CN	84	ILE
15	CN	86	GLU
15	CN	87	ASP
15	CN	88	LEU
15	CN	104	ARG
15	CN	114	ARG
15	CN	115	LEU
15	CN	125	LEU
15	CN	127	ARG
15	CN	134	VAL
15	CN	138	ASN
15	CN	149	LEU
15	CN	150	VAL
16	CO	16	VAL
16	CO	18	ARG
16	CO	26	THR
16	CO	28	VAL
16	CO	31	THR
16	CO	33	LEU
16	CO	51	ASP
16	CO	61	MET
16	CO	62	LEU
16	CO	65	GLN
16	CO	71	CYS
16	CO	79	VAL
16	CO	81	VAL
16	CO	82	LYS
16	CO	83	ILE

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Mol	Chain	Res	Type
16	CO	84	ARG
16	CO	92	LYS
16	CO	102	LEU
16	CO	103	ARG
16	CO	107	ARG
16	CO	114	ARG
16	CO	119	THR
16	CO	121	VAL
16	CO	124	ASP
16	CO	125	SER
16	CO	127	ARG
16	CO	137	LEU
17	CP	12	PHE
17	CP	14	THR
17	CP	21	ASP
17	CP	22	LEU
17	CP	24	LYS
17	CP	36	LEU
17	CP	42	ARG
17	CP	68	PRO
17	CP	69	GLU
17	CP	71	GLU
17	CP	72	LYS
17	CP	77	ARG
17	CP	92	SER
17	CP	107	ILE
17	CP	110	GLU
17	CP	121	ILE
17	CP	122	THR
17	CP	124	THR
17	CP	125	PRO
18	CQ	7	VAL
18	CQ	17	THR
18	CQ	28	LEU
18	CQ	34	SER
18	CQ	37	THR
18	CQ	40	GLU
18	CQ	43	ILE
18	CQ	47	LYS
18	CQ	48	VAL
18	CQ	53	LEU
18	CQ	54	LEU

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Mol	Chain	Res	Type
18	CQ	57	LEU
18	CQ	63	ILE
18	CQ	68	ARG
18	CQ	69	VAL
18	CQ	81	ILE
18	CQ	90	VAL
18	CQ	94	GLN
18	CQ	98	ASP
18	CQ	106	LYS
18	CQ	110	THR
18	CQ	113	ASP
18	CQ	114	ARG
18	CQ	117	LEU
18	CQ	123	ARG
18	CQ	128	LYS
18	CQ	137	ARG
18	CQ	141	SER
19	CR	5	ARG
19	CR	6	THR
19	CR	8	THR
19	CR	9	VAL
19	CR	19	ARG
19	CR	29	GLN
19	CR	31	ASN
19	CR	34	LEU
19	CR	38	ILE
19	CR	44	LYS
19	CR	45	ARG
19	CR	46	LEU
19	CR	47	ARG
19	CR	49	LYS
19	CR	54	THR
19	CR	61	ILE
19	CR	66	VAL
19	CR	69	ILE
19	CR	78	ARG
19	CR	79	GLU
19	CR	83	GLN
19	CR	85	VAL
19	CR	88	VAL
19	CR	89	SER
19	CR	113	LEU

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Mol	Chain	Res	Type
20	CS	2	SER
20	CS	3	LEU
20	CS	4	VAL
20	CS	5	VAL
20	CS	6	GLN
20	CS	10	SER
20	CS	13	HIS
20	CS	14	ILE
20	CS	15	LEU
20	CS	17	LEU
20	CS	18	LEU
20	CS	26	ILE
20	CS	28	ILE
20	CS	34	THR
20	CS	36	LYS
20	CS	38	VAL
20	CS	40	ARG
20	CS	55	HIS
20	CS	61	LEU
20	CS	63	GLN
20	CS	68	ARG
20	CS	81	ILE
20	CS	89	GLN
20	CS	92	ILE
20	CS	94	ASP
20	CS	100	THR
20	CS	105	VAL
20	CS	113	LEU
20	CS	116	LEU
20	CS	119	ILE
20	CS	133	VAL
20	CS	136	GLN
20	CS	138	THR
20	CS	140	THR
20	CS	143	ARG
20	CS	144	ARG
21	CT	6	VAL
21	CT	13	ASP
21	CT	22	LEU
21	CT	23	GLN
21	CT	27	LYS
21	CT	28	LEU

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Mol	Chain	Res	Type
21	CT	30	VAL
21	CT	34	VAL
21	CT	36	ILE
21	CT	37	VAL
21	CT	38	LYS
21	CT	39	THR
21	CT	57	ARG
21	CT	68	ARG
21	CT	71	VAL
21	CT	84	LYS
21	CT	88	VAL
21	CT	89	ARG
21	CT	111	ILE
21	CT	116	ILE
21	CT	123	ARG
21	CT	126	GLU
21	CT	131	ASP
21	CT	132	LEU
21	CT	135	ILE
21	CT	139	THR
21	CT	140	LEU
21	CT	142	GLU
21	CT	144	GLU
22	CU	12	GLN
22	CU	13	GLU
22	CU	15	GLN
22	CU	20	ILE
22	CU	22	ILE
22	CU	23	ARG
22	CU	24	ILE
22	CU	26	LEU
22	CU	27	THR
22	CU	30	LYS
22	CU	31	VAL
22	CU	39	SER
22	CU	44	ASN
22	CU	47	GLN
22	CU	51	VAL
22	CU	52	LYS
22	CU	57	ARG
22	CU	60	THR
22	CU	63	LEU

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Mol	Chain	Res	Type
22	CU	70	THR
22	CU	72	ASN
22	CU	74	GLU
22	CU	77	LYS
22	CU	81	THR
22	CU	83	GLU
22	CU	88	LYS
22	CU	89	ARG
22	CU	96	PRO
22	CU	99	ILE
22	CU	102	ARG
22	CU	103	ILE
22	CU	104	THR
22	CU	105	GLN
22	CU	108	ILE
22	CU	113	ASP
22	CU	115	GLU
22	CU	116	VAL
22	CU	118	VAL
23	CV	1	MET
23	CV	2	GLU
23	CV	5	LYS
23	CV	10	GLU
23	CV	11	LEU
23	CV	25	LYS
23	CV	32	VAL
23	CV	38	LYS
23	CV	41	GLU
23	CV	52	THR
23	CV	62	ARG
23	CV	68	SER
23	CV	69	LEU
23	CV	75	ASN
23	CV	78	LEU
23	CV	81	ASN
23	CV	86	SER
24	CW	6	VAL
24	CW	7	LEU
24	CW	22	LYS
24	CW	23	ARG
24	CW	25	VAL
24	CW	26	LEU

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Mol	Chain	Res	Type
24	CW	43	LYS
24	CW	65	LEU
24	CW	68	ARG
24	CW	74	VAL
24	CW	88	LYS
24	CW	93	LEU
24	CW	98	GLN
24	CW	103	ILE
24	CW	117	ARG
24	CW	129	VAL
25	CX	9	LEU
25	CX	14	LYS
25	CX	17	VAL
25	CX	19	ARG
25	CX	20	ARG
25	CX	23	ARG
25	CX	31	LYS
25	CX	36	THR
25	CX	40	SER
25	CX	55	GLU
25	CX	56	LYS
25	CX	69	ARG
25	CX	70	LYS
25	CX	73	ARG
25	CX	83	VAL
25	CX	84	THR
25	CX	96	VAL
25	CX	100	ASP
25	CX	103	LEU
25	CX	107	PHE
25	CX	112	LYS
25	CX	133	LEU
25	CX	140	LYS
26	CY	5	VAL
26	CY	6	THR
26	CY	10	ARG
26	CY	13	ILE
26	CY	14	SER
26	CY	21	LYS
26	CY	26	ASP
26	CY	29	HIS
26	CY	34	ASN

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Mol	Chain	Res	Type
26	CY	36	SER
26	CY	37	LYS
26	CY	42	GLU
26	CY	43	LYS
26	CY	44	LEU
26	CY	47	VAL
26	CY	49	LYS
26	CY	51	GLU
26	CY	55	VAL
26	CY	62	THR
26	CY	77	ASN
26	CY	78	SER
26	CY	81	GLU
26	CY	83	LYS
26	CY	88	THR
26	CY	92	VAL
26	CY	100	VAL
26	CY	105	ARG
26	CY	108	ARG
26	CY	128	LYS
26	CY	135	ASP
27	CZ	37	GLN
27	CZ	41	ILE
27	CZ	43	ASP
27	CZ	45	GLU
27	CZ	46	LYS
27	CZ	51	LEU
27	CZ	53	GLU
27	CZ	57	TYR
27	CZ	60	VAL
27	CZ	70	LYS
27	CZ	71	ILE
27	CZ	81	ARG
27	CZ	86	GLU
27	CZ	93	SER
27	CZ	97	LYS
27	CZ	102	THR
27	CZ	105	THR
28	Ca	4	LYS
28	Ca	12	LYS
28	Ca	26	CYS
28	Ca	34	LYS

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Mol	Chain	Res	Type
28	Ca	38	ARG
28	Ca	41	ILE
28	Ca	44	ILE
28	Ca	50	VAL
28	Ca	53	LEU
28	Ca	55	GLU
28	Ca	67	THR
28	Ca	76	SER
28	Ca	85	ARG
28	Ca	89	ARG
28	Ca	90	GLU
29	Cb	4	VAL
29	Cb	17	ARG
29	Cb	22	LYS
29	Cb	41	LEU
29	Cb	43	ILE
29	Cb	44	THR
29	Cb	52	THR
29	Cb	55	THR
29	Cb	61	THR
29	Cb	72	LYS
29	Cb	77	THR
29	Cb	78	SER
29	Cb	81	ARG
30	Cc	5	THR
30	Cc	7	VAL
30	Cc	11	LYS
30	Cc	14	LYS
30	Cc	16	LEU
30	Cc	19	THR
30	Cc	22	ARG
30	Cc	28	VAL
30	Cc	30	VAL
30	Cc	32	PHE
30	Cc	33	LEU
30	Cc	35	ASP
30	Cc	36	THR
30	Cc	38	ARG
30	Cc	40	ILE
30	Cc	44	VAL
30	Cc	49	ARG
30	Cc	54	LEU

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Mol	Chain	Res	Type
30	Cc	62	GLU
30	Cc	64	ARG
30	Cc	65	ARG
31	Cd	4	GLU
31	Cd	10	HIS
31	Cd	16	LYS
31	Cd	25	SER
31	Cd	30	LEU
31	Cd	31	ILE
31	Cd	36	LEU
31	Cd	38	ILE
31	Cd	40	ARG
31	Cd	53	ASN
31	Cd	54	LYS
31	Cd	56	ARG
32	Ce	4	VAL
32	Ce	13	LYS
32	Ce	21	VAL
32	Ce	23	LYS
32	Ce	26	LYS
32	Ce	28	LYS
32	Ce	29	LYS
32	Ce	31	LYS
32	Ce	36	LYS
32	Ce	39	LEU
32	Ce	41	THR
32	Ce	45	VAL
32	Ce	47	VAL
32	Ce	50	VAL
32	Ce	53	LYS
32	Ce	56	MET
33	Cf	102	VAL
33	Cf	103	LEU
33	Cf	106	TYR
33	Cf	107	LYS
33	Cf	108	VAL
33	Cf	113	LYS
33	Cf	115	THR
33	Cf	116	LYS
33	Cf	120	GLU
33	Cf	135	HIS
33	Cf	140	TYR

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Mol	Chain	Res	Type
33	Cf	141	CYS
33	Cf	146	SER
33	Cf	151	ASN
34	Cg	22	SER
34	Cg	25	THR
34	Cg	29	GLN
34	Cg	40	LYS
34	Cg	58	VAL
34	Cg	65	SER
34	Cg	76	ASP
34	Cg	96	THR
34	Cg	106	HIS
34	Cg	121	MET
34	Cg	123	ILE
34	Cg	136	ILE
34	Cg	145	LEU
34	Cg	153	GLN
34	Cg	154	VAL
34	Cg	168	THR
34	Cg	176	LYS
34	Cg	184	ASN
34	Cg	188	ILE
34	Cg	193	ILE
34	Cg	199	ILE
34	Cg	202	LEU
34	Cg	222	LEU
34	Cg	228	LYS
34	Cg	232	TYR
34	Cg	250	TYR
34	Cg	256	THR
34	Cg	266	ASP
34	Cg	274	LEU
34	Cg	277	GLU
34	Cg	278	PHE
34	Cg	286	GLU
34	Cg	297	ASP
34	Cg	308	ASN
34	Cg	309	VAL
34	Cg	310	ILE
34	Cg	312	VAL
34	Cg	319	ASN
81	Ch	23	LYS

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Mol	Chain	Res	Type
81	Ch	28	SER
81	Ch	34	LYS
81	Ch	43	ASP
81	Ch	45	SER
81	Ch	46	LYS
81	Ch	48	ARG
81	Ch	49	LYS
81	Ch	50	ASN
81	Ch	61	ILE
81	Ch	64	LYS
81	Ch	68	ARG
81	Ch	74	LYS
81	Ch	75	ASP
81	Ch	77	THR
81	Ch	82	THR
39	DA	15	ILE
39	DA	23	ARG
39	DA	32	LEU
39	DA	41	ILE
39	DA	44	ILE
39	DA	45	VAL
39	DA	46	LYS
39	DA	48	ILE
39	DA	61	VAL
39	DA	62	VAL
39	DA	71	LEU
39	DA	82	VAL
39	DA	96	LEU
39	DA	101	VAL
39	DA	104	LEU
39	DA	109	GLU
39	DA	112	ILE
39	DA	113	VAL
39	DA	119	LYS
39	DA	134	VAL
39	DA	137	ILE
39	DA	142	ASP
39	DA	155	LYS
39	DA	157	VAL
39	DA	158	ILE
39	DA	165	VAL
39	DA	169	ILE

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Mol	Chain	Res	Type
39	DA	179	LEU
39	DA	180	LEU
39	DA	181	LYS
39	DA	188	LYS
39	DA	193	ARG
39	DA	202	VAL
39	DA	207	VAL
39	DA	224	THR
39	DA	225	ILE
39	DA	226	SER
39	DA	227	ARG
39	DA	230	VAL
39	DA	238	ILE
39	DA	241	ARG
39	DA	243	THR
39	DA	246	LEU
40	DB	3	HIS
40	DB	4	ARG
40	DB	10	ARG
40	DB	17	LEU
40	DB	19	ARG
40	DB	21	ARG
40	DB	24	SER
40	DB	30	LYS
40	DB	37	ARG
40	DB	43	LEU
40	DB	47	LEU
40	DB	50	LYS
40	DB	56	ILE
40	DB	70	ARG
40	DB	73	VAL
40	DB	77	THR
40	DB	79	VAL
40	DB	81	THR
40	DB	84	VAL
40	DB	85	VAL
40	DB	89	VAL
40	DB	100	ARG
40	DB	103	THR
40	DB	114	VAL
40	DB	116	ARG
40	DB	139	GLN

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Mol	Chain	Res	Type
40	DB	145	GLU
40	DB	146	ARG
40	DB	148	LEU
40	DB	150	ARG
40	DB	153	LYS
40	DB	157	VAL
40	DB	169	THR
40	DB	175	LYS
40	DB	183	LEU
40	DB	187	SER
40	DB	188	ILE
40	DB	192	VAL
40	DB	196	ARG
40	DB	202	THR
40	DB	205	VAL
40	DB	213	GLU
40	DB	218	ILE
40	DB	221	THR
40	DB	229	VAL
40	DB	232	ARG
40	DB	235	THR
40	DB	238	LEU
40	DB	242	THR
40	DB	248	LYS
40	DB	249	VAL
40	DB	252	ILE
40	DB	264	VAL
40	DB	275	ARG
40	DB	282	ILE
40	DB	284	ARG
40	DB	287	LYS
40	DB	291	GLU
40	DB	297	SER
40	DB	301	THR
40	DB	304	THR
40	DB	308	MET
40	DB	317	ILE
40	DB	322	ILE
40	DB	324	VAL
40	DB	328	ILE
40	DB	338	LEU
40	DB	340	LYS

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Mol	Chain	Res	Type
40	DB	346	THR
40	DB	347	SER
40	DB	349	LYS
40	DB	354	VAL
40	DB	355	SER
40	DB	361	THR
40	DB	367	LYS
40	DB	369	ARG
40	DB	380	MET
40	DB	382	THR
40	DB	386	ASP
41	DC	2	SER
41	DC	3	ARG
41	DC	7	THR
41	DC	16	THR
41	DC	18	ASN
41	DC	25	VAL
41	DC	27	SER
41	DC	40	THR
41	DC	47	ARG
41	DC	52	VAL
41	DC	53	SER
41	DC	55	LYS
41	DC	69	ARG
41	DC	71	VAL
41	DC	85	SER
41	DC	93	MET
41	DC	98	ARG
41	DC	112	LYS
41	DC	122	THR
41	DC	136	LEU
41	DC	138	ARG
41	DC	144	LYS
41	DC	145	ILE
41	DC	150	LEU
41	DC	152	VAL
41	DC	153	SER
41	DC	156	LEU
41	DC	158	SER
41	DC	161	LYS
41	DC	170	LYS
41	DC	172	VAL

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Mol	Chain	Res	Type
41	DC	176	SER
41	DC	177	ASP
41	DC	179	LEU
41	DC	182	LEU
41	DC	186	LYS
41	DC	187	LEU
41	DC	191	LYS
41	DC	198	ARG
41	DC	200	THR
41	DC	203	ARG
41	DC	206	LEU
41	DC	215	ILE
41	DC	217	LYS
41	DC	220	ARG
41	DC	222	VAL
41	DC	230	VAL
41	DC	246	ARG
41	DC	258	LEU
41	DC	259	ASP
41	DC	265	GLU
41	DC	267	VAL
41	DC	283	THR
41	DC	286	VAL
41	DC	287	THR
41	DC	289	ILE
41	DC	290	ILE
41	DC	300	ARG
41	DC	307	GLN
41	DC	313	LEU
41	DC	319	LYS
41	DC	323	VAL
41	DC	327	LEU
41	DC	333	VAL
41	DC	339	LEU
41	DC	342	LYS
41	DC	345	GLU
41	DC	349	THR
41	DC	354	VAL
41	DC	356	THR
41	DC	357	GLU
41	DC	358	THR
41	DC	359	LEU

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Mol	Chain	Res	Type
41	DC	360	LYS
41	DC	362	ASP
42	DD	4	GLN
42	DD	5	LYS
42	DD	13	SER
42	DD	34	LYS
42	DD	35	ARG
42	DD	41	LYS
42	DD	51	LEU
42	DD	64	ILE
42	DD	65	ILE
42	DD	68	THR
42	DD	69	ILE
42	DD	70	THR
42	DD	73	VAL
42	DD	74	VAL
42	DD	88	ILE
42	DD	89	THR
42	DD	93	THR
42	DD	110	LEU
42	DD	112	LYS
42	DD	113	LEU
42	DD	115	LEU
42	DD	118	THR
42	DD	124	GLU
42	DD	128	GLU
42	DD	131	LEU
42	DD	132	THR
42	DD	133	GLU
42	DD	136	GLU
42	DD	144	VAL
42	DD	146	LEU
42	DD	148	ILE
42	DD	152	ARG
42	DD	155	THR
42	DD	158	ARG
42	DD	163	LEU
42	DD	164	LYS
42	DD	177	GLU
42	DD	185	PHE
42	DD	186	GLU
42	DD	189	GLU

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Mol	Chain	Res	Type
42	DD	190	ILE
42	DD	194	LEU
42	DD	205	SER
42	DD	211	LEU
42	DD	218	ARG
42	DD	227	LEU
42	DD	232	ASP
42	DD	236	LEU
42	DD	241	THR
42	DD	254	LYS
42	DD	258	LYS
42	DD	259	LYS
42	DD	262	LYS
42	DD	268	GLU
42	DD	273	ARG
42	DD	275	THR
42	DD	279	LYS
42	DD	282	ARG
43	DE	8	LYS
43	DE	20	LYS
43	DE	21	THR
43	DE	46	ARG
43	DE	50	LYS
43	DE	52	VAL
43	DE	64	LEU
43	DE	65	ILE
43	DE	76	LEU
43	DE	78	ARG
43	DE	79	VAL
43	DE	89	THR
43	DE	91	VAL
43	DE	93	VAL
43	DE	98	VAL
43	DE	99	GLU
43	DE	109	GLU
43	DE	143	LYS
43	DE	151	LYS
43	DE	152	THR
43	DE	155	LEU
43	DE	162	SER
44	DF	22	THR
44	DF	26	VAL

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Mol	Chain	Res	Type
44	DF	39	GLU
44	DF	41	ARG
44	DF	45	LEU
44	DF	53	LYS
44	DF	54	GLU
44	DF	56	GLU
44	DF	60	ARG
44	DF	77	VAL
44	DF	83	LEU
44	DF	88	ARG
44	DF	98	LYS
44	DF	101	LYS
44	DF	121	LYS
44	DF	124	LEU
44	DF	130	ILE
44	DF	156	ILE
44	DF	158	LYS
44	DF	159	GLN
44	DF	173	LEU
44	DF	175	LYS
44	DF	179	LEU
44	DF	184	LEU
44	DF	196	LYS
44	DF	206	LYS
44	DF	219	LYS
44	DF	229	PHE
44	DF	239	LEU
45	DG	26	LEU
45	DG	41	GLN
45	DG	50	VAL
45	DG	67	ILE
45	DG	68	ARG
45	DG	70	LYS
45	DG	71	VAL
45	DG	74	THR
45	DG	79	GLN
45	DG	81	THR
45	DG	89	GLU
45	DG	92	LYS
45	DG	95	ASN
45	DG	110	THR
45	DG	126	SER

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Mol	Chain	Res	Type
45	DG	128	LYS
45	DG	136	LEU
45	DG	145	ASN
45	DG	146	LYS
45	DG	149	LYS
45	DG	150	LEU
45	DG	153	ILE
45	DG	160	ILE
45	DG	163	VAL
45	DG	169	LEU
45	DG	172	LYS
45	DG	173	MET
45	DG	183	LYS
45	DG	185	ARG
45	DG	189	LEU
45	DG	208	GLU
45	DG	213	LYS
45	DG	214	LEU
45	DG	216	SER
45	DG	217	THR
45	DG	219	ASP
45	DG	222	PHE
45	DG	230	LYS
45	DG	241	LYS
45	DG	245	LYS
45	DG	248	LYS
46	DH	4	ILE
46	DH	5	GLN
46	DH	6	THR
46	DH	16	VAL
46	DH	18	VAL
46	DH	19	SER
46	DH	20	ILE
46	DH	31	ARG
46	DH	33	THR
46	DH	39	LYS
46	DH	43	VAL
46	DH	44	THR
46	DH	52	LEU
46	DH	55	VAL
46	DH	62	ARG
46	DH	63	LYS

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Mol	Chain	Res	Type
46	DH	68	LEU
46	DH	69	ARG
46	DH	70	THR
46	DH	71	VAL
46	DH	80	THR
46	DH	82	VAL
46	DH	92	TYR
46	DH	106	LYS
46	DH	121	LYS
46	DH	123	ILE
46	DH	124	ARG
46	DH	130	ASP
46	DH	132	VAL
46	DH	133	THR
46	DH	134	ILE
46	DH	138	THR
46	DH	144	ILE
46	DH	151	VAL
46	DH	161	LEU
46	DH	162	GLN
46	DH	164	ILE
46	DH	169	ASN
46	DH	170	LYS
46	DH	173	ARG
46	DH	179	ILE
46	DH	188	THR
46	DH	191	LEU
47	DI	19	LYS
47	DI	24	ARG
47	DI	26	VAL
47	DI	31	ILE
47	DI	32	ARG
47	DI	33	ILE
47	DI	36	LEU
47	DI	42	THR
47	DI	48	LEU
47	DI	52	LEU
47	DI	53	VAL
47	DI	57	LEU
47	DI	58	GLU
47	DI	63	GLU
47	DI	69	ARG

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Mol	Chain	Res	Type
47	DI	76	MET
47	DI	78	THR
47	DI	83	ASP
47	DI	87	LEU
47	DI	91	VAL
47	DI	99	ILE
47	DI	129	VAL
47	DI	135	ILE
47	DI	140	THR
47	DI	143	SER
47	DI	144	ASN
47	DI	145	LYS
47	DI	153	ARG
47	DI	154	ARG
47	DI	167	LEU
47	DI	169	LYS
47	DI	174	THR
47	DI	177	ASP
47	DI	178	ARG
47	DI	182	LEU
47	DI	183	LYS
47	DI	197	VAL
47	DI	200	LEU
47	DI	203	LYS
47	DI	206	LEU
47	DI	210	ILE
47	DI	211	ARG
47	DI	212	GLU
47	DI	215	GLU
47	DI	217	PHE
48	DJ	10	ARG
48	DJ	12	LEU
48	DJ	13	LYS
48	DJ	16	LYS
48	DJ	22	SER
48	DJ	30	LEU
48	DJ	31	THR
48	DJ	34	SER
48	DJ	35	LYS
48	DJ	44	THR
48	DJ	46	VAL
48	DJ	80	LEU

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Mol	Chain	Res	Type
48	DJ	85	LYS
48	DJ	87	LYS
48	DJ	92	ARG
48	DJ	106	ILE
48	DJ	107	ASP
48	DJ	108	GLU
48	DJ	112	LEU
48	DJ	114	ILE
48	DJ	129	VAL
48	DJ	130	VAL
48	DJ	132	ASN
48	DJ	137	ARG
48	DJ	138	VAL
48	DJ	140	ARG
48	DJ	142	LYS
48	DJ	147	THR
48	DJ	152	HIS
48	DJ	158	ASP
48	DJ	159	THR
48	DJ	160	VAL
48	DJ	161	SER
48	DJ	165	GLN
49	DL	45	LYS
49	DL	46	ILE
49	DL	54	LEU
49	DL	58	VAL
49	DL	59	ARG
49	DL	63	VAL
49	DL	67	ARG
49	DL	68	LYS
49	DL	69	VAL
49	DL	73	ARG
49	DL	85	LEU
49	DL	100	ARG
49	DL	107	GLU
49	DL	114	GLN
49	DL	118	GLU
49	DL	121	SER
49	DL	123	ILE
49	DL	124	ILE
49	DL	131	LYS
49	DL	152	THR

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Mol	Chain	Res	Type
49	DL	154	VAL
49	DL	164	GLU
49	DL	168	ARG
49	DL	171	ARG
49	DL	176	GLU
49	DL	184	GLU
49	DL	189	GLU
49	DL	194	GLU
50	DM	3	THR
50	DM	10	SER
50	DM	13	ARG
50	DM	15	VAL
50	DM	20	VAL
50	DM	24	LYS
50	DM	27	GLN
50	DM	42	LYS
50	DM	53	VAL
50	DM	58	ILE
50	DM	62	GLN
50	DM	63	VAL
50	DM	64	VAL
50	DM	72	LEU
50	DM	74	ARG
50	DM	80	THR
50	DM	82	SER
50	DM	92	GLU
50	DM	106	ARG
50	DM	107	GLU
50	DM	108	ARG
50	DM	124	ARG
50	DM	126	GLN
50	DM	128	ARG
50	DM	130	THR
50	DM	132	LYS
50	DM	133	LYS
50	DM	135	LEU
51	DN	5	LYS
51	DN	7	LEU
51	DN	8	GLU
51	DN	10	LEU
51	DN	12	ARG
51	DN	15	GLN

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Mol	Chain	Res	Type
51	DN	18	VAL
51	DN	22	LEU
51	DN	24	ARG
51	DN	41	ARG
51	DN	49	ARG
51	DN	54	LYS
51	DN	60	VAL
51	DN	68	ARG
51	DN	80	THR
51	DN	83	LYS
51	DN	85	THR
51	DN	91	GLU
51	DN	92	LEU
51	DN	96	ARG
51	DN	97	SER
51	DN	98	LEU
51	DN	104	GLU
51	DN	105	ARG
51	DN	106	VAL
51	DN	109	ARG
51	DN	134	LEU
51	DN	138	GLN
51	DN	155	VAL
51	DN	170	LYS
51	DN	176	LYS
51	DN	184	LYS
51	DN	190	THR
51	DN	194	GLN
51	DN	196	THR
51	DN	204	LYS
52	DO	3[A]	VAL
52	DO	3[B]	SER
52	DO	12[A]	LYS
52	DO	12[B]	LYS
52	DO	22[A]	VAL
52	DO	22[B]	THR
52	DO	25[A]	LYS
52	DO	25[B]	LYS
52	DO	34[A]	VAL
52	DO	34[B]	VAL
52	DO	41[A]	LEU
52	DO	41[B]	LEU

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Mol	Chain	Res	Type
52	DO	58[A]	LEU
52	DO	58[B]	LEU
52	DO	59[A]	ARG
52	DO	59[B]	ARG
52	DO	60[A]	LYS
52	DO	60[B]	LYS
52	DO	67[A]	THR
52	DO	67[B]	THR
52	DO	74[A]	ARG
52	DO	74[B]	ARG
52	DO	78[A]	ARG
52	DO	78[B]	ARG
52	DO	85[A]	ARG
52	DO	85[B]	ARG
52	DO	100[A]	GLU
52	DO	100[B]	GLU
52	DO	102[A]	LEU
52	DO	102[B]	LEU
52	DO	106[A]	GLU
52	DO	106[B]	GLU
52	DO	108[A]	ILE
52	DO	108[B]	ILE
52	DO	115[A]	LYS
52	DO	115[B]	LYS
52	DO	117[A]	ARG
52	DO	117[B]	ARG
52	DO	124[A]	LEU
52	DO	124[B]	LEU
52	DO	126[A]	VAL
52	DO	126[B]	VAL
52	DO	128[A]	ARG
52	DO	128[B]	ARG
52	DO	129[A]	LEU
52	DO	129[B]	LEU
52	DO	130[A]	LYS
52	DO	130[B]	LYS
52	DO	134[A]	LYS
52	DO	134[B]	LYS
52	DO	140[A]	LYS
52	DO	140[B]	LYS
52	DO	144[A]	SER
52	DO	144[B]	SER

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Mol	Chain	Res	Type
52	DO	160[A]	ARG
52	DO	160[B]	ARG
52	DO	166[A]	GLU
52	DO	166[B]	GLU
52	DO	171[A]	LYS
52	DO	171[B]	LYS
52	DO	175[A]	THR
52	DO	175[B]	THR
52	DO	182[A]	ASN
52	DO	182[B]	SER
52	DO	184[A]	THR
52	DO	187[A]	GLU
52	DO	187[B]	GLU
52	DO	197[A]	LEU
52	DO	197[B]	PHE
53	DP	9	THR
53	DP	23	ARG
53	DP	24	VAL
53	DP	29	THR
53	DP	31	GLU
53	DP	32	THR
53	DP	41	LEU
53	DP	51	VAL
53	DP	52	LEU
53	DP	56	ARG
53	DP	58	ILE
53	DP	69	ARG
53	DP	74	LYS
53	DP	78	VAL
53	DP	79	THR
53	DP	80	LYS
53	DP	89	LYS
53	DP	94	LEU
53	DP	103	GLU
53	DP	112	LEU
53	DP	114	VAL
53	DP	119	VAL
53	DP	124	LYS
53	DP	126	ARG
53	DP	127	ARG
53	DP	128	ARG
53	DP	138	LYS

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Mol	Chain	Res	Type
54	DQ	3	ILE
54	DQ	7	SER
54	DQ	17	THR
54	DQ	24	VAL
54	DQ	26	LEU
54	DQ	31	LYS
54	DQ	32	LEU
54	DQ	34	THR
54	DQ	49	LEU
54	DQ	57	ILE
54	DQ	64	VAL
54	DQ	72	LYS
54	DQ	80	THR
54	DQ	81	VAL
54	DQ	86	THR
54	DQ	93	ILE
54	DQ	100	THR
54	DQ	105	ARG
54	DQ	113	LYS
54	DQ	129	VAL
54	DQ	135	GLN
54	DQ	138	LEU
54	DQ	141	ARG
54	DQ	150	VAL
54	DQ	161	LYS
54	DQ	165	ILE
54	DQ	166	LEU
54	DQ	168	THR
54	DQ	170	ARG
55	DR	5	ARG
55	DR	7	GLN
55	DR	10	LEU
55	DR	14	VAL
55	DR	17	VAL
55	DR	20	ARG
55	DR	27	ASN
55	DR	29	THR
55	DR	36	ASN
55	DR	43	LYS
55	DR	49	THR
55	DR	55	VAL
55	DR	56	THR

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Mol	Chain	Res	Type
55	DR	57	VAL
55	DR	63	THR
55	DR	70	LYS
55	DR	71	ARG
55	DR	74	ARG
55	DR	98	ARG
55	DR	99	LEU
55	DR	101	VAL
55	DR	105	LEU
55	DR	106	LEU
55	DR	108	LYS
55	DR	114	LYS
55	DR	117	LYS
55	DR	126	GLU
55	DR	128	LYS
55	DR	133	LYS
55	DR	138	LEU
55	DR	146	LYS
55	DR	152	GLU
55	DR	153	LYS
55	DR	158	GLU
55	DR	162	ARG
55	DR	164	LEU
55	DR	167	ARG
55	DR	173	ARG
55	DR	177	VAL
55	DR	180	LYS
56	DS	1	MET
56	DS	13	ARG
56	DS	15	PRO
56	DS	17	GLU
56	DS	21	GLU
56	DS	23	LYS
56	DS	40	ARG
56	DS	45	LEU
56	DS	50	LYS
56	DS	51	VAL
56	DS	52	LYS
56	DS	58	ILE
56	DS	61	ILE
56	DS	71	LYS
56	DS	73	LYS

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Mol	Chain	Res	Type
56	DS	74	ASN
56	DS	80	ARG
56	DS	87	THR
56	DS	97	VAL
56	DS	100	VAL
56	DS	104	GLU
56	DS	105	THR
56	DS	115	ARG
56	DS	117	ARG
56	DS	130	GLU
56	DS	132	THR
56	DS	136	LYS
56	DS	137	ARG
56	DS	146	LYS
56	DS	148	LEU
56	DS	149	LYS
56	DS	155	ARG
56	DS	161	LYS
56	DS	162	THR
56	DS	166	LYS
56	DS	169	SER
56	DS	172	TYR
57	DT	12	ARG
57	DT	17	ARG
57	DT	25	VAL
57	DT	27	LEU
57	DT	35	LYS
57	DT	36	VAL
57	DT	55	LYS
57	DT	68	THR
57	DT	71	SER
57	DT	78	LYS
57	DT	80	VAL
57	DT	83	ARG
57	DT	88	ARG
57	DT	89	LEU
57	DT	96	ILE
57	DT	102	ARG
57	DT	104	GLU
57	DT	118	GLU
57	DT	126	VAL
57	DT	130	ARG

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Mol	Chain	Res	Type
57	DT	131	GLN
57	DT	135	PRO
57	DT	139	ARG
57	DT	140	ILE
57	DT	141	VAL
57	DT	143	THR
57	DT	149	GLN
57	DT	150	THR
57	DT	160	ILE
58	DU	13	LYS
58	DU	14	THR
58	DU	16	THR
58	DU	17	VAL
58	DU	21	SER
58	DU	23	THR
58	DU	27	VAL
58	DU	37	LEU
58	DU	38	ILE
58	DU	39	ASP
58	DU	43	VAL
58	DU	50	LEU
58	DU	54	VAL
58	DU	55	THR
58	DU	58	GLU
58	DU	61	THR
58	DU	62	VAL
58	DU	63	VAL
58	DU	64	THR
58	DU	68	THR
58	DU	81	LYS
58	DU	90	ARG
58	DU	98	THR
58	DU	100	THR
58	DU	105	LEU
59	DV	13	ILE
59	DV	32	ARG
59	DV	48	ARG
59	DV	64	LYS
59	DV	66	LYS
59	DV	70	ARG
59	DV	73	VAL
59	DV	88	ARG

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Mol	Chain	Res	Type
59	DV	91	VAL
59	DV	115	THR
59	DV	125	LEU
60	DW	1	MET
60	DW	5	ILE
60	DW	25	ASP
60	DW	34	SER
60	DW	39	LEU
60	DW	57	LYS
60	DW	63	ILE
60	DW	92	GLU
60	DW	95	SER
60	DW	97	LYS
60	DW	98	PRO
60	DW	100	VAL
60	DW	105	ARG
60	DW	107	GLU
60	DW	126	GLU
60	DW	127	LYS
60	DW	135	SER
61	DX	24	LEU
61	DX	27	ARG
61	DX	34	LEU
61	DX	37	THR
61	DX	38	LEU
61	DX	39	LYS
61	DX	40	LEU
61	DX	45	LYS
61	DX	56	ARG
61	DX	57	LEU
61	DX	63	ILE
61	DX	65	GLN
61	DX	70	GLU
61	DX	71	THR
61	DX	73	MET
61	DX	74	LYS
61	DX	81	ILE
61	DX	86	VAL
61	DX	101	GLU
61	DX	108	LEU
61	DX	109	LYS
61	DX	115	ARG

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Mol	Chain	Res	Type
61	DX	121	LYS
61	DX	125	ARG
61	DX	133	LEU
61	DX	135	ILE
61	DX	142	ILE
62	DY	4	GLN
62	DY	12	ARG
62	DY	13	ARG
62	DY	14	LYS
62	DY	17	LYS
62	DY	37	LYS
62	DY	40	ARG
62	DY	43	TYR
62	DY	45	ILE
62	DY	50	ILE
62	DY	52	ARG
62	DY	56	VAL
62	DY	57	LEU
62	DY	59	VAL
62	DY	66	GLN
62	DY	70	ILE
62	DY	71	SER
62	DY	76	LEU
62	DY	80	VAL
62	DY	83	ASP
62	DY	87	LYS
62	DY	90	VAL
62	DY	94	SER
62	DY	95	VAL
62	DY	97	ILE
62	DY	103	LYS
62	DY	115	ARG
62	DY	120	GLN
63	DZ	3	LYS
63	DZ	14	VAL
63	DZ	17	ARG
63	DZ	24	VAL
63	DZ	30	ASP
63	DZ	31	GLU
63	DZ	34	LYS
63	DZ	36	HIS
63	DZ	55	LYS

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Mol	Chain	Res	Type
63	DZ	65	ARG
63	DZ	72	ILE
63	DZ	81	LEU
63	DZ	83	THR
63	DZ	86	THR
63	DZ	89	VAL
63	DZ	93	LYS
63	DZ	95	VAL
63	DZ	99	GLU
63	DZ	100	THR
63	DZ	102	GLU
63	DZ	103	GLN
63	DZ	105	SER
63	DZ	119	GLU
63	DZ	121	ARG
63	DZ	126	LYS
63	DZ	127	ASN
63	DZ	134	LEU
63	DZ	135	ARG
64	Da	4	ARG
64	Da	6	THR
64	Da	8	THR
64	Da	12	ARG
64	Da	16	SER
64	Da	24	LYS
64	Da	34	MET
64	Da	42	ARG
64	Da	44	ASN
64	Da	46	ASP
64	Da	47	LYS
64	Da	56	VAL
64	Da	60	TYR
64	Da	65	GLN
64	Da	78	LEU
64	Da	80	THR
64	Da	82	ILE
64	Da	85	ASP
64	Da	91	LEU
64	Da	97	GLU
64	Da	98	THR
64	Da	115	LYS
64	Da	124	ILE

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Mol	Chain	Res	Type
64	Da	128	ARG
64	Da	130	VAL
64	Da	132	LYS
64	Da	133	LEU
64	Da	139	ARG
65	Db	3	LYS
65	Db	14	ARG
65	Db	15	LYS
65	Db	21	ILE
65	Db	22	LYS
65	Db	23	LYS
65	Db	26	THR
65	Db	33	LYS
65	Db	35	VAL
65	Db	38	LYS
65	Db	50	THR
65	Db	52	LYS
65	Db	58	LYS
65	Db	59	LYS
66	Dc	8	GLU
66	Dc	10	ILE
66	Dc	17	VAL
66	Dc	18	ILE
66	Dc	19	LYS
66	Dc	30	THR
66	Dc	32	LYS
66	Dc	33	SER
66	Dc	34	LEU
66	Dc	41	LEU
66	Dc	48	THR
66	Dc	68	TYR
66	Dc	69	TYR
66	Dc	76	GLU
66	Dc	83	LYS
66	Dc	86	ARG
66	Dc	87	VAL
66	Dc	99	ASP
66	Dc	100	ILE
67	Dd	6	ASP
67	Dd	8	VAL
67	Dd	13	THR
67	Dd	16	LEU

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Mol	Chain	Res	Type
67	Dd	26	LYS
67	Dd	31	ARG
67	Dd	34	LYS
67	Dd	36	ILE
67	Dd	44	MET
67	Dd	55	LEU
67	Dd	61	LYS
67	Dd	76	SER
67	Dd	82	GLU
67	Dd	89	LEU
67	Dd	90	PHE
67	Dd	96	VAL
67	Dd	100	SER
67	Dd	102	LYS
67	Dd	104	LEU
67	Dd	105	GLN
67	Dd	106	THR
67	Dd	110	GLU
68	De	4	LEU
68	De	8	LYS
68	De	14	THR
68	De	16	LYS
68	De	18	LYS
68	De	19	ARG
68	De	27	ARG
68	De	31	ASN
68	De	33	ARG
68	De	35	GLN
68	De	38	ILE
68	De	41	VAL
68	De	51	SER
68	De	61	LYS
68	De	73	THR
68	De	75	LEU
68	De	76	VAL
68	De	82	LEU
68	De	87	MET
68	De	91	THR
68	De	106	VAL
68	De	109	LEU
68	De	125	ARG
68	De	126	LEU

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Mol	Chain	Res	Type
69	Df	4	SER
69	Df	10	LYS
69	Df	28	SER
69	Df	31	LYS
69	Df	49	ILE
69	Df	70	LYS
69	Df	81	VAL
69	Df	84	THR
69	Df	98	VAL
69	Df	107	ILE
70	Dg	5	VAL
70	Dg	9	ARG
70	Dg	16	ARG
70	Dg	19	LYS
70	Dg	20	ILE
70	Dg	23	VAL
70	Dg	24	LYS
70	Dg	29	ILE
70	Dg	30	LEU
70	Dg	31	ARG
70	Dg	35	VAL
70	Dg	54	ILE
70	Dg	58	ARG
70	Dg	65	VAL
70	Dg	70	LYS
70	Dg	79	SER
70	Dg	85	VAL
70	Dg	86	LYS
70	Dg	87	GLU
70	Dg	88	ARG
70	Dg	90	ILE
70	Dg	98	GLN
70	Dg	102	LYS
70	Dg	104	VAL
70	Dg	105	VAL
71	Dh	15	GLU
71	Dh	20	GLN
71	Dh	21	LEU
71	Dh	27	GLU
71	Dh	28	LEU
71	Dh	38	ARG
71	Dh	40	SER

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Mol	Chain	Res	Type
71	Dh	45	LYS
71	Dh	47	VAL
71	Dh	48	ARG
71	Dh	57	VAL
71	Dh	62	GLN
71	Dh	66	VAL
71	Dh	68	GLN
71	Dh	69	LEU
71	Dh	79	ASP
71	Dh	81	ARG
71	Dh	84	LYS
71	Dh	85	THR
71	Dh	89	ARG
71	Dh	90	ARG
71	Dh	94	LYS
71	Dh	98	SER
71	Dh	100	VAL
71	Dh	101	THR
71	Dh	107	LYS
71	Dh	115	LYS
71	Dh	119	LYS
72	Di	3	VAL
72	Di	7	ILE
72	Di	9	ILE
72	Di	11	LEU
72	Di	17	VAL
72	Di	18	THR
72	Di	21	THR
72	Di	26	ILE
72	Di	29	LYS
72	Di	34	SER
72	Di	36	ARG
72	Di	37	THR
72	Di	38	LYS
72	Di	40	VAL
72	Di	43	LEU
72	Di	45	ARG
72	Di	57	LEU
72	Di	58	ILE
72	Di	60	LEU
72	Di	61	ILE
72	Di	66	GLU

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Mol	Chain	Res	Type
72	Di	68	ARG
72	Di	74	LYS
72	Di	75	LYS
72	Di	76	ARG
72	Di	81	THR
72	Di	88	GLU
72	Di	94	ILE
72	Di	98	ARG
73	Dj	3	LYS
73	Dj	17	THR
73	Dj	25	ARG
73	Dj	33	THR
73	Dj	36	SER
73	Dj	44	THR
73	Dj	55	ARG
73	Dj	58	THR
73	Dj	59	THR
73	Dj	65	ARG
73	Dj	67	LEU
73	Dj	68	LYS
73	Dj	75	LYS
73	Dj	80	THR
73	Dj	84	SER
74	Dk	5	ILE
74	Dk	12	LEU
74	Dk	24	THR
74	Dk	27	ILE
74	Dk	31	LEU
74	Dk	39	ARG
74	Dk	41	THR
74	Dk	46	ARG
74	Dk	50	SER
74	Dk	53	THR
74	Dk	61	LYS
74	Dk	63	LYS
74	Dk	64	LYS
74	Dk	65	LEU
74	Dk	66	ILE
74	Dk	67	GLN
74	Dk	68	SER
75	Dl	11	GLN
75	Dl	12	LYS

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Mol	Chain	Res	Type
75	Dl	15	LYS
75	Dl	17	LYS
75	Dl	21	ARG
75	Dl	23	LEU
75	Dl	27	ILE
75	Dl	28	ARG
75	Dl	29	LEU
75	Dl	30	ARG
75	Dl	41	ARG
75	Dl	45	ARG
75	Dl	47	THR
75	Dl	48	LYS
75	Dl	51	ILE
76	Dm	78	ILE
76	Dm	83	LYS
76	Dm	85	LEU
76	Dm	88	LYS
76	Dm	91	CYS
76	Dm	93	LYS
76	Dm	106	ARG
76	Dm	112	LYS
76	Dm	113	ARG
76	Dm	114	LYS
76	Dm	126	LYS
76	Dm	127	LEU
77	Dn	2	ARG
77	Dn	6	ARG
77	Dn	9	ARG
77	Dn	10	THR
77	Dn	13	LEU
77	Dn	16	LYS
77	Dn	19	LYS
77	Dn	21	ARG
77	Dn	23	ARG
77	Dn	24	SER
78	Do	7	THR
78	Do	8	ARG
78	Do	15	LYS
78	Do	16	THR
78	Do	18	ARG
78	Do	46	LYS
78	Do	47	GLN

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Mol	Chain	Res	Type
78	Do	61	LYS
78	Do	63	LYS
78	Do	71	ARG
78	Do	78	LYS
78	Do	79	THR
78	Do	83	LEU
78	Do	84	THR
78	Do	89	LYS
78	Do	93	LEU
78	Do	104	LEU
78	Do	105	GLN
79	Dp	3	LYS
79	Dp	16	VAL
79	Dp	22	LEU
79	Dp	24	ARG
79	Dp	42	CYS
79	Dp	48	LYS
79	Dp	49	ARG
79	Dp	54	ILE
79	Dp	56	THR
79	Dp	73	THR
79	Dp	79	VAL
79	Dp	90	VAL
83	Dq	4	ILE
83	Dq	5	ARG
83	Dq	10	GLU
83	Dq	17	GLU
83	Dq	30	VAL
83	Dq	32	ASN
83	Dq	41	VAL
83	Dq	42	ARG
83	Dq	43	LYS
83	Dq	44	GLU
83	Dq	50	VAL
83	Dq	51	VAL
83	Dq	52	LEU
83	Dq	55	LYS
83	Dq	57	THR
83	Dq	67	LEU
83	Dq	68	SER
83	Dq	70	LEU
83	Dq	74	GLU

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Mol	Chain	Res	Type
83	Dq	76	LEU
83	Dq	79	PHE
83	Dq	80	VAL
83	Dq	81	LYS
83	Dq	84	VAL
83	Dq	91	GLU
83	Dq	93	LEU
83	Dq	96	ILE
83	Dq	97	LYS
83	Dq	185	LEU
83	Dq	188	VAL
83	Dq	196	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (239) such sidechains are listed below:

Mol	Chain	Res	Type
2	AA	49	ASN
2	AA	168	HIS
3	AB	79	HIS
3	AB	101	HIS
3	AB	149	GLN
3	AB	183	GLN
4	AC	82	ASN
4	AC	89	GLN
4	AC	94	GLN
4	AC	189	GLN
4	AC	201	ASN
5	AD	159	HIS
5	AD	179	GLN
6	AE	50	ASN
6	AE	98	ASN
7	AF	35	GLN
7	AF	79	ASN
7	AF	104	ASN
7	AF	128	ASN
7	AF	139	ASN
7	AF	170	GLN
9	AH	108	GLN
10	AI	64	ASN
10	AI	94	ASN
10	AI	116	HIS
11	AJ	48	GLN

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Mol	Chain	Res	Type
11	AJ	110	GLN
11	AJ	112	GLN
11	AJ	131	GLN
12	AK	62	GLN
13	AL	21	ASN
13	AL	92	HIS
13	AL	110	HIS
14	AM	125	ASN
17	AP	82	ASN
17	AP	103	ASN
18	AQ	62	ASN
18	AQ	103	ASN
19	AR	62	GLN
19	AR	101	ASN
20	AS	6	GLN
20	AS	8	GLN
20	AS	21	ASN
20	AS	78	HIS
20	AS	89	GLN
20	AS	104	ASN
21	AT	64	HIS
22	AU	47	GLN
23	AV	74	GLN
24	AW	24	GLN
24	AW	39	GLN
24	AW	64	GLN
24	AW	80	ASN
25	AX	75	GLN
26	AY	133	ASN
27	AZ	95	HIS
29	Ab	42	ASN
31	Ad	48	ASN
32	Ae	46	ASN
33	Af	151	ASN
34	Ag	29	GLN
34	Ag	101	GLN
34	Ag	153	GLN
34	Ag	196	ASN
35	Ah	108	GLN
39	BA	83	HIS
39	BA	205	ASN
39	BA	209	HIS

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Mol	Chain	Res	Type
40	BB	3	HIS
40	BB	109	HIS
40	BB	211	GLN
40	BB	224	HIS
40	BB	371	GLN
41	BC	48	GLN
41	BC	87	GLN
41	BC	114	ASN
41	BC	221	ASN
41	BC	311	HIS
42	BD	40	HIS
42	BD	63	GLN
42	BD	244	HIS
42	BD	264	GLN
43	BE	167	ASN
44	BF	64	GLN
44	BF	244	ASN
45	BG	240	ASN
46	BH	5	GLN
46	BH	50	ASN
46	BH	96	HIS
46	BH	100	ASN
47	BI	14	ASN
47	BI	59	GLN
47	BI	123	HIS
47	BI	144	ASN
47	BI	208	ASN
48	BJ	109	HIS
49	BL	103	ASN
51	BN	11	GLN
51	BN	37	HIS
53	BP	120	ASN
53	BP	133	HIS
54	BQ	126	GLN
54	BQ	145	ASN
55	BR	134	HIS
56	BS	138	GLN
57	BT	16	GLN
57	BT	103	GLN
57	BT	146	ASN
59	BV	33	ASN
59	BV	98	ASN

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Mol	Chain	Res	Type
60	BW	42	GLN
62	BY	42	GLN
62	BY	110	HIS
62	BY	120	GLN
63	BZ	29	HIS
63	BZ	57	HIS
63	BZ	122	HIS
64	Ba	28	HIS
64	Ba	62	HIS
64	Ba	74	ASN
65	Bb	43	HIS
65	Bb	45	HIS
68	Be	104	ASN
70	Bg	52	GLN
71	Bh	99	GLN
73	Bj	57	HIS
74	Bk	40	GLN
75	Bl	33	ASN
78	Bo	27	GLN
78	Bo	53	GLN
78	Bo	82	GLN
2	CA	23	HIS
2	CA	131	GLN
3	CB	146	GLN
3	CB	153	HIS
3	CB	209	ASN
4	CC	82	ASN
4	CC	250	GLN
5	CD	62	ASN
5	CD	74	GLN
5	CD	111	ASN
6	CE	67	GLN
6	CE	142	HIS
6	CE	157	ASN
7	CF	103	ASN
7	CF	170	GLN
8	CG	201	GLN
9	CH	89	HIS
9	CH	122	HIS
11	CJ	110	GLN
11	CJ	112	GLN
11	CJ	124	HIS

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Mol	Chain	Res	Type
11	CJ	142	ASN
12	CK	32	HIS
13	CL	92	HIS
13	CL	138	ASN
15	CN	36	GLN
17	CP	103	ASN
18	CQ	83	GLN
19	CR	31	ASN
19	CR	74	GLN
20	CS	90	ASN
21	CT	64	HIS
22	CU	12	GLN
22	CU	49	ASN
22	CU	98	GLN
22	CU	105	GLN
24	CW	12	ASN
24	CW	70	ASN
25	CX	79	ASN
26	CY	22	GLN
26	CY	34	ASN
26	CY	63	GLN
29	Cb	5	GLN
29	Cb	19	HIS
32	Ce	17	GLN
34	Cg	17	ASN
34	Cg	182	ASN
34	Cg	184	ASN
34	Cg	185	GLN
39	DA	209	HIS
39	DA	215	ASN
40	DB	211	GLN
40	DB	371	GLN
41	DC	5	GLN
41	DC	48	GLN
41	DC	114	ASN
41	DC	116	ASN
41	DC	175	HIS
41	DC	213	ASN
41	DC	221	ASN
41	DC	291	ASN
42	DD	4	GLN
42	DD	40	HIS

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Mol	Chain	Res	Type
42	DD	57	ASN
42	DD	63	GLN
42	DD	81	HIS
43	DE	167	ASN
44	DF	64	GLN
44	DF	225	GLN
45	DG	33	ASN
45	DG	191	ASN
46	DH	96	HIS
46	DH	100	ASN
46	DH	102	ASN
46	DH	162	GLN
47	DI	59	GLN
47	DI	73	ASN
48	DJ	109	HIS
48	DJ	132	ASN
49	DL	19	GLN
50	DM	126	GLN
53	DP	55	GLN
54	DQ	9	GLN
54	DQ	73	GLN
55	DR	175	GLN
57	DT	49	GLN
58	DU	40	HIS
59	DV	7	GLN
59	DV	33	ASN
60	DW	42	GLN
60	DW	59	HIS
61	DX	94	GLN
63	DZ	36	HIS
63	DZ	57	HIS
64	Da	44	ASN
64	Da	62	HIS
64	Da	65	GLN
65	Db	10	HIS
66	Dc	71	GLN
68	De	49	ASN
69	Df	77	ASN
70	Dg	52	GLN
71	Dh	104	GLN
74	Dk	10	GLN
75	Di	11	GLN

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Mol	Chain	Res	Type
75	Dl	33	ASN
83	Dq	36	GLN
83	Dq	37	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A2	1763/1800 (97%)	548 (31%)	86 (4%)
36	A1	3146/3396 (92%)	758 (24%)	127 (4%)
36	A5	3145/3396 (92%)	747 (23%)	129 (4%)
37	A3	120/121 (99%)	22 (18%)	3 (2%)
37	A7	120/121 (99%)	18 (15%)	0
38	A4	157/158 (99%)	39 (24%)	5 (3%)
38	A8	157/158 (99%)	33 (21%)	3 (1%)
80	A6	1765/1800 (98%)	506 (28%)	60 (3%)
All	All	10373/10950 (94%)	2671 (25%)	413 (3%)

All (2671) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A2	2	A
1	A2	4	C
1	A2	8	U
1	A2	16	G
1	A2	20	G
1	A2	25	C
1	A2	26	A
1	A2	27	U
1	A2	34	G
1	A2	39	A
1	A2	41	A
1	A2	42	G
1	A2	45	U
1	A2	46	A
1	A2	47	A
1	A2	50	C
1	A2	57	G
1	A2	60	U
1	A2	67	A
1	A2	68	A
1	A2	69	G

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Mol	Chain	Res	Type
1	A2	72	A
1	A2	73	U
1	A2	74	U
1	A2	75	U
1	A2	76	A
1	A2	77	U
1	A2	78	A
1	A2	97	C
1	A2	100	A
1	A2	101	U
1	A2	104	A
1	A2	114	C
1	A2	115	G
1	A2	126	A
1	A2	127	G
1	A2	131	C
1	A2	132	U
1	A2	133	U
1	A2	134	U
1	A2	135	A
1	A2	136	C
1	A2	137	U
1	A2	138	A
1	A2	139	C
1	A2	140	A
1	A2	141	U
1	A2	144	U
1	A2	145	A
1	A2	146	U
1	A2	153	G
1	A2	158	U
1	A2	159	U
1	A2	175	G
1	A2	178	U
1	A2	179	A
1	A2	185	U
1	A2	186	C
1	A2	187	G
1	A2	188	A
1	A2	189	C
1	A2	190	C
1	A2	191	C

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Mol	Chain	Res	Type
1	A2	192	U
1	A2	193	U
1	A2	194	U
1	A2	195	G
1	A2	196	G
1	A2	197	A
1	A2	198	A
1	A2	199	G
1	A2	200	A
1	A2	215	A
1	A2	218	A
1	A2	219	A
1	A2	223	U
1	A2	225	A
1	A2	226	A
1	A2	227	U
1	A2	228	G
1	A2	229	U
1	A2	233	C
1	A2	234	G
1	A2	235	G
1	A2	236	A
1	A2	238	U
1	A2	239	C
1	A2	240	U
1	A2	241	U
1	A2	242	U
1	A2	249	U
1	A2	250	C
1	A2	261	U
1	A2	262	U
1	A2	265	A
1	A2	266	A
1	A2	271	A
1	A2	272	U
1	A2	274	G
1	A2	275	C
1	A2	276	C
1	A2	277	U
1	A2	278	U
1	A2	279	G
1	A2	280	U

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Mol	Chain	Res	Type
1	A2	281	G
1	A2	288	A
1	A2	290	G
1	A2	299	A
1	A2	301	A
1	A2	306	U
1	A2	308	C
1	A2	309	C
1	A2	314	C
1	A2	316	A
1	A2	319	U
1	A2	320	U
1	A2	321	C
1	A2	322	G
1	A2	337	G
1	A2	338	C
1	A2	341	A
1	A2	348	U
1	A2	352	A
1	A2	359	A
1	A2	360	A
1	A2	361	C
1	A2	399	A
1	A2	400	A
1	A2	401	A
1	A2	402	C
1	A2	403	G
1	A2	404	G
1	A2	411	C
1	A2	416	A
1	A2	417	A
1	A2	418	G
1	A2	423	G
1	A2	424	C
1	A2	425	A
1	A2	426	G
1	A2	428	A
1	A2	434	G
1	A2	439	U
1	A2	444	C
1	A2	445	A
1	A2	446	A

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Mol	Chain	Res	Type
1	A2	448	C
1	A2	467	G
1	A2	468	A
1	A2	470	A
1	A2	475	A
1	A2	477	A
1	A2	484	C
1	A2	485	A
1	A2	486	G
1	A2	487	G
1	A2	488	G
1	A2	493	U
1	A2	494	U
1	A2	495	C
1	A2	496	G
1	A2	497	G
1	A2	498	G
1	A2	499	U
1	A2	500	C
1	A2	502	U
1	A2	503	G
1	A2	504	U
1	A2	505	A
1	A2	506	A
1	A2	507	U
1	A2	508	U
1	A2	510	G
1	A2	511	A
1	A2	512	A
1	A2	513	U
1	A2	515	A
1	A2	516	G
1	A2	519	C
1	A2	525	A
1	A2	527	A
1	A2	532	U
1	A2	538	A
1	A2	539	G
1	A2	540	G
1	A2	541	A
1	A2	542	A
1	A2	543	C

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Mol	Chain	Res	Type
1	A2	544	A
1	A2	545	A
1	A2	548	G
1	A2	555	A
1	A2	556	A
1	A2	557	G
1	A2	558	U
1	A2	559	C
1	A2	565	C
1	A2	570	A
1	A2	575	C
1	A2	579	A
1	A2	580	A
1	A2	582	U
1	A2	583	C
1	A2	585	A
1	A2	594	A
1	A2	595	G
1	A2	597	G
1	A2	605	A
1	A2	607	G
1	A2	611	U
1	A2	619	A
1	A2	620	A
1	A2	622	A
1	A2	623	A
1	A2	624	G
1	A2	630	A
1	A2	639	U
1	A2	640	U
1	A2	650	U
1	A2	653	C
1	A2	655	G
1	A2	656	G
1	A2	657	U
1	A2	658	C
1	A2	677	G
1	A2	679	U
1	A2	680	U
1	A2	684	A
1	A2	685	A
1	A2	686	C

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Mol	Chain	Res	Type
1	A2	692	C
1	A2	694	U
1	A2	696	C
1	A2	697	C
1	A2	699	U
1	A2	700	C
1	A2	701	U
1	A2	702	G
1	A2	703	G
1	A2	704	C
1	A2	705	U
1	A2	706	A
1	A2	707	A
1	A2	709	C
1	A2	710	U
1	A2	712	G
1	A2	713	A
1	A2	714	G
1	A2	717	C
1	A2	718	U
1	A2	719	U
1	A2	720	G
1	A2	721	U
1	A2	722	G
1	A2	723	G
1	A2	725	U
1	A2	727	U
1	A2	728	U
1	A2	729	G
1	A2	730	G
1	A2	731	C
1	A2	732	G
1	A2	733	A
1	A2	734	A
1	A2	735	C
1	A2	736	C
1	A2	737	A
1	A2	738	G
1	A2	742	U
1	A2	743	U
1	A2	745	U
1	A2	754	A

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Mol	Chain	Res	Type
1	A2	755	A
1	A2	756	A
1	A2	758	U
1	A2	765	G
1	A2	766	U
1	A2	771	A
1	A2	774	A
1	A2	775	G
1	A2	778	G
1	A2	779	U
1	A2	780	A
1	A2	781	U
1	A2	782	U
1	A2	783	G
1	A2	784	C
1	A2	785	U
1	A2	787	G
1	A2	789	A
1	A2	793	A
1	A2	794	U
1	A2	795	U
1	A2	806	A
1	A2	811	A
1	A2	812	A
1	A2	813	U
1	A2	815	G
1	A2	816	G
1	A2	818	C
1	A2	819	G
1	A2	820	U
1	A2	821	U
1	A2	823	G
1	A2	824	G
1	A2	829	A
1	A2	830	U
1	A2	831	U
1	A2	832	U
1	A2	833	U
1	A2	837	G
1	A2	838	G
1	A2	840	U
1	A2	846	G

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Mol	Chain	Res	Type
1	A2	848	C
1	A2	849	C
1	A2	854	U
1	A2	862	A
1	A2	863	A
1	A2	864	U
1	A2	873	U
1	A2	876	G
1	A2	892	A
1	A2	896	U
1	A2	898	A
1	A2	912	U
1	A2	913	G
1	A2	914	G
1	A2	921	U
1	A2	928	U
1	A2	933	A
1	A2	935	U
1	A2	942	G
1	A2	944	A
1	A2	951	A
1	A2	959	U
1	A2	960	U
1	A2	961	U
1	A2	966	A
1	A2	968	U
1	A2	982	U
1	A2	988	A
1	A2	992	A
1	A2	993	A
1	A2	995	A
1	A2	997	G
1	A2	1003	A
1	A2	1004	U
1	A2	1005	A
1	A2	1020	A
1	A2	1021	C
1	A2	1026	A
1	A2	1028	C
1	A2	1031	U
1	A2	1039	A
1	A2	1040	G

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Mol	Chain	Res	Type
1	A2	1052	U
1	A2	1053	G
1	A2	1058	U
1	A2	1059	U
1	A2	1060	U
1	A2	1061	A
1	A2	1064	G
1	A2	1073	G
1	A2	1074	G
1	A2	1079	U
1	A2	1080	U
1	A2	1082	C
1	A2	1083	G
1	A2	1084	A
1	A2	1086	A
1	A2	1087	A
1	A2	1091	A
1	A2	1092	A
1	A2	1093	A
1	A2	1096	C
1	A2	1097	U
1	A2	1100	G
1	A2	1104	U
1	A2	1111	G
1	A2	1138	A
1	A2	1139	A
1	A2	1146	G
1	A2	1149	G
1	A2	1151	A
1	A2	1152	A
1	A2	1155	G
1	A2	1157	A
1	A2	1158	C
1	A2	1160	A
1	A2	1162	C
1	A2	1167	G
1	A2	1185	U
1	A2	1188	G
1	A2	1191	U
1	A2	1194	A
1	A2	1196	A
1	A2	1197	C

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Mol	Chain	Res	Type
1	A2	1199	G
1	A2	1200	G
1	A2	1202	A
1	A2	1207	C
1	A2	1208	A
1	A2	1217	A
1	A2	1218	G
1	A2	1219	A
1	A2	1221	A
1	A2	1226	A
1	A2	1227	A
1	A2	1228	G
1	A2	1229	G
1	A2	1235	C
1	A2	1243	G
1	A2	1244	A
1	A2	1245	G
1	A2	1250	U
1	A2	1251	U
1	A2	1257	U
1	A2	1258	U
1	A2	1260	U
1	A2	1269	U
1	A2	1286	U
1	A2	1301	U
1	A2	1314	U
1	A2	1315	U
1	A2	1321	A
1	A2	1329	A
1	A2	1337	A
1	A2	1339	C
1	A2	1340	U
1	A2	1341	A
1	A2	1344	A
1	A2	1345	A
1	A2	1349	G
1	A2	1354	G
1	A2	1361	U
1	A2	1363	U
1	A2	1364	G
1	A2	1370	U
1	A2	1371	A

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Mol	Chain	Res	Type
1	A2	1372	U
1	A2	1379	C
1	A2	1382	A
1	A2	1383	G
1	A2	1388	A
1	A2	1390	U
1	A2	1398	U
1	A2	1399	C
1	A2	1400	A
1	A2	1412	G
1	A2	1413	U
1	A2	1414	U
1	A2	1415	U
1	A2	1420	C
1	A2	1421	A
1	A2	1427	A
1	A2	1428	G
1	A2	1429	G
1	A2	1431	C
1	A2	1445	G
1	A2	1446	A
1	A2	1448	G
1	A2	1454	G
1	A2	1457	C
1	A2	1459	C
1	A2	1461	C
1	A2	1462	G
1	A2	1471	A
1	A2	1473	U
1	A2	1474	G
1	A2	1475	A
1	A2	1478	G
1	A2	1482	C
1	A2	1486	G
1	A2	1488	G
1	A2	1489	U
1	A2	1490	C
1	A2	1491	U
1	A2	1492	A
1	A2	1493	A
1	A2	1499	G
1	A2	1500	C

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Mol	Chain	Res	Type
1	A2	1506	G
1	A2	1514	U
1	A2	1516	A
1	A2	1518	C
1	A2	1521	G
1	A2	1522	U
1	A2	1523	G
1	A2	1524	A
1	A2	1535	U
1	A2	1536	G
1	A2	1537	C
1	A2	1538	U
1	A2	1539	G
1	A2	1540	G
1	A2	1557	U
1	A2	1559	A
1	A2	1569	A
1	A2	1573	A
1	A2	1574	G
1	A2	1575	G
1	A2	1584	G
1	A2	1590	G
1	A2	1601	G
1	A2	1616	G
1	A2	1619	C
1	A2	1624	C
1	A2	1625	C
1	A2	1631	A
1	A2	1635	A
1	A2	1649	G
1	A2	1657	U
1	A2	1658	G
1	A2	1663	G
1	A2	1680	G
1	A2	1682	U
1	A2	1683	C
1	A2	1684	U
1	A2	1685	G
1	A2	1686	C
1	A2	1687	U
1	A2	1693	A
1	A2	1712	A

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Mol	Chain	Res	Type
1	A2	1713	G
1	A2	1716	C
1	A2	1717	G
1	A2	1727	G
1	A2	1729	C
1	A2	1731	A
1	A2	1759	C
1	A2	1760	G
1	A2	1761	U
1	A2	1762	A
1	A2	1766	A
1	A2	1768	G
1	A2	1769	U
1	A2	1770	U
1	A2	1780	G
1	A2	1782	A
1	A2	1783	C
1	A2	1789	G
1	A2	1792	G
1	A2	1793	G
1	A2	1794	A
1	A2	1795	U
1	A2	1796	C
36	A1	13	A
36	A1	14	U
36	A1	16	A
36	A1	26	A
36	A1	40	A
36	A1	42	C
36	A1	43	A
36	A1	44	U
36	A1	49	A
36	A1	59	G
36	A1	60	A
36	A1	65	A
36	A1	66	A
36	A1	68	C
36	A1	74	G
36	A1	75	G
36	A1	76	G
36	A1	83	U
36	A1	92	G

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Mol	Chain	Res	Type
36	A1	93	C
36	A1	99	A
36	A1	109	A
36	A1	110	G
36	A1	113	C
36	A1	121	A
36	A1	122	A
36	A1	133	U
36	A1	135	C
36	A1	136	G
36	A1	147	U
36	A1	154	U
36	A1	156	G
36	A1	157	A
36	A1	161	G
36	A1	166	C
36	A1	169	U
36	A1	170	G
36	A1	173	G
36	A1	182	U
36	A1	187	A
36	A1	190	U
36	A1	191	U
36	A1	192	C
36	A1	210	U
36	A1	214	G
36	A1	218	G
36	A1	219	A
36	A1	224	C
36	A1	234	G
36	A1	235	A
36	A1	238	A
36	A1	240	U
36	A1	241	G
36	A1	243	G
36	A1	244	G
36	A1	245	U
36	A1	249	U
36	A1	250	U
36	A1	251	G
36	A1	252	U
36	A1	263	C

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Mol	Chain	Res	Type
36	A1	265	A
36	A1	269	G
36	A1	282	G
36	A1	283	G
36	A1	286	U
36	A1	295	A
36	A1	296	A
36	A1	298	U
36	A1	301	G
36	A1	305	U
36	A1	307	A
36	A1	318	A
36	A1	323	A
36	A1	329	U
36	A1	338	A
36	A1	339	C
36	A1	349	A
36	A1	350	C
36	A1	351	A
36	A1	352	A
36	A1	370	U
36	A1	373	A
36	A1	376	G
36	A1	395	A
36	A1	397	A
36	A1	398	A
36	A1	399	A
36	A1	401	U
36	A1	402	A
36	A1	403	C
36	A1	421	G
36	A1	422	A
36	A1	439	C
36	A1	440	A
36	A1	495	G
36	A1	517	G
36	A1	518	G
36	A1	520	U
36	A1	521	A
36	A1	531	G
36	A1	535	G
36	A1	544	C

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Mol	Chain	Res	Type
36	A1	546	C
36	A1	547	G
36	A1	548	G
36	A1	549	U
36	A1	550	A
36	A1	551	A
36	A1	552	G
36	A1	555	U
36	A1	556	U
36	A1	557	A
36	A1	558	U
36	A1	559	A
36	A1	578	A
36	A1	579	G
36	A1	585	A
36	A1	588	G
36	A1	589	A
36	A1	592	A
36	A1	600	G
36	A1	601	U
36	A1	603	A
36	A1	604	G
36	A1	609	G
36	A1	611	A
36	A1	619	A
36	A1	620	U
36	A1	621	A
36	A1	622	A
36	A1	625	G
36	A1	636	C
36	A1	637	C
36	A1	638	C
36	A1	649	A
36	A1	656	A
36	A1	660	A
36	A1	677	A
36	A1	681	U
36	A1	683	U
36	A1	691	A
36	A1	705	A
36	A1	708	G
36	A1	712	G

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Mol	Chain	Res	Type
36	A1	715	A
36	A1	716	A
36	A1	719	U
36	A1	720	A
36	A1	725	G
36	A1	726	G
36	A1	727	G
36	A1	733	G
36	A1	758	C
36	A1	764	U
36	A1	765	C
36	A1	766	U
36	A1	767	U
36	A1	768	C
36	A1	776	U
36	A1	777	U
36	A1	781	G
36	A1	785	G
36	A1	786	A
36	A1	801	A
36	A1	806	A
36	A1	807	A
36	A1	816	A
36	A1	817	A
36	A1	830	A
36	A1	849	C
36	A1	861	C
36	A1	871	U
36	A1	874	U
36	A1	879	U
36	A1	883	A
36	A1	896	A
36	A1	897	U
36	A1	907	G
36	A1	908	G
36	A1	914	A
36	A1	916	G
36	A1	917	A
36	A1	921	A
36	A1	923	C
36	A1	924	G
36	A1	925	A

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Mol	Chain	Res	Type
36	A1	937	G
36	A1	944	C
36	A1	947	G
36	A1	959	C
36	A1	960	U
36	A1	974	G
36	A1	979	U
36	A1	980	A
36	A1	981	U
36	A1	982	C
36	A1	989	A
36	A1	993	G
36	A1	994	G
36	A1	1001	G
36	A1	1002	A
36	A1	1003	A
36	A1	1006	A
36	A1	1010	G
36	A1	1014	U
36	A1	1015	U
36	A1	1016	C
36	A1	1017	C
36	A1	1018	G
36	A1	1020	G
36	A1	1021	G
36	A1	1024	G
36	A1	1025	A
36	A1	1029	G
36	A1	1032	C
36	A1	1036	A
36	A1	1037	C
36	A1	1047	A
36	A1	1049	C
36	A1	1052	U
36	A1	1057	A
36	A1	1064	A
36	A1	1065	A
36	A1	1071	U
36	A1	1072	G
36	A1	1079	A
36	A1	1081	U
36	A1	1082	U

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Mol	Chain	Res	Type
36	A1	1083	G
36	A1	1087	G
36	A1	1093	A
36	A1	1094	U
36	A1	1095	U
36	A1	1096	U
36	A1	1097	G
36	A1	1098	A
36	A1	1103	A
36	A1	1104	G
36	A1	1117	G
36	A1	1131	G
36	A1	1153	A
36	A1	1159	A
36	A1	1180	A
36	A1	1181	U
36	A1	1182	A
36	A1	1185	C
36	A1	1191	U
36	A1	1192	C
36	A1	1201	C
36	A1	1202	A
36	A1	1209	G
36	A1	1212	A
36	A1	1213	G
36	A1	1216	C
36	A1	1218	U
36	A1	1222	G
36	A1	1225	A
36	A1	1227	C
36	A1	1232	C
36	A1	1233	G
36	A1	1234	G
36	A1	1236	G
36	A1	1237	G
36	A1	1239	C
36	A1	1241	U
36	A1	1242	G
36	A1	1243	G
36	A1	1245	A
36	A1	1246	G
36	A1	1248	C

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Mol	Chain	Res	Type
36	A1	1249	G
36	A1	1251	A
36	A1	1258	U
36	A1	1262	G
36	A1	1263	A
36	A1	1264	G
36	A1	1265	U
36	A1	1266	G
36	A1	1267	U
36	A1	1269	U
36	A1	1270	A
36	A1	1271	A
36	A1	1272	C
36	A1	1274	A
36	A1	1277	C
36	A1	1278	A
36	A1	1279	C
36	A1	1280	C
36	A1	1281	G
36	A1	1285	G
36	A1	1287	A
36	A1	1292	C
36	A1	1307	G
36	A1	1308	A
36	A1	1309	U
36	A1	1312	C
36	A1	1313	G
36	A1	1325	U
36	A1	1329	U
36	A1	1330	A
36	A1	1331	U
36	A1	1332	A
36	A1	1345	G
36	A1	1348	U
36	A1	1349	G
36	A1	1351	U
36	A1	1352	A
36	A1	1353	U
36	A1	1355	A
36	A1	1356	U
36	A1	1357	G
36	A1	1366	A

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Mol	Chain	Res	Type
36	A1	1386	A
36	A1	1399	A
36	A1	1400	G
36	A1	1401	A
36	A1	1414	G
36	A1	1418	A
36	A1	1419	A
36	A1	1428	A
36	A1	1434	G
36	A1	1437	C
36	A1	1440	G
36	A1	1443	G
36	A1	1446	A
36	A1	1449	A
36	A1	1450	G
36	A1	1454	A
36	A1	1478	C
36	A1	1481	A
36	A1	1482	A
36	A1	1484	U
36	A1	1485	G
36	A1	1488	G
36	A1	1507	G
36	A1	1508	C
36	A1	1526	U
36	A1	1527	C
36	A1	1528	G
36	A1	1529	A
36	A1	1549	U
36	A1	1555	U
36	A1	1556	C
36	A1	1557	A
36	A1	1558	A
36	A1	1560	G
36	A1	1561	G
36	A1	1562	C
36	A1	1563	C
36	A1	1564	U
36	A1	1566	A
36	A1	1567	U
36	A1	1568	U
36	A1	1569	U

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Mol	Chain	Res	Type
36	A1	1570	U
36	A1	1572	U
36	A1	1575	A
36	A1	1576	G
36	A1	1577	G
36	A1	1579	C
36	A1	1581	C
36	A1	1582	C
36	A1	1583	A
36	A1	1587	A
36	A1	1589	A
36	A1	1593	A
36	A1	1607	U
36	A1	1608	C
36	A1	1620	U
36	A1	1629	U
36	A1	1643	A
36	A1	1645	U
36	A1	1655	G
36	A1	1657	C
36	A1	1683	A
36	A1	1705	U
36	A1	1716	U
36	A1	1717	U
36	A1	1724	U
36	A1	1725	C
36	A1	1736	G
36	A1	1742	U
36	A1	1746	U
36	A1	1750	A
36	A1	1751	G
36	A1	1752	A
36	A1	1760	A
36	A1	1761	C
36	A1	1762	C
36	A1	1765	U
36	A1	1766	G
36	A1	1767	C
36	A1	1770	G
36	A1	1779	C
36	A1	1780	G
36	A1	1781	C

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Mol	Chain	Res	Type
36	A1	1797	A
36	A1	1806	A
36	A1	1807	G
36	A1	1809	A
36	A1	1810	A
36	A1	1812	G
36	A1	1814	A
36	A1	1816	A
36	A1	1817	G
36	A1	1818	U
36	A1	1819	U
36	A1	1820	U
36	A1	1821	U
36	A1	1834	U
36	A1	1835	A
36	A1	1836	C
36	A1	1839	A
36	A1	1840	U
36	A1	1841	A
36	A1	1842	A
36	A1	1845	G
36	A1	1846	C
36	A1	1849	C
36	A1	1850	A
36	A1	1855	U
36	A1	1876	U
36	A1	1879	A
36	A1	1880	U
36	A1	1886	A
36	A1	1901	A
36	A1	1905	G
36	A1	1906	G
36	A1	1951	C
36	A1	1952	G
36	A1	1953	G
36	A1	1954	G
36	A1	1955	U
36	A1	2094	C
36	A1	2101	C
36	A1	2102	U
36	A1	2112	U
36	A1	2113	A

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Mol	Chain	Res	Type
36	A1	2114	C
36	A1	2116	G
36	A1	2121	G
36	A1	2122	G
36	A1	2130	G
36	A1	2131	A
36	A1	2140	U
36	A1	2148	U
36	A1	2158	A
36	A1	2163	C
36	A1	2169	G
36	A1	2170	U
36	A1	2187	G
36	A1	2188	A
36	A1	2193	U
36	A1	2201	G
36	A1	2205	U
36	A1	2206	G
36	A1	2208	A
36	A1	2209	U
36	A1	2210	G
36	A1	2213	A
36	A1	2223	A
36	A1	2228	A
36	A1	2244	A
36	A1	2249	G
36	A1	2250	G
36	A1	2252	A
36	A1	2253	G
36	A1	2255	A
36	A1	2256	A
36	A1	2262	A
36	A1	2263	C
36	A1	2272	G
36	A1	2273	G
36	A1	2278	C
36	A1	2281	A
36	A1	2282	U
36	A1	2283	G
36	A1	2284	C
36	A1	2288	G
36	A1	2291	A

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Mol	Chain	Res	Type
36	A1	2293	C
36	A1	2299	A
36	A1	2304	C
36	A1	2307	G
36	A1	2310	U
36	A1	2313	A
36	A1	2314	U
36	A1	2315	G
36	A1	2319	U
36	A1	2330	C
36	A1	2336	U
36	A1	2360	C
36	A1	2373	A
36	A1	2374	C
36	A1	2375	G
36	A1	2378	C
36	A1	2385	G
36	A1	2388	U
36	A1	2393	G
36	A1	2397	A
36	A1	2398	A
36	A1	2401	A
36	A1	2402	A
36	A1	2403	G
36	A1	2404	A
36	A1	2405	C
36	A1	2406	C
36	A1	2411	U
36	A1	2418	G
36	A1	2419	A
36	A1	2435	G
36	A1	2437	G
36	A1	2443	A
36	A1	2444	C
36	A1	2445	A
36	A1	2502	A
36	A1	2503	G
36	A1	2504	U
36	A1	2505	U
36	A1	2507	C
36	A1	2511	A
36	A1	2513	U

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Mol	Chain	Res	Type
36	A1	2514	U
36	A1	2515	A
36	A1	2522	G
36	A1	2523	A
36	A1	2525	G
36	A1	2526	C
36	A1	2529	A
36	A1	2531	C
36	A1	2532	U
36	A1	2533	G
36	A1	2534	G
36	A1	2537	U
36	A1	2538	U
36	A1	2539	C
36	A1	2540	A
36	A1	2541	U
36	A1	2542	U
36	A1	2543	U
36	A1	2545	C
36	A1	2547	A
36	A1	2548	C
36	A1	2549	G
36	A1	2552	C
36	A1	2553	U
36	A1	2554	A
36	A1	2555	G
36	A1	2561	A
36	A1	2568	C
36	A1	2569	A
36	A1	2570	U
36	A1	2571	U
36	A1	2572	C
36	A1	2573	G
36	A1	2576	G
36	A1	2581	U
36	A1	2582	C
36	A1	2585	G
36	A1	2586	G
36	A1	2593	A
36	A1	2594	C
36	A1	2606	G
36	A1	2607	G

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Mol	Chain	Res	Type
36	A1	2614	G
36	A1	2626	A
36	A1	2637	A
36	A1	2652	U
36	A1	2656	A
36	A1	2672	G
36	A1	2674	A
36	A1	2677	G
36	A1	2681	U
36	A1	2689	A
36	A1	2690	G
36	A1	2691	A
36	A1	2693	C
36	A1	2694	A
36	A1	2696	A
36	A1	2699	G
36	A1	2704	A
36	A1	2705	A
36	A1	2709	C
36	A1	2714	G
36	A1	2728	G
36	A1	2729	U
36	A1	2752	U
36	A1	2753	G
36	A1	2762	A
36	A1	2771	U
36	A1	2772	C
36	A1	2773	C
36	A1	2777	G
36	A1	2778	G
36	A1	2779	A
36	A1	2796	G
36	A1	2799	A
36	A1	2800	G
36	A1	2801	A
36	A1	2810	C
36	A1	2816	G
36	A1	2817	A
36	A1	2818	U
36	A1	2819	A
36	A1	2829	U
36	A1	2842	U

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Mol	Chain	Res	Type
36	A1	2843	U
36	A1	2845	A
36	A1	2849	C
36	A1	2860	U
36	A1	2867	C
36	A1	2868	U
36	A1	2871	G
36	A1	2872	A
36	A1	2873	U
36	A1	2875	U
36	A1	2878	G
36	A1	2879	C
36	A1	2882	U
36	A1	2887	A
36	A1	2888	U
36	A1	2889	C
36	A1	2896	A
36	A1	2897	A
36	A1	2898	G
36	A1	2899	C
36	A1	2914	G
36	A1	2923	U
36	A1	2927	C
36	A1	2935	U
36	A1	2936	A
36	A1	2937	G
36	A1	2942	C
36	A1	2945	G
36	A1	2947	G
36	A1	2957	G
36	A1	2971	A
36	A1	2983	C
36	A1	2990	G
36	A1	2992	U
36	A1	2996	U
36	A1	2997	G
36	A1	3006	A
36	A1	3012	A
36	A1	3056	U
36	A1	3057	U
36	A1	3058	U
36	A1	3059	G

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Mol	Chain	Res	Type
36	A1	3078	U
36	A1	3079	U
36	A1	3086	A
36	A1	3087	A
36	A1	3092	C
36	A1	3113	A
36	A1	3119	U
36	A1	3122	A
36	A1	3130	A
36	A1	3131	U
36	A1	3139	A
36	A1	3140	G
36	A1	3142	A
36	A1	3143	C
36	A1	3151	U
36	A1	3153	U
36	A1	3154	C
36	A1	3155	U
36	A1	3156	U
36	A1	3157	U
36	A1	3164	C
36	A1	3165	A
36	A1	3168	A
36	A1	3169	U
36	A1	3170	A
36	A1	3171	U
36	A1	3173	G
36	A1	3174	A
36	A1	3176	G
36	A1	3179	U
36	A1	3181	C
36	A1	3185	U
36	A1	3187	A
36	A1	3196	U
36	A1	3197	G
36	A1	3198	U
36	A1	3199	G
36	A1	3207	U
36	A1	3208	G
36	A1	3209	A
36	A1	3210	A
36	A1	3217	C

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Mol	Chain	Res	Type
36	A1	3218	A
36	A1	3219	G
36	A1	3223	A
36	A1	3228	C
36	A1	3229	G
36	A1	3235	C
36	A1	3238	G
36	A1	3239	G
36	A1	3242	G
36	A1	3243	A
36	A1	3245	A
36	A1	3246	G
36	A1	3247	G
36	A1	3253	G
36	A1	3256	G
36	A1	3259	U
36	A1	3265	C
36	A1	3269	U
36	A1	3270	U
36	A1	3272	C
36	A1	3273	A
36	A1	3276	G
36	A1	3277	U
36	A1	3279	A
36	A1	3281	U
36	A1	3286	G
36	A1	3287	U
36	A1	3289	G
36	A1	3294	A
36	A1	3295	A
36	A1	3303	G
36	A1	3304	U
36	A1	3307	A
36	A1	3313	U
36	A1	3316	A
36	A1	3317	U
36	A1	3318	G
36	A1	3319	U
36	A1	3320	A
36	A1	3328	G
36	A1	3330	A
36	A1	3331	U

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Mol	Chain	Res	Type
36	A1	3332	U
36	A1	3333	G
36	A1	3335	A
36	A1	3336	A
36	A1	3341	U
36	A1	3342	A
36	A1	3345	G
36	A1	3347	A
36	A1	3348	G
36	A1	3349	C
36	A1	3350	C
36	A1	3351	U
36	A1	3352	U
36	A1	3353	G
36	A1	3354	U
36	A1	3355	U
36	A1	3356	G
36	A1	3369	G
36	A1	3375	A
36	A1	3376	A
36	A1	3378	C
36	A1	3382	U
36	A1	3383	G
36	A1	3389	U
36	A1	3396	U
37	A3	7	G
37	A3	13	A
37	A3	14	U
37	A3	21	G
37	A3	22	A
37	A3	26	C
37	A3	42	A
37	A3	45	A
37	A3	51	A
37	A3	53	U
37	A3	54	U
37	A3	65	G
37	A3	73	C
37	A3	74	C
37	A3	76	A
37	A3	91	G
37	A3	95	A

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Mol	Chain	Res	Type
37	A3	102	A
37	A3	103	A
37	A3	110	G
37	A3	112	G
37	A3	115	G
38	A4	34	U
38	A4	35	C
38	A4	47	C
38	A4	48	A
38	A4	51	G
38	A4	52	A
38	A4	53	A
38	A4	59	A
38	A4	62	C
38	A4	63	G
38	A4	77	A
38	A4	79	A
38	A4	80	A
38	A4	81	U
38	A4	82	U
38	A4	83	C
38	A4	84	C
38	A4	85	G
38	A4	86	U
38	A4	87	G
38	A4	90	U
38	A4	92	A
38	A4	93	U
38	A4	95	G
38	A4	104	A
38	A4	106	C
38	A4	111	A
38	A4	112	U
38	A4	113	U
38	A4	125	U
38	A4	126	A
38	A4	127	U
38	A4	128	U
38	A4	138	A
38	A4	151	C
38	A4	152	G
38	A4	155	A

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Mol	Chain	Res	Type
38	A4	157	U
38	A4	158	U
80	A6	2	A
80	A6	4	C
80	A6	13	C
80	A6	17	C
80	A6	24	U
80	A6	25	C
80	A6	26	A
80	A6	27	U
80	A6	34	G
80	A6	42	G
80	A6	47	A
80	A6	57	G
80	A6	60	U
80	A6	67	A
80	A6	68	A
80	A6	69	G
80	A6	72	A
80	A6	73	U
80	A6	74	U
80	A6	75	U
80	A6	76	A
80	A6	77	U
80	A6	101	U
80	A6	103	A
80	A6	104	A
80	A6	111	U
80	A6	114	C
80	A6	115	G
80	A6	132	U
80	A6	137	U
80	A6	138	A
80	A6	139	C
80	A6	140	A
80	A6	141	U
80	A6	144	U
80	A6	145	A
80	A6	146	U
80	A6	153	G
80	A6	158	U
80	A6	159	U

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Mol	Chain	Res	Type
80	A6	161	U
80	A6	166	C
80	A6	175	G
80	A6	178	U
80	A6	179	A
80	A6	182	A
80	A6	184	C
80	A6	185	U
80	A6	187	G
80	A6	188	A
80	A6	190	C
80	A6	191	C
80	A6	192	U
80	A6	193	U
80	A6	194	U
80	A6	195	G
80	A6	196	G
80	A6	197	A
80	A6	198	A
80	A6	199	G
80	A6	200	A
80	A6	215	A
80	A6	216	U
80	A6	217	A
80	A6	218	A
80	A6	219	A
80	A6	220	A
80	A6	221	A
80	A6	222	A
80	A6	226	A
80	A6	227	U
80	A6	228	G
80	A6	229	U
80	A6	230	C
80	A6	231	U
80	A6	232	U
80	A6	233	C
80	A6	234	G
80	A6	235	G
80	A6	238	U
80	A6	240	U
80	A6	241	U

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Mol	Chain	Res	Type
80	A6	249	U
80	A6	250	C
80	A6	260	U
80	A6	261	U
80	A6	262	U
80	A6	265	A
80	A6	268	C
80	A6	271	A
80	A6	272	U
80	A6	273	G
80	A6	275	C
80	A6	277	U
80	A6	278	U
80	A6	280	U
80	A6	281	G
80	A6	283	U
80	A6	287	G
80	A6	299	A
80	A6	301	A
80	A6	308	C
80	A6	314	C
80	A6	316	A
80	A6	319	U
80	A6	320	U
80	A6	321	C
80	A6	322	G
80	A6	323	A
80	A6	325	G
80	A6	337	G
80	A6	338	C
80	A6	341	A
80	A6	352	A
80	A6	353	A
80	A6	359	A
80	A6	360	A
80	A6	361	C
80	A6	381	C
80	A6	393	C
80	A6	396	G
80	A6	400	A
80	A6	401	A
80	A6	402	C

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Mol	Chain	Res	Type
80	A6	404	G
80	A6	416	A
80	A6	417	A
80	A6	418	G
80	A6	424	C
80	A6	425	A
80	A6	426	G
80	A6	434	G
80	A6	439	U
80	A6	444	C
80	A6	446	A
80	A6	448	C
80	A6	454	U
80	A6	464	A
80	A6	468	A
80	A6	469	C
80	A6	470	A
80	A6	475	A
80	A6	477	A
80	A6	480	G
80	A6	484	C
80	A6	486	G
80	A6	487	G
80	A6	488	G
80	A6	489	C
80	A6	490	C
80	A6	492	A
80	A6	493	U
80	A6	494	U
80	A6	495	C
80	A6	496	G
80	A6	497	G
80	A6	500	C
80	A6	501	U
80	A6	503	G
80	A6	504	U
80	A6	505	A
80	A6	506	A
80	A6	508	U
80	A6	510	G
80	A6	511	A
80	A6	512	A

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Mol	Chain	Res	Type
80	A6	513	U
80	A6	515	A
80	A6	519	C
80	A6	527	A
80	A6	532	U
80	A6	535	A
80	A6	538	A
80	A6	539	G
80	A6	540	G
80	A6	541	A
80	A6	542	A
80	A6	543	C
80	A6	544	A
80	A6	548	G
80	A6	555	A
80	A6	556	A
80	A6	557	G
80	A6	558	U
80	A6	559	C
80	A6	565	C
80	A6	566	C
80	A6	570	A
80	A6	574	G
80	A6	578	U
80	A6	579	A
80	A6	580	A
80	A6	582	U
80	A6	594	A
80	A6	595	G
80	A6	597	G
80	A6	609	U
80	A6	610	G
80	A6	617	U
80	A6	619	A
80	A6	620	A
80	A6	621	A
80	A6	622	A
80	A6	623	A
80	A6	630	A
80	A6	637	C
80	A6	639	U
80	A6	640	U

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Mol	Chain	Res	Type
80	A6	645	C
80	A6	648	G
80	A6	651	G
80	A6	652	G
80	A6	653	C
80	A6	654	C
80	A6	655	G
80	A6	658	C
80	A6	676	G
80	A6	678	A
80	A6	679	U
80	A6	680	U
80	A6	681	U
80	A6	682	C
80	A6	683	C
80	A6	684	A
80	A6	688	G
80	A6	691	C
80	A6	695	U
80	A6	696	C
80	A6	697	C
80	A6	698	U
80	A6	706	A
80	A6	710	U
80	A6	711	U
80	A6	714	G
80	A6	718	U
80	A6	719	U
80	A6	720	G
80	A6	721	U
80	A6	722	G
80	A6	723	G
80	A6	726	C
80	A6	730	G
80	A6	733	A
80	A6	734	A
80	A6	735	C
80	A6	742	U
80	A6	747	C
80	A6	751	G
80	A6	753	A
80	A6	754	A

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Mol	Chain	Res	Type
80	A6	755	A
80	A6	756	A
80	A6	765	G
80	A6	766	U
80	A6	774	A
80	A6	775	G
80	A6	780	A
80	A6	781	U
80	A6	782	U
80	A6	783	G
80	A6	787	G
80	A6	789	A
80	A6	792	U
80	A6	793	A
80	A6	794	U
80	A6	806	A
80	A6	811	A
80	A6	812	A
80	A6	815	G
80	A6	816	G
80	A6	821	U
80	A6	823	G
80	A6	825	U
80	A6	826	U
80	A6	829	A
80	A6	830	U
80	A6	831	U
80	A6	832	U
80	A6	834	G
80	A6	835	U
80	A6	841	U
80	A6	850	A
80	A6	856	A
80	A6	863	A
80	A6	876	G
80	A6	886	U
80	A6	898	A
80	A6	913	G
80	A6	914	G
80	A6	916	U
80	A6	926	A
80	A6	928	U

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Mol	Chain	Res	Type
80	A6	933	A
80	A6	935	U
80	A6	942	G
80	A6	949	C
80	A6	959	U
80	A6	960	U
80	A6	966	A
80	A6	967	A
80	A6	968	U
80	A6	969	C
80	A6	970	A
80	A6	971	A
80	A6	976	G
80	A6	991	G
80	A6	992	A
80	A6	993	A
80	A6	997	G
80	A6	1004	U
80	A6	1005	A
80	A6	1021	C
80	A6	1026	A
80	A6	1028	C
80	A6	1031	U
80	A6	1039	A
80	A6	1040	G
80	A6	1042	G
80	A6	1052	U
80	A6	1053	G
80	A6	1057	U
80	A6	1058	U
80	A6	1059	U
80	A6	1060	U
80	A6	1061	A
80	A6	1062	A
80	A6	1063	U
80	A6	1066	C
80	A6	1067	C
80	A6	1074	G
80	A6	1082	C
80	A6	1083	G
80	A6	1091	A
80	A6	1092	A

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Mol	Chain	Res	Type
80	A6	1096	C
80	A6	1097	U
80	A6	1098	U
80	A6	1099	U
80	A6	1100	G
80	A6	1101	G
80	A6	1109	G
80	A6	1138	A
80	A6	1139	A
80	A6	1151	A
80	A6	1154	G
80	A6	1158	C
80	A6	1159	C
80	A6	1160	A
80	A6	1162	C
80	A6	1167	G
80	A6	1185	U
80	A6	1193	A
80	A6	1194	A
80	A6	1196	A
80	A6	1197	C
80	A6	1199	G
80	A6	1200	G
80	A6	1202	A
80	A6	1203	A
80	A6	1208	A
80	A6	1217	A
80	A6	1218	G
80	A6	1220	C
80	A6	1221	A
80	A6	1225	U
80	A6	1226	A
80	A6	1228	G
80	A6	1229	G
80	A6	1230	A
80	A6	1231	U
80	A6	1234	A
80	A6	1239	U
80	A6	1240	U
80	A6	1241	G
80	A6	1242	A
80	A6	1243	G

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Mol	Chain	Res	Type
80	A6	1244	A
80	A6	1245	G
80	A6	1246	C
80	A6	1255	G
80	A6	1256	A
80	A6	1257	U
80	A6	1258	U
80	A6	1261	G
80	A6	1262	U
80	A6	1285	U
80	A6	1286	U
80	A6	1288	G
80	A6	1314	U
80	A6	1315	U
80	A6	1316	G
80	A6	1321	A
80	A6	1329	A
80	A6	1331	A
80	A6	1343	U
80	A6	1344	A
80	A6	1345	A
80	A6	1346	A
80	A6	1354	G
80	A6	1361	U
80	A6	1363	U
80	A6	1364	G
80	A6	1371	A
80	A6	1372	U
80	A6	1373	C
80	A6	1379	C
80	A6	1390	U
80	A6	1398	U
80	A6	1399	C
80	A6	1400	A
80	A6	1402	G
80	A6	1413	U
80	A6	1414	U
80	A6	1415	U
80	A6	1425	A
80	A6	1427	A
80	A6	1428	G
80	A6	1429	G

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Mol	Chain	Res	Type
80	A6	1433	G
80	A6	1445	G
80	A6	1446	A
80	A6	1448	G
80	A6	1449	U
80	A6	1457	C
80	A6	1458	G
80	A6	1459	C
80	A6	1461	C
80	A6	1471	A
80	A6	1481	C
80	A6	1482	C
80	A6	1486	G
80	A6	1489	U
80	A6	1490	C
80	A6	1491	U
80	A6	1492	A
80	A6	1493	A
80	A6	1494	C
80	A6	1496	U
80	A6	1497	U
80	A6	1506	G
80	A6	1514	U
80	A6	1515	A
80	A6	1516	A
80	A6	1517	U
80	A6	1521	G
80	A6	1523	G
80	A6	1524	A
80	A6	1531	G
80	A6	1535	U
80	A6	1536	G
80	A6	1537	C
80	A6	1538	U
80	A6	1539	G
80	A6	1540	G
80	A6	1554	U
80	A6	1555	A
80	A6	1557	U
80	A6	1559	A
80	A6	1568	C
80	A6	1569	A

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Mol	Chain	Res	Type
80	A6	1572	G
80	A6	1573	A
80	A6	1574	G
80	A6	1575	G
80	A6	1582	U
80	A6	1584	G
80	A6	1596	C
80	A6	1601	G
80	A6	1616	G
80	A6	1621	U
80	A6	1634	C
80	A6	1635	A
80	A6	1637	C
80	A6	1638	G
80	A6	1657	U
80	A6	1658	G
80	A6	1665	U
80	A6	1710	U
80	A6	1712	A
80	A6	1715	G
80	A6	1716	C
80	A6	1717	G
80	A6	1723	U
80	A6	1727	G
80	A6	1731	A
80	A6	1736	G
80	A6	1755	A
80	A6	1759	C
80	A6	1760	G
80	A6	1766	A
80	A6	1767	G
80	A6	1769	U
80	A6	1770	U
80	A6	1779	U
80	A6	1780	G
80	A6	1782	A
80	A6	1783	C
80	A6	1784	C
80	A6	1789	G
80	A6	1792	G
80	A6	1793	G
80	A6	1794	A

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Mol	Chain	Res	Type
80	A6	1795	U
80	A6	1796	C
80	A6	1799	U
80	A6	1800	A
36	A5	14	U
36	A5	15	C
36	A5	16	A
36	A5	26	A
36	A5	38	U
36	A5	40	A
36	A5	43	A
36	A5	44	U
36	A5	49	A
36	A5	60	A
36	A5	65	A
36	A5	66	A
36	A5	74	G
36	A5	76	G
36	A5	77	A
36	A5	92	G
36	A5	93	C
36	A5	94	G
36	A5	96	G
36	A5	99	A
36	A5	109	A
36	A5	110	G
36	A5	111	C
36	A5	116	A
36	A5	121	A
36	A5	122	A
36	A5	133	U
36	A5	134	U
36	A5	135	C
36	A5	136	G
36	A5	146	U
36	A5	150	A
36	A5	152	U
36	A5	156	G
36	A5	157	A
36	A5	160	G
36	A5	166	C
36	A5	170	G

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Mol	Chain	Res	Type
36	A5	171	G
36	A5	174	C
36	A5	178	U
36	A5	180	C
36	A5	182	U
36	A5	183	G
36	A5	184	U
36	A5	187	A
36	A5	190	U
36	A5	191	U
36	A5	200	C
36	A5	201	A
36	A5	210	U
36	A5	218	G
36	A5	219	A
36	A5	221	A
36	A5	235	A
36	A5	236	G
36	A5	238	A
36	A5	239	G
36	A5	240	U
36	A5	242	C
36	A5	244	G
36	A5	248	U
36	A5	249	U
36	A5	250	U
36	A5	251	G
36	A5	252	U
36	A5	253	A
36	A5	254	A
36	A5	258	G
36	A5	259	C
36	A5	269	G
36	A5	283	G
36	A5	284	A
36	A5	286	U
36	A5	294	U
36	A5	295	A
36	A5	305	U
36	A5	322	U
36	A5	323	A
36	A5	329	U

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Mol	Chain	Res	Type
36	A5	334	A
36	A5	339	C
36	A5	349	A
36	A5	350	C
36	A5	351	A
36	A5	352	A
36	A5	370	U
36	A5	376	G
36	A5	390	G
36	A5	395	A
36	A5	397	A
36	A5	398	A
36	A5	399	A
36	A5	401	U
36	A5	402	A
36	A5	403	C
36	A5	421	G
36	A5	422	A
36	A5	436	A
36	A5	437	G
36	A5	438	A
36	A5	439	C
36	A5	440	A
36	A5	441	U
36	A5	442	G
36	A5	443	G
36	A5	492	U
36	A5	493	G
36	A5	495	G
36	A5	520	U
36	A5	521	A
36	A5	531	G
36	A5	535	G
36	A5	538	G
36	A5	546	C
36	A5	547	G
36	A5	548	G
36	A5	551	A
36	A5	553	U
36	A5	555	U
36	A5	557	A
36	A5	559	A

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Mol	Chain	Res	Type
36	A5	578	A
36	A5	579	G
36	A5	588	G
36	A5	589	A
36	A5	592	A
36	A5	594	U
36	A5	595	G
36	A5	600	G
36	A5	604	G
36	A5	609	G
36	A5	610	G
36	A5	611	A
36	A5	612	U
36	A5	619	A
36	A5	620	U
36	A5	621	A
36	A5	630	A
36	A5	636	C
36	A5	649	A
36	A5	653	A
36	A5	656	A
36	A5	660	A
36	A5	675	C
36	A5	677	A
36	A5	681	U
36	A5	705	A
36	A5	708	G
36	A5	712	G
36	A5	715	A
36	A5	716	A
36	A5	719	U
36	A5	720	A
36	A5	725	G
36	A5	726	G
36	A5	727	G
36	A5	735	A
36	A5	736	A
36	A5	750	G
36	A5	758	C
36	A5	766	U
36	A5	767	U
36	A5	768	C

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Mol	Chain	Res	Type
36	A5	776	U
36	A5	777	U
36	A5	780	A
36	A5	781	G
36	A5	785	G
36	A5	786	A
36	A5	787	G
36	A5	806	A
36	A5	809	G
36	A5	817	A
36	A5	830	A
36	A5	846	A
36	A5	851	C
36	A5	861	C
36	A5	862	U
36	A5	871	U
36	A5	874	U
36	A5	879	U
36	A5	891	G
36	A5	893	C
36	A5	896	A
36	A5	897	U
36	A5	907	G
36	A5	908	G
36	A5	914	A
36	A5	916	G
36	A5	917	A
36	A5	921	A
36	A5	923	C
36	A5	924	G
36	A5	937	G
36	A5	944	C
36	A5	946	U
36	A5	947	G
36	A5	958	C
36	A5	959	C
36	A5	960	U
36	A5	974	G
36	A5	979	U
36	A5	980	A
36	A5	981	U
36	A5	983	A

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Mol	Chain	Res	Type
36	A5	993	G
36	A5	994	G
36	A5	1000	C
36	A5	1001	G
36	A5	1002	A
36	A5	1003	A
36	A5	1010	G
36	A5	1014	U
36	A5	1015	U
36	A5	1016	C
36	A5	1017	C
36	A5	1018	G
36	A5	1020	G
36	A5	1021	G
36	A5	1023	C
36	A5	1024	G
36	A5	1025	A
36	A5	1026	A
36	A5	1027	A
36	A5	1028	U
36	A5	1029	G
36	A5	1032	C
36	A5	1034	U
36	A5	1035	G
36	A5	1047	A
36	A5	1049	C
36	A5	1057	A
36	A5	1064	A
36	A5	1065	A
36	A5	1071	U
36	A5	1072	G
36	A5	1081	U
36	A5	1082	U
36	A5	1085	A
36	A5	1086	C
36	A5	1093	A
36	A5	1094	U
36	A5	1095	U
36	A5	1096	U
36	A5	1097	G
36	A5	1098	A
36	A5	1103	A

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Mol	Chain	Res	Type
36	A5	1104	G
36	A5	1117	G
36	A5	1131	G
36	A5	1153	A
36	A5	1159	A
36	A5	1160	C
36	A5	1174	G
36	A5	1178	G
36	A5	1179	A
36	A5	1180	A
36	A5	1181	U
36	A5	1182	A
36	A5	1191	U
36	A5	1192	C
36	A5	1193	A
36	A5	1201	C
36	A5	1209	G
36	A5	1213	G
36	A5	1222	G
36	A5	1223	A
36	A5	1232	C
36	A5	1233	G
36	A5	1236	G
36	A5	1237	G
36	A5	1239	C
36	A5	1240	A
36	A5	1241	U
36	A5	1242	G
36	A5	1243	G
36	A5	1245	A
36	A5	1246	G
36	A5	1248	C
36	A5	1258	U
36	A5	1259	A
36	A5	1262	G
36	A5	1263	A
36	A5	1264	G
36	A5	1265	U
36	A5	1266	G
36	A5	1270	A
36	A5	1281	G
36	A5	1285	G

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Mol	Chain	Res	Type
36	A5	1294	A
36	A5	1307	G
36	A5	1308	A
36	A5	1309	U
36	A5	1312	C
36	A5	1317	A
36	A5	1318	A
36	A5	1330	A
36	A5	1331	U
36	A5	1332	A
36	A5	1348	U
36	A5	1349	G
36	A5	1350	A
36	A5	1351	U
36	A5	1352	A
36	A5	1353	U
36	A5	1354	G
36	A5	1355	A
36	A5	1356	U
36	A5	1357	G
36	A5	1366	A
36	A5	1385	C
36	A5	1386	A
36	A5	1387	G
36	A5	1399	A
36	A5	1400	G
36	A5	1403	C
36	A5	1419	A
36	A5	1422	G
36	A5	1428	A
36	A5	1434	G
36	A5	1435	A
36	A5	1437	C
36	A5	1440	G
36	A5	1446	A
36	A5	1450	G
36	A5	1460	A
36	A5	1481	A
36	A5	1482	A
36	A5	1490	A
36	A5	1495	U
36	A5	1502	C

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Mol	Chain	Res	Type
36	A5	1503	A
36	A5	1508	C
36	A5	1527	C
36	A5	1541	G
36	A5	1542	G
36	A5	1549	U
36	A5	1554	U
36	A5	1555	U
36	A5	1556	C
36	A5	1557	A
36	A5	1560	G
36	A5	1561	G
36	A5	1562	C
36	A5	1563	C
36	A5	1565	G
36	A5	1566	A
36	A5	1567	U
36	A5	1568	U
36	A5	1569	U
36	A5	1570	U
36	A5	1571	A
36	A5	1572	U
36	A5	1574	C
36	A5	1575	A
36	A5	1576	G
36	A5	1577	G
36	A5	1578	C
36	A5	1580	A
36	A5	1581	C
36	A5	1582	C
36	A5	1583	A
36	A5	1587	A
36	A5	1589	A
36	A5	1593	A
36	A5	1605	A
36	A5	1607	U
36	A5	1608	C
36	A5	1620	U
36	A5	1629	U
36	A5	1633	C
36	A5	1635	G
36	A5	1639	C

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Mol	Chain	Res	Type
36	A5	1641	U
36	A5	1643	A
36	A5	1644	C
36	A5	1645	U
36	A5	1655	G
36	A5	1657	C
36	A5	1680	G
36	A5	1683	A
36	A5	1716	U
36	A5	1717	U
36	A5	1718	G
36	A5	1724	U
36	A5	1725	C
36	A5	1736	G
36	A5	1750	A
36	A5	1751	G
36	A5	1754	G
36	A5	1758	G
36	A5	1760	A
36	A5	1762	C
36	A5	1764	U
36	A5	1765	U
36	A5	1766	G
36	A5	1767	C
36	A5	1770	G
36	A5	1778	G
36	A5	1780	G
36	A5	1783	U
36	A5	1797	A
36	A5	1810	A
36	A5	1812	G
36	A5	1814	A
36	A5	1815	U
36	A5	1816	A
36	A5	1817	G
36	A5	1818	U
36	A5	1820	U
36	A5	1821	U
36	A5	1835	A
36	A5	1841	A
36	A5	1842	A
36	A5	1846	C

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Mol	Chain	Res	Type
36	A5	1849	C
36	A5	1850	A
36	A5	1855	U
36	A5	1871	U
36	A5	1876	U
36	A5	1878	G
36	A5	1879	A
36	A5	1880	U
36	A5	1905	G
36	A5	1906	G
36	A5	1909	A
36	A5	1918	C
36	A5	1927	G
36	A5	1940	G
36	A5	1953	G
36	A5	2100	A
36	A5	2101	C
36	A5	2102	U
36	A5	2112	U
36	A5	2113	A
36	A5	2114	C
36	A5	2121	G
36	A5	2122	G
36	A5	2128	C
36	A5	2131	A
36	A5	2134	G
36	A5	2139	A
36	A5	2144	A
36	A5	2158	A
36	A5	2169	G
36	A5	2170	U
36	A5	2171	G
36	A5	2192	C
36	A5	2201	G
36	A5	2205	U
36	A5	2210	G
36	A5	2213	A
36	A5	2222	A
36	A5	2223	A
36	A5	2228	A
36	A5	2229	A
36	A5	2244	A

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Mol	Chain	Res	Type
36	A5	2250	G
36	A5	2253	G
36	A5	2255	A
36	A5	2256	A
36	A5	2257	C
36	A5	2258	U
36	A5	2264	U
36	A5	2270	A
36	A5	2273	G
36	A5	2276	G
36	A5	2278	C
36	A5	2279	A
36	A5	2288	G
36	A5	2290	C
36	A5	2294	U
36	A5	2298	U
36	A5	2307	G
36	A5	2310	U
36	A5	2313	A
36	A5	2315	G
36	A5	2324	A
36	A5	2329	C
36	A5	2334	U
36	A5	2335	G
36	A5	2336	U
36	A5	2373	A
36	A5	2374	C
36	A5	2375	G
36	A5	2377	G
36	A5	2385	G
36	A5	2388	U
36	A5	2393	G
36	A5	2394	G
36	A5	2396	G
36	A5	2397	A
36	A5	2398	A
36	A5	2400	G
36	A5	2401	A
36	A5	2402	A
36	A5	2403	G
36	A5	2404	A
36	A5	2405	C

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Mol	Chain	Res	Type
36	A5	2406	C
36	A5	2411	U
36	A5	2418	G
36	A5	2435	G
36	A5	2436	U
36	A5	2437	G
36	A5	2438	A
36	A5	2439	A
36	A5	2440	G
36	A5	2441	A
36	A5	2443	A
36	A5	2504	U
36	A5	2505	U
36	A5	2506	U
36	A5	2507	C
36	A5	2508	U
36	A5	2510	U
36	A5	2511	A
36	A5	2512	C
36	A5	2513	U
36	A5	2514	U
36	A5	2515	A
36	A5	2518	C
36	A5	2523	A
36	A5	2524	A
36	A5	2526	C
36	A5	2530	G
36	A5	2531	C
36	A5	2532	U
36	A5	2534	G
36	A5	2538	U
36	A5	2539	C
36	A5	2540	A
36	A5	2543	U
36	A5	2544	U
36	A5	2549	G
36	A5	2552	C
36	A5	2555	G
36	A5	2562	A
36	A5	2567	C
36	A5	2568	C
36	A5	2569	A

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Mol	Chain	Res	Type
36	A5	2570	U
36	A5	2571	U
36	A5	2572	C
36	A5	2573	G
36	A5	2574	G
36	A5	2584	G
36	A5	2585	G
36	A5	2589	G
36	A5	2590	A
36	A5	2591	A
36	A5	2593	A
36	A5	2594	C
36	A5	2598	G
36	A5	2599	U
36	A5	2606	G
36	A5	2607	G
36	A5	2610	G
36	A5	2614	G
36	A5	2615	G
36	A5	2622	C
36	A5	2637	A
36	A5	2639	G
36	A5	2652	U
36	A5	2656	A
36	A5	2662	G
36	A5	2663	G
36	A5	2667	A
36	A5	2674	A
36	A5	2677	G
36	A5	2678	A
36	A5	2681	U
36	A5	2683	U
36	A5	2689	A
36	A5	2691	A
36	A5	2694	A
36	A5	2696	A
36	A5	2714	G
36	A5	2723	U
36	A5	2728	G
36	A5	2729	U
36	A5	2752	U
36	A5	2753	G

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Mol	Chain	Res	Type
36	A5	2762	A
36	A5	2771	U
36	A5	2772	C
36	A5	2773	C
36	A5	2776	C
36	A5	2777	G
36	A5	2778	G
36	A5	2779	A
36	A5	2796	G
36	A5	2799	A
36	A5	2800	G
36	A5	2801	A
36	A5	2810	C
36	A5	2817	A
36	A5	2818	U
36	A5	2819	A
36	A5	2822	U
36	A5	2829	U
36	A5	2839	G
36	A5	2844	C
36	A5	2845	A
36	A5	2853	A
36	A5	2871	G
36	A5	2872	A
36	A5	2873	U
36	A5	2875	U
36	A5	2887	A
36	A5	2888	U
36	A5	2889	C
36	A5	2896	A
36	A5	2897	A
36	A5	2898	G
36	A5	2899	C
36	A5	2904	U
36	A5	2910	A
36	A5	2923	U
36	A5	2928	C
36	A5	2935	U
36	A5	2936	A
36	A5	2941	A
36	A5	2942	C
36	A5	2945	G

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Mol	Chain	Res	Type
36	A5	2947	G
36	A5	2954	U
36	A5	2957	G
36	A5	2970	C
36	A5	2971	A
36	A5	2972	G
36	A5	2979	U
36	A5	2983	C
36	A5	2987	A
36	A5	2990	G
36	A5	2996	U
36	A5	2997	G
36	A5	3012	A
36	A5	3028	G
36	A5	3050	U
36	A5	3056	U
36	A5	3057	U
36	A5	3059	G
36	A5	3078	U
36	A5	3079	U
36	A5	3080	G
36	A5	3086	A
36	A5	3087	A
36	A5	3092	C
36	A5	3130	A
36	A5	3131	U
36	A5	3139	A
36	A5	3142	A
36	A5	3143	C
36	A5	3148	U
36	A5	3153	U
36	A5	3154	C
36	A5	3155	U
36	A5	3156	U
36	A5	3157	U
36	A5	3158	G
36	A5	3159	C
36	A5	3164	C
36	A5	3165	A
36	A5	3166	C
36	A5	3168	A
36	A5	3171	U

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Mol	Chain	Res	Type
36	A5	3172	A
36	A5	3173	G
36	A5	3174	A
36	A5	3175	U
36	A5	3176	G
36	A5	3177	G
36	A5	3179	U
36	A5	3180	A
36	A5	3181	C
36	A5	3187	A
36	A5	3195	U
36	A5	3196	U
36	A5	3207	U
36	A5	3217	C
36	A5	3218	A
36	A5	3219	G
36	A5	3222	U
36	A5	3223	A
36	A5	3224	G
36	A5	3227	A
36	A5	3229	G
36	A5	3238	G
36	A5	3245	A
36	A5	3246	G
36	A5	3247	G
36	A5	3251	U
36	A5	3253	G
36	A5	3259	U
36	A5	3260	G
36	A5	3269	U
36	A5	3270	U
36	A5	3273	A
36	A5	3275	U
36	A5	3276	G
36	A5	3277	U
36	A5	3279	A
36	A5	3280	U
36	A5	3282	U
36	A5	3284	G
36	A5	3285	C
36	A5	3286	G
36	A5	3288	G

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Mol	Chain	Res	Type
36	A5	3289	G
36	A5	3290	G
36	A5	3292	A
36	A5	3294	A
36	A5	3304	U
36	A5	3307	A
36	A5	3313	U
36	A5	3316	A
36	A5	3317	U
36	A5	3318	G
36	A5	3319	U
36	A5	3320	A
36	A5	3330	A
36	A5	3331	U
36	A5	3333	G
36	A5	3335	A
36	A5	3336	A
36	A5	3341	U
36	A5	3342	A
36	A5	3343	G
36	A5	3345	G
36	A5	3349	C
36	A5	3351	U
36	A5	3352	U
36	A5	3354	U
36	A5	3355	U
36	A5	3356	G
36	A5	3357	U
36	A5	3358	U
36	A5	3369	G
36	A5	3378	C
36	A5	3382	U
36	A5	3383	G
36	A5	3389	U
36	A5	3390	G
36	A5	3393	U
36	A5	3396	U
37	A7	7	G
37	A7	22	A
37	A7	27	A
37	A7	33	U
37	A7	38	U

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Mol	Chain	Res	Type
37	A7	42	A
37	A7	54	U
37	A7	61	G
37	A7	65	G
37	A7	66	A
37	A7	73	C
37	A7	74	C
37	A7	93	C
37	A7	101	G
37	A7	102	A
37	A7	103	A
37	A7	104	A
37	A7	112	G
38	A8	21	C
38	A8	34	U
38	A8	35	C
38	A8	48	A
38	A8	52	A
38	A8	53	A
38	A8	59	A
38	A8	62	C
38	A8	63	G
38	A8	79	A
38	A8	80	A
38	A8	81	U
38	A8	83	C
38	A8	84	C
38	A8	86	U
38	A8	87	G
38	A8	90	U
38	A8	95	G
38	A8	104	A
38	A8	105	A
38	A8	106	C
38	A8	111	A
38	A8	112	U
38	A8	113	U
38	A8	122	U
38	A8	125	U
38	A8	126	A
38	A8	127	U
38	A8	138	A

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Mol	Chain	Res	Type
38	A8	152	G
38	A8	156	U
38	A8	157	U
38	A8	158	U

All (413) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A2	2	A
1	A2	25	C
1	A2	45	U
1	A2	68	A
1	A2	73	U
1	A2	74	U
1	A2	76	A
1	A2	103	A
1	A2	114	C
1	A2	126	A
1	A2	130	C
1	A2	131	C
1	A2	132	U
1	A2	133	U
1	A2	136	C
1	A2	139	C
1	A2	144	U
1	A2	158	U
1	A2	187	G
1	A2	217	A
1	A2	218	A
1	A2	232	U
1	A2	239	C
1	A2	240	U
1	A2	278	U
1	A2	280	U
1	A2	320	U
1	A2	400	A
1	A2	417	A
1	A2	484	C
1	A2	495	C
1	A2	497	G
1	A2	498	G
1	A2	499	U

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Mol	Chain	Res	Type
1	A2	501	U
1	A2	503	G
1	A2	507	U
1	A2	512	A
1	A2	542	A
1	A2	543	C
1	A2	555	A
1	A2	558	U
1	A2	582	U
1	A2	685	A
1	A2	704	C
1	A2	720	G
1	A2	721	U
1	A2	734	A
1	A2	755	A
1	A2	781	U
1	A2	782	U
1	A2	794	U
1	A2	811	A
1	A2	815	G
1	A2	819	G
1	A2	823	G
1	A2	829	A
1	A2	913	G
1	A2	1051	G
1	A2	1058	U
1	A2	1081	A
1	A2	1137	A
1	A2	1157	A
1	A2	1187	U
1	A2	1195	C
1	A2	1196	A
1	A2	1207	C
1	A2	1226	A
1	A2	1234	A
1	A2	1244	A
1	A2	1250	U
1	A2	1339	C
1	A2	1344	A
1	A2	1370	U
1	A2	1428	G
1	A2	1481	C

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Mol	Chain	Res	Type
1	A2	1489	U
1	A2	1490	C
1	A2	1521	G
1	A2	1568	C
1	A2	1572	G
1	A2	1573	A
1	A2	1615	C
1	A2	1657	U
1	A2	1711	C
1	A2	1761	U
36	A1	13	A
36	A1	43	A
36	A1	65	A
36	A1	99	A
36	A1	169	U
36	A1	210	U
36	A1	223	U
36	A1	239	G
36	A1	282	G
36	A1	397	A
36	A1	439	C
36	A1	517	G
36	A1	547	G
36	A1	558	U
36	A1	588	G
36	A1	594	U
36	A1	619	A
36	A1	620	U
36	A1	637	C
36	A1	648	C
36	A1	715	A
36	A1	719	U
36	A1	726	G
36	A1	763	G
36	A1	764	U
36	A1	816	A
36	A1	873	C
36	A1	896	A
36	A1	908	G
36	A1	916	G
36	A1	979	U
36	A1	981	U

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Mol	Chain	Res	Type
36	A1	993	G
36	A1	1015	U
36	A1	1017	C
36	A1	1064	A
36	A1	1094	U
36	A1	1097	G
36	A1	1103	A
36	A1	1152	G
36	A1	1222	G
36	A1	1241	U
36	A1	1273	A
36	A1	1307	G
36	A1	1317	A
36	A1	1329	U
36	A1	1331	U
36	A1	1352	A
36	A1	1355	A
36	A1	1481	A
36	A1	1484	U
36	A1	1507	G
36	A1	1554	U
36	A1	1556	C
36	A1	1562	C
36	A1	1568	U
36	A1	1580	A
36	A1	1582	C
36	A1	1589	A
36	A1	1607	U
36	A1	1716	U
36	A1	1751	G
36	A1	1778	G
36	A1	1815	U
36	A1	1816	A
36	A1	1820	U
36	A1	1841	A
36	A1	1842	A
36	A1	1846	C
36	A1	1849	C
36	A1	2101	C
36	A1	2112	U
36	A1	2116	G
36	A1	2209	U

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Mol	Chain	Res	Type
36	A1	2227	C
36	A1	2249	G
36	A1	2281	A
36	A1	2372	A
36	A1	2373	A
36	A1	2374	C
36	A1	2403	G
36	A1	2418	G
36	A1	2501	U
36	A1	2513	U
36	A1	2522	G
36	A1	2525	G
36	A1	2537	U
36	A1	2538	U
36	A1	2541	U
36	A1	2552	C
36	A1	2554	A
36	A1	2585	G
36	A1	2593	A
36	A1	2689	A
36	A1	2704	A
36	A1	2728	G
36	A1	2752	U
36	A1	2772	C
36	A1	2801	A
36	A1	2817	A
36	A1	2818	U
36	A1	2867	C
36	A1	2887	A
36	A1	2896	A
36	A1	3056	U
36	A1	3078	U
36	A1	3121	U
36	A1	3139	A
36	A1	3156	U
36	A1	3169	U
36	A1	3195	U
36	A1	3207	U
36	A1	3217	C
36	A1	3218	A
36	A1	3228	C
36	A1	3242	G

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Mol	Chain	Res	Type
36	A1	3269	U
36	A1	3275	U
36	A1	3276	G
36	A1	3316	A
36	A1	3317	U
36	A1	3319	U
36	A1	3330	A
36	A1	3350	C
36	A1	3351	U
36	A1	3353	G
36	A1	3375	A
37	A3	13	A
37	A3	41	G
37	A3	52	G
38	A4	82	U
38	A4	85	G
38	A4	111	A
38	A4	125	U
38	A4	157	U
80	A6	25	C
80	A6	66	U
80	A6	72	A
80	A6	75	U
80	A6	76	A
80	A6	103	A
80	A6	114	C
80	A6	136	C
80	A6	139	C
80	A6	158	U
80	A6	187	G
80	A6	217	A
80	A6	240	U
80	A6	249	U
80	A6	272	U
80	A6	277	U
80	A6	352	A
80	A6	400	A
80	A6	417	A
80	A6	468	A
80	A6	512	A
80	A6	542	A
80	A6	543	C

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Mol	Chain	Res	Type
80	A6	555	A
80	A6	557	G
80	A6	558	U
80	A6	647	G
80	A6	651	G
80	A6	678	A
80	A6	681	U
80	A6	695	U
80	A6	697	C
80	A6	717	C
80	A6	755	A
80	A6	811	A
80	A6	815	G
80	A6	829	A
80	A6	834	G
80	A6	1051	G
80	A6	1058	U
80	A6	1081	A
80	A6	1097	U
80	A6	1098	U
80	A6	1196	A
80	A6	1227	A
80	A6	1238	A
80	A6	1244	A
80	A6	1255	G
80	A6	1344	A
80	A6	1481	C
80	A6	1490	C
80	A6	1491	U
80	A6	1535	U
80	A6	1568	C
80	A6	1572	G
80	A6	1573	A
80	A6	1615	C
80	A6	1620	C
80	A6	1637	C
80	A6	1657	U
36	A5	43	A
36	A5	65	A
36	A5	93	C
36	A5	151	A
36	A5	169	U

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Mol	Chain	Res	Type
36	A5	183	G
36	A5	217	U
36	A5	238	A
36	A5	282	G
36	A5	397	A
36	A5	436	A
36	A5	438	A
36	A5	439	C
36	A5	545	U
36	A5	546	C
36	A5	588	G
36	A5	611	A
36	A5	619	A
36	A5	647	A
36	A5	705	A
36	A5	715	A
36	A5	719	U
36	A5	726	G
36	A5	735	A
36	A5	765	C
36	A5	786	A
36	A5	816	A
36	A5	873	C
36	A5	896	A
36	A5	908	G
36	A5	916	G
36	A5	937	G
36	A5	979	U
36	A5	993	G
36	A5	1027	A
36	A5	1033	U
36	A5	1064	A
36	A5	1081	U
36	A5	1085	A
36	A5	1094	U
36	A5	1152	G
36	A5	1181	U
36	A5	1192	C
36	A5	1222	G
36	A5	1236	G
36	A5	1238	C
36	A5	1239	C

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Mol	Chain	Res	Type
36	A5	1241	U
36	A5	1284	C
36	A5	1307	G
36	A5	1317	A
36	A5	1329	U
36	A5	1331	U
36	A5	1352	A
36	A5	1355	A
36	A5	1434	G
36	A5	1481	A
36	A5	1507	G
36	A5	1514	G
36	A5	1554	U
36	A5	1560	G
36	A5	1568	U
36	A5	1574	C
36	A5	1580	A
36	A5	1589	A
36	A5	1607	U
36	A5	1716	U
36	A5	1724	U
36	A5	1815	U
36	A5	1816	A
36	A5	1817	G
36	A5	1819	U
36	A5	1841	A
36	A5	1842	A
36	A5	1849	C
36	A5	1878	G
36	A5	1879	A
36	A5	2101	C
36	A5	2112	U
36	A5	2116	G
36	A5	2204	C
36	A5	2209	U
36	A5	2249	G
36	A5	2255	A
36	A5	2257	C
36	A5	2372	A
36	A5	2374	C
36	A5	2440	G
36	A5	2507	C

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Mol	Chain	Res	Type
36	A5	2513	U
36	A5	2531	C
36	A5	2537	U
36	A5	2539	C
36	A5	2583	C
36	A5	2585	G
36	A5	2593	A
36	A5	2662	G
36	A5	2682	C
36	A5	2689	A
36	A5	2714	G
36	A5	2728	G
36	A5	2752	U
36	A5	2772	C
36	A5	2777	G
36	A5	2801	A
36	A5	2817	A
36	A5	2818	U
36	A5	2887	A
36	A5	2896	A
36	A5	2970	C
36	A5	2971	A
36	A5	2996	U
36	A5	3056	U
36	A5	3078	U
36	A5	3154	C
36	A5	3155	U
36	A5	3167	A
36	A5	3195	U
36	A5	3218	A
36	A5	3228	C
36	A5	3259	U
36	A5	3269	U
36	A5	3275	U
36	A5	3289	G
36	A5	3317	U
36	A5	3330	A
36	A5	3340	G
36	A5	3341	U
36	A5	3357	U
38	A8	111	A
38	A8	126	A

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Mol	Chain	Res	Type
38	A8	156	U

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3566 ligands modelled in this entry, 2221 are monoatomic - leaving 1345 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	$\# Z > 2$
86	OHX	A1	3724	-	0,6,6	-	-	-		
86	OHX	A5	3802	-	0,6,6	-	-	-		
86	OHX	A6	2069	-	0,6,6	-	-	-		
86	OHX	A2	1940	-	0,6,6	-	-	-		
86	OHX	A5	3763	87	0,6,6	-	-	-		
86	OHX	A2	1993	-	0,6,6	-	-	-		
86	OHX	A2	1921	87	0,6,6	-	-	-		
86	OHX	A5	3622	-	0,6,6	-	-	-		
86	OHX	A5	3742	-	0,6,6	-	-	-		
86	OHX	A2	2002	-	0,6,6	-	-	-		
86	OHX	A1	3441	-	0,6,6	-	-	-		
86	OHX	A1	3704	-	0,6,6	-	-	-		
86	OHX	A1	3420	-	0,6,6	-	-	-		
86	OHX	A6	2042	-	0,6,6	-	-	-		
86	OHX	A5	3700	87	0,6,6	-	-	-		
86	OHX	A6	2001	-	0,6,6	-	-	-		
86	OHX	A1	3515	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3597	-	0,6,6	-	-	-		
86	OHX	A2	2066	-	0,6,6	-	-	-		
86	OHX	A1	3559	-	0,6,6	-	-	-		
86	OHX	A6	1920	-	0,6,6	-	-	-		
86	OHX	A2	1919	-	0,6,6	-	-	-		
86	OHX	A1	3665	-	0,6,6	-	-	-		
86	OHX	A2	2051	-	0,6,6	-	-	-		
86	OHX	A2	2063	-	0,6,6	-	-	-		
86	OHX	A1	3518	-	0,6,6	-	-	-		
86	OHX	A1	3621	-	0,6,6	-	-	-		
86	OHX	A1	3632	-	0,6,6	-	-	-		
86	OHX	A5	3436	-	0,6,6	-	-	-		
86	OHX	A1	3611	-	0,6,6	-	-	-		
86	OHX	A1	3414	-	0,6,6	-	-	-		
86	OHX	A2	2084	-	0,6,6	-	-	-		
86	OHX	A4	214	87	0,6,6	-	-	-		
86	OHX	A6	1942	-	0,6,6	-	-	-		
86	OHX	A5	3554	-	0,6,6	-	-	-		
86	OHX	A6	2085	-	0,6,6	-	-	-		
86	OHX	A2	1963	-	0,6,6	-	-	-		
86	OHX	A2	2001	-	0,6,6	-	-	-		
86	OHX	A5	3815	-	0,6,6	-	-	-		
86	OHX	A2	2067	87,86	0,6,6	-	-	-		
86	OHX	A5	3800	-	0,6,6	-	-	-		
86	OHX	A2	1909	86	0,6,6	-	-	-		
86	OHX	A1	3607	-	0,6,6	-	-	-		
86	OHX	A5	3416	87	0,6,6	-	-	-		
86	OHX	A1	3493	-	0,6,6	-	-	-		
86	OHX	A1	3442	-	0,6,6	-	-	-		
86	OHX	Db	101	-	0,6,6	-	-	-		
86	OHX	A5	3770	-	0,6,6	-	-	-		
86	OHX	A1	3669	87	0,6,6	-	-	-		
86	OHX	A1	3587	-	0,6,6	-	-	-		
86	OHX	A6	1940	-	0,6,6	-	-	-		
86	OHX	A5	3788	-	0,6,6	-	-	-		
86	OHX	A1	3580	-	0,6,6	-	-	-		
86	OHX	A6	2014	-	0,6,6	-	-	-		
86	OHX	A5	3635	-	0,6,6	-	-	-		
86	OHX	A1	3469	-	0,6,6	-	-	-		
86	OHX	A1	3754	-	0,6,6	-	-	-		
86	OHX	A5	3486	-	0,6,6	-	-	-		
86	OHX	A5	3488	-	0,6,6	-	-	-		
86	OHX	A1	3663	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A2	1901	-	0,6,6	-	-	-		
86	OHX	A5	3623	-	0,6,6	-	-	-		
86	OHX	DM	201	-	0,6,6	-	-	-		
86	OHX	A1	3638	-	0,6,6	-	-	-		
86	OHX	A1	3792	-	0,6,6	-	-	-		
86	OHX	A1	3742	-	0,6,6	-	-	-		
86	OHX	A1	3670	-	0,6,6	-	-	-		
86	OHX	A5	3645	-	0,6,6	-	-	-		
86	OHX	A5	3413	-	0,6,6	-	-	-		
86	OHX	A6	1961	-	0,6,6	-	-	-		
86	OHX	A6	2093	-	0,6,6	-	-	-		
86	OHX	A6	2080	-	0,6,6	-	-	-		
86	OHX	A5	3696	-	0,6,6	-	-	-		
86	OHX	CL	201	-	0,6,6	-	-	-		
86	OHX	A5	3713	87	0,6,6	-	-	-		
86	OHX	A1	3720	-	0,6,6	-	-	-		
86	OHX	A2	2055	87	0,6,6	-	-	-		
86	OHX	A6	2082	-	0,6,6	-	-	-		
86	OHX	A1	3519	87	0,6,6	-	-	-		
86	OHX	A1	3641	87	0,6,6	-	-	-		
86	OHX	A6	1963	-	0,6,6	-	-	-		
86	OHX	A5	3447	-	0,6,6	-	-	-		
86	OHX	A2	1932	-	0,6,6	-	-	-		
86	OHX	A6	1947	87	0,6,6	-	-	-		
86	OHX	A8	204	-	0,6,6	-	-	-		
86	OHX	A2	1985	-	0,6,6	-	-	-		
86	OHX	A5	3474	87	0,6,6	-	-	-		
86	OHX	A5	3519	-	0,6,6	-	-	-		
86	OHX	A1	3672	87	0,6,6	-	-	-		
86	OHX	A3	213	-	0,6,6	-	-	-		
86	OHX	A5	3602	87	0,6,6	-	-	-		
86	OHX	A2	2005	-	0,6,6	-	-	-		
86	OHX	A5	3465	-	0,6,6	-	-	-		
86	OHX	A1	3489	-	0,6,6	-	-	-		
86	OHX	A2	1943	-	0,6,6	-	-	-		
86	OHX	A1	3771	-	0,6,6	-	-	-		
86	OHX	A6	1972	87	0,6,6	-	-	-		
86	OHX	A1	3680	-	0,6,6	-	-	-		
86	OHX	A2	2057	-	0,6,6	-	-	-		
86	OHX	A1	3688	-	0,6,6	-	-	-		
86	OHX	A1	3520	87	0,6,6	-	-	-		
86	OHX	A2	2035	87	0,6,6	-	-	-		
86	OHX	A6	2065	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A6	2092	-	0,6,6	-	-	-		
86	OHX	A1	3535	-	0,6,6	-	-	-		
86	OHX	A1	3635	-	0,6,6	-	-	-		
86	OHX	A5	3487	-	0,6,6	-	-	-		
86	OHX	A2	2024	-	0,6,6	-	-	-		
86	OHX	A2	1971	-	0,6,6	-	-	-		
86	OHX	A2	2040	-	0,6,6	-	-	-		
86	OHX	A6	1999	-	0,6,6	-	-	-		
86	OHX	Bj	103	-	0,6,6	-	-	-		
86	OHX	A1	3481	-	0,6,6	-	-	-		
86	OHX	A5	3403	-	0,6,6	-	-	-		
86	OHX	A1	3726	-	0,6,6	-	-	-		
86	OHX	A1	3756	-	0,6,6	-	-	-		
86	OHX	A1	3623	-	0,6,6	-	-	-		
86	OHX	A1	3736	-	0,6,6	-	-	-		
86	OHX	A1	3498	87	0,6,6	-	-	-		
86	OHX	A6	1907	-	0,6,6	-	-	-		
86	OHX	A5	3481	-	0,6,6	-	-	-		
86	OHX	A1	3512	-	0,6,6	-	-	-		
86	OHX	A5	3444	87	0,6,6	-	-	-		
86	OHX	A6	2034	-	0,6,6	-	-	-		
86	OHX	A6	2006	87	0,6,6	-	-	-		
86	OHX	A5	3807	86	0,6,6	-	-	-		
86	OHX	A5	3801	-	0,6,6	-	-	-		
86	OHX	A1	3568	-	0,6,6	-	-	-		
86	OHX	A5	3699	-	0,6,6	-	-	-		
86	OHX	A6	1985	-	0,6,6	-	-	-		
86	OHX	A6	2066	-	0,6,6	-	-	-		
86	OHX	A2	1903	-	0,6,6	-	-	-		
86	OHX	A1	3443	-	0,6,6	-	-	-		
86	OHX	A5	3540	87	0,6,6	-	-	-		
86	OHX	A1	3778	-	0,6,6	-	-	-		
86	OHX	A2	1936	87	0,6,6	-	-	-		
86	OHX	A2	2020	-	0,6,6	-	-	-		
86	OHX	A6	1945	-	0,6,6	-	-	-		
86	OHX	BB	401	-	0,6,6	-	-	-		
86	OHX	A5	3735	87	0,6,6	-	-	-		
86	OHX	A1	3407	-	0,6,6	-	-	-		
86	OHX	A1	3463	87	0,6,6	-	-	-		
86	OHX	DC	401	-	0,6,6	-	-	-		
86	OHX	A5	3504	87	0,6,6	-	-	-		
86	OHX	A1	3575	-	0,6,6	-	-	-		
86	OHX	A6	2040	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3667	-	0,6,6	-	-	-		
86	OHX	A5	3424	-	0,6,6	-	-	-		
86	OHX	A2	1976	-	0,6,6	-	-	-		
86	OHX	A1	3698	-	0,6,6	-	-	-		
86	OHX	A5	3538	-	0,6,6	-	-	-		
86	OHX	A5	3805	-	0,6,6	-	-	-		
86	OHX	A1	3563	-	0,6,6	-	-	-		
86	OHX	A6	1902	-	0,6,6	-	-	-		
86	OHX	A5	3698	-	0,6,6	-	-	-		
86	OHX	A2	2073	-	0,6,6	-	-	-		
86	OHX	A5	3556	-	0,6,6	-	-	-		
86	OHX	A7	205	-	0,6,6	-	-	-		
86	OHX	A8	217	-	0,6,6	-	-	-		
86	OHX	A5	3808	87	0,6,6	-	-	-		
86	OHX	BN	301	-	0,6,6	-	-	-		
86	OHX	DI	302	-	0,6,6	-	-	-		
86	OHX	A2	2028	-	0,6,6	-	-	-		
86	OHX	A5	3640	-	0,6,6	-	-	-		
86	OHX	A1	3534	-	0,6,6	-	-	-		
86	OHX	A2	2039	-	0,6,6	-	-	-		
86	OHX	A5	3462	-	0,6,6	-	-	-		
86	OHX	A5	3634	-	0,6,6	-	-	-		
86	OHX	A5	3451	87	0,6,6	-	-	-		
86	OHX	A5	3604	-	0,6,6	-	-	-		
86	OHX	A5	3767	-	0,6,6	-	-	-		
86	OHX	A5	3686	-	0,6,6	-	-	-		
86	OHX	A2	1945	-	0,6,6	-	-	-		
86	OHX	A5	3757	-	0,6,6	-	-	-		
86	OHX	A5	3401	-	0,6,6	-	-	-		
86	OHX	DQ	201	-	0,6,6	-	-	-		
86	OHX	A6	1982	-	0,6,6	-	-	-		
86	OHX	A6	1915	-	0,6,6	-	-	-		
86	OHX	A5	3684	87	0,6,6	-	-	-		
86	OHX	Dh	201	-	0,6,6	-	-	-		
86	OHX	A5	3708	-	0,6,6	-	-	-		
86	OHX	A4	209	87	0,6,6	-	-	-		
86	OHX	A5	3773	-	0,6,6	-	-	-		
86	OHX	A6	1980	87	0,6,6	-	-	-		
86	OHX	A2	1947	87	0,6,6	-	-	-		
86	OHX	A6	2073	-	0,6,6	-	-	-		
86	OHX	A1	3492	-	0,6,6	-	-	-		
86	OHX	A1	3766	-	0,6,6	-	-	-		
86	OHX	A2	2078	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3655	-	0,6,6	-	-	-		
86	OHX	A5	3455	-	0,6,6	-	-	-		
86	OHX	A3	202	87	0,6,6	-	-	-		
86	OHX	A5	3404	87	0,6,6	-	-	-		
86	OHX	A6	2081	87	0,6,6	-	-	-		
86	OHX	A5	3626	87	0,6,6	-	-	-		
86	OHX	A1	3703	87	0,6,6	-	-	-		
86	OHX	A5	3530	-	0,6,6	-	-	-		
86	OHX	A1	3552	-	0,6,6	-	-	-		
86	OHX	A1	3805	-	0,6,6	-	-	-		
86	OHX	A6	2028	-	0,6,6	-	-	-		
86	OHX	A6	2007	-	0,6,6	-	-	-		
86	OHX	A3	208	-	0,6,6	-	-	-		
86	OHX	A6	1996	-	0,6,6	-	-	-		
86	OHX	A2	2004	-	0,6,6	-	-	-		
86	OHX	A5	3500	-	0,6,6	-	-	-		
86	OHX	A2	2013	-	0,6,6	-	-	-		
86	OHX	A1	3808	87	0,6,6	-	-	-		
86	OHX	A1	3636	87	0,6,6	-	-	-		
86	OHX	A1	3598	-	0,6,6	-	-	-		
86	OHX	A6	1916	87	0,6,6	-	-	-		
86	OHX	A1	3762	87	0,6,6	-	-	-		
86	OHX	A2	2062	-	0,6,6	-	-	-		
86	OHX	BI	304	47	0,6,6	-	-	-		
86	OHX	A5	3636	87	0,6,6	-	-	-		
86	OHX	A2	2003	-	0,6,6	-	-	-		
86	OHX	A7	211	87	0,6,6	-	-	-		
86	OHX	A1	3415	87	0,6,6	-	-	-		
86	OHX	A5	3733	87	0,6,6	-	-	-		
86	OHX	A1	3645	87	0,6,6	-	-	-		
86	OHX	A5	3477	-	0,6,6	-	-	-		
86	OHX	A5	3581	-	0,6,6	-	-	-		
86	OHX	A1	3478	-	0,6,6	-	-	-		
86	OHX	DI	301	-	0,6,6	-	-	-		
86	OHX	A5	3485	-	0,6,6	-	-	-		
86	OHX	A1	3765	-	0,6,6	-	-	-		
86	OHX	A2	1916	-	0,6,6	-	-	-		
86	OHX	A5	3669	87	0,6,6	-	-	-		
86	OHX	A2	2022	-	0,6,6	-	-	-		
86	OHX	A1	3423	87	0,6,6	-	-	-		
86	OHX	A1	3480	87	0,6,6	-	-	-		
86	OHX	A5	3513	-	0,6,6	-	-	-		
86	OHX	A1	3751	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3595	-	0,6,6	-	-	-		
86	OHX	BI	301	-	0,6,6	-	-	-		
86	OHX	A2	2023	87	0,6,6	-	-	-		
86	OHX	A1	3648	87	0,6,6	-	-	-		
86	OHX	A2	2027	-	0,6,6	-	-	-		
86	OHX	A1	3504	-	0,6,6	-	-	-		
86	OHX	A6	2004	-	0,6,6	-	-	-		
86	OHX	A2	2060	-	0,6,6	-	-	-		
86	OHX	A5	3816	-	0,6,6	-	-	-		
86	OHX	A5	3650	-	0,6,6	-	-	-		
86	OHX	A6	1992	-	0,6,6	-	-	-		
86	OHX	A5	3557	-	0,6,6	-	-	-		
86	OHX	A1	3566	87	0,6,6	-	-	-		
86	OHX	A5	3747	-	0,6,6	-	-	-		
86	OHX	A6	1934	87	0,6,6	-	-	-		
86	OHX	A1	3687	-	0,6,6	-	-	-		
86	OHX	A1	3475	-	0,6,6	-	-	-		
86	OHX	A2	2014	-	0,6,6	-	-	-		
86	OHX	A1	3605	-	0,6,6	-	-	-		
86	OHX	A1	3615	-	0,6,6	-	-	-		
86	OHX	A1	3588	-	0,6,6	-	-	-		
86	OHX	A5	3564	87	0,6,6	-	-	-		
86	OHX	A6	2087	-	0,6,6	-	-	-		
86	OHX	A5	3786	-	0,6,6	-	-	-		
86	OHX	A5	3555	-	0,6,6	-	-	-		
86	OHX	A5	3648	-	0,6,6	-	-	-		
86	OHX	A5	3774	87	0,6,6	-	-	-		
86	OHX	A6	1952	87	0,6,6	-	-	-		
86	OHX	A6	1922	-	0,6,6	-	-	-		
86	OHX	A1	3565	-	0,6,6	-	-	-		
86	OHX	A1	3620	87	0,6,6	-	-	-		
86	OHX	CG	301	-	0,6,6	-	-	-		
86	OHX	A1	3803	87	0,6,6	-	-	-		
86	OHX	A1	3547	-	0,6,6	-	-	-		
86	OHX	A2	1984	87	0,6,6	-	-	-		
86	OHX	A2	2036	-	0,6,6	-	-	-		
86	OHX	A1	3536	-	0,6,6	-	-	-		
86	OHX	A1	3760	87	0,6,6	-	-	-		
86	OHX	A1	3702	-	0,6,6	-	-	-		
86	OHX	A5	3647	87	0,6,6	-	-	-		
86	OHX	A5	3479	87	0,6,6	-	-	-		
86	OHX	A1	3693	-	0,6,6	-	-	-		
86	OHX	A1	3773	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3550	-	0,6,6	-	-	-		
86	OHX	A5	3758	87	0,6,6	-	-	-		
86	OHX	A1	3650	-	0,6,6	-	-	-		
86	OHX	BI	302	-	0,6,6	-	-	-		
86	OHX	A6	1913	-	0,6,6	-	-	-		
86	OHX	CJ	201	-	0,6,6	-	-	-		
86	OHX	A6	2013	87	0,6,6	-	-	-		
86	OHX	A6	2031	-	0,5,6	-	-	-		
86	OHX	A6	1993	87	0,6,6	-	-	-		
86	OHX	A6	1921	-	0,6,6	-	-	-		
86	OHX	A6	2050	-	0,6,6	-	-	-		
86	OHX	A2	1961	-	0,6,6	-	-	-		
86	OHX	A3	209	-	0,6,6	-	-	-		
86	OHX	A5	3625	-	0,6,6	-	-	-		
86	OHX	A6	1926	87	0,6,6	-	-	-		
86	OHX	A5	3723	87	0,6,6	-	-	-		
86	OHX	A2	2047	-	0,6,6	-	-	-		
86	OHX	DD	301	-	0,6,6	-	-	-		
86	OHX	A1	3802	36,86	0,6,6	-	-	-		
86	OHX	A5	3785	-	0,6,6	-	-	-		
86	OHX	A7	203	87	0,6,6	-	-	-		
86	OHX	A2	1926	-	0,6,6	-	-	-		
86	OHX	A6	1910	87	0,6,6	-	-	-		
86	OHX	A1	3450	-	0,6,6	-	-	-		
86	OHX	A1	3506	-	0,6,6	-	-	-		
86	OHX	CY	201	-	0,6,6	-	-	-		
86	OHX	A5	3675	-	0,6,6	-	-	-		
86	OHX	A1	3743	-	0,6,6	-	-	-		
86	OHX	A6	2051	-	0,6,6	-	-	-		
86	OHX	A2	2074	1	0,6,6	-	-	-		
86	OHX	A5	3676	87	0,6,6	-	-	-		
86	OHX	A1	3700	-	0,6,6	-	-	-		
86	OHX	AL	201	-	0,6,6	-	-	-		
86	OHX	A6	2060	-	0,6,6	-	-	-		
86	OHX	A6	2084	-	0,6,6	-	-	-		
86	OHX	A2	2044	-	0,6,6	-	-	-		
86	OHX	A1	3597	-	0,6,6	-	-	-		
86	OHX	A5	3662	-	0,6,6	-	-	-		
86	OHX	A6	1923	-	0,6,6	-	-	-		
86	OHX	A6	2064	-	0,6,6	-	-	-		
86	OHX	A7	213	-	0,6,6	-	-	-		
86	OHX	A6	2035	-	0,6,6	-	-	-		
86	OHX	A5	3633	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3629	-	0,6,6	-	-	-		
86	OHX	A1	3436	-	0,6,6	-	-	-		
86	OHX	A5	3611	-	0,6,6	-	-	-		
86	OHX	A1	3652	-	0,6,6	-	-	-		
86	OHX	A2	1950	-	0,6,6	-	-	-		
86	OHX	A1	3800	-	0,6,6	-	-	-		
86	OHX	A8	205	-	0,6,6	-	-	-		
86	OHX	A5	3406	-	0,6,6	-	-	-		
86	OHX	A5	3505	-	0,6,6	-	-	-		
86	OHX	A1	3783	-	0,6,6	-	-	-		
86	OHX	A6	2047	-	0,6,6	-	-	-		
86	OHX	A6	1901	-	0,6,6	-	-	-		
86	OHX	A1	3770	-	0,6,6	-	-	-		
86	OHX	A5	3642	87	0,6,6	-	-	-		
86	OHX	A5	3563	87	0,6,6	-	-	-		
86	OHX	A1	3435	-	0,6,6	-	-	-		
86	OHX	A5	3749	-	0,6,6	-	-	-		
86	OHX	A5	3600	87	0,6,6	-	-	-		
86	OHX	A1	3789	-	0,6,6	-	-	-		
86	OHX	A6	1983	-	0,6,6	-	-	-		
86	OHX	A5	3582	-	0,6,6	-	-	-		
86	OHX	A6	1954	-	0,6,6	-	-	-		
86	OHX	A1	3510	-	0,6,6	-	-	-		
86	OHX	A1	3577	-	0,6,6	-	-	-		
86	OHX	A5	3417	-	0,6,6	-	-	-		
86	OHX	A6	2044	-	0,6,6	-	-	-		
86	OHX	A6	1939	-	0,6,6	-	-	-		
86	OHX	A2	1965	-	0,6,6	-	-	-		
86	OHX	A1	3657	-	0,6,6	-	-	-		
86	OHX	A5	3624	-	0,6,6	-	-	-		
86	OHX	A6	1978	87	0,6,6	-	-	-		
86	OHX	A1	3696	-	0,6,6	-	-	-		
86	OHX	A1	3713	-	0,6,6	-	-	-		
86	OHX	A6	1970	87	0,6,6	-	-	-		
86	OHX	A2	2021	-	0,6,6	-	-	-		
86	OHX	A6	2090	-	0,6,6	-	-	-		
86	OHX	A5	3719	-	0,6,6	-	-	-		
86	OHX	A2	1983	-	0,6,6	-	-	-		
86	OHX	A2	1906	87	0,6,6	-	-	-		
86	OHX	A6	2075	-	0,6,6	-	-	-		
86	OHX	A1	3524	-	0,6,6	-	-	-		
86	OHX	A1	3809	-	0,6,6	-	-	-		
86	OHX	A1	3465	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3579	-	0,6,6	-	-	-		
86	OHX	A5	3456	87	0,6,6	-	-	-		
86	OHX	A5	3780	-	0,6,6	-	-	-		
86	OHX	A5	3794	-	0,6,6	-	-	-		
86	OHX	A5	3514	87	0,6,6	-	-	-		
86	OHX	A6	2010	-	0,6,6	-	-	-		
86	OHX	A1	3487	-	0,6,6	-	-	-		
86	OHX	A1	3681	87	0,6,6	-	-	-		
86	OHX	A5	3452	-	0,6,6	-	-	-		
86	OHX	A6	1965	-	0,6,6	-	-	-		
86	OHX	A2	2038	-	0,6,6	-	-	-		
86	OHX	CP	201	-	0,6,6	-	-	-		
86	OHX	A5	3572	-	0,6,6	-	-	-		
86	OHX	A2	1987	-	0,6,6	-	-	-		
86	OHX	A7	210	-	0,6,6	-	-	-		
86	OHX	A5	3755	-	0,6,6	-	-	-		
86	OHX	A1	3444	87	0,6,6	-	-	-		
86	OHX	A2	1951	-	0,6,6	-	-	-		
86	OHX	A2	1982	-	0,6,6	-	-	-		
86	OHX	A5	3439	-	0,6,6	-	-	-		
86	OHX	A1	3746	-	0,6,6	-	-	-		
86	OHX	A5	3522	-	0,6,6	-	-	-		
86	OHX	A1	3801	87,86	0,6,6	-	-	-		
86	OHX	A6	2096	-	0,6,6	-	-	-		
86	OHX	AP	201	-	0,6,6	-	-	-		
86	OHX	A1	3699	-	0,6,6	-	-	-		
86	OHX	A1	3529	87	0,6,6	-	-	-		
86	OHX	A5	3445	-	0,6,6	-	-	-		
86	OHX	A1	3716	-	0,6,6	-	-	-		
86	OHX	A1	3722	-	0,6,6	-	-	-		
86	OHX	A1	3775	86	0,6,6	-	-	-		
86	OHX	A6	2089	-	0,6,6	-	-	-		
86	OHX	A8	202	-	0,6,6	-	-	-		
86	OHX	A1	3447	87	0,6,6	-	-	-		
86	OHX	A5	3608	87	0,6,6	-	-	-		
86	OHX	A5	3813	-	0,6,6	-	-	-		
86	OHX	A1	3639	-	0,6,6	-	-	-		
86	OHX	A1	3602	-	0,6,6	-	-	-		
86	OHX	A6	2043	-	0,6,6	-	-	-		
86	OHX	A5	3603	-	0,6,6	-	-	-		
86	OHX	A1	3538	-	0,6,6	-	-	-		
86	OHX	A1	3539	-	0,6,6	-	-	-		
86	OHX	A6	1987	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3748	-	0,6,6	-	-	-		
86	OHX	A2	2068	-	0,6,6	-	-	-		
86	OHX	A2	1937	-	0,6,6	-	-	-		
86	OHX	A5	3533	-	0,6,6	-	-	-		
86	OHX	A1	3723	-	0,6,6	-	-	-		
86	OHX	A5	3590	-	0,6,6	-	-	-		
86	OHX	A2	2033	86	0,6,6	-	-	-		
86	OHX	A6	2046	-	0,6,6	-	-	-		
86	OHX	A1	3589	87	0,6,6	-	-	-		
86	OHX	A6	1968	-	0,6,6	-	-	-		
86	OHX	A2	2016	-	0,6,6	-	-	-		
86	OHX	A5	3542	-	0,6,6	-	-	-		
86	OHX	A3	201	-	0,6,6	-	-	-		
86	OHX	A1	3461	87	0,6,6	-	-	-		
86	OHX	A1	3741	87	0,6,6	-	-	-		
86	OHX	A5	3799	-	0,6,6	-	-	-		
86	OHX	A1	3451	87	0,6,6	-	-	-		
86	OHX	A6	2021	87	0,6,6	-	-	-		
86	OHX	A1	3767	-	0,6,6	-	-	-		
86	OHX	A1	3686	-	0,6,6	-	-	-		
86	OHX	A5	3430	87	0,6,6	-	-	-		
86	OHX	A6	1911	87	0,6,6	-	-	-		
86	OHX	A1	3454	-	0,6,6	-	-	-		
86	OHX	A1	3521	86	0,6,6	-	-	-		
86	OHX	A1	3401	-	0,6,6	-	-	-		
86	OHX	A5	3759	87	0,6,6	-	-	-		
86	OHX	A5	3766	-	0,6,6	-	-	-		
86	OHX	A1	3753	-	0,6,6	-	-	-		
86	OHX	A1	3662	-	0,6,6	-	-	-		
86	OHX	A1	3684	87	0,6,6	-	-	-		
86	OHX	A5	3442	-	0,6,6	-	-	-		
86	OHX	A5	3818	-	0,6,6	-	-	-		
86	OHX	A1	3708	-	0,6,6	-	-	-		
86	OHX	A4	215	-	0,6,6	-	-	-		
86	OHX	A1	3471	-	0,6,6	-	-	-		
86	OHX	A2	1920	-	0,6,6	-	-	-		
86	OHX	A2	1911	87	0,6,6	-	-	-		
86	OHX	A2	2025	-	0,6,6	-	-	-		
86	OHX	A6	1962	-	0,6,6	-	-	-		
86	OHX	A6	1928	-	0,6,6	-	-	-		
86	OHX	A1	3725	-	0,6,6	-	-	-		
86	OHX	A1	3811	36	0,6,6	-	-	-		
86	OHX	A6	2000	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3587	-	0,6,6	-	-	-		
86	OHX	A5	3697	-	0,6,6	-	-	-		
86	OHX	A6	2041	-	0,6,6	-	-	-		
86	OHX	A3	211	87	0,6,6	-	-	-		
86	OHX	A1	3500	87	0,6,6	-	-	-		
86	OHX	A5	3643	-	0,6,6	-	-	-		
86	OHX	A2	2079	-	0,6,6	-	-	-		
86	OHX	DA	302	-	0,6,6	-	-	-		
86	OHX	A2	1918	86	0,6,6	-	-	-		
86	OHX	A1	3545	87	0,6,6	-	-	-		
86	OHX	A6	1904	87	0,6,6	-	-	-		
86	OHX	A6	2048	-	0,6,6	-	-	-		
86	OHX	A1	3509	-	0,6,6	-	-	-		
86	OHX	A5	3559	-	0,6,6	-	-	-		
86	OHX	CI	301	-	0,6,6	-	-	-		
86	OHX	A5	3630	-	0,6,6	-	-	-		
86	OHX	BA	301	-	0,6,6	-	-	-		
86	OHX	A1	3733	-	0,6,6	-	-	-		
86	OHX	A1	3494	-	0,6,6	-	-	-		
86	OHX	A5	3720	87	0,6,6	-	-	-		
86	OHX	A6	1957	-	0,6,6	-	-	-		
86	OHX	A2	2041	-	0,6,6	-	-	-		
86	OHX	A1	3477	-	0,6,6	-	-	-		
86	OHX	A1	3573	87	0,6,6	-	-	-		
86	OHX	A5	3541	87	0,6,6	-	-	-		
86	OHX	A5	3562	-	0,6,6	-	-	-		
86	OHX	A6	2025	-	0,6,6	-	-	-		
86	OHX	A6	1995	-	0,6,6	-	-	-		
86	OHX	A2	1969	-	0,6,6	-	-	-		
86	OHX	A1	3485	-	0,6,6	-	-	-		
86	OHX	A6	1938	-	0,6,6	-	-	-		
86	OHX	A1	3472	-	0,6,6	-	-	-		
86	OHX	A5	3822	-	0,6,6	-	-	-		
86	OHX	A5	3585	-	0,6,6	-	-	-		
86	OHX	A1	3673	87	0,6,6	-	-	-		
86	OHX	A1	3595	-	0,6,6	-	-	-		
86	OHX	A5	3644	-	0,6,6	-	-	-		
86	OHX	A1	3503	87	0,6,6	-	-	-		
86	OHX	A3	203	87	0,6,6	-	-	-		
86	OHX	A6	1960	-	0,6,6	-	-	-		
86	OHX	A5	3726	-	0,6,6	-	-	-		
86	OHX	A2	2071	-	0,6,6	-	-	-		
86	OHX	A4	213	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3618	-	0,6,6	-	-	-		
86	OHX	A5	3491	-	0,6,6	-	-	-		
86	OHX	A2	1938	-	0,6,6	-	-	-		
86	OHX	A1	3816	-	0,6,6	-	-	-		
86	OHX	A5	3806	-	0,6,6	-	-	-		
86	OHX	A5	3431	87	0,6,6	-	-	-		
86	OHX	A5	3512	-	0,6,6	-	-	-		
86	OHX	A1	3557	-	0,6,6	-	-	-		
86	OHX	A5	3678	87	0,6,6	-	-	-		
86	OHX	A2	2069	-	0,6,6	-	-	-		
86	OHX	A6	1937	-	0,6,6	-	-	-		
86	OHX	A8	210	-	0,6,6	-	-	-		
86	OHX	A5	3571	-	0,6,6	-	-	-		
86	OHX	A1	3799	-	0,6,6	-	-	-		
86	OHX	A2	2065	-	0,6,6	-	-	-		
86	OHX	A1	3537	87	0,6,6	-	-	-		
86	OHX	A6	2077	-	0,6,6	-	-	-		
86	OHX	A5	3577	-	0,6,6	-	-	-		
86	OHX	A2	2258	-	0,6,6	-	-	-		
86	OHX	A1	3784	-	0,6,6	-	-	-		
86	OHX	A2	1960	-	0,6,6	-	-	-		
86	OHX	A5	3779	-	0,6,6	-	-	-		
86	OHX	A1	3564	-	0,6,6	-	-	-		
86	OHX	A1	3572	-	0,6,6	-	-	-		
86	OHX	A5	3657	87	0,6,6	-	-	-		
86	OHX	A1	3555	-	0,6,6	-	-	-		
86	OHX	A5	3761	-	0,6,6	-	-	-		
86	OHX	A5	3744	-	0,6,6	-	-	-		
86	OHX	A1	3738	-	0,6,6	-	-	-		
86	OHX	A1	3774	-	0,6,6	-	-	-		
86	OHX	A5	3526	87	0,6,6	-	-	-		
86	OHX	A2	2077	-	0,6,6	-	-	-		
86	OHX	A2	1912	-	0,6,6	-	-	-		
86	OHX	BP	201	87	0,6,6	-	-	-		
86	OHX	A5	3737	87,86	0,6,6	-	-	-		
86	OHX	A1	3656	-	0,6,6	-	-	-		
86	OHX	A1	3782	87	0,6,6	-	-	-		
86	OHX	A1	3424	-	0,6,6	-	-	-		
86	OHX	A2	2085	-	0,6,6	-	-	-		
86	OHX	A8	212	-	0,6,6	-	-	-		
86	OHX	A2	2008	87	0,6,6	-	-	-		
86	OHX	A5	3596	87	0,6,6	-	-	-		
86	OHX	DO	201	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3409	-	0,6,6	-	-	-		
86	OHX	A2	1952	-	0,6,6	-	-	-		
86	OHX	A1	3479	-	0,6,6	-	-	-		
86	OHX	A6	1974	-	0,6,6	-	-	-		
86	OHX	BT	201	-	0,6,6	-	-	-		
86	OHX	A6	1944	-	0,6,6	-	-	-		
86	OHX	A2	2030	87	0,6,6	-	-	-		
86	OHX	A6	2088	-	0,6,6	-	-	-		
86	OHX	A2	1931	-	0,6,6	-	-	-		
86	OHX	A5	3507	87	0,6,6	-	-	-		
86	OHX	A5	3520	-	0,6,6	-	-	-		
86	OHX	A1	3571	87	0,6,6	-	-	-		
86	OHX	A2	2012	-	0,6,6	-	-	-		
86	OHX	A2	1994	-	0,6,6	-	-	-		
86	OHX	A2	1974	-	0,6,6	-	-	-		
86	OHX	A1	3411	-	0,6,6	-	-	-		
86	OHX	A1	3625	-	0,6,6	-	-	-		
86	OHX	A5	3666	-	0,6,6	-	-	-		
86	OHX	A2	2052	87	0,6,6	-	-	-		
86	OHX	A1	3412	-	0,6,6	-	-	-		
86	OHX	A1	3785	-	0,6,6	-	-	-		
86	OHX	A6	2074	-	0,6,6	-	-	-		
86	OHX	A6	2020	87	0,6,6	-	-	-		
86	OHX	A2	2045	-	0,6,6	-	-	-		
86	OHX	DV	201	87	0,6,6	-	-	-		
86	OHX	A3	204	-	0,6,6	-	-	-		
86	OHX	A5	3506	-	0,6,6	-	-	-		
86	OHX	AN	201	-	0,6,6	-	-	-		
86	OHX	A6	1929	87	0,6,6	-	-	-		
86	OHX	AC	301	-	0,6,6	-	-	-		
86	OHX	A1	3651	-	0,6,6	-	-	-		
86	OHX	A1	3797	-	0,6,6	-	-	-		
86	OHX	A2	1939	-	0,6,6	-	-	-		
86	OHX	A6	1979	-	0,6,6	-	-	-		
86	OHX	A2	2058	-	0,6,6	-	-	-		
86	OHX	A2	1958	87	0,6,6	-	-	-		
86	OHX	A1	3628	-	0,6,6	-	-	-		
86	OHX	A5	3775	-	0,6,6	-	-	-		
86	OHX	A2	1991	-	0,6,6	-	-	-		
86	OHX	A1	3647	87	0,6,6	-	-	-		
86	OHX	A1	3558	-	0,6,6	-	-	-		
86	OHX	A6	1909	87	0,6,6	-	-	-		
86	OHX	A6	2003	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3610	-	0,6,6	-	-	-		
86	OHX	A1	3677	-	0,6,6	-	-	-		
86	OHX	A1	3554	-	0,6,6	-	-	-		
86	OHX	A1	3781	-	0,6,6	-	-	-		
86	OHX	A5	3558	87	0,6,6	-	-	-		
86	OHX	A5	3639	-	0,6,6	-	-	-		
86	OHX	A5	3498	-	0,6,6	-	-	-		
86	OHX	A2	2083	-	0,6,6	-	-	-		
86	OHX	A2	1917	-	0,6,6	-	-	-		
86	OHX	A5	3703	-	0,6,6	-	-	-		
86	OHX	A1	3705	-	0,6,6	-	-	-		
86	OHX	A6	2017	-	0,6,6	-	-	-		
86	OHX	A5	3695	36	0,6,6	-	-	-		
86	OHX	A1	3600	87	0,6,6	-	-	-		
86	OHX	A6	2022	-	0,6,6	-	-	-		
86	OHX	A4	212	-	0,6,6	-	-	-		
86	OHX	A5	3419	-	0,6,6	-	-	-		
86	OHX	A1	3646	87	0,6,6	-	-	-		
86	OHX	A2	1933	-	0,6,6	-	-	-		
86	OHX	A5	3584	87	0,6,6	-	-	-		
86	OHX	A1	3417	-	0,6,6	-	-	-		
86	OHX	A5	3484	-	0,6,6	-	-	-		
86	OHX	A6	1935	87	0,6,6	-	-	-		
86	OHX	A1	3476	-	0,6,6	-	-	-		
86	OHX	A5	3709	-	0,6,6	-	-	-		
86	OHX	A1	3719	-	0,6,6	-	-	-		
86	OHX	A2	1990	-	0,6,6	-	-	-		
86	OHX	A6	2100	-	0,6,6	-	-	-		
86	OHX	A6	2049	-	0,6,6	-	-	-		
86	OHX	A6	2098	-	0,6,6	-	-	-		
86	OHX	A5	3771	-	0,6,6	-	-	-		
86	OHX	A1	3511	-	0,6,6	-	-	-		
86	OHX	A6	2026	-	0,6,6	-	-	-		
86	OHX	A1	3474	87	0,6,6	-	-	-		
86	OHX	A1	3676	87	0,6,6	-	-	-		
86	OHX	A5	3532	-	0,6,6	-	-	-		
86	OHX	A2	1959	-	0,6,6	-	-	-		
86	OHX	A5	3701	-	0,6,6	-	-	-		
86	OHX	A2	1966	87	0,6,6	-	-	-		
86	OHX	A6	2037	87	0,6,6	-	-	-		
86	OHX	A2	1975	-	0,6,6	-	-	-		
86	OHX	A6	2078	-	0,6,6	-	-	-		
86	OHX	A6	2070	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A2	1953	87	0,6,6	-	-	-		
86	OHX	A5	3468	-	0,6,6	-	-	-		
86	OHX	A5	3583	87	0,6,6	-	-	-		
86	OHX	A6	1914	-	0,6,6	-	-	-		
86	OHX	A6	1955	-	0,6,6	-	-	-		
86	OHX	A8	206	-	0,6,6	-	-	-		
86	OHX	A7	207	-	0,6,6	-	-	-		
86	OHX	A1	3815	-	0,6,6	-	-	-		
86	OHX	A5	3817	-	0,6,6	-	-	-		
86	OHX	A1	3514	-	0,6,6	-	-	-		
86	OHX	A5	3588	87	0,6,6	-	-	-		
86	OHX	A1	3661	87	0,6,6	-	-	-		
86	OHX	A1	3464	-	0,6,6	-	-	-		
86	OHX	A6	2009	-	0,6,6	-	-	-		
86	OHX	A5	3681	-	0,6,6	-	-	-		
86	OHX	A2	2032	-	0,6,6	-	-	-		
86	OHX	A1	3488	-	0,6,6	-	-	-		
86	OHX	A5	3764	87	0,6,6	-	-	-		
86	OHX	A6	1903	-	0,6,6	-	-	-		
86	OHX	DB	402	-	0,6,6	-	-	-		
86	OHX	A5	3547	87	0,6,6	-	-	-		
86	OHX	A1	3807	87	0,6,6	-	-	-		
86	OHX	A5	3466	-	0,6,6	-	-	-		
86	OHX	A1	3755	-	0,6,6	-	-	-		
86	OHX	A2	1915	-	0,6,6	-	-	-		
86	OHX	A5	3631	87	0,6,6	-	-	-		
86	OHX	A1	3522	-	0,6,6	-	-	-		
86	OHX	A5	3492	86	0,6,6	-	-	-		
86	OHX	A2	1980	-	0,6,6	-	-	-		
86	OHX	A2	1964	-	0,6,6	-	-	-		
86	OHX	A5	3727	87	0,6,6	-	-	-		
86	OHX	A1	3540	-	0,6,6	-	-	-		
86	OHX	A2	1924	87	0,6,6	-	-	-		
86	OHX	A2	1925	-	0,6,6	-	-	-		
86	OHX	A1	3734	87	0,6,6	-	-	-		
86	OHX	A5	3685	-	0,6,6	-	-	-		
86	OHX	A1	3701	87	0,6,6	-	-	-		
86	OHX	A5	3796	-	0,6,6	-	-	-		
86	OHX	A3	206	-	0,6,6	-	-	-		
86	OHX	A6	2056	87	0,6,6	-	-	-		
86	OHX	A5	3638	-	0,6,6	-	-	-		
86	OHX	A5	3535	-	0,6,6	-	-	-		
86	OHX	A6	2027	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A6	2002	87	0,6,6	-	-	-		
86	OHX	A5	3728	-	0,6,6	-	-	-		
86	OHX	A5	3756	-	0,6,6	-	-	-		
86	OHX	A1	3429	87	0,6,6	-	-	-		
86	OHX	A1	3813	-	0,6,6	-	-	-		
86	OHX	A1	3576	-	0,6,6	-	-	-		
86	OHX	A1	3603	-	0,6,6	-	-	-		
86	OHX	A2	2018	87	0,6,6	-	-	-		
86	OHX	A5	3548	-	0,6,6	-	-	-		
86	OHX	A6	2039	-	0,6,6	-	-	-		
86	OHX	A5	3450	-	0,6,6	-	-	-		
86	OHX	A6	2063	-	0,6,6	-	-	-		
86	OHX	A1	3556	-	0,6,6	-	-	-		
86	OHX	A5	3502	-	0,6,6	-	-	-		
86	OHX	A5	3569	-	0,6,6	-	-	-		
86	OHX	A5	3593	-	0,6,6	-	-	-		
86	OHX	A5	3798	-	0,6,6	-	-	-		
86	OHX	A1	3525	87	0,6,6	-	-	-		
86	OHX	A5	3679	-	0,6,6	-	-	-		
86	OHX	A2	1913	87	0,6,6	-	-	-		
86	OHX	A5	3674	87	0,6,6	-	-	-		
86	OHX	A1	3640	-	0,6,6	-	-	-		
86	OHX	A2	2042	87	0,6,6	-	-	-		
86	OHX	A6	2067	87	0,6,6	-	-	-		
86	OHX	A5	3525	-	0,6,6	-	-	-		
86	OHX	A1	3462	-	0,6,6	-	-	-		
86	OHX	A5	3637	87	0,6,6	-	-	-		
86	OHX	A2	1908	-	0,6,6	-	-	-		
86	OHX	A1	3634	-	0,6,6	-	-	-		
86	OHX	A1	3452	87	0,6,6	-	-	-		
86	OHX	A2	1946	-	0,6,6	-	-	-		
86	OHX	A1	3410	-	0,6,6	-	-	-		
86	OHX	A5	3494	-	0,6,6	-	-	-		
86	OHX	A6	1988	-	0,6,6	-	-	-		
86	OHX	A5	3426	-	0,6,6	-	-	-		
86	OHX	A1	3446	87	0,6,6	-	-	-		
86	OHX	A2	1934	-	0,6,6	-	-	-		
86	OHX	A5	3531	-	0,6,6	-	-	-		
86	OHX	A5	3490	-	0,6,6	-	-	-		
86	OHX	A5	3497	-	0,6,6	-	-	-		
86	OHX	A5	3467	-	0,6,6	-	-	-		
86	OHX	A5	3627	87	0,6,6	-	-	-		
86	OHX	A5	3543	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3757	-	0,6,6	-	-	-		
86	OHX	A5	3652	87	0,6,6	-	-	-		
86	OHX	A5	3495	-	0,6,6	-	-	-		
86	OHX	A5	3707	87	0,6,6	-	-	-		
86	OHX	A5	3574	-	0,6,6	-	-	-		
86	OHX	A1	3759	87	0,6,6	-	-	-		
86	OHX	A5	3710	-	0,6,6	-	-	-		
86	OHX	A1	3516	-	0,6,6	-	-	-		
86	OHX	A5	3435	-	0,6,6	-	-	-		
86	OHX	A8	220	87	0,6,6	-	-	-		
86	OHX	A5	3551	-	0,6,6	-	-	-		
86	OHX	A2	1962	-	0,6,6	-	-	-		
86	OHX	A1	3561	-	0,6,6	-	-	-		
86	OHX	A1	3626	-	0,6,6	-	-	-		
86	OHX	A6	2054	87	0,6,6	-	-	-		
86	OHX	A5	3745	-	0,6,6	-	-	-		
86	OHX	A6	2062	-	0,6,6	-	-	-		
86	OHX	A5	3721	-	0,6,6	-	-	-		
86	OHX	A2	1902	-	0,6,6	-	-	-		
86	OHX	A1	3460	-	0,6,6	-	-	-		
86	OHX	A6	1932	-	0,6,6	-	-	-		
86	OHX	A2	2072	-	0,6,6	-	-	-		
86	OHX	A1	3593	-	0,6,6	-	-	-		
86	OHX	A5	3614	87	0,6,6	-	-	-		
86	OHX	A1	3643	87	0,6,6	-	-	-		
86	OHX	A6	1986	-	0,6,6	-	-	-		
86	OHX	A1	3599	87	0,6,6	-	-	-		
86	OHX	A5	3567	87	0,6,6	-	-	-		
86	OHX	A5	3791	-	0,6,6	-	-	-		
86	OHX	Cd	101	-	0,6,6	-	-	-		
86	OHX	A1	3796	-	0,6,6	-	-	-		
86	OHX	A2	2017	-	0,6,6	-	-	-		
86	OHX	A6	2011	87	0,6,6	-	-	-		
86	OHX	A6	2059	-	0,6,6	-	-	-		
86	OHX	A5	3717	-	0,6,6	-	-	-		
86	OHX	A6	1927	-	0,6,6	-	-	-		
86	OHX	Bj	102	-	0,6,6	-	-	-		
86	OHX	A1	3709	87	0,6,6	-	-	-		
86	OHX	A1	3541	87	0,6,6	-	-	-		
86	OHX	A5	3546	-	0,6,6	-	-	-		
86	OHX	A2	1978	-	0,6,6	-	-	-		
86	OHX	A5	3658	-	0,6,6	-	-	-		
86	OHX	A1	3586	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A6	2071	-	0,6,6	-	-	-		
86	OHX	A1	3780	-	0,6,6	-	-	-		
86	OHX	A2	1992	87	0,6,6	-	-	-		
86	OHX	A1	3731	-	0,6,6	-	-	-		
86	OHX	A1	3644	-	0,6,6	-	-	-		
86	OHX	A5	3659	-	0,6,6	-	-	-		
86	OHX	A5	3694	-	0,6,6	-	-	-		
86	OHX	A2	2059	-	0,6,6	-	-	-		
86	OHX	A1	3422	-	0,6,6	-	-	-		
86	OHX	A2	2053	87	0,6,6	-	-	-		
86	OHX	A1	3618	87	0,6,6	-	-	-		
86	OHX	A1	3729	87	0,6,6	-	-	-		
86	OHX	A1	3806	-	0,6,6	-	-	-		
86	OHX	A5	3711	-	0,6,6	-	-	-		
86	OHX	A1	3678	87	0,6,6	-	-	-		
86	OHX	A5	3692	-	0,6,6	-	-	-		
86	OHX	A1	3649	87	0,6,6	-	-	-		
86	OHX	A4	208	-	0,6,6	-	-	-		
86	OHX	A1	3445	87	0,6,6	-	-	-		
86	OHX	A2	2080	-	0,6,6	-	-	-		
86	OHX	A1	3617	-	0,6,6	-	-	-		
86	OHX	A6	2076	86	0,6,6	-	-	-		
86	OHX	A8	215	-	0,6,6	-	-	-		
86	OHX	A1	3744	-	0,6,6	-	-	-		
86	OHX	A1	3427	87	0,6,6	-	-	-		
86	OHX	A5	3689	-	0,6,6	-	-	-		
86	OHX	A5	3511	-	0,6,6	-	-	-		
86	OHX	A1	3581	87	0,6,6	-	-	-		
86	OHX	A6	1969	87	0,6,6	-	-	-		
86	OHX	AI	301	-	0,6,6	-	-	-		
86	OHX	A1	3585	-	0,6,6	-	-	-		
86	OHX	Bf	201	-	0,6,6	-	-	-		
86	OHX	A5	3527	-	0,6,6	-	-	-		
86	OHX	A1	3737	-	0,6,6	-	-	-		
86	OHX	A6	2095	-	0,6,6	-	-	-		
86	OHX	A5	3440	-	0,6,6	-	-	-		
86	OHX	A6	2030	-	0,6,6	-	-	-		
86	OHX	A5	3819	87	0,6,6	-	-	-		
86	OHX	A5	3705	-	0,6,6	-	-	-		
86	OHX	A5	3539	-	0,6,6	-	-	-		
86	OHX	A5	3804	-	0,6,6	-	-	-		
86	OHX	A5	3509	-	0,6,6	-	-	-		
86	OHX	A8	218	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	CG	302	-	0,6,6	-	-	-		
86	OHX	A5	3612	87	0,6,6	-	-	-		
86	OHX	A6	2012	-	0,6,6	-	-	-		
86	OHX	A1	3788	-	0,6,6	-	-	-		
86	OHX	A5	3576	87	0,6,6	-	-	-		
86	OHX	DG	301	-	0,6,6	-	-	-		
86	OHX	A5	3457	86	0,6,6	-	-	-		
86	OHX	A4	205	-	0,6,6	-	-	-		
86	OHX	A5	3664	87	0,6,6	-	-	-		
86	OHX	A2	1999	-	0,6,6	-	-	-		
86	OHX	A5	3769	-	0,6,6	-	-	-		
86	OHX	A6	2055	-	0,6,6	-	-	-		
86	OHX	A1	3768	87	0,6,6	-	-	-		
86	OHX	A1	3666	-	0,6,6	-	-	-		
86	OHX	A5	3443	87	0,6,6	-	-	-		
86	OHX	A5	3499	87	0,6,6	-	-	-		
86	OHX	A6	1973	87	0,6,6	-	-	-		
86	OHX	A1	3787	-	0,6,6	-	-	-		
86	OHX	A2	1922	87	0,6,6	-	-	-		
86	OHX	A1	3786	-	0,6,6	-	-	-		
86	OHX	A6	1991	-	0,6,6	-	-	-		
86	OHX	A7	202	-	0,6,6	-	-	-		
86	OHX	A6	2036	-	0,6,6	-	-	-		
86	OHX	A5	3787	-	0,6,6	-	-	-		
86	OHX	Dj	104	-	0,6,6	-	-	-		
86	OHX	A5	3690	-	0,6,6	-	-	-		
86	OHX	A5	3734	87	0,6,6	-	-	-		
86	OHX	A5	3628	-	0,6,6	-	-	-		
86	OHX	A5	3592	-	0,6,6	-	-	-		
86	OHX	A1	3629	87	0,6,6	-	-	-		
86	OHX	A2	1973	-	0,6,6	-	-	-		
86	OHX	A1	3810	-	0,6,6	-	-	-		
86	OHX	A5	3553	-	0,6,6	-	-	-		
86	OHX	A6	2083	-	0,6,6	-	-	-		
86	OHX	A1	3739	-	0,6,6	-	-	-		
86	OHX	A1	3610	-	0,6,6	-	-	-		
86	OHX	A5	3725	-	0,6,6	-	-	-		
86	OHX	A5	3654	-	0,6,6	-	-	-		
86	OHX	A5	3682	-	0,6,6	-	-	-		
86	OHX	A5	3510	-	0,6,6	-	-	-		
86	OHX	A1	3486	-	0,6,6	-	-	-		
86	OHX	A2	1955	-	0,6,6	-	-	-		
86	OHX	A6	1981	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3752	-	0,6,6	-	-	-		
86	OHX	A3	210	-	0,6,6	-	-	-		
86	OHX	A8	211	-	0,6,6	-	-	-		
86	OHX	A1	3473	87	0,6,6	-	-	-		
86	OHX	A1	3612	-	0,6,6	-	-	-		
86	OHX	A1	3419	-	0,6,6	-	-	-		
86	OHX	A6	2032	-	0,6,6	-	-	-		
86	OHX	A1	3582	87	0,6,6	-	-	-		
86	OHX	A1	3619	-	0,6,6	-	-	-		
86	OHX	A5	3646	-	0,6,6	-	-	-		
86	OHX	A2	2070	-	0,6,6	-	-	-		
86	OHX	A1	3642	-	0,6,6	-	-	-		
86	OHX	A6	2015	-	0,6,6	-	-	-		
86	OHX	A5	3418	87	0,6,6	-	-	-		
86	OHX	A5	3632	-	0,6,6	-	-	-		
86	OHX	A5	3508	-	0,6,6	-	-	-		
86	OHX	A8	219	-	0,6,6	-	-	-		
86	OHX	A6	2023	-	0,6,6	-	-	-		
86	OHX	A5	3716	-	0,6,6	-	-	-		
86	OHX	A2	2009	-	0,6,6	-	-	-		
86	OHX	A4	211	-	0,6,6	-	-	-		
86	OHX	A1	3624	-	0,6,6	-	-	-		
86	OHX	A2	2056	-	0,6,6	-	-	-		
86	OHX	A1	3484	-	0,6,6	-	-	-		
86	OHX	A5	3752	-	0,6,6	-	-	-		
86	OHX	A6	1966	87	0,6,6	-	-	-		
86	OHX	A1	3456	87	0,6,6	-	-	-		
86	OHX	A5	3601	-	0,6,6	-	-	-		
86	OHX	A2	1977	-	0,6,6	-	-	-		
86	OHX	A1	3491	-	0,6,6	-	-	-		
86	OHX	A5	3718	-	0,6,6	-	-	-		
86	OHX	A6	1953	-	0,6,6	-	-	-		
86	OHX	A5	3516	-	0,6,6	-	-	-		
86	OHX	A1	3591	-	0,6,6	-	-	-		
86	OHX	A5	3482	87	0,6,6	-	-	-		
86	OHX	A1	3706	-	0,6,6	-	-	-		
86	OHX	A5	3552	87	0,6,6	-	-	-		
86	OHX	A5	3453	-	0,6,6	-	-	-		
86	OHX	A1	3433	87	0,6,6	-	-	-		
86	OHX	A2	1935	-	0,6,6	-	-	-		
86	OHX	A2	2019	-	0,6,6	-	-	-		
86	OHX	A5	3754	-	0,6,6	-	-	-		
86	OHX	A6	1949	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3641	-	0,6,6	-	-	-		
86	OHX	A5	3715	-	0,6,6	-	-	-		
86	OHX	A4	202	-	0,6,6	-	-	-		
86	OHX	A1	3468	87	0,6,6	-	-	-		
86	OHX	A1	3583	87	0,6,6	-	-	-		
86	OHX	A2	2086	-	0,6,6	-	-	-		
86	OHX	A1	3659	87	0,6,6	-	-	-		
86	OHX	A5	3784	-	0,6,6	-	-	-		
86	OHX	A5	3793	87	0,6,6	-	-	-		
86	OHX	A6	1930	-	0,6,6	-	-	-		
86	OHX	A5	3762	-	0,6,6	-	-	-		
86	OHX	A2	1996	-	0,6,6	-	-	-		
86	OHX	A6	1998	-	0,6,6	-	-	-		
86	OHX	A6	1936	-	0,6,6	-	-	-		
86	OHX	A5	3458	-	0,6,6	-	-	-		
86	OHX	A4	203	-	0,6,6	-	-	-		
86	OHX	DP	201	-	0,6,6	-	-	-		
86	OHX	A1	3448	-	0,6,6	-	-	-		
86	OHX	A2	2029	-	0,6,6	-	-	-		
86	OHX	A5	3480	-	0,6,6	-	-	-		
86	OHX	A5	3459	-	0,6,6	-	-	-		
86	OHX	A5	3599	-	0,6,6	-	-	-		
86	OHX	A5	3680	-	0,6,6	-	-	-		
86	OHX	A5	3790	-	0,6,6	-	-	-		
86	OHX	A6	2005	-	0,6,6	-	-	-		
86	OHX	A2	1930	-	0,6,6	-	-	-		
86	OHX	A6	1925	87	0,6,6	-	-	-		
86	OHX	A5	3653	-	0,6,6	-	-	-		
86	OHX	A1	3631	-	0,6,6	-	-	-		
86	OHX	A3	205	-	0,6,6	-	-	-		
86	OHX	A6	2024	-	0,6,6	-	-	-		
86	OHX	A5	3809	86	0,6,6	-	-	-		
86	OHX	A5	3402	-	0,6,6	-	-	-		
86	OHX	A5	3579	87	0,6,6	-	-	-		
86	OHX	A6	2097	-	0,6,6	-	-	-		
86	OHX	A1	3660	87	0,6,6	-	-	-		
86	OHX	A1	3685	-	0,6,6	-	-	-		
86	OHX	A1	3482	-	0,6,6	-	-	-		
86	OHX	A5	3656	-	0,6,6	-	-	-		
86	OHX	A1	3683	-	0,6,6	-	-	-		
86	OHX	A1	3440	-	0,6,6	-	-	-		
86	OHX	A1	3758	87	0,6,6	-	-	-		
86	OHX	A1	3533	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3728	-	0,6,6	-	-	-		
86	OHX	A2	1907	-	0,6,6	-	-	-		
86	OHX	A2	1956	-	0,6,6	-	-	-		
86	OHX	A2	1997	-	0,6,6	-	-	-		
86	OHX	A2	1995	-	0,6,6	-	-	-		
86	OHX	A5	3429	-	0,6,6	-	-	-		
86	OHX	A2	2006	-	0,6,6	-	-	-		
86	OHX	A1	3735	-	0,6,6	-	-	-		
86	OHX	A5	3501	-	0,6,6	-	-	-		
86	OHX	A1	3548	-	0,6,6	-	-	-		
86	OHX	A1	3604	-	0,6,6	-	-	-		
86	OHX	CB	301	-	0,6,6	-	-	-		
86	OHX	A1	3664	-	0,6,6	-	-	-		
86	OHX	A5	3589	-	0,6,6	-	-	-		
86	OHX	A5	3566	87	0,6,6	-	-	-		
86	OHX	A1	3502	-	0,6,6	-	-	-		
86	OHX	A1	3569	-	0,6,6	-	-	-		
86	OHX	A1	3764	87	0,6,6	-	-	-		
86	OHX	A5	3714	87	0,6,6	-	-	-		
86	OHX	A2	2034	-	0,6,6	-	-	-		
86	OHX	A1	3776	-	0,6,6	-	-	-		
86	OHX	A5	3820	87	0,6,6	-	-	-		
86	OHX	A1	3790	-	0,6,6	-	-	-		
86	OHX	A5	3575	87	0,6,6	-	-	-		
86	OHX	A1	3674	-	0,6,6	-	-	-		
86	OHX	A5	3421	-	0,6,6	-	-	-		
86	OHX	A6	1950	-	0,6,6	-	-	-		
86	OHX	A5	3620	-	0,6,6	-	-	-		
86	OHX	A1	3613	-	0,6,6	-	-	-		
86	OHX	CY	202	-	0,6,6	-	-	-		
86	OHX	A1	3633	-	0,6,6	-	-	-		
86	OHX	A1	3653	87	0,6,6	-	-	-		
86	OHX	BI	303	-	0,6,6	-	-	-		
86	OHX	A1	3426	-	0,6,6	-	-	-		
86	OHX	A2	1942	87	0,6,6	-	-	-		
86	OHX	A1	3483	-	0,6,6	-	-	-		
86	OHX	DR	201	-	0,6,6	-	-	-		
86	OHX	A2	1923	-	0,6,6	-	-	-		
86	OHX	A1	3531	87	0,6,6	-	-	-		
86	OHX	A5	3677	-	0,6,6	-	-	-		
86	OHX	A1	3497	-	0,6,6	-	-	-		
86	OHX	A5	3446	-	0,6,6	-	-	-		
86	OHX	A5	3598	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A5	3425	87	0,6,6	-	-	-		
86	OHX	A1	3455	-	0,6,6	-	-	-		
86	OHX	A1	3528	87	0,6,6	-	-	-		
86	OHX	BR	201	-	0,6,6	-	-	-		
86	OHX	A4	204	-	0,6,6	-	-	-		
86	OHX	A2	2061	-	0,6,6	-	-	-		
86	OHX	A1	3495	-	0,6,6	-	-	-		
86	OHX	A1	3574	-	0,6,6	-	-	-		
86	OHX	A6	2019	87	0,6,6	-	-	-		
86	OHX	A5	3464	-	0,6,6	-	-	-		
86	OHX	A5	3528	-	0,6,6	-	-	-		
86	OHX	A6	1971	-	0,6,6	-	-	-		
86	OHX	A6	1919	86	0,6,6	-	-	-		
86	OHX	A1	3578	-	0,6,6	-	-	-		
86	OHX	A5	3570	-	0,6,6	-	-	-		
86	OHX	A1	3551	-	0,6,6	-	-	-		
86	OHX	A1	3745	-	0,6,6	-	-	-		
86	OHX	A5	3438	-	0,6,6	-	-	-		
86	OHX	A5	3594	-	0,6,6	-	-	-		
86	OHX	A5	3561	-	0,6,6	-	-	-		
86	OHX	A1	3721	-	0,6,6	-	-	-		
86	OHX	A1	3630	87	0,6,6	-	-	-		
86	OHX	A6	2091	-	0,6,6	-	-	-		
86	OHX	A1	3584	-	0,6,6	-	-	-		
86	OHX	CP	202	17	0,6,6	-	-	-		
86	OHX	A5	3460	87	0,6,6	-	-	-		
86	OHX	A5	3795	86	0,6,6	-	-	-		
86	OHX	A1	3614	-	0,6,6	-	-	-		
86	OHX	A5	3768	-	0,6,6	-	-	-		
86	OHX	A4	210	87	0,6,6	-	-	-		
86	OHX	A2	1910	-	0,6,6	-	-	-		
86	OHX	A5	3671	-	0,6,6	-	-	-		
86	OHX	A6	1975	-	0,6,6	-	-	-		
86	OHX	A5	3476	87	0,6,6	-	-	-		
86	OHX	A1	3567	87	0,6,6	-	-	-		
86	OHX	A1	3791	87	0,6,6	-	-	-		
86	OHX	A1	3542	-	0,6,6	-	-	-		
86	OHX	A6	2018	-	0,6,6	-	-	-		
86	OHX	Ag	401	-	0,6,6	-	-	-		
86	OHX	A5	3673	-	0,6,6	-	-	-		
86	OHX	A5	3668	87	0,6,6	-	-	-		
86	OHX	A2	1944	87	0,6,6	-	-	-		
86	OHX	A1	3562	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3717	-	0,6,6	-	-	-		
86	OHX	A2	2064	-	0,6,6	-	-	-		
86	OHX	A5	3750	87	0,6,6	-	-	-		
86	OHX	A7	212	87	0,6,6	-	-	-		
86	OHX	A1	3794	-	0,6,6	-	-	-		
86	OHX	A5	3432	-	0,6,6	-	-	-		
86	OHX	Cg	401	-	0,6,6	-	-	-		
86	OHX	A6	2052	-	0,6,6	-	-	-		
86	OHX	A5	3517	-	0,6,6	-	-	-		
86	OHX	A1	3658	87	0,6,6	-	-	-		
86	OHX	A6	2038	87	0,6,6	-	-	-		
86	OHX	A6	2053	-	0,6,6	-	-	-		
86	OHX	A5	3609	-	0,6,6	-	-	-		
86	OHX	A6	1989	-	0,6,6	-	-	-		
86	OHX	A2	2011	-	0,6,6	-	-	-		
86	OHX	A6	1948	-	0,6,6	-	-	-		
86	OHX	A1	3694	-	0,6,6	-	-	-		
86	OHX	A2	2010	87	0,6,6	-	-	-		
86	OHX	A1	3457	-	0,6,6	-	-	-		
86	OHX	A6	2099	87	0,6,6	-	-	-		
86	OHX	A7	209	87	0,6,6	-	-	-		
86	OHX	A5	3454	-	0,6,6	-	-	-		
86	OHX	A6	1924	-	0,6,6	-	-	-		
86	OHX	A2	2007	-	0,6,6	-	-	-		
86	OHX	A5	3823	-	0,6,6	-	-	-		
86	OHX	A6	2057	-	0,6,6	-	-	-		
86	OHX	Bj	101	87	0,6,6	-	-	-		
86	OHX	A5	3765	-	0,6,6	-	-	-		
86	OHX	A5	3661	87	0,6,6	-	-	-		
86	OHX	A5	3772	87	0,6,6	-	-	-		
86	OHX	A8	209	-	0,6,6	-	-	-		
86	OHX	A1	3711	87	0,6,6	-	-	-		
86	OHX	Bo	201	87	0,6,6	-	-	-		
86	OHX	A2	1989	-	0,6,6	-	-	-		
86	OHX	A1	3795	-	0,6,6	-	-	-		
86	OHX	A2	1929	87	0,6,6	-	-	-		
86	OHX	A2	1954	-	0,6,6	-	-	-		
86	OHX	A5	3550	-	0,6,6	-	-	-		
86	OHX	A5	3811	-	0,6,6	-	-	-		
86	OHX	A2	1948	87	0,6,6	-	-	-		
86	OHX	A8	213	-	0,6,6	-	-	-		
86	OHX	A5	3812	-	0,6,6	-	-	-		
86	OHX	A2	1904	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3692	-	0,6,6	-	-	-		
86	OHX	DB	401	-	0,6,6	-	-	-		
86	OHX	A1	3438	86	0,6,6	-	-	-		
86	OHX	A5	3810	-	0,6,6	-	-	-		
86	OHX	A2	1979	-	0,6,6	-	-	-		
86	OHX	A5	3423	87	0,6,6	-	-	-		
86	OHX	A1	3470	-	0,6,6	-	-	-		
86	OHX	A8	207	-	0,6,6	-	-	-		
86	OHX	A1	3526	87	0,6,6	-	-	-		
86	OHX	A6	2068	-	0,6,6	-	-	-		
86	OHX	DH	201	-	0,6,6	-	-	-		
86	OHX	A2	1928	-	0,6,6	-	-	-		
86	OHX	A1	3689	-	0,6,6	-	-	-		
86	OHX	A2	2075	-	0,6,6	-	-	-		
86	OHX	A2	2031	-	0,6,6	-	-	-		
86	OHX	A7	206	-	0,6,6	-	-	-		
86	OHX	A5	3473	-	0,6,6	-	-	-		
86	OHX	A1	3527	-	0,6,6	-	-	-		
86	OHX	A1	3403	-	0,6,6	-	-	-		
86	OHX	A1	3747	87	0,6,6	-	-	-		
86	OHX	A5	3814	-	0,6,6	-	-	-		
86	OHX	A2	2015	-	0,6,6	-	-	-		
86	OHX	A5	3472	87	0,6,6	-	-	-		
86	OHX	A2	1970	-	0,6,6	-	-	-		
86	OHX	A7	208	87	0,6,6	-	-	-		
86	OHX	A5	3615	-	0,6,6	-	-	-		
86	OHX	A4	206	-	0,6,6	-	-	-		
86	OHX	A5	3712	-	0,6,6	-	-	-		
86	OHX	A5	3560	-	0,6,6	-	-	-		
86	OHX	A8	208	87	0,6,6	-	-	-		
86	OHX	A5	3496	-	0,6,6	-	-	-		
86	OHX	A5	3437	-	0,6,6	-	-	-		
86	OHX	A1	3675	-	0,6,6	-	-	-		
86	OHX	A1	3430	-	0,6,6	-	-	-		
86	OHX	DJ	201	-	0,6,6	-	-	-		
86	OHX	A1	3769	-	0,6,6	-	-	-		
86	OHX	A6	2045	87	0,6,6	-	-	-		
86	OHX	A5	3449	-	0,6,6	-	-	-		
86	OHX	A5	3778	-	0,6,6	-	-	-		
86	OHX	A2	2049	-	0,6,6	-	-	-		
86	OHX	A1	3543	-	0,6,6	-	-	-		
86	OHX	A1	3544	-	0,6,6	-	-	-		
86	OHX	A1	3499	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A6	2079	-	0,6,6	-	-	-		
86	OHX	A5	3722	-	0,6,6	-	-	-		
86	OHX	A5	3428	87	0,6,6	-	-	-		
86	OHX	A5	3536	-	0,6,6	-	-	-		
86	OHX	A1	3616	-	0,6,6	-	-	-		
86	OHX	A1	3761	-	0,6,6	-	-	-		
86	OHX	BO	201	-	0,6,6	-	-	-		
86	OHX	A5	3724	-	0,6,6	-	-	-		
86	OHX	A1	3690	-	0,6,6	-	-	-		
86	OHX	A5	3660	-	0,6,6	-	-	-		
86	OHX	A1	3697	-	0,6,6	-	-	-		
86	OHX	A1	3434	87	0,6,6	-	-	-		
86	OHX	A1	3505	-	0,6,6	-	-	-		
86	OHX	A1	3592	-	0,6,6	-	-	-		
86	OHX	A1	3553	-	0,6,6	-	-	-		
86	OHX	A4	201	-	0,6,6	-	-	-		
86	OHX	A2	2050	-	0,6,6	-	-	-		
86	OHX	A5	3441	-	0,6,6	-	-	-		
86	OHX	A5	3730	87	0,6,6	-	-	-		
86	OHX	A5	3434	-	0,6,6	-	-	-		
86	OHX	A5	3420	-	0,6,6	-	-	-		
86	OHX	A1	3654	-	0,6,6	-	-	-		
86	OHX	A1	3682	-	0,6,6	-	-	-		
86	OHX	A6	1956	-	0,6,6	-	-	-		
86	OHX	A5	3515	87	0,6,6	-	-	-		
86	OHX	A1	3740	-	0,6,6	-	-	-		
86	OHX	A5	3665	-	0,6,6	-	-	-		
86	OHX	A5	3518	-	0,6,6	-	-	-		
86	OHX	A5	3621	87	0,6,6	-	-	-		
86	OHX	A5	3740	-	0,6,6	-	-	-		
86	OHX	A5	3523	-	0,6,6	-	-	-		
86	OHX	A1	3437	87	0,6,6	-	-	-		
86	OHX	A5	3414	-	0,6,6	-	-	-		
86	OHX	A1	3418	-	0,6,6	-	-	-		
86	OHX	A1	3507	-	0,6,6	-	-	-		
86	OHX	A1	3508	87	0,6,6	-	-	-		
86	OHX	A2	1972	-	0,6,6	-	-	-		
86	OHX	A2	1957	-	0,6,6	-	-	-		
86	OHX	A2	2046	-	0,6,6	-	-	-		
86	OHX	A5	3613	-	0,6,6	-	-	-		
86	OHX	A6	1905	-	0,6,6	-	-	-		
86	OHX	A5	3405	87	0,6,6	-	-	-		
86	OHX	DC	402	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	BB	402	-	0,6,6	-	-	-		
86	OHX	A5	3753	-	0,6,6	-	-	-		
86	OHX	A5	3783	87	0,6,6	-	-	-		
86	OHX	A6	1977	-	0,6,6	-	-	-		
86	OHX	A5	3580	87	0,6,6	-	-	-		
86	OHX	A5	3469	-	0,6,6	-	-	-		
86	OHX	A5	3781	-	0,6,6	-	-	-		
86	OHX	A2	1986	-	0,6,6	-	-	-		
86	OHX	A5	3663	-	0,6,6	-	-	-		
86	OHX	A1	3655	87	0,6,6	-	-	-		
86	OHX	A1	3814	-	0,6,6	-	-	-		
86	OHX	A5	3792	-	0,6,6	-	-	-		
86	OHX	A2	1905	-	0,6,6	-	-	-		
86	OHX	A1	3718	-	0,6,6	-	-	-		
86	OHX	A5	3670	-	0,6,6	-	-	-		
86	OHX	A1	3413	-	0,6,6	-	-	-		
86	OHX	A6	1984	-	0,6,6	-	-	-		
86	OHX	A6	1912	-	0,6,6	-	-	-		
86	OHX	A5	3746	-	0,6,6	-	-	-		
86	OHX	A5	3821	-	0,6,6	-	-	-		
86	OHX	A5	3578	87	0,6,6	-	-	-		
86	OHX	A1	3453	-	0,6,6	-	-	-		
86	OHX	A5	3591	-	0,6,6	-	-	-		
86	OHX	A8	203	-	0,6,6	-	-	-		
86	OHX	A5	3789	-	0,6,6	-	-	-		
86	OHX	BD	301	-	0,6,6	-	-	-		
86	OHX	A6	1951	87	0,6,6	-	-	-		
86	OHX	A1	3609	-	0,6,6	-	-	-		
86	OHX	A1	3715	-	0,6,6	-	-	-		
86	OHX	A1	3749	-	0,6,6	-	-	-		
86	OHX	A5	3549	-	0,6,6	-	-	-		
86	OHX	A6	1906	-	0,6,6	-	-	-		
86	OHX	A6	2029	87	0,6,6	-	-	-		
86	OHX	A8	216	-	0,6,6	-	-	-		
86	OHX	A5	3544	-	0,6,6	-	-	-		
86	OHX	A1	3793	-	0,6,6	-	-	-		
86	OHX	A5	3729	-	0,6,6	-	-	-		
86	OHX	A5	3672	-	0,6,6	-	-	-		
86	OHX	A5	3545	-	0,6,6	-	-	-		
86	OHX	A2	2082	-	0,6,6	-	-	-		
86	OHX	A2	1988	-	0,6,6	-	-	-		
86	OHX	A5	3489	-	0,6,6	-	-	-		
86	OHX	A6	1908	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3458	-	0,6,6	-	-	-		
86	OHX	A2	1967	-	0,6,6	-	-	-		
86	OHX	A1	3459	87	0,6,6	-	-	-		
86	OHX	A5	3688	-	0,6,6	-	-	-		
86	OHX	A1	3732	-	0,6,6	-	-	-		
86	OHX	A2	2048	-	0,6,6	-	-	-		
86	OHX	A2	2000	-	0,6,6	-	-	-		
86	OHX	BP	202	-	0,6,6	-	-	-		
86	OHX	A5	3573	-	0,6,6	-	-	-		
86	OHX	A1	3513	-	0,6,6	-	-	-		
86	OHX	A6	1931	87	0,6,6	-	-	-		
86	OHX	A5	3524	87	0,6,6	-	-	-		
86	OHX	A5	3493	-	0,6,6	-	-	-		
86	OHX	A5	3732	36	0,6,6	-	-	-		
86	OHX	A1	3727	87	0,6,6	-	-	-		
86	OHX	A1	3402	-	0,6,6	-	-	-		
86	OHX	A5	3736	87	0,6,6	-	-	-		
86	OHX	A5	3475	-	0,6,6	-	-	-		
86	OHX	A5	3503	87	0,6,6	-	-	-		
86	OHX	A1	3804	-	0,6,6	-	-	-		
86	OHX	A6	1994	-	0,6,6	-	-	-		
86	OHX	A2	2076	-	0,6,6	-	-	-		
86	OHX	A1	3763	-	0,6,6	-	-	-		
86	OHX	A1	3622	87	0,6,6	-	-	-		
86	OHX	A5	3568	-	0,6,6	-	-	-		
86	OHX	A1	3748	-	0,6,6	-	-	-		
86	OHX	A1	3431	87	0,6,6	-	-	-		
86	OHX	A6	2016	-	0,6,6	-	-	-		
86	OHX	A5	3683	-	0,6,6	-	-	-		
86	OHX	A1	3679	-	0,6,6	-	-	-		
86	OHX	A5	3529	87	0,6,6	-	-	-		
86	OHX	A6	2058	-	0,6,6	-	-	-		
86	OHX	A6	1967	87	0,6,6	-	-	-		
86	OHX	A5	3422	87	0,6,6	-	-	-		
86	OHX	A6	1943	-	0,6,6	-	-	-		
86	OHX	A1	3501	87	0,6,6	-	-	-		
86	OHX	A2	2037	-	0,6,6	-	-	-		
86	OHX	A5	3407	-	0,6,6	-	-	-		
86	OHX	A5	3777	-	0,6,6	-	-	-		
86	OHX	A1	3627	-	0,6,6	-	-	-		
86	OHX	A1	3408	-	0,6,6	-	-	-		
86	OHX	A1	3667	-	0,6,6	-	-	-		
86	OHX	A1	3523	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3714	-	0,6,6	-	-	-		
86	OHX	A3	212	-	0,6,6	-	-	-		
86	OHX	A5	3776	87	0,6,6	-	-	-		
86	OHX	A1	3421	-	0,6,6	-	-	-		
86	OHX	A1	3546	-	0,6,6	-	-	-		
86	OHX	A1	3416	-	0,6,6	-	-	-		
86	OHX	A5	3586	-	0,6,6	-	-	-		
86	OHX	A1	3466	-	0,6,6	-	-	-		
86	OHX	A1	3490	87	0,6,6	-	-	-		
86	OHX	A1	3668	-	0,6,6	-	-	-		
86	OHX	A5	3739	-	0,6,6	-	-	-		
86	OHX	A1	3596	87	0,6,6	-	-	-		
86	OHX	A1	3750	87	0,6,6	-	-	-		
86	OHX	A2	2043	-	0,6,6	-	-	-		
86	OHX	A1	3425	-	0,6,6	-	-	-		
86	OHX	A1	3707	-	0,6,6	-	-	-		
86	OHX	A5	3534	-	0,6,6	-	-	-		
86	OHX	A1	3695	-	0,6,6	-	-	-		
86	OHX	A1	3570	87	0,6,6	-	-	-		
86	OHX	A1	3730	87	0,6,6	-	-	-		
86	OHX	A6	1958	-	0,6,6	-	-	-		
86	OHX	A1	3772	-	0,6,6	-	-	-		
86	OHX	A5	3617	87	0,6,6	-	-	-		
86	OHX	A6	1990	87	0,6,6	-	-	-		
86	OHX	A1	3594	-	0,6,6	-	-	-		
86	OHX	A5	3741	-	0,6,6	-	-	-		
86	OHX	A1	3777	-	0,6,6	-	-	-		
86	OHX	A2	1981	-	0,6,6	-	-	-		
86	OHX	CN	201	-	0,6,6	-	-	-		
86	OHX	A5	3743	-	0,6,6	-	-	-		
86	OHX	A5	3461	87	0,6,6	-	-	-		
86	OHX	Df	201	-	0,6,6	-	-	-		
86	OHX	A5	3651	-	0,6,6	-	-	-		
86	OHX	A5	3463	-	0,6,6	-	-	-		
86	OHX	A5	3521	86	0,6,6	-	-	-		
86	OHX	A5	3607	-	0,6,6	-	-	-		
86	OHX	A7	204	87	0,6,6	-	-	-		
86	OHX	A1	3671	87	0,6,6	-	-	-		
86	OHX	A1	3532	-	0,6,6	-	-	-		
86	OHX	Ad	101	-	0,6,6	-	-	-		
86	OHX	A6	1976	-	0,6,6	-	-	-		
86	OHX	A1	3637	-	0,6,6	-	-	-		
86	OHX	A5	3471	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	BC	401	-	0,6,6	-	-	-		
86	OHX	A5	3706	-	0,6,6	-	-	-		
86	OHX	A1	3779	-	0,6,6	-	-	-		
86	OHX	A6	1917	-	0,6,6	-	-	-		
86	OHX	Dg	201	-	0,6,6	-	-	-		
86	OHX	A1	3530	-	0,6,6	-	-	-		
86	OHX	A2	2081	-	0,6,6	-	-	-		
86	OHX	A1	3467	-	0,6,6	-	-	-		
86	OHX	A6	2061	-	0,6,6	-	-	-		
86	OHX	A1	3432	-	0,6,6	-	-	-		
86	OHX	A5	3415	-	0,6,6	-	-	-		
86	OHX	A1	3517	87	0,6,6	-	-	-		
86	OHX	A5	3433	87	0,6,6	-	-	-		
86	OHX	A1	3691	-	0,6,6	-	-	-		
86	OHX	A6	1918	-	0,6,6	-	-	-		
86	OHX	CS	201	-	0,6,6	-	-	-		
86	OHX	A5	3478	-	0,6,6	-	-	-		
86	OHX	A6	2033	-	0,6,6	-	-	-		
86	OHX	A5	3448	87	0,6,6	-	-	-		
86	OHX	A6	2072	-	0,6,6	-	-	-		
86	OHX	A4	207	-	0,6,6	-	-	-		
86	OHX	A1	3549	-	0,6,6	-	-	-		
86	OHX	A5	3691	-	0,6,6	-	-	-		
86	OHX	A2	1949	-	0,6,6	-	-	-		
86	OHX	A5	3704	87	0,6,6	-	-	-		
86	OHX	A5	3427	-	0,6,6	-	-	-		
86	OHX	A5	3751	-	0,6,6	-	-	-		
86	OHX	A1	3812	87	0,6,6	-	-	-		
86	OHX	A6	1959	87	0,6,6	-	-	-		
86	OHX	A2	2054	-	0,6,6	-	-	-		
86	OHX	A5	3470	86	0,6,6	-	-	-		
86	OHX	A5	3619	-	0,6,6	-	-	-		
86	OHX	A1	3590	-	0,6,6	-	-	-		
86	OHX	A5	3687	87	0,6,6	-	-	-		
86	OHX	A2	1927	87	0,6,6	-	-	-		
86	OHX	A7	201	-	0,6,6	-	-	-		
86	OHX	A5	3731	-	0,6,6	-	-	-		
86	OHX	A6	1997	-	0,6,6	-	-	-		
86	OHX	De	201	-	0,6,6	-	-	-		
86	OHX	A2	2026	-	0,6,6	-	-	-		
86	OHX	A6	2086	-	0,6,6	-	-	-		
86	OHX	A5	3605	-	0,6,6	-	-	-		
86	OHX	A8	214	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	A1	3601	-	0,6,6	-	-	-		
86	OHX	A1	3439	86	0,6,6	-	-	-		
86	OHX	A3	207	-	0,6,6	-	-	-		
86	OHX	A5	3797	87	0,6,6	-	-	-		
86	OHX	A2	1968	-	0,6,6	-	-	-		
86	OHX	A1	3798	-	0,6,6	-	-	-		
86	OHX	A6	1946	-	0,6,6	-	-	-		
86	OHX	A5	3537	-	0,6,6	-	-	-		
86	OHX	A2	1914	-	0,6,6	-	-	-		
86	OHX	A5	3565	-	0,6,6	-	-	-		
86	OHX	A2	2087	-	0,6,6	-	-	-		
86	OHX	A5	3803	87	0,6,6	-	-	-		
86	OHX	A6	1933	-	0,6,6	-	-	-		
86	OHX	A1	3712	-	0,6,6	-	-	-		
86	OHX	A5	3649	-	0,6,6	-	-	-		
86	OHX	A1	3560	-	0,6,6	-	-	-		
86	OHX	A5	3760	-	0,6,6	-	-	-		
86	OHX	A6	1941	-	0,6,6	-	-	-		
86	OHX	A1	3496	-	0,6,6	-	-	-		
86	OHX	A6	1964	-	0,6,6	-	-	-		
86	OHX	A5	3702	-	0,6,6	-	-	-		
86	OHX	A5	3738	-	0,6,6	-	-	-		
86	OHX	A6	2008	-	0,6,6	-	-	-		
86	OHX	A1	3606	-	0,6,6	-	-	-		
86	OHX	A5	3693	87	0,6,6	-	-	-		
86	OHX	A5	3483	-	0,6,6	-	-	-		
86	OHX	A1	3449	87	0,6,6	-	-	-		
86	OHX	Bb	101	-	0,6,6	-	-	-		
86	OHX	A5	3606	-	0,6,6	-	-	-		
86	OHX	Do	201	87	0,6,6	-	-	-		
86	OHX	A5	3782	-	0,6,6	-	-	-		
86	OHX	A1	3710	87	0,6,6	-	-	-		
86	OHX	A2	1941	-	0,6,6	-	-	-		
86	OHX	A1	3428	-	0,6,6	-	-	-		
86	OHX	A6	2094	87	0,6,6	-	-	-		
86	OHX	A2	1998	-	0,6,6	-	-	-		
86	OHX	A1	3608	-	0,6,6	-	-	-		
86	OHX	A5	3616	-	0,6,6	-	-	-		

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

660 monomers are involved in 1432 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A6	2069	OHX	2	0
86	A2	1940	OHX	5	0
86	A5	3763	OHX	4	0
86	A2	1921	OHX	6	0
86	A5	3622	OHX	1	0
86	A2	2002	OHX	3	0
86	A1	3704	OHX	2	0
86	A5	3700	OHX	2	0
86	A6	2001	OHX	1	0
86	A1	3559	OHX	1	0
86	A2	1919	OHX	1	0
86	A2	2051	OHX	2	0
86	A2	2063	OHX	1	0
86	A1	3621	OHX	1	0
86	A1	3632	OHX	2	0
86	A5	3436	OHX	1	0
86	A1	3414	OHX	5	0
86	A6	1942	OHX	1	0
86	A6	2085	OHX	1	0
86	A2	1963	OHX	1	0
86	A5	3815	OHX	5	0
86	A2	2067	OHX	7	0
86	A5	3800	OHX	1	0
86	A2	1909	OHX	2	0
86	A1	3607	OHX	6	0
86	A1	3442	OHX	2	0
86	Db	101	OHX	1	0
86	A1	3587	OHX	2	0
86	A6	1940	OHX	8	0
86	A1	3754	OHX	1	0
86	A5	3486	OHX	2	0
86	A5	3488	OHX	1	0
86	A2	1901	OHX	1	0
86	A5	3623	OHX	2	0
86	A1	3792	OHX	5	0
86	A1	3742	OHX	7	0
86	A1	3670	OHX	1	0
86	A5	3645	OHX	1	0
86	A5	3413	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A6	1961	OHX	5	0
86	A6	2093	OHX	2	0
86	A6	2080	OHX	1	0
86	CL	201	OHX	5	0
86	A5	3713	OHX	1	0
86	A2	2055	OHX	1	0
86	A1	3519	OHX	1	0
86	A5	3474	OHX	7	0
86	A3	213	OHX	1	0
86	A2	2005	OHX	1	0
86	A5	3465	OHX	5	0
86	A1	3680	OHX	6	0
86	A1	3520	OHX	5	0
86	A6	2092	OHX	8	0
86	A1	3535	OHX	1	0
86	A5	3487	OHX	5	0
86	A2	2024	OHX	3	0
86	A2	1971	OHX	1	0
86	A2	2040	OHX	1	0
86	A6	1999	OHX	1	0
86	A1	3481	OHX	6	0
86	A1	3726	OHX	3	0
86	A1	3756	OHX	1	0
86	A1	3498	OHX	1	0
86	A1	3512	OHX	5	0
86	A5	3444	OHX	3	0
86	A6	2006	OHX	1	0
86	A5	3807	OHX	7	0
86	A5	3801	OHX	7	0
86	A5	3699	OHX	7	0
86	A6	1985	OHX	2	0
86	BB	401	OHX	2	0
86	A1	3463	OHX	4	0
86	DC	401	OHX	2	0
86	A5	3504	OHX	1	0
86	A6	2040	OHX	1	0
86	A5	3667	OHX	4	0
86	A2	1976	OHX	3	0
86	A1	3698	OHX	4	0
86	A5	3538	OHX	4	0
86	A5	3805	OHX	1	0
86	A1	3563	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A2	2073	OHX	1	0
86	A5	3808	OHX	7	0
86	A2	2028	OHX	2	0
86	A5	3640	OHX	4	0
86	A1	3534	OHX	1	0
86	A5	3634	OHX	1	0
86	A5	3604	OHX	3	0
86	A5	3686	OHX	1	0
86	A2	1945	OHX	1	0
86	A6	1915	OHX	6	0
86	A5	3684	OHX	1	0
86	A5	3708	OHX	1	0
86	A1	3492	OHX	2	0
86	A1	3766	OHX	1	0
86	A2	2078	OHX	1	0
86	A3	202	OHX	1	0
86	A1	3703	OHX	1	0
86	A5	3530	OHX	1	0
86	A1	3805	OHX	6	0
86	A3	208	OHX	2	0
86	A5	3500	OHX	1	0
86	A2	2013	OHX	1	0
86	A1	3808	OHX	1	0
86	A1	3598	OHX	6	0
86	A1	3762	OHX	5	0
86	A2	2062	OHX	1	0
86	BI	304	OHX	7	0
86	A7	211	OHX	6	0
86	A1	3645	OHX	1	0
86	A5	3477	OHX	6	0
86	A5	3581	OHX	4	0
86	A1	3478	OHX	4	0
86	DI	301	OHX	1	0
86	A2	1916	OHX	1	0
86	A5	3669	OHX	1	0
86	A1	3423	OHX	1	0
86	A5	3513	OHX	6	0
86	A1	3751	OHX	14	0
86	A5	3595	OHX	6	0
86	A2	2027	OHX	2	0
86	A6	2004	OHX	1	0
86	A2	2060	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A5	3816	OHX	1	0
86	A5	3650	OHX	1	0
86	A1	3687	OHX	7	0
86	A2	2014	OHX	8	0
86	A5	3564	OHX	1	0
86	A6	2087	OHX	2	0
86	A5	3786	OHX	2	0
86	A5	3555	OHX	1	0
86	A6	1922	OHX	8	0
86	A1	3565	OHX	7	0
86	CG	301	OHX	4	1
86	A1	3547	OHX	1	0
86	A2	2036	OHX	1	0
86	A1	3536	OHX	1	0
86	A1	3760	OHX	1	0
86	A5	3647	OHX	1	0
86	A1	3693	OHX	11	0
86	A1	3550	OHX	2	0
86	A5	3758	OHX	1	0
86	A1	3650	OHX	9	0
86	CJ	201	OHX	3	0
86	A6	1993	OHX	2	0
86	A6	1921	OHX	2	0
86	A6	2050	OHX	2	0
86	A2	1961	OHX	1	0
86	A5	3625	OHX	1	0
86	A5	3723	OHX	7	0
86	A2	2047	OHX	1	0
86	DD	301	OHX	1	0
86	A1	3802	OHX	11	0
86	A5	3785	OHX	1	0
86	A7	203	OHX	6	0
86	A2	1926	OHX	1	0
86	A1	3506	OHX	6	0
86	A6	2051	OHX	1	0
86	A2	2074	OHX	17	0
86	AL	201	OHX	1	0
86	A6	2060	OHX	1	0
86	A2	2044	OHX	1	0
86	A5	3662	OHX	7	0
86	A6	1923	OHX	4	0
86	A5	3633	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A2	1950	OHX	2	0
86	A1	3800	OHX	5	0
86	A1	3783	OHX	1	0
86	A5	3642	OHX	1	0
86	A1	3789	OHX	6	0
86	A6	1983	OHX	5	0
86	A5	3582	OHX	1	0
86	A2	1965	OHX	6	0
86	A1	3657	OHX	2	0
86	A6	1978	OHX	1	0
86	A6	2090	OHX	5	0
86	A2	1983	OHX	5	0
86	A2	1906	OHX	3	0
86	A6	2075	OHX	2	0
86	A1	3524	OHX	1	0
86	A1	3465	OHX	1	0
86	A1	3579	OHX	1	0
86	A5	3780	OHX	3	0
86	A5	3794	OHX	1	0
86	A5	3514	OHX	5	0
86	A6	2010	OHX	3	0
86	A1	3487	OHX	1	0
86	A1	3681	OHX	1	0
86	CP	201	OHX	3	0
86	A2	1987	OHX	3	0
86	A5	3439	OHX	3	0
86	A1	3746	OHX	8	0
86	A1	3801	OHX	1	0
86	A6	2096	OHX	1	0
86	AP	201	OHX	5	0
86	A1	3722	OHX	6	0
86	A1	3775	OHX	1	0
86	A8	202	OHX	1	0
86	A5	3813	OHX	8	0
86	A1	3602	OHX	4	0
86	A6	2043	OHX	1	0
86	A5	3603	OHX	7	0
86	A1	3538	OHX	3	0
86	A1	3539	OHX	3	0
86	A2	2068	OHX	2	0
86	A2	1937	OHX	1	0
86	A5	3533	OHX	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A5	3590	OHX	1	0
86	A2	2033	OHX	1	0
86	A6	2046	OHX	2	0
86	A1	3589	OHX	1	0
86	A6	1968	OHX	1	0
86	A2	2016	OHX	1	0
86	A5	3542	OHX	7	0
86	A3	201	OHX	2	0
86	A5	3759	OHX	3	0
86	A5	3766	OHX	1	0
86	A1	3753	OHX	2	0
86	A1	3708	OHX	2	0
86	A4	215	OHX	1	0
86	A1	3471	OHX	14	0
86	A6	1928	OHX	1	0
86	A1	3725	OHX	4	0
86	A1	3811	OHX	13	0
86	A3	211	OHX	1	0
86	A5	3643	OHX	1	0
86	A2	2079	OHX	1	0
86	DA	302	OHX	6	0
86	A2	1918	OHX	8	0
86	A1	3509	OHX	6	0
86	CI	301	OHX	1	0
86	BA	301	OHX	5	0
86	A5	3720	OHX	5	0
86	A6	1957	OHX	3	0
86	A2	2041	OHX	1	0
86	A1	3477	OHX	1	0
86	A1	3573	OHX	1	0
86	A5	3541	OHX	1	0
86	A2	1969	OHX	6	0
86	A1	3485	OHX	1	0
86	A5	3822	OHX	3	0
86	A1	3673	OHX	2	0
86	A5	3644	OHX	7	0
86	A1	3503	OHX	5	0
86	A5	3726	OHX	1	0
86	A2	2071	OHX	6	0
86	A5	3618	OHX	1	0
86	A5	3491	OHX	4	0
86	A2	1938	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A1	3816	OHX	8	0
86	A5	3806	OHX	1	0
86	A5	3431	OHX	2	0
86	A2	2065	OHX	1	0
86	A5	3577	OHX	6	0
86	A5	3779	OHX	6	0
86	A5	3657	OHX	1	0
86	A5	3761	OHX	1	0
86	A1	3738	OHX	8	0
86	A1	3774	OHX	1	0
86	A5	3526	OHX	5	0
86	BP	201	OHX	1	0
86	A5	3737	OHX	7	0
86	A1	3424	OHX	1	0
86	A8	212	OHX	1	0
86	A2	1952	OHX	2	0
86	A1	3479	OHX	7	0
86	A5	3507	OHX	1	0
86	A2	2012	OHX	2	0
86	A2	1974	OHX	1	0
86	A5	3666	OHX	7	0
86	A2	2052	OHX	6	0
86	A1	3412	OHX	2	0
86	A1	3785	OHX	7	0
86	A6	2020	OHX	1	0
86	A2	2045	OHX	1	0
86	DV	201	OHX	1	0
86	AN	201	OHX	1	0
86	AC	301	OHX	5	0
86	A6	1979	OHX	1	0
86	A5	3775	OHX	2	0
86	A2	1991	OHX	1	0
86	A6	1909	OHX	4	0
86	A5	3610	OHX	10	0
86	A1	3677	OHX	1	0
86	A1	3554	OHX	1	0
86	A5	3639	OHX	1	0
86	A2	2083	OHX	1	0
86	A2	1917	OHX	2	0
86	A6	2017	OHX	1	0
86	A5	3695	OHX	6	0
86	A6	2022	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A4	212	OHX	1	0
86	A5	3484	OHX	1	0
86	A5	3709	OHX	1	0
86	A1	3719	OHX	2	0
86	A2	1990	OHX	1	0
86	A6	2100	OHX	12	0
86	A6	2098	OHX	2	0
86	A1	3676	OHX	1	0
86	A5	3532	OHX	5	0
86	A2	1966	OHX	2	0
86	A2	1975	OHX	7	0
86	A6	2070	OHX	1	0
86	A2	1953	OHX	2	0
86	A6	1914	OHX	1	0
86	A6	1955	OHX	1	0
86	A8	206	OHX	1	0
86	A5	3588	OHX	3	0
86	A6	2009	OHX	6	0
86	A5	3681	OHX	9	0
86	A2	2032	OHX	1	0
86	A1	3807	OHX	1	0
86	A1	3755	OHX	1	0
86	A2	1915	OHX	6	0
86	A1	3522	OHX	1	0
86	A5	3492	OHX	6	0
86	A2	1980	OHX	1	0
86	A2	1964	OHX	4	0
86	A2	1924	OHX	1	0
86	A2	1925	OHX	1	0
86	A1	3701	OHX	1	0
86	A5	3796	OHX	1	0
86	A6	2056	OHX	1	0
86	A6	2027	OHX	1	0
86	A6	2002	OHX	7	0
86	A5	3728	OHX	2	0
86	A1	3813	OHX	2	0
86	A1	3576	OHX	3	0
86	A1	3603	OHX	6	0
86	A5	3548	OHX	6	0
86	A6	2039	OHX	1	0
86	A1	3556	OHX	1	0
86	A5	3569	OHX	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A5	3593	OHX	1	0
86	A1	3525	OHX	1	0
86	A5	3674	OHX	2	0
86	A2	2042	OHX	1	0
86	A6	2067	OHX	1	0
86	A1	3634	OHX	1	0
86	A1	3452	OHX	5	0
86	A2	1946	OHX	1	0
86	A1	3410	OHX	1	0
86	A5	3494	OHX	2	0
86	A5	3497	OHX	2	0
86	A5	3467	OHX	2	0
86	A5	3543	OHX	1	0
86	A1	3757	OHX	5	0
86	A1	3516	OHX	8	0
86	A2	1962	OHX	4	0
86	A6	2054	OHX	3	0
86	A6	2062	OHX	7	0
86	A2	2072	OHX	2	0
86	A1	3593	OHX	3	0
86	A6	1986	OHX	1	0
86	A5	3567	OHX	1	0
86	Cd	101	OHX	4	0
86	A2	2017	OHX	8	0
86	A5	3717	OHX	1	0
86	A6	1927	OHX	1	0
86	Bj	102	OHX	1	0
86	A1	3541	OHX	1	0
86	A5	3546	OHX	2	0
86	A2	1978	OHX	7	0
86	A1	3586	OHX	1	0
86	A6	2071	OHX	8	0
86	A2	1992	OHX	3	0
86	A1	3731	OHX	1	0
86	A1	3729	OHX	1	0
86	A1	3806	OHX	7	0
86	A5	3692	OHX	1	0
86	A2	2080	OHX	2	0
86	A6	2076	OHX	2	0
86	A8	215	OHX	2	0
86	A1	3744	OHX	6	0
86	A5	3511	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A1	3581	OHX	1	0
86	A6	1969	OHX	1	0
86	AI	301	OHX	1	0
86	A1	3585	OHX	1	0
86	A1	3737	OHX	1	0
86	A5	3819	OHX	2	0
86	A5	3509	OHX	7	0
86	A8	218	OHX	4	0
86	CG	302	OHX	4	0
86	A6	2012	OHX	1	0
86	A1	3788	OHX	5	1
86	A5	3576	OHX	1	0
86	DG	301	OHX	6	0
86	A5	3457	OHX	7	0
86	A4	205	OHX	2	0
86	A5	3499	OHX	1	0
86	A2	1922	OHX	7	0
86	A1	3786	OHX	2	0
86	A6	1991	OHX	1	0
86	A7	202	OHX	1	0
86	A5	3690	OHX	1	0
86	A5	3734	OHX	4	0
86	A5	3628	OHX	1	0
86	A2	1973	OHX	3	0
86	A5	3553	OHX	1	0
86	A6	2083	OHX	1	0
86	A1	3739	OHX	3	0
86	A5	3725	OHX	1	0
86	A5	3654	OHX	2	0
86	A5	3510	OHX	1	0
86	A2	1955	OHX	1	0
86	A6	1981	OHX	2	0
86	A8	211	OHX	8	0
86	A6	2032	OHX	1	0
86	A1	3582	OHX	1	0
86	A1	3619	OHX	1	0
86	A5	3646	OHX	2	0
86	A1	3642	OHX	1	0
86	A6	2015	OHX	2	0
86	A5	3632	OHX	2	0
86	A5	3716	OHX	1	0
86	A2	2009	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A4	211	OHX	3	0
86	A1	3456	OHX	1	0
86	A5	3601	OHX	1	0
86	A1	3491	OHX	6	0
86	A6	1953	OHX	2	0
86	A5	3516	OHX	6	0
86	A1	3591	OHX	7	0
86	A1	3706	OHX	6	0
86	A1	3433	OHX	2	0
86	A2	2019	OHX	1	0
86	A6	1949	OHX	1	0
86	A2	2086	OHX	11	0
86	A1	3659	OHX	4	0
86	A6	1930	OHX	2	0
86	A5	3762	OHX	7	0
86	A5	3458	OHX	6	0
86	DP	201	OHX	1	0
86	A2	2029	OHX	7	0
86	A5	3480	OHX	4	0
86	A5	3680	OHX	7	0
86	A5	3790	OHX	2	0
86	A6	2005	OHX	5	0
86	A6	1925	OHX	1	0
86	A5	3653	OHX	1	0
86	A1	3631	OHX	1	0
86	A5	3809	OHX	4	0
86	A5	3579	OHX	3	0
86	A1	3482	OHX	2	0
86	A5	3656	OHX	2	0
86	A1	3758	OHX	2	0
86	A2	1907	OHX	6	0
86	A2	1997	OHX	1	0
86	A1	3735	OHX	6	0
86	A1	3604	OHX	5	0
86	A1	3664	OHX	1	0
86	A5	3566	OHX	2	0
86	A1	3502	OHX	2	0
86	A1	3569	OHX	1	0
86	A5	3714	OHX	1	0
86	A1	3776	OHX	1	0
86	A5	3820	OHX	11	0
86	A1	3790	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A6	1950	OHX	1	0
86	A5	3620	OHX	1	0
86	A1	3613	OHX	1	0
86	BI	303	OHX	9	0
86	A1	3426	OHX	1	0
86	A2	1942	OHX	1	0
86	A1	3483	OHX	7	0
86	DR	201	OHX	1	0
86	A2	1923	OHX	1	0
86	A1	3497	OHX	6	0
86	A5	3598	OHX	7	0
86	A1	3455	OHX	1	0
86	BR	201	OHX	1	0
86	A4	204	OHX	1	0
86	A2	2061	OHX	2	0
86	A1	3495	OHX	3	0
86	A1	3574	OHX	6	0
86	A6	2019	OHX	1	0
86	A5	3464	OHX	6	0
86	A5	3528	OHX	2	0
86	A6	1971	OHX	2	0
86	A6	1919	OHX	2	0
86	A1	3578	OHX	6	0
86	A1	3584	OHX	4	0
86	CP	202	OHX	4	0
86	A5	3795	OHX	6	0
86	A5	3768	OHX	3	0
86	A5	3476	OHX	3	0
86	A1	3567	OHX	1	0
86	A1	3542	OHX	6	0
86	A1	3562	OHX	6	0
86	A1	3717	OHX	5	0
86	A5	3750	OHX	1	0
86	A7	212	OHX	1	0
86	A5	3517	OHX	4	0
86	A6	2053	OHX	1	0
86	A5	3609	OHX	1	0
86	A2	2010	OHX	2	0
86	A1	3457	OHX	6	0
86	A6	2099	OHX	4	0
86	A7	209	OHX	4	0
86	A6	2057	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	Bj	101	OHX	5	0
86	A5	3661	OHX	1	0
86	A5	3772	OHX	4	0
86	Bo	201	OHX	3	0
86	A2	1989	OHX	8	0
86	A1	3795	OHX	6	0
86	A2	1929	OHX	1	0
86	A2	1954	OHX	6	0
86	A5	3550	OHX	6	0
86	A5	3811	OHX	6	0
86	A2	1948	OHX	1	0
86	A5	3812	OHX	8	0
86	A1	3692	OHX	1	0
86	DB	401	OHX	1	0
86	A5	3810	OHX	6	0
86	A8	207	OHX	3	0
86	A6	2068	OHX	6	0
86	A2	1928	OHX	1	0
86	A2	2031	OHX	1	0
86	A5	3473	OHX	7	0
86	A1	3527	OHX	1	0
86	A5	3814	OHX	6	0
86	A2	2015	OHX	1	0
86	A2	1970	OHX	8	0
86	A4	206	OHX	1	0
86	A5	3712	OHX	1	0
86	A5	3437	OHX	1	0
86	DJ	201	OHX	1	0
86	A5	3778	OHX	1	0
86	A2	2049	OHX	1	0
86	A1	3543	OHX	1	0
86	A1	3544	OHX	3	0
86	A5	3722	OHX	4	0
86	A1	3690	OHX	2	0
86	A5	3660	OHX	5	0
86	A1	3697	OHX	3	0
86	A1	3434	OHX	1	0
86	A1	3505	OHX	2	0
86	A2	2050	OHX	1	0
86	A1	3654	OHX	3	0
86	A6	1956	OHX	4	0
86	A5	3515	OHX	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A5	3518	OHX	7	0
86	A5	3740	OHX	6	0
86	A5	3414	OHX	1	0
86	A1	3508	OHX	1	0
86	A2	1957	OHX	1	0
86	A5	3613	OHX	1	0
86	A5	3405	OHX	1	0
86	A5	3753	OHX	3	0
86	A6	1977	OHX	1	0
86	A5	3580	OHX	6	0
86	A5	3469	OHX	2	0
86	A5	3781	OHX	2	0
86	A1	3655	OHX	1	0
86	A1	3814	OHX	2	0
86	A1	3718	OHX	7	0
86	A6	1984	OHX	1	0
86	A5	3821	OHX	6	0
86	A5	3591	OHX	6	0
86	A8	203	OHX	8	0
86	BD	301	OHX	1	0
86	A6	1951	OHX	2	0
86	A5	3549	OHX	2	0
86	A1	3793	OHX	3	0
86	A5	3729	OHX	6	0
86	A2	2082	OHX	5	0
86	A2	1988	OHX	2	0
86	A5	3489	OHX	7	0
86	A1	3458	OHX	5	0
86	A1	3732	OHX	2	0
86	A2	2048	OHX	6	0
86	BP	202	OHX	1	0
86	A5	3573	OHX	1	0
86	A1	3513	OHX	1	0
86	A6	1931	OHX	3	0
86	A5	3524	OHX	1	0
86	A5	3493	OHX	1	0
86	A5	3732	OHX	10	0
86	A5	3736	OHX	1	0
86	A1	3804	OHX	1	0
86	A2	2076	OHX	6	0
86	A1	3763	OHX	1	0
86	A1	3622	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A5	3568	OHX	3	0
86	A1	3748	OHX	6	0
86	A6	2016	OHX	8	0
86	A5	3683	OHX	1	0
86	A1	3679	OHX	1	0
86	A6	2058	OHX	4	0
86	A1	3501	OHX	1	0
86	A2	2037	OHX	3	0
86	A1	3627	OHX	1	0
86	A1	3667	OHX	6	0
86	A1	3523	OHX	1	0
86	A5	3586	OHX	1	0
86	A1	3466	OHX	4	0
86	A5	3739	OHX	6	0
86	A1	3750	OHX	5	0
86	A1	3707	OHX	1	0
86	A1	3570	OHX	1	0
86	A1	3730	OHX	2	0
86	A5	3617	OHX	5	0
86	A6	1990	OHX	1	0
86	A5	3741	OHX	4	0
86	A1	3777	OHX	7	0
86	CN	201	OHX	2	0
86	A5	3743	OHX	5	0
86	A5	3461	OHX	4	0
86	A5	3463	OHX	1	0
86	A5	3521	OHX	8	0
86	A5	3607	OHX	6	0
86	A1	3671	OHX	11	0
86	A1	3532	OHX	1	0
86	Ad	101	OHX	4	0
86	A6	1976	OHX	1	0
86	A1	3637	OHX	1	0
86	BC	401	OHX	2	0
86	A5	3706	OHX	1	0
86	A1	3779	OHX	1	0
86	A6	1917	OHX	1	0
86	A2	2081	OHX	1	0
86	A1	3467	OHX	6	0
86	A1	3432	OHX	5	0
86	A1	3517	OHX	1	0
86	A1	3691	OHX	3	0

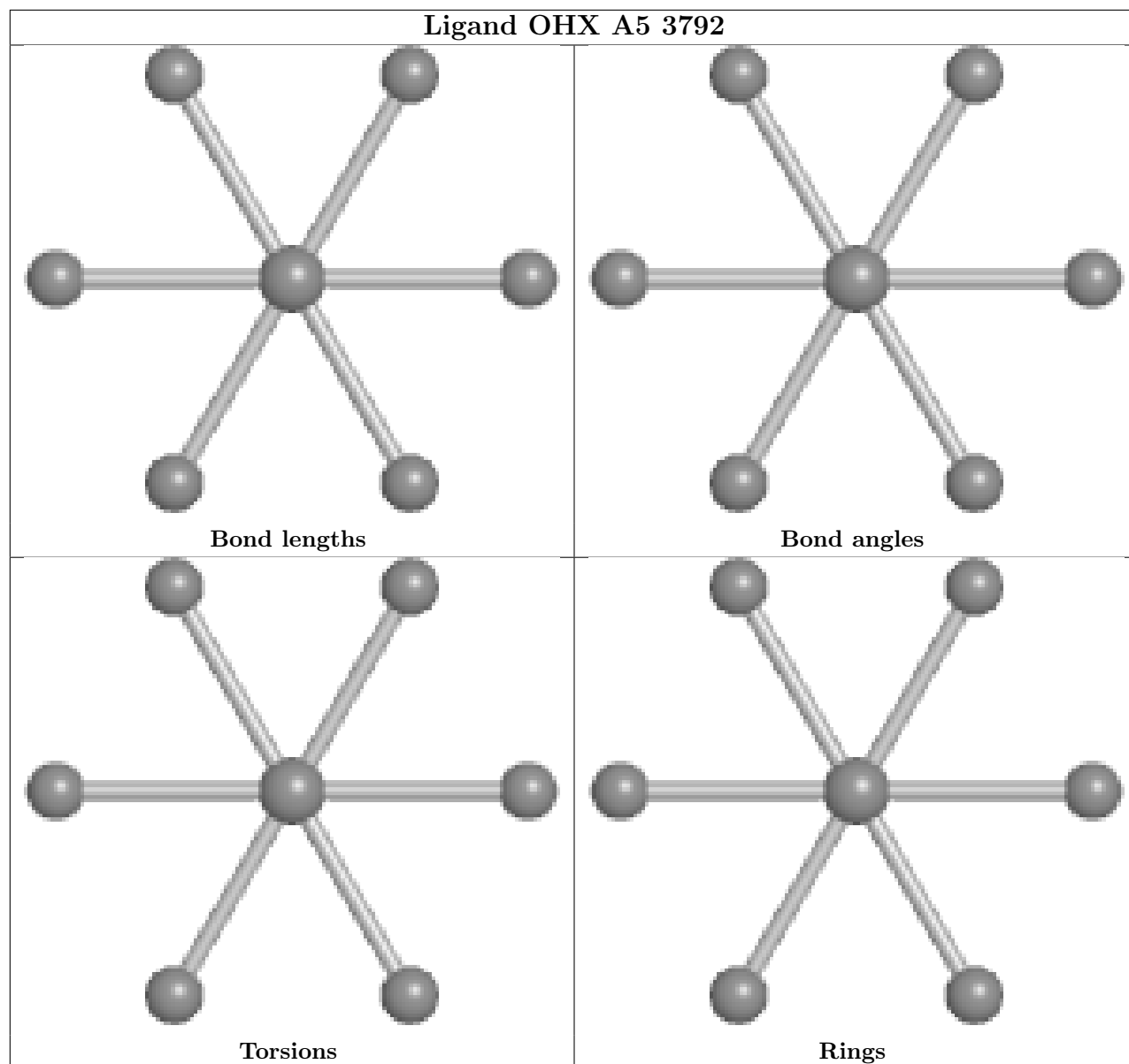
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	A6	2033	OHX	2	0
86	A1	3549	OHX	6	0
86	A2	1949	OHX	1	0
86	A5	3427	OHX	1	0
86	A1	3812	OHX	7	0
86	A5	3470	OHX	6	0
86	A5	3619	OHX	1	0
86	A1	3590	OHX	2	0
86	A5	3731	OHX	1	0
86	A2	2026	OHX	1	0
86	A6	2086	OHX	6	0
86	A1	3601	OHX	4	0
86	A1	3439	OHX	7	0
86	A1	3798	OHX	11	0
86	A6	1946	OHX	1	0
86	A2	1914	OHX	4	0
86	A5	3565	OHX	1	0
86	A2	2087	OHX	1	0
86	A5	3803	OHX	7	0
86	A6	1933	OHX	12	0
86	A1	3712	OHX	5	0
86	A6	1941	OHX	8	0
86	A1	3496	OHX	11	0
86	A6	1964	OHX	3	0
86	A5	3738	OHX	7	0
86	A1	3449	OHX	1	0
86	A5	3606	OHX	6	0
86	Do	201	OHX	2	0
86	A5	3782	OHX	1	0
86	A1	3710	OHX	1	0
86	A6	2094	OHX	1	0
86	A1	3608	OHX	3	0
86	A5	3616	OHX	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A2	1767/1800 (98%)	-0.07	29 (1%) 70 47	40, 88, 220, 373	1 (0%)
2	AA	206/252 (81%)	0.80	17 (8%) 17 9	71, 111, 170, 202	0
2	CA	206/252 (81%)	0.80	12 (5%) 29 15	60, 90, 133, 228	0
3	AB	214/255 (83%)	1.06	25 (11%) 9 5	79, 144, 219, 256	0
3	CB	216/255 (84%)	0.26	2 (0%) 81 61	59, 85, 127, 171	0
4	AC	217/254 (85%)	0.57	7 (3%) 50 29	60, 91, 130, 170	0
4	CC	217/254 (85%)	0.27	8 (3%) 45 25	50, 75, 127, 193	0
5	AD	223/240 (92%)	0.57	5 (2%) 62 39	69, 97, 154, 222	0
5	CD	223/240 (92%)	0.25	3 (1%) 75 53	56, 91, 144, 182	0
6	AE	260/261 (99%)	0.48	7 (2%) 56 33	60, 89, 131, 187	0
6	CE	260/261 (99%)	0.24	4 (1%) 72 49	48, 74, 112, 237	0
7	AF	206/225 (91%)	0.41	5 (2%) 59 36	72, 116, 160, 231	0
7	CF	206/225 (91%)	0.60	8 (3%) 43 24	53, 87, 143, 207	0
8	AG	226/236 (95%)	0.86	20 (8%) 15 8	58, 102, 153, 209	0
8	CG	218/236 (92%)	0.39	8 (3%) 45 25	49, 83, 140, 239	0
9	AH	184/190 (96%)	0.92	15 (8%) 17 9	75, 121, 178, 259	0
9	CH	186/190 (97%)	0.57	8 (4%) 40 21	64, 102, 162, 222	0
10	AI	188/200 (94%)	0.30	4 (2%) 63 40	48, 76, 132, 165	0
10	CI	188/200 (94%)	0.39	2 (1%) 78 57	41, 68, 116, 154	0
11	AJ	185/197 (93%)	0.71	7 (3%) 44 24	70, 101, 163, 231	0
11	CJ	185/197 (93%)	0.51	3 (1%) 70 47	55, 78, 138, 196	0
12	AK	96/105 (91%)	0.36	3 (3%) 51 30	71, 101, 164, 198	0
12	CK	96/105 (91%)	0.61	8 (8%) 17 9	77, 116, 163, 222	0
13	AL	155/156 (99%)	0.35	5 (3%) 50 29	48, 71, 176, 236	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	CL	146/156 (93%)	0.46	12 (8%) 17 9	41, 63, 134, 219	0
14	AM	124/143 (86%)	0.75	9 (7%) 21 11	97, 148, 209, 234	0
14	CM	124/143 (86%)	0.98	11 (8%) 15 8	121, 191, 250, 311	0
15	AN	150/151 (99%)	0.40	4 (2%) 56 33	57, 89, 127, 183	0
15	CN	150/151 (99%)	0.06	2 (1%) 75 53	49, 73, 109, 130	0
16	AO	127/137 (92%)	1.23	21 (16%) 4 3	61, 134, 179, 240	0
16	CO	128/137 (93%)	0.28	2 (1%) 70 47	50, 84, 118, 140	0
17	AP	124/142 (87%)	0.79	7 (5%) 30 15	68, 93, 167, 197	0
17	CP	135/142 (95%)	0.67	16 (11%) 9 5	61, 93, 166, 196	0
18	AQ	141/143 (98%)	0.86	13 (9%) 14 8	72, 100, 138, 155	0
18	CQ	142/143 (99%)	0.65	15 (10%) 11 6	53, 79, 121, 171	0
19	AR	120/136 (88%)	0.85	10 (8%) 17 9	66, 112, 180, 214	0
19	CR	117/136 (86%)	0.58	11 (9%) 14 7	58, 88, 142, 199	0
20	AS	145/146 (99%)	0.56	5 (3%) 48 27	57, 104, 156, 182	0
20	CS	145/146 (99%)	0.48	6 (4%) 41 23	56, 79, 138, 165	0
21	AT	143/144 (99%)	0.80	9 (6%) 26 13	73, 102, 147, 180	0
21	CT	143/144 (99%)	0.33	0 100 100	48, 74, 114, 181	0
22	AU	107/121 (88%)	1.14	16 (14%) 5 3	64, 102, 189, 226	0
22	CU	110/121 (90%)	0.46	4 (3%) 46 26	56, 93, 183, 243	0
23	AV	87/87 (100%)	0.60	3 (3%) 48 27	75, 102, 151, 169	0
23	CV	87/87 (100%)	0.27	0 100 100	54, 79, 118, 185	0
24	AW	129/130 (99%)	0.54	2 (1%) 70 47	58, 82, 103, 121	0
24	CW	129/130 (99%)	0.18	1 (0%) 82 64	40, 62, 77, 98	0
25	AX	144/145 (99%)	0.25	7 (4%) 35 18	48, 68, 98, 150	0
25	CX	144/145 (99%)	-0.13	1 (0%) 84 66	37, 53, 80, 139	0
26	AY	134/135 (99%)	0.94	11 (8%) 17 9	70, 106, 166, 216	0
26	CY	134/135 (99%)	0.54	6 (4%) 38 20	57, 84, 143, 191	0
27	AZ	70/108 (64%)	0.58	5 (7%) 22 11	88, 132, 172, 235	0
27	CZ	69/108 (63%)	0.71	5 (7%) 21 11	68, 103, 151, 196	0
28	Aa	97/119 (81%)	1.09	12 (12%) 8 5	69, 113, 206, 223	0
28	Ca	97/119 (81%)	0.58	5 (5%) 33 17	54, 79, 129, 165	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	Ab	81/82 (98%)	0.53	1 (1%) 76 55	68, 102, 188, 225	0
29	Cb	81/82 (98%)	0.35	2 (2%) 58 35	51, 85, 170, 203	0
30	Ac	63/67 (94%)	0.77	2 (3%) 50 29	86, 130, 182, 204	0
30	Cc	63/67 (94%)	0.87	1 (1%) 70 47	74, 107, 155, 180	0
31	Ad	53/56 (94%)	0.73	3 (5%) 29 15	64, 76, 106, 155	0
31	Cd	53/56 (94%)	0.31	4 (7%) 20 10	51, 69, 108, 168	0
32	Ae	60/63 (95%)	0.54	4 (6%) 24 12	56, 103, 179, 270	0
32	Ce	62/63 (98%)	0.28	2 (3%) 50 29	47, 84, 184, 218	0
33	Af	51/152 (33%)	1.17	8 (15%) 5 3	92, 138, 186, 202	0
33	Cf	51/152 (33%)	1.44	14 (27%) 1 1	113, 172, 222, 254	0
34	Ag	318/319 (99%)	0.64	9 (2%) 55 32	74, 113, 171, 237	0
34	Cg	318/319 (99%)	0.64	9 (2%) 55 32	73, 105, 158, 232	0
35	Ah	121/273 (44%)	0.68	9 (7%) 20 10	54, 99, 162, 212	0
36	A1	3149/3396 (92%)	-0.30	34 (1%) 78 57	29, 54, 168, 351	0
36	A5	3150/3396 (92%)	-0.33	36 (1%) 78 57	28, 52, 157, 346	0
37	A3	121/121 (100%)	-0.05	0 100 100	34, 72, 92, 118	0
37	A7	121/121 (100%)	-0.21	1 (0%) 82 64	31, 57, 74, 144	0
38	A4	158/158 (100%)	-0.22	1 (0%) 85 69	37, 58, 112, 223	0
38	A8	158/158 (100%)	-0.12	3 (1%) 66 43	39, 65, 128, 263	0
39	BA	252/254 (99%)	-0.02	2 (0%) 82 64	27, 53, 78, 150	0
39	DA	252/254 (99%)	0.09	9 (3%) 46 26	29, 55, 83, 177	0
40	BB	386/387 (99%)	0.01	4 (1%) 79 59	26, 58, 86, 187	0
40	DB	386/387 (99%)	-0.34	3 (0%) 82 64	20, 44, 69, 188	0
41	BC	361/362 (99%)	-0.25	1 (0%) 90 79	26, 50, 86, 132	0
41	DC	361/362 (99%)	0.02	3 (0%) 82 64	30, 56, 90, 136	0
42	BD	296/297 (99%)	0.47	11 (3%) 45 25	47, 81, 132, 223	0
42	DD	294/297 (98%)	0.21	6 (2%) 65 41	38, 58, 110, 205	0
43	BE	156/176 (88%)	-0.28	0 100 100	34, 52, 89, 152	0
43	DE	157/176 (89%)	-0.14	2 (1%) 75 53	37, 54, 97, 160	0
44	BF	222/244 (90%)	-0.44	0 100 100	31, 46, 87, 247	0
44	DF	223/244 (91%)	-0.33	1 (0%) 88 76	26, 44, 99, 196	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
45	BG	233/256 (91%)	0.53	7 (3%)	52	30	52, 79, 148, 255	0
45	DG	231/256 (90%)	0.48	5 (2%)	62	39	63, 88, 132, 196	0
46	BH	191/191 (100%)	0.33	2 (1%)	79	59	44, 65, 99, 197	0
46	DH	191/191 (100%)	-0.40	1 (0%)	87	72	30, 47, 83, 206	0
47	BI	211/221 (95%)	0.13	9 (4%)	40	21	37, 60, 121, 229	0
47	DI	213/221 (96%)	0.37	7 (3%)	49	28	34, 60, 106, 207	0
48	BJ	169/174 (97%)	0.62	3 (1%)	67	44	50, 84, 123, 151	0
48	DJ	169/174 (97%)	0.12	2 (1%)	76	55	40, 64, 98, 123	0
49	BL	193/199 (96%)	-0.04	2 (1%)	79	59	30, 57, 126, 216	0
49	DL	194/199 (97%)	0.29	1 (0%)	87	72	38, 69, 134, 174	0
50	BM	136/138 (98%)	-0.01	3 (2%)	62	39	37, 55, 92, 132	0
50	DM	137/138 (99%)	-0.28	3 (2%)	62	39	30, 47, 83, 153	0
51	BN	203/204 (99%)	-0.08	0	100	100	32, 52, 68, 92	0
51	DN	203/204 (99%)	0.15	1 (0%)	87	72	37, 60, 82, 104	0
52	BO	177/219 (80%)	0.05	8 (4%)	38	20	13, 26, 44, 57	177 (100%)
52	DO	177/219 (80%)	-0.12	8 (4%)	38	20	11, 20, 43, 57	177 (100%)
53	BP	183/184 (99%)	-0.04	5 (2%)	56	33	30, 49, 149, 224	0
53	DP	155/184 (84%)	-0.33	2 (1%)	75	53	30, 44, 72, 161	0
54	BQ	185/186 (99%)	-0.35	1 (0%)	87	72	33, 48, 68, 107	0
54	DQ	185/186 (99%)	-0.06	1 (0%)	87	72	35, 54, 73, 125	0
55	BR	188/189 (99%)	0.35	8 (4%)	40	21	45, 71, 170, 201	0
55	DR	188/189 (99%)	0.25	4 (2%)	63	40	36, 64, 142, 199	0
56	BS	172/172 (100%)	-0.25	1 (0%)	85	69	36, 51, 85, 123	0
56	DS	172/172 (100%)	-0.40	2 (1%)	76	55	26, 44, 72, 141	0
57	BT	159/160 (99%)	-0.16	0	100	100	33, 52, 111, 149	0
57	DT	159/160 (99%)	-0.18	1 (0%)	85	69	30, 46, 97, 120	0
58	BU	100/121 (82%)	0.78	5 (5%)	34	18	79, 108, 150, 180	0
58	DU	98/121 (80%)	0.89	9 (9%)	14	8	67, 97, 128, 168	0
59	BV	136/137 (99%)	0.02	4 (2%)	53	31	35, 57, 95, 182	0
59	DV	136/137 (99%)	-0.37	4 (2%)	53	31	26, 42, 78, 210	0
60	BW	98/155 (63%)	0.69	12 (12%)	8	5	47, 77, 244, 306	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
60	DW	135/155 (87%)	0.51	6 (4%) 39 21	36, 94, 192, 249	0
61	BX	121/142 (85%)	0.22	3 (2%) 58 35	41, 68, 99, 152	0
61	DX	120/142 (84%)	0.33	3 (2%) 58 35	46, 71, 108, 135	0
62	BY	126/127 (99%)	-0.02	0 100 100	38, 59, 91, 150	0
62	DY	126/127 (99%)	0.29	1 (0%) 82 64	39, 66, 102, 168	0
63	BZ	135/136 (99%)	0.58	3 (2%) 62 39	68, 94, 138, 162	0
63	DZ	135/136 (99%)	0.74	6 (4%) 39 21	68, 103, 142, 170	0
64	Ba	148/149 (99%)	-0.29	1 (0%) 84 66	26, 50, 89, 116	0
64	Da	148/149 (99%)	0.09	0 100 100	28, 55, 93, 142	0
65	Bb	58/59 (98%)	0.28	4 (6%) 23 12	33, 58, 119, 142	0
65	Db	58/59 (98%)	0.45	8 (13%) 6 4	35, 59, 123, 160	0
66	Bc	97/105 (92%)	0.35	2 (2%) 63 40	63, 88, 129, 171	0
66	Dc	100/105 (95%)	0.43	3 (3%) 52 30	59, 86, 154, 173	0
67	Bd	109/113 (96%)	0.29	4 (3%) 45 25	40, 66, 132, 202	0
67	Dd	109/113 (96%)	-0.03	0 100 100	34, 57, 126, 199	0
68	Be	127/130 (97%)	-0.32	3 (2%) 59 36	22, 42, 65, 149	0
68	De	127/130 (97%)	-0.11	6 (4%) 36 19	25, 47, 77, 136	0
69	Bf	106/107 (99%)	-0.31	1 (0%) 81 61	30, 41, 73, 139	0
69	Df	106/107 (99%)	-0.35	0 100 100	27, 40, 75, 119	0
70	Bg	112/121 (92%)	0.57	3 (2%) 56 33	44, 71, 134, 197	0
70	Dg	112/121 (92%)	0.49	4 (3%) 46 26	41, 72, 139, 191	0
71	Bh	119/120 (99%)	0.26	2 (1%) 69 45	42, 68, 104, 119	0
71	Dh	119/120 (99%)	0.38	3 (2%) 58 35	51, 75, 109, 149	0
72	Bi	99/100 (99%)	0.35	2 (2%) 65 41	45, 69, 111, 172	0
72	Di	99/100 (99%)	0.37	4 (4%) 42 23	57, 75, 116, 171	0
73	Bj	87/88 (98%)	-0.10	2 (2%) 61 38	35, 45, 74, 216	0
73	Dj	87/88 (98%)	0.05	2 (2%) 61 38	30, 50, 91, 241	0
74	Bk	77/78 (98%)	0.59	3 (3%) 43 24	65, 95, 146, 168	0
74	Dk	77/78 (98%)	0.79	8 (10%) 11 6	64, 98, 138, 153	0
75	Bl	50/51 (98%)	0.10	1 (2%) 65 41	37, 59, 80, 95	0
75	Dl	50/51 (98%)	0.22	3 (6%) 27 14	44, 59, 82, 102	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
76	Bm	52/128 (40%)	0.04	2 (3%) 44 24	42, 55, 82, 139	0
76	Dm	52/128 (40%)	-0.21	2 (3%) 44 24	30, 39, 68, 106	0
77	Bn	25/25 (100%)	0.19	0 100 100	49, 62, 79, 94	0
77	Dn	25/25 (100%)	0.20	1 (4%) 42 23	37, 55, 72, 99	0
78	Bo	105/106 (99%)	-0.03	0 100 100	35, 60, 97, 219	0
78	Do	105/106 (99%)	-0.04	1 (0%) 79 59	37, 59, 101, 157	0
79	Bp	91/92 (98%)	0.19	1 (1%) 78 57	40, 61, 104, 126	0
79	Dp	91/92 (98%)	-0.10	1 (1%) 78 57	29, 60, 96, 111	0
80	A6	1769/1800 (98%)	-0.01	24 (1%) 73 51	34, 72, 189, 360	1 (0%)
81	Ch	63/273 (23%)	0.91	7 (11%) 10 6	50, 99, 156, 183	0
82	DK	0/155	-	-	-	-
83	Dq	120/312 (38%)	0.76	8 (6%) 24 12	70, 109, 166, 232	0
84	Dr	0/47	-	-	-	-
85	Ds	0/46	-	-	-	-
All	All	32867/35856 (91%)	0.13	890 (2%) 56 33	11, 71, 157, 373	356 (1%)

All (890) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
39	DA	248	GLY	8.9
36	A5	2873	U	7.0
56	DS	1	MET	6.4
39	DA	253	GLN	6.3
28	Ca	16	GLY	5.9
60	BW	84	GLY	5.5
11	AJ	2	PRO	5.4
83	Dq	192	ASP	5.3
6	AE	25	GLY	5.3
16	AO	15	GLY	5.3
39	DA	247	ARG	5.1
13	CL	5	LEU	5.0
11	CJ	2	PRO	5.0
33	Cf	145	HIS	5.0
36	A5	2971	A	4.9
3	AB	138	PHE	4.9
7	CF	37	GLN	4.8
47	BI	112	GLN	4.8
5	AD	179	GLN	4.8

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Mol	Chain	Res	Type	RSRZ
60	BW	83	THR	4.8
18	AQ	132	LYS	4.8
7	AF	37	GLN	4.7
9	AH	4	PRO	4.7
39	DA	252	THR	4.7
1	A2	320	U	4.7
18	AQ	36	ILE	4.6
4	CC	90	THR	4.6
74	Dk	2	ALA	4.6
1	A2	1756[A]	A	4.5
39	DA	249	SER	4.5
18	AQ	142	TYR	4.5
58	DU	108	TYR	4.4
60	BW	85	ALA	4.4
18	CQ	3	ALA	4.4
8	AG	190	GLN	4.4
76	Dm	77	ILE	4.4
72	Bi	79	SER	4.4
36	A5	2403	G	4.3
36	A5	2874	G	4.3
36	A1	2873	U	4.3
20	CS	146	ALA	4.3
31	Cd	5	ASN	4.2
39	DA	246	LEU	4.2
27	CZ	97	LYS	4.2
59	BV	3	GLY	4.2
47	DI	111	LEU	4.1
3	AB	84	ILE	4.1
47	BI	102	MET	4.1
10	AI	21	PHE	4.1
66	Dc	32	LYS	4.1
73	Dj	88	ALA	4.1
2	AA	32	HIS	4.1
26	CY	127	LYS	4.1
65	Bb	25	LYS	4.1
65	Db	22	LYS	4.1
20	AS	146	ALA	4.0
53	BP	184	ALA	4.0
40	BB	387	LEU	4.0
33	Af	145	HIS	4.0
19	CR	96	SER	4.0
77	Dn	25	LYS	4.0

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Mol	Chain	Res	Type	RSRZ
9	AH	98	ILE	4.0
4	CC	92	ALA	4.0
8	AG	182	GLN	4.0
31	Cd	6	VAL	4.0
47	DI	103	LEU	3.9
18	CQ	141	SER	3.9
32	Ae	2	ALA	3.9
14	CM	123	VAL	3.9
16	CO	125	SER	3.9
52	DO	150[A]	GLU	3.9
17	CP	7	ALA	3.9
17	CP	8	LYS	3.9
63	DZ	56	LYS	3.8
59	DV	4	ASN	3.8
4	AC	91	ARG	3.8
7	CF	36	ALA	3.8
33	Cf	147	VAL	3.8
36	A5	2872	A	3.8
27	AZ	71	ILE	3.7
45	DG	121	SER	3.7
2	CA	207	PRO	3.7
52	DO	183[A]	ALA	3.7
14	CM	62	LEU	3.7
20	CS	3	LEU	3.7
20	AS	145	ARG	3.6
20	CS	145	ARG	3.6
39	DA	251	LYS	3.6
2	AA	44	GLY	3.6
34	Ag	102	ARG	3.6
45	DG	254	ASP	3.6
42	DD	270	LYS	3.6
60	BW	86	SER	3.6
47	BI	113	GLN	3.6
70	Bg	2	ALA	3.6
36	A1	1349	G	3.6
9	AH	8	ILE	3.6
36	A1	1103	A	3.5
13	CL	3	THR	3.5
14	CM	126	TRP	3.5
3	AB	25	THR	3.5
16	AO	137	LEU	3.5
36	A1	2874	G	3.5

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Mol	Chain	Res	Type	RSRZ
1	A2	705	U	3.5
80	A6	1708	U	3.5
28	Aa	18	VAL	3.4
13	CL	146	ALA	3.4
55	BR	2	ALA	3.4
59	DV	2	SER	3.4
13	CL	147	GLY	3.4
67	Bd	79	ARG	3.4
31	Cd	7	TRP	3.4
8	AG	154	ARG	3.4
28	Aa	9	GLY	3.4
73	Bj	88	ALA	3.4
21	AT	116	ILE	3.4
28	Aa	65	PRO	3.4
50	DM	8	LYS	3.4
33	Af	105	TYR	3.4
60	BW	90	ILE	3.4
36	A5	1582	C	3.3
2	AA	40	ALA	3.3
7	CF	42	LEU	3.3
74	Dk	78	LEU	3.3
9	CH	103	SER	3.3
56	BS	1	MET	3.3
48	BJ	11	ASP	3.3
1	A2	137	U	3.3
36	A1	1556	C	3.3
65	Db	25	LYS	3.3
59	BV	2	SER	3.3
38	A4	82	U	3.3
1	A2	658	C	3.3
39	DA	250	GLN	3.3
60	BW	89	LEU	3.3
36	A5	3275	U	3.3
31	Ad	7	TRP	3.3
47	BI	218	ALA	3.3
11	AJ	16	LYS	3.2
47	DI	112	GLN	3.2
15	AN	2	GLY	3.2
10	AI	8	ARG	3.2
55	DR	183	ALA	3.2
19	AR	96	SER	3.2
80	A6	651	G	3.2

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Mol	Chain	Res	Type	RSRZ
55	BR	25	ASP	3.2
10	AI	152	ILE	3.2
75	DI	2	ALA	3.2
19	AR	97	ASN	3.2
52	DO	176[A]	LYS	3.2
17	AP	53	PRO	3.2
1	A2	261	U	3.2
13	AL	3	THR	3.2
18	CQ	143	ARG	3.2
67	Bd	112	ASP	3.2
50	DM	9	ALA	3.2
81	Ch	66	ALA	3.2
21	AT	87	GLY	3.2
27	CZ	72	GLY	3.2
26	AY	101	GLU	3.2
33	Cf	103	LEU	3.2
17	CP	138	PHE	3.2
33	Cf	106	TYR	3.2
9	AH	5	GLN	3.2
36	A5	2506	U	3.1
8	AG	156	PHE	3.1
12	CK	64	TYR	3.1
17	AP	126	VAL	3.1
17	CP	52	LYS	3.1
81	Ch	52	PRO	3.1
12	CK	25	LYS	3.1
22	AU	103	ILE	3.1
60	BW	82	ILE	3.1
55	BR	131	ALA	3.1
59	BV	7	GLN	3.1
1	A2	321	C	3.1
35	Ah	67	GLY	3.1
22	AU	19	ILE	3.1
3	AB	106	THR	3.1
16	AO	89	THR	3.1
80	A6	684	A	3.1
25	AX	3	LYS	3.1
28	Aa	62	TYR	3.1
34	Cg	214	ALA	3.1
19	CR	100	LEU	3.1
12	AK	89	GLY	3.1
67	Bd	5	LYS	3.1

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Mol	Chain	Res	Type	RSRZ
80	A6	538	A	3.1
13	CL	145	ALA	3.0
19	CR	97	ASN	3.0
68	De	2	ALA	3.0
8	AG	158	ILE	3.0
28	Aa	2	PRO	3.0
1	A2	1686	C	3.0
26	AY	100	VAL	3.0
2	CA	170	ILE	3.0
36	A1	981	U	3.0
80	A6	794	U	3.0
1	A2	676	G	3.0
47	BI	219	ALA	3.0
52	DO	189[A]	ASP	3.0
8	AG	225	GLU	3.0
65	Db	24	PRO	3.0
72	Di	27	SER	3.0
18	CQ	142	TYR	3.0
34	Cg	284	ALA	3.0
1	A2	1370	U	3.0
36	A5	2871	G	3.0
42	DD	4	GLN	3.0
47	BI	114	GLY	3.0
16	AO	27	PHE	3.0
3	AB	103	MET	3.0
26	CY	128	LYS	3.0
36	A1	1820	U	3.0
68	De	128	LEU	2.9
8	AG	181	PRO	2.9
19	CR	87	GLU	2.9
28	Ca	10	ARG	2.9
19	CR	90	ALA	2.9
34	Ag	137	LYS	2.9
68	Be	2	ALA	2.9
83	Dq	106	ALA	2.9
59	DV	3	GLY	2.9
35	Ah	89	ARG	2.9
2	AA	153	SER	2.9
21	AT	71	VAL	2.9
54	DQ	41	ASP	2.9
4	CC	91	ARG	2.9
5	AD	143	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
18	CQ	68	ARG	2.9
7	AF	41	LYS	2.9
19	AR	123	ASN	2.9
66	Bc	32	LYS	2.9
18	AQ	41	PRO	2.9
13	CL	144	ALA	2.9
36	A5	2996	U	2.9
33	Af	148	TYR	2.9
60	DW	124	LYS	2.9
3	AB	46	THR	2.9
21	AT	39	THR	2.9
36	A5	437	G	2.9
79	Dp	2	ALA	2.9
1	A2	733	A	2.9
36	A5	980	A	2.9
1	A2	1708	U	2.9
17	AP	129	GLY	2.9
33	Af	103	LEU	2.9
4	CC	96	THR	2.9
33	Cf	125	THR	2.9
50	BM	9	ALA	2.9
71	Dh	120	ALA	2.9
8	AG	80	ASN	2.9
12	CK	84	GLU	2.9
52	BO	150[A]	GLU	2.9
26	AY	129	VAL	2.9
33	Af	150	VAL	2.9
33	Cf	150	VAL	2.9
6	AE	134	LYS	2.9
16	AO	83	ILE	2.9
26	AY	128	LYS	2.9
36	A5	1103	A	2.9
76	Bm	77	ILE	2.9
1	A2	822	U	2.8
6	AE	176	ASP	2.8
74	Bk	2	ALA	2.8
45	BG	84	ARG	2.8
4	CC	93	GLY	2.8
17	AP	52	LYS	2.8
65	Bb	28	LYS	2.8
21	AT	36	ILE	2.8
18	AQ	141	SER	2.8

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Mol	Chain	Res	Type	RSRZ
66	Dc	6	SER	2.8
73	Bj	87	SER	2.8
63	DZ	2	ALA	2.8
63	DZ	41	ALA	2.8
83	Dq	107	ALA	2.8
35	Ah	101	ASP	2.8
7	AF	70	VAL	2.8
8	AG	149	LYS	2.8
17	CP	9	LYS	2.8
52	BO	174[A]	PHE	2.8
53	BP	182	ILE	2.8
19	AR	112	SER	2.8
60	BW	88	ASP	2.8
14	CM	59	LEU	2.8
27	CZ	75	LEU	2.8
22	AU	84	MET	2.8
11	AJ	95	TYR	2.8
53	BP	2	ALA	2.8
11	AJ	3	ARG	2.8
33	Af	104	SER	2.8
68	De	16	LYS	2.8
4	AC	208	GLU	2.8
27	CZ	88	ILE	2.8
81	Ch	67	GLY	2.8
36	A1	979	U	2.8
36	A5	2404	A	2.8
60	DW	117	LYS	2.8
12	CK	2	LEU	2.8
32	Ae	61	SER	2.8
46	DH	191	LEU	2.8
22	AU	74	GLU	2.8
20	CS	55	HIS	2.7
25	AX	18	HIS	2.7
13	CL	29	LYS	2.7
28	Aa	63	ALA	2.7
61	BX	22	LYS	2.7
65	Bb	2	ALA	2.7
2	CA	162	CYS	2.7
8	AG	162	VAL	2.7
12	CK	22	VAL	2.7
36	A1	2404	A	2.7
53	BP	165	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
4	CC	208	GLU	2.7
1	A2	656	G	2.7
23	AV	87	ARG	2.7
55	BR	173	ARG	2.7
34	Ag	6	VAL	2.7
13	AL	91	LEU	2.7
58	DU	100	THR	2.7
3	AB	66	VAL	2.7
62	DY	126	LEU	2.7
2	CA	186	GLY	2.7
22	AU	81	THR	2.7
43	DE	175	LYS	2.7
36	A1	1555	U	2.7
80	A6	678	A	2.7
7	CF	154	ALA	2.7
68	De	127	ALA	2.7
75	Bl	2	ALA	2.7
28	Aa	53	LEU	2.7
51	DN	182	ASN	2.7
1	A2	1709	C	2.7
18	AQ	29	ILE	2.7
29	Ab	51	GLN	2.7
14	CM	137	MET	2.7
23	AV	10	GLU	2.7
45	BG	43	LYS	2.7
7	CF	27	THR	2.7
33	Cf	104	SER	2.7
7	CF	74	ALA	2.7
65	Db	29	TYR	2.7
18	AQ	74	HIS	2.7
31	Ad	5	ASN	2.7
36	A1	440	A	2.6
36	A5	2401	A	2.6
18	AQ	66	ARG	2.6
22	CU	54	GLY	2.6
80	A6	1082	C	2.6
2	AA	187	ALA	2.6
64	Ba	149	ALA	2.6
68	Be	128	LEU	2.6
74	Dk	48	SER	2.6
74	Dk	49	SER	2.6
40	BB	123	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
8	AG	226	ILE	2.6
55	BR	5	ARG	2.6
1	A2	260	U	2.6
14	AM	62	LEU	2.6
66	Dc	104	LEU	2.6
36	A5	439	C	2.6
36	A5	1017	C	2.6
37	A7	73	C	2.6
81	Ch	28	SER	2.6
14	CM	71	ILE	2.6
27	AZ	88	ILE	2.6
9	CH	5	GLN	2.6
45	DG	124	ASP	2.6
36	A5	2522	G	2.6
17	CP	4	ALA	2.6
60	BW	75	THR	2.6
35	Ah	105	LYS	2.6
65	Db	27	TYR	2.6
9	AH	170	GLN	2.6
53	DP	55	GLN	2.6
28	Aa	16	GLY	2.6
6	CE	261	LEU	2.6
42	BD	2	ALA	2.6
33	Af	143	LYS	2.6
34	Ag	161	LYS	2.6
36	A5	981	U	2.6
3	AB	100	PHE	2.6
36	A1	3289	G	2.6
83	Dq	88	PHE	2.6
49	BL	130	GLY	2.6
70	Dg	53	GLY	2.6
25	AX	27	ASN	2.6
1	A2	697	C	2.6
2	AA	189	VAL	2.6
14	CM	75	VAL	2.6
31	Ad	6	VAL	2.6
32	Ce	2	ALA	2.6
49	BL	193	ALA	2.6
52	DO	178[A]	VAL	2.6
28	Ca	19	LYS	2.6
65	Db	28	LYS	2.6
79	Bp	92	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
42	BD	3	PHE	2.5
60	BW	81	PRO	2.5
13	AL	5	LEU	2.5
11	AJ	171	ARG	2.5
18	AQ	143	ARG	2.5
26	AY	70	VAL	2.5
3	AB	140	ILE	2.5
22	AU	20	ILE	2.5
8	AG	169	TYR	2.5
34	Cg	250	TYR	2.5
68	Be	26	HIS	2.5
70	Bg	78	GLY	2.5
73	Dj	87	SER	2.5
2	CA	193	GLN	2.5
44	DF	158	LYS	2.5
60	DW	129	LYS	2.5
30	Ac	44	VAL	2.5
17	CP	6	ASN	2.5
26	AY	134	ALA	2.5
8	AG	175	ILE	2.5
4	AC	90	THR	2.5
74	Bk	43	PHE	2.5
36	A5	3276	G	2.5
80	A6	913	G	2.5
21	AT	90	PRO	2.5
6	CE	134	LYS	2.5
14	AM	104	GLY	2.5
19	AR	2	GLY	2.5
36	A5	1192	C	2.5
81	Ch	46	LYS	2.5
8	AG	199	GLN	2.5
72	Di	19	SER	2.5
74	Dk	45	VAL	2.5
2	CA	173	ILE	2.5
8	CG	155	ASP	2.5
71	Dh	111	PHE	2.5
26	AY	125	LEU	2.5
4	AC	93	GLY	2.5
36	A1	2401	A	2.5
36	A5	440	A	2.5
36	A5	2402	A	2.5
10	CI	176	SER	2.5

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Mol	Chain	Res	Type	RSRZ
19	CR	89	SER	2.5
26	CY	134	ALA	2.5
33	Cf	110	ALA	2.5
36	A5	3289	G	2.5
1	A2	1082	C	2.5
36	A5	1581	C	2.5
7	CF	79	ASN	2.5
66	Bc	97	ASP	2.5
16	AO	119	THR	2.5
22	AU	60	THR	2.5
30	Cc	65	ARG	2.5
67	Bd	102	LYS	2.5
26	AY	122	GLY	2.5
47	DI	204	GLY	2.5
11	CJ	148	VAL	2.5
17	CP	126	VAL	2.5
45	BG	116	VAL	2.5
9	AH	6	ALA	2.4
52	BO	176[A]	LYS	2.4
1	A2	730	G	2.4
65	Bb	27	TYR	2.4
3	AB	114	VAL	2.4
14	AM	102	GLY	2.4
16	AO	16	VAL	2.4
16	AO	67	VAL	2.4
35	Ah	108	GLN	2.4
34	Ag	43	ILE	2.4
17	CP	80	MET	2.4
18	CQ	132	LYS	2.4
20	CS	144	ARG	2.4
3	AB	209	ASN	2.4
8	CG	80	ASN	2.4
15	AN	151	ASN	2.4
80	A6	145	A	2.4
4	CC	86	VAL	2.4
8	CG	169	TYR	2.4
34	Ag	55	GLY	2.4
63	BZ	32	GLY	2.4
33	Cf	152	ALA	2.4
36	A1	3154	C	2.4
47	BI	2	ALA	2.4
60	DW	128	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
61	BX	142	ILE	2.4
30	Ac	57	MET	2.4
18	CQ	40	GLU	2.4
18	CQ	42	GLU	2.4
74	Dk	69	LEU	2.4
6	AE	78	THR	2.4
6	AE	159	THR	2.4
17	AP	125	PRO	2.4
72	Di	2	THR	2.4
39	DA	142	ASP	2.4
40	BB	386	ASP	2.4
33	Cf	148	TYR	2.4
80	A6	542	A	2.4
4	AC	174	ARG	2.4
16	AO	41	ARG	2.4
19	AR	95	ARG	2.4
13	CL	4	GLU	2.4
36	A5	2875	U	2.4
40	BB	200	GLU	2.4
46	BH	191	LEU	2.4
58	DU	89	LEU	2.4
80	A6	321	C	2.4
18	CQ	2	SER	2.4
36	A5	1349	G	2.4
2	AA	35	PRO	2.4
2	AA	207	PRO	2.4
60	BW	76	VAL	2.4
4	AC	82	ASN	2.4
6	AE	2	ALA	2.4
47	BI	221	ALA	2.4
6	CE	133	LYS	2.4
4	CC	89	GLN	2.4
9	CH	108	GLN	2.4
47	BI	220	GLN	2.4
5	AD	25	PHE	2.4
3	AB	110	LEU	2.4
31	Cd	4	GLU	2.4
2	AA	2	SER	2.4
9	AH	115	SER	2.4
14	CM	121	VAL	2.4
80	A6	320	U	2.4
36	A1	1581	C	2.3

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Mol	Chain	Res	Type	RSRZ
25	AX	4	GLY	2.3
2	AA	28	ASN	2.3
16	AO	82	LYS	2.3
22	AU	82	TYR	2.3
45	BG	125	ALA	2.3
55	DR	5	ARG	2.3
55	DR	189	ALA	2.3
34	Cg	61	PHE	2.3
9	AH	15	GLU	2.3
25	CX	130	VAL	2.3
27	AZ	93	SER	2.3
35	Ah	103	LYS	2.3
36	A1	2402	A	2.3
36	A1	2971	A	2.3
74	Dk	50	SER	2.3
8	AG	78	THR	2.3
16	CO	131	GLY	2.3
17	CP	129	GLY	2.3
22	AU	78	THR	2.3
27	AZ	97	LYS	2.3
28	Aa	13	LYS	2.3
52	DO	69[A]	GLY	2.3
17	CP	128	HIS	2.3
49	DL	195	ALA	2.3
56	DS	2	ALA	2.3
19	AR	53	TYR	2.3
38	A8	81	U	2.3
80	A6	25	C	2.3
19	AR	28	PHE	2.3
45	DG	112	GLU	2.3
36	A5	3288	G	2.3
40	DB	369	ARG	2.3
5	CD	219	ALA	2.3
13	AL	2	SER	2.3
15	AN	59	GLY	2.3
42	BD	95	TRP	2.3
24	CW	108	ALA	2.3
33	Af	152	ALA	2.3
42	DD	291	ALA	2.3
45	BG	256	ALA	2.3
58	BU	72	SER	2.3
58	DU	107	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
42	BD	151	GLN	2.3
70	Dg	33	GLN	2.3
12	CK	94	GLU	2.3
28	Ca	90	GLU	2.3
54	BQ	74	GLU	2.3
2	AA	29	VAL	2.3
3	AB	212	VAL	2.3
16	AO	118	VAL	2.3
36	A1	2821	C	2.3
63	DZ	52	LYS	2.3
72	Di	3	VAL	2.3
20	AS	35	ILE	2.3
16	AO	106	ALA	2.3
16	AO	29	HIS	2.3
17	CP	136	SER	2.3
45	DG	253	SER	2.3
61	DX	24	LEU	2.3
36	A1	2522	G	2.3
8	CG	190	GLN	2.3
19	CR	42	GLN	2.3
25	AX	110	LYS	2.3
76	Dm	128	LYS	2.3
3	AB	68	VAL	2.3
18	AQ	39	VAL	2.3
36	A1	1350	A	2.3
36	A1	2100	A	2.3
38	A8	80	A	2.3
2	AA	104	PRO	2.3
14	AM	117	GLY	2.3
47	DI	2	ALA	2.3
52	DO	165[A]	ALA	2.3
83	Dq	54	GLY	2.3
8	AG	163	THR	2.3
18	CQ	57	LEU	2.3
18	AQ	21	HIS	2.3
18	CQ	21	HIS	2.3
2	AA	7	PHE	2.3
22	AU	120	SER	2.3
58	DU	15	PHE	2.3
33	Cf	134	ASN	2.3
9	AH	108	GLN	2.3
18	AQ	68	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
18	CQ	66	ARG	2.3
2	CA	190	ASP	2.3
23	AV	82	VAL	2.3
52	BO	56[A]	ASP	2.3
11	CJ	64	GLU	2.2
80	A6	540	G	2.2
81	Ch	40	PRO	2.2
14	AM	101	ALA	2.2
55	BR	54	ALA	2.2
83	Dq	3	GLY	2.2
1	A2	280	U	2.2
2	CA	57	LEU	2.2
3	AB	70	LEU	2.2
33	Cf	117	LEU	2.2
36	A1	2207	A	2.2
36	A5	1820	U	2.2
36	A5	2397	A	2.2
80	A6	579	A	2.2
22	AU	27	THR	2.2
68	De	26	HIS	2.2
9	AH	151	LYS	2.2
52	BO	170[A]	LYS	2.2
2	AA	49	ASN	2.2
22	AU	94	GLU	2.2
58	BU	11	ILE	2.2
3	AB	139	ALA	2.2
3	CB	178	GLY	2.2
12	CK	1	MET	2.2
22	AU	54	GLY	2.2
27	AZ	75	LEU	2.2
34	Cg	227	ALA	2.2
47	DI	195	ALA	2.2
70	Dg	77	GLY	2.2
15	AN	113	PHE	2.2
3	AB	201	THR	2.2
45	BG	248	LYS	2.2
36	A1	1356	U	2.2
80	A6	261	U	2.2
1	A2	755	A	2.2
41	DC	232	SER	2.2
80	A6	1081	A	2.2
8	AG	73	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
22	AU	86	ILE	2.2
57	DT	104	GLU	2.2
76	Bm	78	ILE	2.2
1	A2	25	C	2.2
3	CB	89	ASP	2.2
9	AH	41	LEU	2.2
15	CN	72	MET	2.2
25	AX	119	GLY	2.2
26	CY	130	ALA	2.2
34	Ag	227	ALA	2.2
42	BD	293	LEU	2.2
45	BG	25	PRO	2.2
52	BO	131[A]	PRO	2.2
33	Cf	143	LYS	2.2
13	AL	156	PHE	2.2
42	BD	55	PHE	2.2
74	Dk	3	ARG	2.2
46	BH	138	THR	2.2
48	DJ	171	VAL	2.2
63	DZ	96	VAL	2.2
36	A1	2571	U	2.2
80	A6	719	U	2.2
80	A6	1285	U	2.2
16	AO	39	ILE	2.2
17	CP	103	ASN	2.2
1	A2	579	A	2.2
80	A6	1243	G	2.2
3	AB	188	LEU	2.2
9	CH	93	LEU	2.2
14	AM	36	LEU	2.2
14	CM	45	LEU	2.2
3	AB	156	ALA	2.2
15	CN	59	GLY	2.2
50	DM	138	ALA	2.2
72	Bi	31	GLY	2.2
16	AO	124	ASP	2.2
18	CQ	113	ASP	2.2
26	AY	123	LYS	2.2
42	BD	279	LYS	2.2
3	AB	213	ARG	2.2
8	AG	219	ARG	2.2
60	BW	93	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
36	A5	1556	C	2.2
16	AO	48	VAL	2.2
34	Cg	3	SER	2.2
50	BM	10	SER	2.2
58	DU	11	ILE	2.2
75	Dl	11	GLN	2.2
20	CS	18	LEU	2.2
5	AD	3	ALA	2.2
27	CZ	104	ALA	2.2
81	Ch	50	ASN	2.2
1	A2	1657	U	2.2
3	AB	63	GLY	2.2
17	CP	125	PRO	2.2
36	A5	3153	U	2.2
36	A5	3195	U	2.2
68	De	5	PRO	2.2
80	A6	137	U	2.2
2	AA	72	ASP	2.2
2	AA	162	CYS	2.2
21	AT	35	ASP	2.2
36	A1	2169	G	2.2
36	A5	1812	G	2.2
80	A6	656	G	2.2
2	CA	92	HIS	2.2
3	AB	127	VAL	2.1
22	AU	107	THR	2.1
65	Db	26	THR	2.1
9	AH	125	ILE	2.1
36	A1	1017	C	2.1
36	A1	3360	C	2.1
2	AA	30	GLN	2.1
2	CA	146	LEU	2.1
61	DX	40	LEU	2.1
21	AT	92	LYS	2.1
65	Db	23	LYS	2.1
14	CM	56	GLU	2.1
16	AO	37	GLU	2.1
16	AO	40	ALA	2.1
48	DJ	77	GLU	2.1
53	BP	183	ALA	2.1
61	DX	23	ALA	2.1
5	AD	180	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
17	AP	48	GLY	2.1
8	AG	152	ASP	2.1
29	Cb	40	CYS	2.1
36	A1	2996	U	2.1
38	A8	82	U	2.1
78	Do	17	CYS	2.1
22	CU	107	THR	2.1
1	A2	217	A	2.1
18	CQ	23	LYS	2.1
42	BD	5	LYS	2.1
12	AK	13	GLN	2.1
80	A6	142	G	2.1
83	Dq	53	MET	2.1
7	CF	155	ALA	2.1
26	AY	90	ARG	2.1
35	Ah	141	ALA	2.1
40	DB	146	ARG	2.1
50	BM	138	ALA	2.1
59	BV	32	ARG	2.1
61	BX	23	ALA	2.1
8	CG	173	PRO	2.1
13	CL	2	SER	2.1
16	AO	116	GLU	2.1
19	CR	118	PRO	2.1
24	AW	107	SER	2.1
28	Aa	98	PRO	2.1
71	Bh	102	GLU	2.1
52	BO	48[A]	PHE	2.1
9	AH	90	VAL	2.1
48	BJ	171	VAL	2.1
32	Ae	48	THR	2.1
33	Cf	105	TYR	2.1
36	A1	2538	U	2.1
36	A5	1555	U	2.1
41	BC	182	LEU	2.1
48	BJ	164	LYS	2.1
55	DR	184	LEU	2.1
58	BU	108	TYR	2.1
63	BZ	55	LYS	2.1
80	A6	1535	U	2.1
19	AR	11	ARG	2.1
41	DC	3	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
75	DI	46	ARG	2.1
52	BO	195[A]	ALA	2.1
55	BR	189	ALA	2.1
59	DV	5	GLY	2.1
4	AC	248	SER	2.1
60	DW	72	SER	2.1
58	BU	47	VAL	2.1
3	AB	151	LYS	2.1
9	CH	8	ILE	2.1
18	AQ	65	ILE	2.1
19	CR	103	ASP	2.1
22	CU	91	ILE	2.1
29	Cb	41	LEU	2.1
40	DB	188	ILE	2.1
13	CL	116	ARG	2.1
19	AR	8	THR	2.1
69	Bf	60	ARG	2.1
70	Dg	2	ALA	2.1
71	Bh	120	ALA	2.1
42	BD	161	GLY	2.1
28	Aa	20	PRO	2.1
47	DI	217	PHE	2.1
19	CR	88	VAL	2.1
34	Ag	17	ASN	2.1
3	AB	61	LEU	2.1
5	CD	218	LEU	2.1
8	CG	216	LEU	2.1
9	CH	58	LEU	2.1
11	AJ	116	LEU	2.1
20	AS	32	LEU	2.1
22	CU	26	LEU	2.1
22	AU	87	HIS	2.1
26	CY	26	ASP	2.1
6	CE	26	CYS	2.1
19	CR	35	CYS	2.1
17	AP	131	ALA	2.1
41	DC	305	ALA	2.1
21	AT	70	GLN	2.1
70	Bg	33	GLN	2.1
9	AH	186	PRO	2.1
17	CP	12	PHE	2.1
39	BA	141	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
63	BZ	70	PRO	2.1
9	AH	73	VAL	2.0
10	AI	199	LYS	2.0
11	AJ	148	VAL	2.0
12	CK	87	VAL	2.0
35	Ah	106	VAL	2.0
36	A1	1353	U	2.0
36	A1	3157	U	2.0
55	BR	52	LYS	2.0
7	AF	172	ILE	2.0
8	CG	197	ASN	2.0
12	AK	28	ASN	2.0
16	AO	76	ILE	2.0
16	AO	102	LEU	2.0
28	Ca	11	ASN	2.0
42	DD	290	ILE	2.0
60	DW	43	ARG	2.0
13	CL	47	THR	2.0
24	AW	108	ALA	2.0
26	CY	3	ASP	2.0
32	Ce	48	THR	2.0
34	Ag	226	ALA	2.0
34	Cg	2	ALA	2.0
58	DU	36	TYR	2.0
58	DU	98	THR	2.0
63	DZ	91	ALA	2.0
2	CA	4	PRO	2.0
3	AB	223	PHE	2.0
9	CH	85	PHE	2.0
58	DU	71	PHE	2.0
1	A2	704	C	2.0
18	CQ	140	LYS	2.0
26	AY	117	LYS	2.0
17	CP	11	VAL	2.0
14	AM	88	LEU	2.0
20	AS	18	LEU	2.0
25	AX	121	ARG	2.0
42	BD	277	LEU	2.0
14	AM	89	ILE	2.0
42	BD	220	SER	2.0
1	A2	194	U	2.0
1	A2	820	U	2.0

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Mol	Chain	Res	Type	RSRZ
13	CL	21	ASN	2.0
36	A1	3155	U	2.0
34	Cg	251	TRP	2.0
7	AF	71	ALA	2.0
14	AM	128	ALA	2.0
35	Ah	87	THR	2.0
39	BA	20	THR	2.0
53	DP	2	ALA	2.0
71	Dh	2	ALA	2.0
2	CA	110	TYR	2.0
5	CD	25	PHE	2.0
9	CH	69	GLY	2.0
34	Cg	28	GLY	2.0
42	DD	91	GLY	2.0
43	DE	67	GLY	2.0
83	Dq	197	PHE	2.0
32	Ae	60	PRO	2.0
42	DD	151	GLN	2.0
52	DO	114[A]	LYS	2.0
1	A2	538	A	2.0
8	AG	222	GLU	2.0
8	CG	162	VAL	2.0
10	CI	187	GLU	2.0
6	AE	59	ARG	2.0
14	CM	66	VAL	2.0
58	BU	89	LEU	2.0
74	Bk	78	LEU	2.0
28	Aa	44	ILE	2.0
36	A1	1192	C	2.0
36	A1	2507	C	2.0
36	A5	2507	C	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	A5	4320	1/1	0.09	0.27	117,117,117,117	0
87	MG	A5	4515	1/1	0.10	0.23	109,109,109,109	0
87	MG	A5	4004	1/1	0.12	0.34	55,55,55,55	0
87	MG	A1	4291	1/1	0.17	0.27	112,112,112,112	0
87	MG	A2	2194	1/1	0.19	0.32	113,113,113,113	0
87	MG	A1	4481	1/1	0.24	0.35	97,97,97,97	0
87	MG	A5	4131	1/1	0.32	0.27	85,85,85,85	0
87	MG	A2	2209	1/1	0.33	0.46	96,96,96,96	0
87	MG	A1	3906	1/1	0.36	0.27	91,91,91,91	0
87	MG	A1	4232	1/1	0.37	0.40	75,75,75,75	0
87	MG	A5	3897	1/1	0.37	0.49	100,100,100,100	0
87	MG	A6	2312	1/1	0.38	0.29	85,85,85,85	0
87	MG	A1	4301	1/1	0.38	0.12	118,118,118,118	0
87	MG	A2	2227	1/1	0.38	0.22	106,106,106,106	0
87	MG	DB	413	1/1	0.38	0.51	101,101,101,101	0
87	MG	A1	3863	1/1	0.43	0.40	125,125,125,125	0
87	MG	A5	4518	1/1	0.45	0.30	144,144,144,144	0
87	MG	A5	4254	1/1	0.45	0.72	103,103,103,103	0
87	MG	A2	2182	1/1	0.46	0.35	78,78,78,78	0
87	MG	A2	2219	1/1	0.46	0.25	93,93,93,93	0
87	MG	A1	4313	1/1	0.46	0.26	105,105,105,105	0
87	MG	A2	2159	1/1	0.46	0.44	88,88,88,88	0
87	MG	A5	4207	1/1	0.46	0.41	102,102,102,102	0
87	MG	A2	2251	1/1	0.47	0.36	77,77,77,77	0
87	MG	A1	4089	1/1	0.48	0.22	89,89,89,89	0
87	MG	A1	4501	1/1	0.48	0.38	103,103,103,103	0
87	MG	CQ	202	1/1	0.49	0.36	85,85,85,85	0
87	MG	A6	2337	1/1	0.50	0.24	127,127,127,127	0
87	MG	A6	2128	1/1	0.50	0.50	81,81,81,81	0
87	MG	A5	4492	1/1	0.50	0.49	73,73,73,73	0
87	MG	A1	4135	1/1	0.51	0.15	96,96,96,96	0
87	MG	A1	4370	1/1	0.51	0.27	104,104,104,104	0
87	MG	A2	2166	1/1	0.52	0.22	90,90,90,90	0
87	MG	A5	4371	1/1	0.52	0.43	90,90,90,90	0
87	MG	A1	4182	1/1	0.52	0.32	81,81,81,81	0
87	MG	A6	2316	1/1	0.53	0.27	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2149	1/1	0.53	0.29	83,83,83,83	0
87	MG	A1	4255	1/1	0.54	0.41	87,87,87,87	0
87	MG	A3	230	1/1	0.54	0.29	85,85,85,85	0
87	MG	AB	301	1/1	0.54	0.23	98,98,98,98	0
87	MG	A1	4190	1/1	0.55	0.46	98,98,98,98	0
87	MG	A5	4372	1/1	0.55	0.41	74,74,74,74	0
87	MG	A1	4364	1/1	0.56	0.19	92,92,92,92	0
87	MG	A5	4490	1/1	0.56	0.19	90,90,90,90	0
87	MG	A6	2287	1/1	0.57	0.30	96,96,96,96	0
87	MG	A1	4435	1/1	0.57	0.29	105,105,105,105	0
87	MG	A5	3906	1/1	0.57	0.28	56,56,56,56	0
87	MG	A1	4457	1/1	0.57	0.25	97,97,97,97	0
87	MG	A2	2123	1/1	0.57	0.41	81,81,81,81	0
87	MG	Dq	401	1/1	0.57	0.29	81,81,81,81	0
87	MG	A6	2253	1/1	0.58	0.39	85,85,85,85	0
87	MG	A2	2137	1/1	0.58	0.28	97,97,97,97	0
87	MG	A2	2147	1/1	0.58	0.28	93,93,93,93	0
87	MG	A1	4150	1/1	0.58	0.22	95,95,95,95	0
87	MG	A2	2094	1/1	0.58	0.45	68,68,68,68	0
87	MG	A5	4381	1/1	0.58	0.25	96,96,96,96	0
87	MG	A1	4502	1/1	0.58	0.15	93,93,93,93	0
87	MG	A3	220	1/1	0.58	0.43	83,83,83,83	0
87	MG	A2	2156	1/1	0.58	0.32	70,70,70,70	0
86	OHX	A5	3786	7/7	0.58	0.21	238,238,238,238	7
87	MG	A6	2195	1/1	0.58	0.39	93,93,93,93	0
87	MG	A5	4146	1/1	0.58	0.39	80,80,80,80	0
88	ZN	Cb	101	1/1	0.58	0.20	305,305,305,305	0
87	MG	A2	2208	1/1	0.59	0.32	109,109,109,109	0
87	MG	A5	4334	1/1	0.59	0.12	109,109,109,109	0
87	MG	CS	202	1/1	0.59	0.11	63,63,63,63	0
87	MG	A6	2182	1/1	0.59	0.17	63,63,63,63	0
87	MG	A6	2250	1/1	0.60	0.26	96,96,96,96	0
87	MG	A1	4495	1/1	0.60	0.31	109,109,109,109	0
87	MG	Ad	102	1/1	0.60	0.38	89,89,89,89	0
87	MG	A1	3870	1/1	0.61	0.35	57,57,57,57	0
87	MG	A1	4344	1/1	0.61	0.19	88,88,88,88	0
87	MG	A5	4527	1/1	0.61	0.23	78,78,78,78	0
87	MG	A5	4571	1/1	0.61	0.11	84,84,84,84	0
87	MG	A4	228	1/1	0.61	0.28	70,70,70,70	0
87	MG	A6	2116	1/1	0.61	0.47	80,80,80,80	0
87	MG	A5	4336	1/1	0.61	0.44	77,77,77,77	0
87	MG	A5	3847	1/1	0.62	0.35	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2097	1/1	0.62	0.40	78,78,78,78	0
87	MG	A5	4183	1/1	0.62	0.37	76,76,76,76	0
86	OHX	A5	3817	7/7	0.62	0.14	205,205,205,205	7
86	OHX	A5	3777	7/7	0.62	0.25	187,187,187,187	7
87	MG	A1	3920	1/1	0.63	0.30	53,53,53,53	0
87	MG	A1	4236	1/1	0.63	0.25	73,73,73,73	0
87	MG	A5	4137	1/1	0.63	0.23	104,104,104,104	0
87	MG	A2	2213	1/1	0.63	0.63	107,107,107,107	0
87	MG	A1	3841	1/1	0.63	0.22	47,47,47,47	0
87	MG	A2	2253	1/1	0.63	0.32	89,89,89,89	0
87	MG	A2	2242	1/1	0.63	0.41	105,105,105,105	0
87	MG	A6	2189	1/1	0.63	0.24	42,42,42,42	0
87	MG	A1	4327	1/1	0.63	0.22	108,108,108,108	0
87	MG	A6	2237	1/1	0.63	0.30	96,96,96,96	0
87	MG	AN	202	1/1	0.63	0.13	63,63,63,63	0
87	MG	A1	3922	1/1	0.64	0.47	107,107,107,107	0
87	MG	A1	4153	1/1	0.64	0.21	96,96,96,96	0
87	MG	A1	4256	1/1	0.64	0.21	86,86,86,86	0
87	MG	A1	4087	1/1	0.64	0.24	67,67,67,67	0
87	MG	A6	2191	1/1	0.64	0.30	84,84,84,84	0
87	MG	A1	4420	1/1	0.64	0.26	73,73,73,73	0
87	MG	Cd	102	1/1	0.64	0.26	75,75,75,75	0
87	MG	A2	2193	1/1	0.64	0.32	79,79,79,79	0
87	MG	A7	234	1/1	0.64	0.38	90,90,90,90	0
86	OHX	A6	2087	7/7	0.64	0.18	205,205,205,205	7
87	MG	A6	2104	1/1	0.64	0.38	68,68,68,68	0
87	MG	A5	3911	1/1	0.64	0.34	82,82,82,82	0
87	MG	BA	302	1/1	0.65	0.12	63,63,63,63	0
87	MG	A1	4109	1/1	0.65	0.20	80,80,80,80	0
86	OHX	A2	2082	7/7	0.65	0.17	225,225,225,225	7
87	MG	A5	4318	1/1	0.65	0.17	83,83,83,83	0
87	MG	A6	2249	1/1	0.65	0.26	71,71,71,71	0
87	MG	A5	4087	1/1	0.65	0.36	86,86,86,86	0
87	MG	A5	4100	1/1	0.65	0.33	86,86,86,86	0
87	MG	DB	404	1/1	0.65	0.49	68,68,68,68	0
87	MG	A1	4477	1/1	0.65	0.24	108,108,108,108	0
87	MG	A2	2236	1/1	0.65	0.19	100,100,100,100	0
87	MG	A1	4230	1/1	0.65	0.35	91,91,91,91	0
87	MG	A5	3995	1/1	0.66	0.37	53,53,53,53	0
87	MG	A1	3829	1/1	0.66	0.41	55,55,55,55	0
87	MG	A2	2231	1/1	0.66	0.24	75,75,75,75	0
87	MG	A6	2194	1/1	0.66	0.20	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A1	3968	1/1	0.66	0.30	68,68,68,68	0
87	MG	A2	2091	1/1	0.66	0.37	81,81,81,81	0
87	MG	A2	2226	1/1	0.66	0.32	87,87,87,87	0
87	MG	A2	2214	1/1	0.66	0.40	75,75,75,75	0
87	MG	A5	4186	1/1	0.66	0.34	84,84,84,84	0
87	MG	A1	4119	1/1	0.66	0.35	78,78,78,78	0
87	MG	A1	3909	1/1	0.66	0.40	67,67,67,67	0
87	MG	A8	229	1/1	0.66	0.41	95,95,95,95	0
87	MG	A6	2306	1/1	0.66	0.21	103,103,103,103	0
87	MG	A5	3921	1/1	0.66	0.53	82,82,82,82	0
87	MG	A5	4329	1/1	0.66	0.32	86,86,86,86	0
87	MG	A5	3988	1/1	0.66	0.38	51,51,51,51	0
87	MG	A6	2121	1/1	0.67	0.29	64,64,64,64	0
87	MG	A1	4059	1/1	0.67	0.25	84,84,84,84	0
87	MG	A6	2302	1/1	0.67	0.39	108,108,108,108	0
87	MG	A1	4261	1/1	0.67	0.31	79,79,79,79	0
87	MG	A1	4288	1/1	0.67	0.21	81,81,81,81	0
87	MG	A5	4524	1/1	0.67	0.16	85,85,85,85	0
86	OHX	A6	2095	7/7	0.67	0.25	213,213,213,213	7
87	MG	A5	4565	1/1	0.67	0.19	87,87,87,87	0
87	MG	A2	2212	1/1	0.67	0.34	100,100,100,100	0
87	MG	A5	4043	1/1	0.67	0.30	35,35,35,35	0
87	MG	A1	3994	1/1	0.67	0.33	64,64,64,64	0
87	MG	A5	4335	1/1	0.67	0.31	94,94,94,94	0
87	MG	A1	4473	1/1	0.67	0.17	111,111,111,111	0
87	MG	A1	4323	1/1	0.67	0.20	92,92,92,92	0
87	MG	A1	4117	1/1	0.67	0.37	80,80,80,80	0
86	OHX	A2	2077	7/7	0.68	0.21	206,206,206,206	7
87	MG	A2	2150	1/1	0.68	0.41	102,102,102,102	0
87	MG	A1	4108	1/1	0.68	0.25	60,60,60,60	0
87	MG	A5	4451	1/1	0.68	0.39	80,80,80,80	0
87	MG	A5	4479	1/1	0.68	0.22	64,64,64,64	0
86	OHX	A1	3772	7/7	0.68	0.26	171,171,171,171	7
87	MG	A4	229	1/1	0.68	0.10	54,54,54,54	0
87	MG	A1	4465	1/1	0.68	0.53	92,92,92,92	0
87	MG	A1	4114	1/1	0.68	0.17	71,71,71,71	0
87	MG	A5	4220	1/1	0.68	0.32	82,82,82,82	0
87	MG	A5	4251	1/1	0.68	0.20	85,85,85,85	0
87	MG	A2	2158	1/1	0.68	0.43	71,71,71,71	0
87	MG	A1	3888	1/1	0.68	0.48	67,67,67,67	0
87	MG	A1	4487	1/1	0.68	0.18	80,80,80,80	0
87	MG	A5	4323	1/1	0.68	0.25	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2117	1/1	0.68	0.40	80,80,80,80	0
87	MG	A1	4147	1/1	0.68	0.24	73,73,73,73	0
87	MG	A6	2323	1/1	0.68	0.23	77,77,77,77	0
87	MG	A6	2324	1/1	0.68	0.13	74,74,74,74	0
87	MG	A1	4480	1/1	0.69	0.18	91,91,91,91	0
87	MG	A5	3927	1/1	0.69	0.14	49,49,49,49	0
87	MG	A5	3929	1/1	0.69	0.41	80,80,80,80	0
87	MG	A1	4048	1/1	0.69	0.19	67,67,67,67	0
87	MG	A5	4270	1/1	0.69	0.21	57,57,57,57	0
87	MG	BV	201	1/1	0.69	0.35	95,95,95,95	0
87	MG	A6	2246	1/1	0.69	0.17	78,78,78,78	0
87	MG	A1	4219	1/1	0.69	0.35	85,85,85,85	0
87	MG	A1	4227	1/1	0.69	0.21	52,52,52,52	0
87	MG	CY	203	1/1	0.69	0.40	109,109,109,109	0
86	OHX	A5	3818	7/7	0.69	0.20	226,226,226,226	7
87	MG	A1	4078	1/1	0.69	0.33	80,80,80,80	0
87	MG	A2	2128	1/1	0.69	0.46	62,62,62,62	0
87	MG	A1	4175	1/1	0.69	0.14	69,69,69,69	0
87	MG	A2	2234	1/1	0.69	0.23	94,94,94,94	0
87	MG	A5	4420	1/1	0.69	0.16	93,93,93,93	0
87	MG	A6	2196	1/1	0.70	0.38	83,83,83,83	0
87	MG	A6	2200	1/1	0.70	0.29	82,82,82,82	0
87	MG	A1	4220	1/1	0.70	0.41	103,103,103,103	0
87	MG	A1	4221	1/1	0.70	0.17	92,92,92,92	0
87	MG	A3	229	1/1	0.70	0.36	99,99,99,99	0
86	OHX	A3	213	7/7	0.70	0.15	195,195,195,195	7
87	MG	A5	3933	1/1	0.70	0.35	74,74,74,74	0
87	MG	A1	3848	1/1	0.70	0.55	75,75,75,75	0
87	MG	A6	2259	1/1	0.70	0.29	119,119,119,119	0
87	MG	A1	4047	1/1	0.70	0.34	98,98,98,98	0
87	MG	A5	4412	1/1	0.70	0.49	104,104,104,104	0
87	MG	A2	2175	1/1	0.70	0.28	68,68,68,68	0
87	MG	A5	4056	1/1	0.70	0.42	78,78,78,78	0
86	OHX	CP	202	7/7	0.70	0.22	221,221,221,221	7
87	MG	A5	4099	1/1	0.70	0.40	93,93,93,93	0
87	MG	A2	2187	1/1	0.70	0.33	90,90,90,90	0
87	MG	A5	4499	1/1	0.70	0.43	76,76,76,76	0
87	MG	A5	4124	1/1	0.70	0.30	78,78,78,78	0
87	MG	A2	2126	1/1	0.70	0.43	54,54,54,54	0
87	MG	A1	4155	1/1	0.70	0.29	88,88,88,88	0
87	MG	A5	4138	1/1	0.70	0.38	77,77,77,77	0
86	OHX	A8	218	7/7	0.70	0.20	221,221,221,221	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A6	2168	1/1	0.70	0.49	77,77,77,77	0
87	MG	A5	4580	1/1	0.70	0.25	82,82,82,82	0
87	MG	A1	4299	1/1	0.70	0.18	84,84,84,84	0
87	MG	A8	228	1/1	0.70	0.18	86,86,86,86	0
87	MG	A1	4104	1/1	0.70	0.23	65,65,65,65	0
87	MG	A1	4489	1/1	0.70	0.23	94,94,94,94	0
87	MG	A2	2098	1/1	0.70	0.40	62,62,62,62	0
87	MG	DJ	202	1/1	0.70	0.28	81,81,81,81	0
87	MG	A2	2146	1/1	0.70	0.29	71,71,71,71	0
87	MG	A5	3871	1/1	0.70	0.28	56,56,56,56	0
87	MG	Bm	201	1/1	0.71	0.26	68,68,68,68	0
87	MG	A1	4359	1/1	0.71	0.28	70,70,70,70	0
87	MG	A5	4177	1/1	0.71	0.24	65,65,65,65	0
87	MG	A2	2144	1/1	0.71	0.27	57,57,57,57	0
87	MG	A1	4368	1/1	0.71	0.35	80,80,80,80	0
87	MG	A6	2288	1/1	0.71	0.24	106,106,106,106	0
87	MG	A2	2168	1/1	0.71	0.20	78,78,78,78	0
87	MG	A6	2141	1/1	0.71	0.42	78,78,78,78	0
87	MG	A1	4396	1/1	0.71	0.27	74,74,74,74	0
87	MG	A1	3851	1/1	0.71	0.22	53,53,53,53	0
87	MG	A5	4295	1/1	0.71	0.20	61,61,61,61	0
87	MG	A1	4425	1/1	0.71	0.30	106,106,106,106	0
87	MG	A5	4023	1/1	0.71	0.37	44,44,44,44	0
87	MG	AE	301	1/1	0.71	0.28	88,88,88,88	0
87	MG	A1	4311	1/1	0.71	0.26	92,92,92,92	0
87	MG	A4	226	1/1	0.71	0.41	70,70,70,70	0
86	OHX	A2	2051	7/7	0.71	0.26	209,209,209,209	7
87	MG	A2	2119	1/1	0.71	0.31	67,67,67,67	0
86	OHX	A6	2052	7/7	0.71	0.18	211,211,211,211	7
87	MG	A1	4281	1/1	0.71	0.32	74,74,74,74	0
87	MG	Bj	106	1/1	0.71	0.35	75,75,75,75	0
87	MG	A5	4390	1/1	0.71	0.37	70,70,70,70	0
87	MG	A1	4492	1/1	0.72	0.19	100,100,100,100	0
87	MG	A1	4038	1/1	0.72	0.39	89,89,89,89	0
87	MG	A5	3935	1/1	0.72	0.36	51,51,51,51	0
87	MG	A6	2298	1/1	0.72	0.16	77,77,77,77	0
86	OHX	A1	3793	7/7	0.72	0.18	232,232,232,232	7
87	MG	A5	4341	1/1	0.72	0.61	96,96,96,96	0
87	MG	A5	4359	1/1	0.72	0.17	86,86,86,86	0
86	OHX	A2	2063	7/7	0.72	0.16	183,183,183,183	7
87	MG	A6	2157	1/1	0.72	0.44	70,70,70,70	0
87	MG	A1	4504	1/1	0.72	0.33	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	BI	303	7/7	0.72	0.26	215,215,215,215	7
87	MG	A5	4078	1/1	0.72	0.28	49,49,49,49	0
87	MG	A1	4453	1/1	0.72	0.25	114,114,114,114	0
87	MG	A6	2326	1/1	0.72	0.20	117,117,117,117	0
86	OHX	A2	2079	7/7	0.72	0.22	157,157,157,157	7
87	MG	A5	4486	1/1	0.72	0.23	94,94,94,94	0
87	MG	A2	2161	1/1	0.72	0.29	58,58,58,58	0
87	MG	A1	3933	1/1	0.72	0.40	53,53,53,53	0
87	MG	A1	3958	1/1	0.72	0.32	45,45,45,45	0
87	MG	A5	4502	1/1	0.72	0.30	84,84,84,84	0
87	MG	A1	4479	1/1	0.72	0.23	74,74,74,74	0
87	MG	BP	211	1/1	0.72	0.44	123,123,123,123	0
87	MG	A6	2238	1/1	0.72	0.23	73,73,73,73	0
87	MG	A5	3880	1/1	0.72	0.32	45,45,45,45	0
87	MG	A5	3888	1/1	0.72	0.28	64,64,64,64	0
87	MG	A5	4203	1/1	0.72	0.22	82,82,82,82	0
87	MG	A1	4260	1/1	0.72	0.24	75,75,75,75	0
87	MG	A5	3905	1/1	0.72	0.27	75,75,75,75	0
87	MG	A2	2111	1/1	0.72	0.21	69,69,69,69	0
87	MG	Bj	109	1/1	0.72	0.39	122,122,122,122	0
87	MG	A5	3912	1/1	0.72	0.38	77,77,77,77	0
87	MG	A5	3920	1/1	0.72	0.31	83,83,83,83	0
87	MG	A5	4297	1/1	0.72	0.21	56,56,56,56	0
87	MG	Dp	102	1/1	0.72	0.12	63,63,63,63	0
87	MG	A1	3977	1/1	0.72	0.41	76,76,76,76	0
87	MG	A1	3883	1/1	0.72	0.27	37,37,37,37	0
87	MG	A2	2129	1/1	0.73	0.29	59,59,59,59	0
87	MG	A5	4206	1/1	0.73	0.37	110,110,110,110	0
87	MG	A5	3941	1/1	0.73	0.37	51,51,51,51	0
87	MG	A5	4214	1/1	0.73	0.21	66,66,66,66	0
87	MG	A2	2255	1/1	0.73	0.08	107,107,107,107	0
87	MG	A5	4228	1/1	0.73	0.26	82,82,82,82	0
87	MG	A1	4194	1/1	0.73	0.46	96,96,96,96	0
87	MG	A1	4506	1/1	0.73	0.31	77,77,77,77	0
87	MG	A1	4341	1/1	0.73	0.31	118,118,118,118	0
87	MG	A1	3926	1/1	0.73	0.29	55,55,55,55	0
87	MG	A6	2146	1/1	0.73	0.28	49,49,49,49	0
87	MG	A1	4357	1/1	0.73	0.18	89,89,89,89	0
87	MG	A5	4081	1/1	0.73	0.30	79,79,79,79	0
86	OHX	A1	3808	7/7	0.73	0.19	194,194,194,194	7
87	MG	A6	2171	1/1	0.73	0.33	77,77,77,77	0
87	MG	A6	2175	1/1	0.73	0.29	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A1	4362	1/1	0.73	0.33	85,85,85,85	0
87	MG	A2	2124	1/1	0.73	0.26	79,79,79,79	0
86	OHX	BI	304	7/7	0.73	0.26	193,193,193,193	7
87	MG	A2	2185	1/1	0.73	0.14	72,72,72,72	0
87	MG	A5	3925	1/1	0.73	0.24	57,57,57,57	0
86	OHX	A1	3796	7/7	0.73	0.29	174,174,174,174	7
87	MG	A1	4404	1/1	0.73	0.27	80,80,80,80	0
87	MG	A5	4382	1/1	0.73	0.37	99,99,99,99	0
87	MG	A2	2148	1/1	0.73	0.22	89,89,89,89	0
87	MG	A1	3919	1/1	0.74	0.67	138,138,138,138	0
87	MG	A1	4137	1/1	0.74	0.36	84,84,84,84	0
87	MG	A2	2165	1/1	0.74	0.34	78,78,78,78	0
86	OHX	A1	3728	7/7	0.74	0.17	203,203,203,203	7
86	OHX	A1	3753	7/7	0.74	0.20	243,243,243,243	7
87	MG	A1	4247	1/1	0.74	0.13	74,74,74,74	0
87	MG	A5	4144	1/1	0.74	0.27	75,75,75,75	0
87	MG	A6	2131	1/1	0.74	0.25	46,46,46,46	0
87	MG	A5	4428	1/1	0.74	0.20	75,75,75,75	0
87	MG	A5	4431	1/1	0.74	0.21	118,118,118,118	0
87	MG	A6	2272	1/1	0.74	0.25	115,115,115,115	0
87	MG	A1	4337	1/1	0.74	0.27	108,108,108,108	0
87	MG	A1	3859	1/1	0.74	0.47	78,78,78,78	0
87	MG	A1	4470	1/1	0.74	0.27	97,97,97,97	0
86	OHX	A5	3781	7/7	0.74	0.16	199,199,199,199	7
86	OHX	A2	2028	7/7	0.74	0.20	180,180,180,180	7
87	MG	A5	3928	1/1	0.74	0.44	90,90,90,90	0
87	MG	A6	2308	1/1	0.74	0.34	81,81,81,81	0
87	MG	AJ	201	1/1	0.74	0.27	82,82,82,82	0
87	MG	A2	2210	1/1	0.74	0.22	81,81,81,81	0
87	MG	A5	4526	1/1	0.74	0.16	83,83,83,83	0
87	MG	A5	3937	1/1	0.74	0.36	69,69,69,69	0
87	MG	A5	4529	1/1	0.74	0.16	91,91,91,91	0
87	MG	BO	202	1/1	0.74	0.20	77,77,77,77	0
87	MG	A5	4279	1/1	0.74	0.37	63,63,63,63	0
87	MG	A2	2183	1/1	0.74	0.28	49,49,49,49	0
87	MG	A5	4581	1/1	0.74	0.40	97,97,97,97	0
87	MG	BP	212	1/1	0.74	0.33	93,93,93,93	0
87	MG	A8	201	1/1	0.74	0.18	92,92,92,92	0
86	OHX	A2	2054	7/7	0.74	0.12	227,227,227,227	7
87	MG	CL	204	1/1	0.74	0.28	83,83,83,83	0
87	MG	A5	4028	1/1	0.74	0.34	47,47,47,47	0
87	MG	A1	4296	1/1	0.74	0.37	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	Bj	107	1/1	0.74	0.38	101,101,101,101	0
87	MG	DJ	203	1/1	0.74	0.33	80,80,80,80	0
87	MG	A6	2210	1/1	0.74	0.24	72,72,72,72	0
87	MG	A6	2222	1/1	0.74	0.27	86,86,86,86	0
87	MG	A5	3408	1/1	0.74	0.20	63,63,63,63	0
87	MG	A1	4497	1/1	0.75	0.14	79,79,79,79	0
87	MG	A6	2291	1/1	0.75	0.19	100,100,100,100	0
87	MG	A5	4395	1/1	0.75	0.36	58,58,58,58	0
87	MG	A5	4139	1/1	0.75	0.20	99,99,99,99	0
87	MG	A2	2240	1/1	0.75	0.20	97,97,97,97	0
87	MG	A5	4423	1/1	0.75	0.36	82,82,82,82	0
87	MG	A2	2103	1/1	0.75	0.41	58,58,58,58	0
87	MG	A2	2247	1/1	0.75	0.27	86,86,86,86	0
87	MG	A1	4105	1/1	0.75	0.49	84,84,84,84	0
87	MG	A6	2310	1/1	0.75	0.33	89,89,89,89	0
87	MG	A1	4478	1/1	0.75	0.34	100,100,100,100	0
87	MG	A6	2315	1/1	0.75	0.32	84,84,84,84	0
87	MG	A6	2102	1/1	0.75	0.27	63,63,63,63	0
87	MG	A5	4211	1/1	0.75	0.27	77,77,77,77	0
87	MG	A6	2103	1/1	0.75	0.37	64,64,64,64	0
87	MG	A5	4217	1/1	0.75	0.34	83,83,83,83	0
87	MG	A1	4226	1/1	0.75	0.29	63,63,63,63	0
87	MG	A6	2111	1/1	0.75	0.18	51,51,51,51	0
87	MG	A6	2334	1/1	0.75	0.25	72,72,72,72	0
87	MG	A5	3992	1/1	0.75	0.30	57,57,57,57	0
87	MG	A2	2191	1/1	0.75	0.41	91,91,91,91	0
87	MG	A6	2228	1/1	0.75	0.41	89,89,89,89	0
86	OHX	A5	3811	7/7	0.75	0.27	214,214,214,214	7
87	MG	A1	4482	1/1	0.75	0.54	129,129,129,129	0
87	MG	A6	2239	1/1	0.75	0.16	82,82,82,82	0
87	MG	A5	4055	1/1	0.75	0.28	81,81,81,81	0
87	MG	A6	2242	1/1	0.75	0.35	87,87,87,87	0
86	OHX	A2	2087	7/7	0.75	0.16	196,196,196,196	7
87	MG	A6	2133	1/1	0.75	0.26	65,65,65,65	0
87	MG	A4	238	1/1	0.75	0.21	68,68,68,68	0
87	MG	A5	4095	1/1	0.75	0.23	79,79,79,79	0
87	MG	A5	4098	1/1	0.75	0.27	55,55,55,55	0
87	MG	A1	4451	1/1	0.75	0.35	75,75,75,75	0
87	MG	A6	2151	1/1	0.75	0.39	64,64,64,64	0
87	MG	A1	3937	1/1	0.75	0.35	40,40,40,40	0
87	MG	A2	2239	1/1	0.75	0.23	92,92,92,92	0
87	MG	A5	4338	1/1	0.76	0.37	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2114	1/1	0.76	0.37	84,84,84,84	0
87	MG	A5	4086	1/1	0.76	0.18	59,59,59,59	0
87	MG	A6	2206	1/1	0.76	0.15	63,63,63,63	0
87	MG	CS	203	1/1	0.76	0.20	71,71,71,71	0
87	MG	A2	2115	1/1	0.76	0.31	78,78,78,78	0
87	MG	A2	2172	1/1	0.76	0.15	69,69,69,69	0
86	OHX	A1	3788	7/7	0.76	0.17	232,232,232,232	7
87	MG	A1	4197	1/1	0.76	0.22	74,74,74,74	0
87	MG	A5	4397	1/1	0.76	0.14	101,101,101,101	0
87	MG	A2	2181	1/1	0.76	0.19	79,79,79,79	0
86	OHX	A5	3765	7/7	0.76	0.15	201,201,201,201	7
86	OHX	A1	3736	7/7	0.76	0.33	174,174,174,174	7
87	MG	A1	3924	1/1	0.76	0.31	57,57,57,57	0
86	OHX	A5	3780	7/7	0.76	0.18	211,211,211,211	7
86	OHX	A2	2075	7/7	0.76	0.16	204,204,204,204	7
87	MG	A5	4175	1/1	0.76	0.50	114,114,114,114	0
86	OHX	A1	3803	7/7	0.76	0.21	196,196,196,196	7
87	MG	A1	4363	1/1	0.76	0.27	46,46,46,46	0
87	MG	A5	3915	1/1	0.76	0.39	78,78,78,78	0
87	MG	A2	2192	1/1	0.76	0.31	66,66,66,66	0
87	MG	A1	4118	1/1	0.76	0.15	74,74,74,74	0
87	MG	A6	2139	1/1	0.76	0.36	72,72,72,72	0
86	OHX	A2	2050	7/7	0.76	0.18	181,181,181,181	7
87	MG	A6	2293	1/1	0.76	0.22	78,78,78,78	0
87	MG	A1	4507	1/1	0.76	0.34	90,90,90,90	0
87	MG	A1	3972	1/1	0.76	0.34	45,45,45,45	0
87	MG	A6	2154	1/1	0.76	0.34	56,56,56,56	0
86	OHX	A1	3814	7/7	0.76	0.34	221,221,221,221	7
87	MG	A2	2200	1/1	0.76	0.23	88,88,88,88	0
87	MG	A5	4260	1/1	0.76	0.37	80,80,80,80	0
87	MG	A1	4262	1/1	0.76	0.20	70,70,70,70	0
87	MG	A7	220	1/1	0.76	0.20	61,61,61,61	0
87	MG	A6	2173	1/1	0.76	0.23	71,71,71,71	0
87	MG	A5	4291	1/1	0.76	0.20	78,78,78,78	0
87	MG	A1	4275	1/1	0.76	0.13	74,74,74,74	0
87	MG	A1	4021	1/1	0.76	0.35	54,54,54,54	0
87	MG	A1	4284	1/1	0.76	0.41	87,87,87,87	0
87	MG	A1	4035	1/1	0.76	0.19	59,59,59,59	0
87	MG	DC	404	1/1	0.76	0.17	70,70,70,70	0
87	MG	DC	406	1/1	0.76	0.43	111,111,111,111	0
87	MG	DD	305	1/1	0.76	0.23	74,74,74,74	0
87	MG	A6	2328	1/1	0.76	0.37	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	BG	301	1/1	0.76	0.31	91,91,91,91	0
87	MG	A2	2141	1/1	0.76	0.24	68,68,68,68	0
87	MG	A5	4068	1/1	0.76	0.17	72,72,72,72	0
87	MG	A1	4159	1/1	0.76	0.63	84,84,84,84	0
87	MG	A5	4368	1/1	0.77	0.29	75,75,75,75	0
87	MG	A1	4391	1/1	0.77	0.40	89,89,89,89	0
86	OHX	DM	201	7/7	0.77	0.15	208,208,208,208	7
87	MG	A1	4186	1/1	0.77	0.32	75,75,75,75	0
87	MG	A1	4103	1/1	0.77	0.14	74,74,74,74	0
87	MG	A6	2244	1/1	0.77	0.16	97,97,97,97	0
87	MG	A2	2179	1/1	0.77	0.37	81,81,81,81	0
86	OHX	A5	3727	7/7	0.77	0.18	167,167,167,167	7
87	MG	A5	4400	1/1	0.77	0.27	86,86,86,86	0
87	MG	A3	224	1/1	0.77	0.21	62,62,62,62	0
87	MG	A5	4414	1/1	0.77	0.29	101,101,101,101	0
87	MG	A6	2135	1/1	0.77	0.16	58,58,58,58	0
87	MG	A5	4155	1/1	0.77	0.27	95,95,95,95	0
87	MG	A1	4444	1/1	0.77	0.32	81,81,81,81	0
87	MG	A5	4430	1/1	0.77	0.37	95,95,95,95	0
86	OHX	A2	2258	7/7	0.77	0.13	162,162,162,162	7
87	MG	A3	232	1/1	0.77	0.21	95,95,95,95	0
87	MG	A2	2095	1/1	0.77	0.21	63,63,63,63	0
87	MG	A5	4189	1/1	0.77	0.34	96,96,96,96	0
87	MG	A5	4192	1/1	0.77	0.33	95,95,95,95	0
87	MG	A6	2290	1/1	0.77	0.24	82,82,82,82	0
87	MG	A2	2145	1/1	0.77	0.29	71,71,71,71	0
87	MG	A6	2156	1/1	0.77	0.40	62,62,62,62	0
87	MG	A1	3991	1/1	0.77	0.28	52,52,52,52	0
87	MG	A4	231	1/1	0.77	0.17	45,45,45,45	0
87	MG	A6	2169	1/1	0.77	0.25	77,77,77,77	0
86	OHX	A1	3779	7/7	0.77	0.27	164,164,164,164	7
87	MG	A1	4001	1/1	0.77	0.35	50,50,50,50	0
87	MG	A5	3966	1/1	0.77	0.39	56,56,56,56	0
87	MG	A5	4562	1/1	0.77	0.30	69,69,69,69	0
87	MG	A2	2221	1/1	0.77	0.32	83,83,83,83	0
87	MG	A6	2176	1/1	0.77	0.31	67,67,67,67	0
86	OHX	CN	201	7/7	0.77	0.21	174,174,174,174	7
87	MG	BO	209	1/1	0.77	0.31	95,95,95,95	0
87	MG	A5	4007	1/1	0.77	0.35	47,47,47,47	0
87	MG	A7	221	1/1	0.77	0.34	82,82,82,82	0
87	MG	A1	4239	1/1	0.77	0.23	60,60,60,60	0
87	MG	A6	2192	1/1	0.77	0.38	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2167	1/1	0.77	0.47	72,72,72,72	0
87	MG	A1	4252	1/1	0.77	0.39	121,121,121,121	0
86	OHX	A6	2081	7/7	0.77	0.20	201,201,201,201	7
87	MG	CF	302	1/1	0.77	0.27	73,73,73,73	0
87	MG	A5	4333	1/1	0.77	0.20	75,75,75,75	0
87	MG	A2	2170	1/1	0.77	0.33	88,88,88,88	0
87	MG	A1	3817	1/1	0.77	0.21	63,63,63,63	0
86	OHX	DG	301	7/7	0.77	0.31	226,226,226,226	7
87	MG	A1	3831	1/1	0.77	0.27	56,56,56,56	0
87	MG	DV	204	1/1	0.77	0.35	83,83,83,83	0
87	MG	A1	4273	1/1	0.77	0.43	85,85,85,85	0
87	MG	A5	4346	1/1	0.77	0.12	89,89,89,89	0
87	MG	A6	2233	1/1	0.77	0.21	63,63,63,63	0
87	MG	A1	4286	1/1	0.78	0.28	57,57,57,57	0
86	OHX	A6	2074	7/7	0.78	0.32	176,176,176,176	7
87	MG	A5	4347	1/1	0.78	0.19	78,78,78,78	0
87	MG	A5	4351	1/1	0.78	0.28	85,85,85,85	0
87	MG	A6	2203	1/1	0.78	0.14	63,63,63,63	0
87	MG	A5	4361	1/1	0.78	0.37	92,92,92,92	0
87	MG	CP	203	1/1	0.78	0.17	63,63,63,63	0
86	OHX	A1	3741	7/7	0.78	0.23	151,151,151,151	7
86	OHX	A5	3819	7/7	0.78	0.23	238,238,238,238	7
87	MG	A1	4298	1/1	0.78	0.25	95,95,95,95	0
87	MG	A6	2223	1/1	0.78	0.31	75,75,75,75	0
87	MG	A2	2211	1/1	0.78	0.21	94,94,94,94	0
86	OHX	A5	3770	7/7	0.78	0.24	198,198,198,198	7
87	MG	A1	4217	1/1	0.78	0.13	57,57,57,57	0
87	MG	A5	3860	1/1	0.78	0.30	66,66,66,66	0
86	OHX	A5	3792	7/7	0.78	0.43	217,217,217,217	7
87	MG	A1	3965	1/1	0.78	0.48	80,80,80,80	0
87	MG	A5	4418	1/1	0.78	0.36	91,91,91,91	0
87	MG	A5	3887	1/1	0.78	0.36	84,84,84,84	0
87	MG	A5	4153	1/1	0.78	0.29	83,83,83,83	0
87	MG	A2	2140	1/1	0.78	0.26	69,69,69,69	0
87	MG	A5	4172	1/1	0.78	0.25	67,67,67,67	0
87	MG	A1	4223	1/1	0.78	0.30	79,79,79,79	0
87	MG	A6	2245	1/1	0.78	0.20	82,82,82,82	0
87	MG	A5	4455	1/1	0.78	0.23	60,60,60,60	0
87	MG	A2	2169	1/1	0.78	0.20	105,105,105,105	0
87	MG	A1	4110	1/1	0.78	0.12	71,71,71,71	0
87	MG	A1	4228	1/1	0.78	0.24	82,82,82,82	0
87	MG	A5	4491	1/1	0.78	0.23	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2259	1/1	0.78	0.17	63,63,63,63	0
87	MG	A5	4196	1/1	0.78	0.12	66,66,66,66	0
87	MG	A1	4115	1/1	0.78	0.21	62,62,62,62	0
87	MG	A1	3978	1/1	0.78	0.39	73,73,73,73	0
87	MG	A6	2273	1/1	0.78	0.42	90,90,90,90	0
87	MG	A5	4520	1/1	0.78	0.35	81,81,81,81	0
87	MG	A1	3879	1/1	0.78	0.46	89,89,89,89	0
87	MG	A5	4525	1/1	0.78	0.30	66,66,66,66	0
87	MG	A1	3993	1/1	0.78	0.30	52,52,52,52	0
87	MG	A2	2121	1/1	0.78	0.49	61,61,61,61	0
87	MG	A1	4387	1/1	0.78	0.36	89,89,89,89	0
87	MG	AB	302	1/1	0.78	0.07	63,63,63,63	0
87	MG	A5	4231	1/1	0.78	0.34	105,105,105,105	0
87	MG	A5	4249	1/1	0.78	0.41	40,40,40,40	0
87	MG	A1	4141	1/1	0.78	0.19	53,53,53,53	0
87	MG	A6	2299	1/1	0.78	0.24	84,84,84,84	0
87	MG	A2	2157	1/1	0.78	0.30	82,82,82,82	0
87	MG	A5	4265	1/1	0.78	0.36	80,80,80,80	0
87	MG	A1	3907	1/1	0.78	0.23	50,50,50,50	0
87	MG	A5	3989	1/1	0.78	0.48	76,76,76,76	0
86	OHX	A2	2037	7/7	0.78	0.24	197,197,197,197	7
87	MG	A5	4292	1/1	0.78	0.30	113,113,113,113	0
87	MG	A1	4046	1/1	0.78	0.20	50,50,50,50	0
87	MG	A2	2197	1/1	0.78	0.25	80,80,80,80	0
87	MG	A4	242	1/1	0.78	0.19	81,81,81,81	0
87	MG	A4	245	1/1	0.78	0.17	90,90,90,90	0
87	MG	A4	248	1/1	0.78	0.16	114,114,114,114	0
87	MG	A5	4042	1/1	0.78	0.41	75,75,75,75	0
87	MG	A1	4277	1/1	0.78	0.33	89,89,89,89	0
87	MG	DO	207	1/1	0.78	0.40	109,109,109,109	0
87	MG	A5	4054	1/1	0.78	0.45	71,71,71,71	0
87	MG	A1	4171	1/1	0.78	0.28	79,79,79,79	0
87	MG	A2	2176	1/1	0.78	0.35	64,64,64,64	0
87	MG	A1	4458	1/1	0.78	0.27	92,92,92,92	0
87	MG	A6	2163	1/1	0.79	0.36	58,58,58,58	0
87	MG	A1	4352	1/1	0.79	0.28	93,93,93,93	0
87	MG	A5	3923	1/1	0.79	0.18	68,68,68,68	0
87	MG	A3	221	1/1	0.79	0.15	69,69,69,69	0
87	MG	A6	2331	1/1	0.79	0.26	79,79,79,79	0
86	OHX	A2	2084	7/7	0.79	0.13	183,183,183,183	7
87	MG	A6	2335	1/1	0.79	0.22	84,84,84,84	0
87	MG	B1	4500	1/1	0.79	0.23	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A1	4224	1/1	0.79	0.25	72,72,72,72	0
87	MG	A1	3845	1/1	0.79	0.35	70,70,70,70	0
86	OHX	A6	2031	6/7	0.79	0.14	195,195,195,195	6
87	MG	A5	3958	1/1	0.79	0.36	64,64,64,64	0
87	MG	A5	4165	1/1	0.79	0.15	73,73,73,73	0
87	MG	A5	4167	1/1	0.79	0.26	71,71,71,71	0
86	OHX	A5	3763	7/7	0.79	0.29	197,197,197,197	7
87	MG	A5	3979	1/1	0.79	0.41	61,61,61,61	0
87	MG	A1	4229	1/1	0.79	0.28	89,89,89,89	0
87	MG	A5	4530	1/1	0.79	0.46	113,113,113,113	0
87	MG	A5	4540	1/1	0.79	0.25	94,94,94,94	0
87	MG	A6	2277	1/1	0.79	0.22	79,79,79,79	0
87	MG	A1	4162	1/1	0.79	0.33	79,79,79,79	0
87	MG	A1	4011	1/1	0.79	0.22	50,50,50,50	0
87	MG	A6	2125	1/1	0.79	0.15	47,47,47,47	0
87	MG	A5	4194	1/1	0.79	0.42	88,88,88,88	0
87	MG	A5	3838	1/1	0.79	0.31	39,39,39,39	0
86	OHX	A6	2089	7/7	0.79	0.16	212,212,212,212	7
87	MG	A5	4375	1/1	0.79	0.25	65,65,65,65	0
87	MG	A5	4024	1/1	0.79	0.36	42,42,42,42	0
87	MG	A6	2129	1/1	0.79	0.35	66,66,66,66	0
87	MG	A2	2134	1/1	0.79	0.26	74,74,74,74	0
87	MG	A2	2215	1/1	0.79	0.30	86,86,86,86	0
87	MG	Aa	201	1/1	0.79	0.34	82,82,82,82	0
86	OHX	A1	3745	7/7	0.79	0.30	178,178,178,178	7
87	MG	A5	3893	1/1	0.79	0.25	73,73,73,73	0
87	MG	A5	4230	1/1	0.79	0.28	78,78,78,78	0
87	MG	A2	2122	1/1	0.79	0.23	74,74,74,74	0
87	MG	A1	3826	1/1	0.79	0.23	51,51,51,51	0
87	MG	A1	4449	1/1	0.79	0.15	98,98,98,98	0
87	MG	A5	4425	1/1	0.79	0.13	65,65,65,65	0
87	MG	DY	201	1/1	0.79	0.15	59,59,59,59	0
87	MG	A1	3976	1/1	0.79	0.38	66,66,66,66	0
87	MG	A2	2155	1/1	0.79	0.30	86,86,86,86	0
86	OHX	A1	3774	7/7	0.79	0.15	206,206,206,206	7
87	MG	A1	3918	1/1	0.80	0.27	83,83,83,83	0
87	MG	A5	4331	1/1	0.80	0.30	104,104,104,104	0
87	MG	A1	4249	1/1	0.80	0.21	73,73,73,73	0
87	MG	AS	201	1/1	0.80	0.14	105,105,105,105	0
87	MG	A6	2122	1/1	0.80	0.30	55,55,55,55	0
87	MG	A5	4021	1/1	0.80	0.23	35,35,35,35	0
87	MG	A1	4461	1/1	0.80	0.13	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	A2	2232	1/1	0.80	0.26	125,125,125,125	0
87	MG	A2	2206	1/1	0.80	0.20	78,78,78,78	0
87	MG	A5	4040	1/1	0.80	0.16	46,46,46,46	0
87	MG	A5	4348	1/1	0.80	0.16	58,58,58,58	0
87	MG	A1	4259	1/1	0.80	0.19	102,102,102,102	0
87	MG	A2	2207	1/1	0.80	0.19	76,76,76,76	0
87	MG	A1	4111	1/1	0.80	0.26	65,65,65,65	0
87	MG	A6	2136	1/1	0.80	0.27	48,48,48,48	0
87	MG	A2	2237	1/1	0.80	0.30	90,90,90,90	0
87	MG	A1	3932	1/1	0.80	0.26	30,30,30,30	0
86	OHX	A2	2080	7/7	0.80	0.13	191,191,191,191	7
87	MG	A1	3936	1/1	0.80	0.34	34,34,34,34	0
87	MG	A1	4483	1/1	0.80	0.12	72,72,72,72	0
87	MG	A5	4383	1/1	0.80	0.30	69,69,69,69	0
86	OHX	A1	3797	7/7	0.80	0.14	171,171,171,171	7
87	MG	A5	4392	1/1	0.80	0.20	64,64,64,64	0
87	MG	A2	2162	1/1	0.80	0.53	84,84,84,84	0
87	MG	A1	4136	1/1	0.80	0.25	53,53,53,53	0
87	MG	A6	2338	1/1	0.80	0.12	80,80,80,80	0
86	OHX	A1	3750	7/7	0.80	0.33	118,118,118,118	7
86	OHX	A2	2062	7/7	0.80	0.25	196,196,196,196	7
87	MG	A5	4126	1/1	0.80	0.17	100,100,100,100	0
86	OHX	A6	2068	7/7	0.80	0.29	217,217,217,217	7
87	MG	A1	3854	1/1	0.80	0.23	57,57,57,57	0
87	MG	A1	3857	1/1	0.80	0.24	53,53,53,53	0
87	MG	A1	4154	1/1	0.80	0.22	91,91,91,91	0
87	MG	A2	2254	1/1	0.80	0.17	61,61,61,61	0
87	MG	A1	3980	1/1	0.80	0.24	38,38,38,38	0
87	MG	A1	4317	1/1	0.80	0.22	92,92,92,92	0
87	MG	A1	4161	1/1	0.80	0.17	73,73,73,73	0
87	MG	A5	4478	1/1	0.80	0.28	81,81,81,81	0
87	MG	A1	4326	1/1	0.80	0.40	80,80,80,80	0
87	MG	A5	3852	1/1	0.80	0.22	49,49,49,49	0
87	MG	A1	3984	1/1	0.80	0.33	51,51,51,51	0
87	MG	A2	2189	1/1	0.80	0.26	55,55,55,55	0
87	MG	A1	3866	1/1	0.80	0.16	87,87,87,87	0
86	OHX	A6	2069	7/7	0.80	0.17	206,206,206,206	7
87	MG	A1	3995	1/1	0.80	0.28	63,63,63,63	0
87	MG	A5	4506	1/1	0.80	0.31	80,80,80,80	0
87	MG	A5	4510	1/1	0.80	0.32	86,86,86,86	0
87	MG	A5	4187	1/1	0.80	0.22	78,78,78,78	0
87	MG	A5	4517	1/1	0.80	0.33	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4188	1/1	0.80	0.29	78,78,78,78	0
87	MG	A5	3889	1/1	0.80	0.47	86,86,86,86	0
87	MG	A5	4522	1/1	0.80	0.19	73,73,73,73	0
87	MG	A6	2209	1/1	0.80	0.28	79,79,79,79	0
87	MG	A4	230	1/1	0.80	0.28	71,71,71,71	0
87	MG	A1	3875	1/1	0.80	0.26	60,60,60,60	0
87	MG	A4	234	1/1	0.80	0.25	74,74,74,74	0
87	MG	A1	3878	1/1	0.80	0.32	45,45,45,45	0
87	MG	A1	4019	1/1	0.80	0.38	42,42,42,42	0
87	MG	A5	4208	1/1	0.80	0.22	75,75,75,75	0
87	MG	A5	4561	1/1	0.80	0.25	111,111,111,111	0
86	OHX	A5	3753	7/7	0.80	0.13	207,207,207,207	7
86	OHX	A1	3792	7/7	0.80	0.32	213,213,213,213	7
86	OHX	A6	2080	7/7	0.80	0.22	167,167,167,167	7
87	MG	A5	4574	1/1	0.80	0.33	74,74,74,74	0
87	MG	A5	4575	1/1	0.80	0.16	68,68,68,68	0
87	MG	A1	4039	1/1	0.80	0.37	65,65,65,65	0
87	MG	A5	4227	1/1	0.80	0.24	46,46,46,46	0
87	MG	A1	4374	1/1	0.80	0.35	60,60,60,60	0
87	MG	A5	3926	1/1	0.80	0.32	53,53,53,53	0
87	MG	A1	4041	1/1	0.80	0.34	70,70,70,70	0
87	MG	A1	3889	1/1	0.80	0.31	74,74,74,74	0
87	MG	A1	3894	1/1	0.80	0.29	43,43,43,43	0
87	MG	A5	4253	1/1	0.80	0.19	75,75,75,75	0
87	MG	A8	235	1/1	0.80	0.23	79,79,79,79	0
87	MG	A1	3896	1/1	0.80	0.21	40,40,40,40	0
87	MG	A1	3898	1/1	0.80	0.20	64,64,64,64	0
87	MG	A1	4068	1/1	0.80	0.33	78,78,78,78	0
87	MG	AI	302	1/1	0.80	0.21	66,66,66,66	0
87	MG	A5	3951	1/1	0.80	0.28	40,40,40,40	0
87	MG	A5	3955	1/1	0.80	0.40	62,62,62,62	0
87	MG	A1	4437	1/1	0.80	0.20	60,60,60,60	0
87	MG	A1	4442	1/1	0.80	0.35	91,91,91,91	0
87	MG	DQ	202	1/1	0.80	0.23	88,88,88,88	0
87	MG	A5	3977	1/1	0.80	0.41	69,69,69,69	0
86	OHX	A2	2083	7/7	0.80	0.30	185,185,185,185	7
87	MG	De	202	1/1	0.80	0.28	52,52,52,52	0
86	OHX	A6	2082	7/7	0.80	0.38	180,180,180,180	7
87	MG	A5	4322	1/1	0.80	0.29	61,61,61,61	0
87	MG	A1	3914	1/1	0.80	0.30	73,73,73,73	0
87	MG	A1	4037	1/1	0.81	0.31	83,83,83,83	0
87	MG	A5	4109	1/1	0.81	0.35	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2188	1/1	0.81	0.27	82,82,82,82	0
87	MG	A1	3824	1/1	0.81	0.18	65,65,65,65	0
86	OHX	A6	2090	7/7	0.81	0.26	212,212,212,212	7
87	MG	A5	4135	1/1	0.81	0.18	73,73,73,73	0
86	OHX	A6	2058	7/7	0.81	0.14	196,196,196,196	7
87	MG	A6	2220	1/1	0.81	0.15	91,91,91,91	0
87	MG	BV	202	1/1	0.81	0.17	73,73,73,73	0
87	MG	A2	2160	1/1	0.81	0.12	66,66,66,66	0
87	MG	A1	4293	1/1	0.81	0.30	110,110,110,110	0
87	MG	A5	4151	1/1	0.81	0.14	64,64,64,64	0
87	MG	A2	2132	1/1	0.81	0.24	77,77,77,77	0
87	MG	A2	2133	1/1	0.81	0.23	72,72,72,72	0
87	MG	A1	3928	1/1	0.81	0.44	88,88,88,88	0
87	MG	A5	3902	1/1	0.81	0.18	31,31,31,31	0
87	MG	A5	4169	1/1	0.81	0.46	90,90,90,90	0
87	MG	A1	4196	1/1	0.81	0.23	71,71,71,71	0
87	MG	A1	4303	1/1	0.81	0.28	105,105,105,105	0
87	MG	A5	4427	1/1	0.81	0.30	102,102,102,102	0
86	OHX	A1	3809	7/7	0.81	0.14	192,192,192,192	7
87	MG	A5	4179	1/1	0.81	0.29	71,71,71,71	0
87	MG	A6	2105	1/1	0.81	0.20	78,78,78,78	0
87	MG	A2	2199	1/1	0.81	0.25	72,72,72,72	0
86	OHX	A5	3798	7/7	0.81	0.28	202,202,202,202	7
87	MG	A5	4476	1/1	0.81	0.19	86,86,86,86	0
87	MG	A1	4102	1/1	0.81	0.17	61,61,61,61	0
87	MG	A2	2205	1/1	0.81	0.28	83,83,83,83	0
87	MG	A6	2255	1/1	0.81	0.32	81,81,81,81	0
87	MG	A1	3952	1/1	0.81	0.41	89,89,89,89	0
87	MG	A6	2261	1/1	0.81	0.37	76,76,76,76	0
87	MG	A6	2127	1/1	0.81	0.32	41,41,41,41	0
87	MG	A1	4490	1/1	0.81	0.31	77,77,77,77	0
86	OHX	A5	3810	7/7	0.81	0.33	199,199,199,199	7
87	MG	A5	4503	1/1	0.81	0.20	72,72,72,72	0
87	MG	A6	2130	1/1	0.81	0.29	74,74,74,74	0
87	MG	A2	2105	1/1	0.81	0.32	55,55,55,55	0
87	MG	A5	4212	1/1	0.81	0.21	73,73,73,73	0
86	OHX	A2	2070	7/7	0.81	0.19	202,202,202,202	7
86	OHX	A5	3816	7/7	0.81	0.15	195,195,195,195	7
87	MG	A1	3873	1/1	0.81	0.34	62,62,62,62	0
87	MG	A6	2137	1/1	0.81	0.40	71,71,71,71	0
87	MG	A2	2256	1/1	0.81	0.24	80,80,80,80	0
87	MG	A5	3971	1/1	0.81	0.30	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A1	3759	7/7	0.81	0.28	149,149,149,149	7
87	MG	A5	4235	1/1	0.81	0.34	75,75,75,75	0
87	MG	A5	4241	1/1	0.81	0.38	106,106,106,106	0
87	MG	A5	4243	1/1	0.81	0.24	45,45,45,45	0
87	MG	A5	4246	1/1	0.81	0.30	38,38,38,38	0
87	MG	A5	4543	1/1	0.81	0.14	78,78,78,78	0
86	OHX	A2	2076	7/7	0.81	0.17	185,185,185,185	7
87	MG	A5	3985	1/1	0.81	0.39	51,51,51,51	0
86	OHX	A1	3664	7/7	0.81	0.14	207,207,207,207	7
87	MG	A6	2309	1/1	0.81	0.36	105,105,105,105	0
87	MG	A1	4242	1/1	0.81	0.18	84,84,84,84	0
87	MG	A6	2155	1/1	0.81	0.28	41,41,41,41	0
87	MG	A1	4369	1/1	0.81	0.18	85,85,85,85	0
87	MG	A1	3987	1/1	0.81	0.10	57,57,57,57	0
87	MG	A1	4126	1/1	0.81	0.28	84,84,84,84	0
86	OHX	A1	3725	7/7	0.81	0.18	191,191,191,191	7
87	MG	A7	232	1/1	0.81	0.24	91,91,91,91	0
86	OHX	A1	3726	7/7	0.81	0.21	178,178,178,178	7
87	MG	A1	4395	1/1	0.81	0.26	97,97,97,97	0
87	MG	A5	4311	1/1	0.81	0.21	78,78,78,78	0
87	MG	A6	2172	1/1	0.81	0.33	66,66,66,66	0
87	MG	A8	231	1/1	0.81	0.15	71,71,71,71	0
87	MG	A8	234	1/1	0.81	0.14	64,64,64,64	0
87	MG	A2	2152	1/1	0.81	0.20	88,88,88,88	0
87	MG	A2	2217	1/1	0.81	0.24	117,117,117,117	0
87	MG	A5	4053	1/1	0.81	0.26	65,65,65,65	0
87	MG	A1	3897	1/1	0.81	0.23	75,75,75,75	0
87	MG	A6	2181	1/1	0.81	0.27	77,77,77,77	0
86	OHX	A6	2088	7/7	0.81	0.18	160,160,160,160	7
87	MG	A5	4062	1/1	0.81	0.20	37,37,37,37	0
87	MG	A5	4067	1/1	0.81	0.21	61,61,61,61	0
87	MG	CG	304	1/1	0.81	0.32	72,72,72,72	0
87	MG	DP	202	1/1	0.81	0.25	56,56,56,56	0
87	MG	A6	2187	1/1	0.81	0.25	64,64,64,64	0
87	MG	A1	4432	1/1	0.81	0.28	79,79,79,79	0
87	MG	AS	202	1/1	0.81	0.12	63,63,63,63	0
87	MG	A1	4268	1/1	0.81	0.27	65,65,65,65	0
87	MG	Do	202	1/1	0.81	0.18	50,50,50,50	0
86	OHX	A6	2056	7/7	0.81	0.14	178,178,178,178	7
87	MG	A2	2092	1/1	0.81	0.37	69,69,69,69	0
88	ZN	Ab	101	1/1	0.81	0.09	327,327,327,327	0
87	MG	A1	4447	1/1	0.81	0.30	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4164	1/1	0.82	0.07	87,87,87,87	0
86	OHX	A6	2075	7/7	0.82	0.16	194,194,194,194	7
86	OHX	A5	3733	7/7	0.82	0.24	162,162,162,162	7
87	MG	A1	4101	1/1	0.82	0.37	86,86,86,86	0
86	OHX	A5	3735	7/7	0.82	0.23	149,149,149,149	7
87	MG	A1	4383	1/1	0.82	0.11	62,62,62,62	0
86	OHX	A5	3748	7/7	0.82	0.29	183,183,183,183	7
87	MG	A1	4276	1/1	0.82	0.28	95,95,95,95	0
87	MG	A5	4181	1/1	0.82	0.35	80,80,80,80	0
87	MG	A1	3836	1/1	0.82	0.29	48,48,48,48	0
86	OHX	A2	2060	7/7	0.82	0.29	168,168,168,168	7
87	MG	A1	4401	1/1	0.82	0.33	69,69,69,69	0
86	OHX	AC	301	7/7	0.82	0.29	213,213,213,213	7
87	MG	A4	217	1/1	0.82	0.29	69,69,69,69	0
87	MG	A6	2144	1/1	0.82	0.29	51,51,51,51	0
87	MG	A5	4444	1/1	0.82	0.18	66,66,66,66	0
86	OHX	A1	3604	7/7	0.82	0.12	254,254,254,254	7
87	MG	A6	2147	1/1	0.82	0.26	44,44,44,44	0
87	MG	A5	4464	1/1	0.82	0.20	85,85,85,85	0
87	MG	A5	4473	1/1	0.82	0.38	94,94,94,94	0
87	MG	A5	4474	1/1	0.82	0.22	44,44,44,44	0
87	MG	A5	4198	1/1	0.82	0.23	58,58,58,58	0
86	OHX	DJ	201	7/7	0.82	0.13	185,185,185,185	7
86	OHX	A6	2044	7/7	0.82	0.17	178,178,178,178	7
86	OHX	DR	201	7/7	0.82	0.16	171,171,171,171	7
86	OHX	A1	3744	7/7	0.82	0.23	205,205,205,205	7
86	OHX	A2	2069	7/7	0.82	0.22	191,191,191,191	7
86	OHX	A2	2085	7/7	0.82	0.36	200,200,200,200	7
87	MG	A5	4497	1/1	0.82	0.19	76,76,76,76	0
87	MG	A6	2165	1/1	0.82	0.37	51,51,51,51	0
86	OHX	A2	2047	7/7	0.82	0.23	188,188,188,188	7
87	MG	AI	303	1/1	0.82	0.18	73,73,73,73	0
86	OHX	CB	301	7/7	0.82	0.20	162,162,162,162	7
87	MG	A5	3998	1/1	0.82	0.38	41,41,41,41	0
87	MG	A5	4229	1/1	0.82	0.25	81,81,81,81	0
87	MG	A1	3876	1/1	0.82	0.34	68,68,68,68	0
87	MG	A6	2327	1/1	0.82	0.39	108,108,108,108	0
87	MG	A5	4232	1/1	0.82	0.23	53,53,53,53	0
87	MG	A5	4014	1/1	0.82	0.29	54,54,54,54	0
87	MG	BB	403	1/1	0.82	0.17	53,53,53,53	0
87	MG	BC	406	1/1	0.82	0.16	61,61,61,61	0
87	MG	A6	2332	1/1	0.82	0.19	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	BD	302	1/1	0.82	0.28	79,79,79,79	0
87	MG	A5	4039	1/1	0.82	0.32	63,63,63,63	0
87	MG	A1	4043	1/1	0.82	0.29	62,62,62,62	0
87	MG	A1	4233	1/1	0.82	0.26	79,79,79,79	0
87	MG	A1	4324	1/1	0.82	0.28	79,79,79,79	0
87	MG	A5	4549	1/1	0.82	0.19	70,70,70,70	0
87	MG	A5	4556	1/1	0.82	0.22	73,73,73,73	0
87	MG	A5	4050	1/1	0.82	0.13	39,39,39,39	0
87	MG	CE	301	1/1	0.82	0.17	57,57,57,57	0
87	MG	BP	207	1/1	0.82	0.33	65,65,65,65	0
87	MG	A1	4463	1/1	0.82	0.24	76,76,76,76	0
86	OHX	A5	3796	7/7	0.82	0.21	176,176,176,176	7
87	MG	BQ	202	1/1	0.82	0.35	80,80,80,80	0
87	MG	A5	4577	1/1	0.82	0.12	76,76,76,76	0
86	OHX	BB	402	7/7	0.82	0.17	173,173,173,173	7
87	MG	A1	4329	1/1	0.82	0.33	85,85,85,85	0
87	MG	A5	4312	1/1	0.82	0.19	87,87,87,87	0
87	MG	BV	205	1/1	0.82	0.19	68,68,68,68	0
87	MG	Ba	207	1/1	0.82	0.28	89,89,89,89	0
87	MG	Bg	201	1/1	0.82	0.19	63,63,63,63	0
87	MG	A1	4334	1/1	0.82	0.22	104,104,104,104	0
87	MG	A5	4327	1/1	0.82	0.29	94,94,94,94	0
87	MG	A5	4090	1/1	0.82	0.28	45,45,45,45	0
87	MG	A1	4336	1/1	0.82	0.24	80,80,80,80	0
87	MG	A8	232	1/1	0.82	0.16	43,43,43,43	0
87	MG	A8	233	1/1	0.82	0.32	78,78,78,78	0
87	MG	A5	4332	1/1	0.82	0.13	73,73,73,73	0
87	MG	A5	4096	1/1	0.82	0.31	72,72,72,72	0
87	MG	A6	2218	1/1	0.82	0.12	53,53,53,53	0
87	MG	DB	411	1/1	0.82	0.42	61,61,61,61	0
86	OHX	BI	302	7/7	0.82	0.24	177,177,177,177	7
87	MG	A1	4052	1/1	0.82	0.26	71,71,71,71	0
87	MG	A5	3867	1/1	0.82	0.22	27,27,27,27	0
87	MG	A5	4115	1/1	0.82	0.27	69,69,69,69	0
87	MG	A1	4343	1/1	0.82	0.21	78,78,78,78	0
87	MG	Bo	204	1/1	0.82	0.10	76,76,76,76	0
87	MG	A2	2143	1/1	0.82	0.26	82,82,82,82	0
87	MG	A1	4347	1/1	0.82	0.44	86,86,86,86	0
87	MG	A1	4060	1/1	0.82	0.21	67,67,67,67	0
87	MG	DR	202	1/1	0.82	0.47	67,67,67,67	0
87	MG	A2	2106	1/1	0.82	0.33	57,57,57,57	0
87	MG	A6	2240	1/1	0.82	0.45	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2238	1/1	0.82	0.28	92,92,92,92	0
87	MG	A1	4257	1/1	0.82	0.20	88,88,88,88	0
87	MG	A5	4148	1/1	0.82	0.50	75,75,75,75	0
87	MG	A6	2120	1/1	0.82	0.37	51,51,51,51	0
87	MG	A1	4086	1/1	0.82	0.28	58,58,58,58	0
87	MG	A1	4168	1/1	0.82	0.14	44,44,44,44	0
87	MG	A1	4178	1/1	0.83	0.11	70,70,70,70	0
87	MG	A6	2216	1/1	0.83	0.10	64,64,64,64	0
87	MG	A5	3883	1/1	0.83	0.21	36,36,36,36	0
87	MG	A5	4386	1/1	0.83	0.20	65,65,65,65	0
87	MG	A5	4142	1/1	0.83	0.25	91,91,91,91	0
86	OHX	A6	2077	7/7	0.83	0.17	197,197,197,197	7
86	OHX	A6	2078	7/7	0.83	0.24	185,185,185,185	7
87	MG	Ba	208	1/1	0.83	0.24	68,68,68,68	0
87	MG	A5	3890	1/1	0.83	0.32	82,82,82,82	0
87	MG	A5	4406	1/1	0.83	0.30	75,75,75,75	0
87	MG	Be	201	1/1	0.83	0.21	88,88,88,88	0
87	MG	A1	4071	1/1	0.83	0.20	71,71,71,71	0
87	MG	A5	3898	1/1	0.83	0.16	44,44,44,44	0
87	MG	A1	4464	1/1	0.83	0.15	63,63,63,63	0
87	MG	A1	4192	1/1	0.83	0.46	86,86,86,86	0
87	MG	A1	4467	1/1	0.83	0.15	68,68,68,68	0
87	MG	A1	4075	1/1	0.83	0.17	62,62,62,62	0
86	OHX	A1	3702	7/7	0.83	0.14	141,141,141,141	7
87	MG	A1	4084	1/1	0.83	0.14	67,67,67,67	0
87	MG	A1	4198	1/1	0.83	0.12	79,79,79,79	0
87	MG	A5	4434	1/1	0.83	0.23	72,72,72,72	0
87	MG	A5	4440	1/1	0.83	0.38	76,76,76,76	0
87	MG	A1	4205	1/1	0.83	0.13	63,63,63,63	0
87	MG	A5	4450	1/1	0.83	0.38	73,73,73,73	0
87	MG	A1	4207	1/1	0.83	0.15	85,85,85,85	0
87	MG	A6	2247	1/1	0.83	0.23	88,88,88,88	0
87	MG	A1	4213	1/1	0.83	0.44	79,79,79,79	0
87	MG	A6	2110	1/1	0.83	0.32	65,65,65,65	0
87	MG	A1	4215	1/1	0.83	0.25	65,65,65,65	0
87	MG	A5	4191	1/1	0.83	0.29	99,99,99,99	0
86	OHX	A5	3698	7/7	0.83	0.23	173,173,173,173	7
87	MG	A6	2118	1/1	0.83	0.22	57,57,57,57	0
87	MG	A5	4480	1/1	0.83	0.23	76,76,76,76	0
87	MG	A5	4482	1/1	0.83	0.25	79,79,79,79	0
87	MG	A5	4485	1/1	0.83	0.24	77,77,77,77	0
87	MG	A1	4486	1/1	0.83	0.16	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3787	7/7	0.83	0.15	195,195,195,195	7
86	OHX	A5	3789	7/7	0.83	0.27	165,165,165,165	7
86	OHX	A1	3732	7/7	0.83	0.19	166,166,166,166	7
87	MG	A5	4495	1/1	0.83	0.31	88,88,88,88	0
87	MG	A5	3954	1/1	0.83	0.37	46,46,46,46	0
87	MG	A6	2282	1/1	0.83	0.13	83,83,83,83	0
86	OHX	A5	3794	7/7	0.83	0.16	179,179,179,179	7
87	MG	A5	3960	1/1	0.83	0.32	49,49,49,49	0
87	MG	A1	4339	1/1	0.83	0.31	97,97,97,97	0
87	MG	A2	2249	1/1	0.83	0.30	85,85,85,85	0
87	MG	A1	3901	1/1	0.83	0.39	74,74,74,74	0
87	MG	A5	4226	1/1	0.83	0.39	76,76,76,76	0
87	MG	A1	3989	1/1	0.83	0.27	42,42,42,42	0
87	MG	A5	3982	1/1	0.83	0.27	52,52,52,52	0
87	MG	A2	2184	1/1	0.83	0.24	109,109,109,109	0
86	OHX	A2	2081	7/7	0.83	0.14	199,199,199,199	7
87	MG	A1	3842	1/1	0.83	0.56	77,77,77,77	0
86	OHX	A2	2040	7/7	0.83	0.15	171,171,171,171	7
87	MG	A6	2138	1/1	0.83	0.26	94,94,94,94	0
86	OHX	A1	3799	7/7	0.83	0.18	165,165,165,165	7
86	OHX	A1	3784	7/7	0.83	0.22	169,169,169,169	7
87	MG	A5	4536	1/1	0.83	0.34	73,73,73,73	0
87	MG	A1	4014	1/1	0.83	0.36	56,56,56,56	0
87	MG	A5	4247	1/1	0.83	0.14	64,64,64,64	0
87	MG	A1	4015	1/1	0.83	0.40	63,63,63,63	0
87	MG	A5	4552	1/1	0.83	0.28	84,84,84,84	0
87	MG	A1	4016	1/1	0.83	0.30	40,40,40,40	0
87	MG	A6	2320	1/1	0.83	0.29	117,117,117,117	0
87	MG	A2	2257	1/1	0.83	0.21	75,75,75,75	0
87	MG	A1	4250	1/1	0.83	0.11	56,56,56,56	0
87	MG	A5	4263	1/1	0.83	0.16	72,72,72,72	0
87	MG	A1	4376	1/1	0.83	0.18	71,71,71,71	0
87	MG	A1	4133	1/1	0.83	0.28	91,91,91,91	0
87	MG	A2	2218	1/1	0.83	0.19	63,63,63,63	0
87	MG	A5	4289	1/1	0.83	0.35	112,112,112,112	0
87	MG	A6	2330	1/1	0.83	0.32	80,80,80,80	0
87	MG	A5	4048	1/1	0.83	0.12	34,34,34,34	0
87	MG	A1	4030	1/1	0.83	0.17	37,37,37,37	0
87	MG	A7	228	1/1	0.83	0.21	85,85,85,85	0
86	OHX	A5	3813	7/7	0.83	0.15	191,191,191,191	7
87	MG	A7	233	1/1	0.83	0.12	60,60,60,60	0
86	OHX	A5	3815	7/7	0.83	0.25	221,221,221,221	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3760	7/7	0.83	0.12	202,202,202,202	7
87	MG	A1	3930	1/1	0.83	0.26	38,38,38,38	0
86	OHX	A1	3806	7/7	0.83	0.18	198,198,198,198	7
86	OHX	A1	3754	7/7	0.83	0.23	159,159,159,159	7
86	OHX	A6	2097	7/7	0.83	0.23	181,181,181,181	7
87	MG	BB	404	1/1	0.83	0.21	57,57,57,57	0
87	MG	CL	203	1/1	0.83	0.21	61,61,61,61	0
87	MG	A5	4330	1/1	0.83	0.23	86,86,86,86	0
87	MG	DA	301	1/1	0.83	0.31	86,86,86,86	0
87	MG	A5	4084	1/1	0.83	0.37	112,112,112,112	0
87	MG	DB	407	1/1	0.83	0.28	72,72,72,72	0
87	MG	A1	4274	1/1	0.83	0.34	87,87,87,87	0
87	MG	A1	4156	1/1	0.83	0.31	75,75,75,75	0
87	MG	BF	4102	1/1	0.83	0.28	76,76,76,76	0
87	MG	A2	2233	1/1	0.83	0.18	80,80,80,80	0
87	MG	BI	305	1/1	0.83	0.29	84,84,84,84	0
87	MG	A1	3944	1/1	0.83	0.40	45,45,45,45	0
87	MG	A1	3877	1/1	0.83	0.31	34,34,34,34	0
87	MG	DM	203	1/1	0.83	0.21	94,94,94,94	0
87	MG	A1	4448	1/1	0.83	0.21	66,66,66,66	0
87	MG	A5	3835	1/1	0.83	0.31	49,49,49,49	0
87	MG	A5	4113	1/1	0.83	0.18	39,39,39,39	0
87	MG	A5	4114	1/1	0.83	0.15	38,38,38,38	0
87	MG	A5	4355	1/1	0.83	0.23	66,66,66,66	0
87	MG	A1	4057	1/1	0.83	0.27	63,63,63,63	0
87	MG	A1	4058	1/1	0.83	0.39	97,97,97,97	0
87	MG	De	203	1/1	0.83	0.31	109,109,109,109	0
87	MG	A1	3956	1/1	0.83	0.29	45,45,45,45	0
87	MG	A5	4370	1/1	0.83	0.37	59,59,59,59	0
87	MG	A5	4128	1/1	0.83	0.21	66,66,66,66	0
87	MG	BR	202	1/1	0.83	0.17	58,58,58,58	0
87	MG	A1	4455	1/1	0.83	0.14	79,79,79,79	0
87	MG	A3	222	1/1	0.84	0.12	66,66,66,66	0
87	MG	A6	2263	1/1	0.84	0.21	89,89,89,89	0
87	MG	A5	4178	1/1	0.84	0.19	83,83,83,83	0
87	MG	A5	4424	1/1	0.84	0.23	86,86,86,86	0
86	OHX	A5	3734	7/7	0.84	0.38	208,208,208,208	7
87	MG	A3	228	1/1	0.84	0.22	81,81,81,81	0
87	MG	A6	2132	1/1	0.84	0.29	81,81,81,81	0
87	MG	A6	2280	1/1	0.84	0.37	79,79,79,79	0
87	MG	A5	3936	1/1	0.84	0.56	62,62,62,62	0
87	MG	A1	4241	1/1	0.84	0.26	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3761	7/7	0.84	0.16	173,173,173,173	7
87	MG	A5	4441	1/1	0.84	0.10	61,61,61,61	0
86	OHX	A6	2091	7/7	0.84	0.26	165,165,165,165	7
86	OHX	A6	2094	7/7	0.84	0.21	180,180,180,180	7
87	MG	A5	4193	1/1	0.84	0.15	43,43,43,43	0
87	MG	A1	3921	1/1	0.84	0.36	87,87,87,87	0
87	MG	A2	2130	1/1	0.84	0.18	56,56,56,56	0
87	MG	A1	4253	1/1	0.84	0.27	110,110,110,110	0
87	MG	A1	4390	1/1	0.84	0.31	82,82,82,82	0
87	MG	A1	3923	1/1	0.84	0.21	44,44,44,44	0
87	MG	A1	4143	1/1	0.84	0.29	70,70,70,70	0
86	OHX	A5	3756	7/7	0.84	0.28	158,158,158,158	7
87	MG	A1	4149	1/1	0.84	0.14	74,74,74,74	0
87	MG	A2	2201	1/1	0.84	0.18	96,96,96,96	0
87	MG	A2	2246	1/1	0.84	0.24	100,100,100,100	0
87	MG	A4	249	1/1	0.84	0.26	75,75,75,75	0
87	MG	A5	4487	1/1	0.84	0.27	76,76,76,76	0
87	MG	A5	4488	1/1	0.84	0.28	81,81,81,81	0
87	MG	A5	4218	1/1	0.84	0.16	57,57,57,57	0
87	MG	A6	2158	1/1	0.84	0.40	66,66,66,66	0
87	MG	A5	3994	1/1	0.84	0.29	39,39,39,39	0
86	OHX	A5	3799	7/7	0.84	0.31	168,168,168,168	7
87	MG	A1	4264	1/1	0.84	0.16	65,65,65,65	0
87	MG	A6	2166	1/1	0.84	0.35	64,64,64,64	0
87	MG	A6	2325	1/1	0.84	0.25	106,106,106,106	0
86	OHX	A2	2027	7/7	0.84	0.23	166,166,166,166	7
87	MG	A2	2135	1/1	0.84	0.13	54,54,54,54	0
86	OHX	A1	3798	7/7	0.84	0.35	226,226,226,226	7
87	MG	A2	2102	1/1	0.84	0.38	60,60,60,60	0
86	OHX	A1	3813	7/7	0.84	0.14	201,201,201,201	7
87	MG	A1	4164	1/1	0.84	0.18	78,78,78,78	0
87	MG	A1	3945	1/1	0.84	0.33	50,50,50,50	0
87	MG	A1	3871	1/1	0.84	0.31	48,48,48,48	0
87	MG	A1	4285	1/1	0.84	0.20	64,64,64,64	0
87	MG	A5	4045	1/1	0.84	0.30	63,63,63,63	0
87	MG	A6	2183	1/1	0.84	0.35	64,64,64,64	0
87	MG	A5	4256	1/1	0.84	0.32	81,81,81,81	0
87	MG	A1	3953	1/1	0.84	0.30	43,43,43,43	0
87	MG	A2	2171	1/1	0.84	0.33	89,89,89,89	0
87	MG	A1	4063	1/1	0.84	0.28	73,73,73,73	0
86	OHX	A5	3768	7/7	0.84	0.28	198,198,198,198	7
87	MG	BS	202	1/1	0.84	0.27	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4058	1/1	0.84	0.18	59,59,59,59	0
87	MG	A5	4290	1/1	0.84	0.17	47,47,47,47	0
87	MG	A1	4188	1/1	0.84	0.20	82,82,82,82	0
87	MG	A1	4069	1/1	0.84	0.22	69,69,69,69	0
87	MG	BV	203	1/1	0.84	0.26	63,63,63,63	0
87	MG	A5	4073	1/1	0.84	0.26	66,66,66,66	0
86	OHX	CG	302	7/7	0.84	0.12	197,197,197,197	7
87	MG	A5	4572	1/1	0.84	0.37	77,77,77,77	0
87	MG	A6	2204	1/1	0.84	0.18	70,70,70,70	0
87	MG	A5	4315	1/1	0.84	0.27	106,106,106,106	0
87	MG	A5	4082	1/1	0.84	0.26	46,46,46,46	0
87	MG	A1	4072	1/1	0.84	0.23	73,73,73,73	0
86	OHX	A5	3772	7/7	0.84	0.27	137,137,137,137	7
87	MG	A1	4308	1/1	0.84	0.34	59,59,59,59	0
87	MG	A6	2213	1/1	0.84	0.16	65,65,65,65	0
87	MG	A5	3840	1/1	0.84	0.14	26,26,26,26	0
87	MG	A6	2214	1/1	0.84	0.24	53,53,53,53	0
87	MG	A2	2112	1/1	0.84	0.72	95,95,95,95	0
87	MG	A1	4079	1/1	0.84	0.36	75,75,75,75	0
87	MG	A7	236	1/1	0.84	0.20	102,102,102,102	0
86	OHX	AP	201	7/7	0.84	0.12	196,196,196,196	7
87	MG	A8	226	1/1	0.84	0.27	62,62,62,62	0
87	MG	A5	4103	1/1	0.84	0.29	74,74,74,74	0
87	MG	A1	3882	1/1	0.84	0.33	47,47,47,47	0
86	OHX	A6	2084	7/7	0.84	0.15	196,196,196,196	7
87	MG	A5	3882	1/1	0.84	0.12	74,74,74,74	0
87	MG	A1	4088	1/1	0.84	0.20	90,90,90,90	0
86	OHX	A7	213	7/7	0.84	0.18	181,181,181,181	7
87	MG	A6	2235	1/1	0.84	0.40	77,77,77,77	0
86	OHX	A8	217	7/7	0.84	0.22	169,169,169,169	7
87	MG	A2	2224	1/1	0.84	0.21	77,77,77,77	0
87	MG	A5	4132	1/1	0.84	0.36	66,66,66,66	0
87	MG	A5	4134	1/1	0.84	0.33	84,84,84,84	0
87	MG	A5	4360	1/1	0.84	0.32	85,85,85,85	0
87	MG	A2	2225	1/1	0.84	0.37	79,79,79,79	0
87	MG	A5	4365	1/1	0.84	0.28	80,80,80,80	0
87	MG	A1	3990	1/1	0.84	0.43	54,54,54,54	0
86	OHX	A6	2073	7/7	0.84	0.21	186,186,186,186	7
87	MG	A1	3992	1/1	0.84	0.30	41,41,41,41	0
87	MG	A2	2153	1/1	0.84	0.27	72,72,72,72	0
87	MG	A2	2228	1/1	0.84	0.12	85,85,85,85	0
87	MG	A5	3907	1/1	0.84	0.28	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	3909	1/1	0.84	0.23	70,70,70,70	0
87	MG	A2	2154	1/1	0.84	0.30	74,74,74,74	0
87	MG	DV	202	1/1	0.84	0.34	35,35,35,35	0
86	OHX	A1	3512	7/7	0.84	0.33	197,197,197,197	7
87	MG	A1	4004	1/1	0.84	0.53	57,57,57,57	0
87	MG	Da	201	1/1	0.84	0.24	54,54,54,54	0
87	MG	Da	203	1/1	0.84	0.21	54,54,54,54	0
87	MG	A5	4159	1/1	0.84	0.30	64,64,64,64	0
87	MG	A5	3918	1/1	0.84	0.33	79,79,79,79	0
87	MG	A6	2252	1/1	0.84	0.37	117,117,117,117	0
87	MG	A1	4008	1/1	0.84	0.32	36,36,36,36	0
86	OHX	A6	2046	7/7	0.84	0.18	204,204,204,204	7
87	MG	A1	4238	1/1	0.84	0.16	69,69,69,69	0
87	MG	A5	4174	1/1	0.84	0.25	75,75,75,75	0
87	MG	A1	4459	1/1	0.85	0.34	88,88,88,88	0
87	MG	A1	3934	1/1	0.85	0.29	46,46,46,46	0
87	MG	A5	3967	1/1	0.85	0.30	57,57,57,57	0
87	MG	A1	4319	1/1	0.85	0.23	76,76,76,76	0
87	MG	A5	3976	1/1	0.85	0.27	43,43,43,43	0
87	MG	A5	4432	1/1	0.85	0.36	95,95,95,95	0
86	OHX	A1	3722	7/7	0.85	0.21	150,150,150,150	7
87	MG	A5	3978	1/1	0.85	0.17	29,29,29,29	0
86	OHX	A6	2060	7/7	0.85	0.27	165,165,165,165	7
87	MG	A5	3981	1/1	0.85	0.59	79,79,79,79	0
87	MG	A6	2322	1/1	0.85	0.17	77,77,77,77	0
87	MG	A1	3941	1/1	0.85	0.42	52,52,52,52	0
87	MG	A6	2177	1/1	0.85	0.42	79,79,79,79	0
87	MG	A6	2179	1/1	0.85	0.16	47,47,47,47	0
86	OHX	A6	2066	7/7	0.85	0.16	119,119,119,119	7
86	OHX	A6	2067	7/7	0.85	0.30	136,136,136,136	7
87	MG	A1	3946	1/1	0.85	0.29	41,41,41,41	0
87	MG	A5	4477	1/1	0.85	0.12	66,66,66,66	0
87	MG	A6	2184	1/1	0.85	0.18	67,67,67,67	0
87	MG	A6	2186	1/1	0.85	0.26	104,104,104,104	0
87	MG	A2	2116	1/1	0.85	0.31	59,59,59,59	0
86	OHX	A2	2059	7/7	0.85	0.13	183,183,183,183	7
87	MG	Ba	203	1/1	0.85	0.25	70,70,70,70	0
87	MG	A5	4022	1/1	0.85	0.41	52,52,52,52	0
87	MG	A6	2336	1/1	0.85	0.34	93,93,93,93	0
86	OHX	A5	3767	7/7	0.85	0.21	185,185,185,185	7
87	MG	A5	4026	1/1	0.85	0.47	53,53,53,53	0
87	MG	A2	2230	1/1	0.85	0.18	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	Bd	201	1/1	0.85	0.31	106,106,106,106	0
87	MG	A1	4342	1/1	0.85	0.31	79,79,79,79	0
86	OHX	A5	3821	7/7	0.85	0.15	223,223,223,223	7
86	OHX	A1	3786	7/7	0.85	0.19	184,184,184,184	7
87	MG	A1	3969	1/1	0.85	0.35	49,49,49,49	0
87	MG	A1	4349	1/1	0.85	0.42	119,119,119,119	0
86	OHX	A1	3700	7/7	0.85	0.27	185,185,185,185	7
86	OHX	BR	201	7/7	0.85	0.11	181,181,181,181	7
86	OHX	A6	2003	7/7	0.85	0.23	177,177,177,177	7
87	MG	A6	2101	1/1	0.85	0.33	51,51,51,51	0
86	OHX	A6	2025	7/7	0.85	0.16	161,161,161,161	7
86	OHX	A1	3791	7/7	0.85	0.19	149,149,149,149	7
87	MG	A5	4061	1/1	0.85	0.39	83,83,83,83	0
87	MG	A5	3826	1/1	0.85	0.20	63,63,63,63	0
87	MG	A5	3827	1/1	0.85	0.27	67,67,67,67	0
87	MG	A5	4272	1/1	0.85	0.10	69,69,69,69	0
86	OHX	A5	3782	7/7	0.85	0.25	169,169,169,169	7
87	MG	A5	4069	1/1	0.85	0.36	88,88,88,88	0
86	OHX	A5	3591	7/7	0.85	0.15	209,209,209,209	7
87	MG	A5	4534	1/1	0.85	0.52	72,72,72,72	0
87	MG	A5	4535	1/1	0.85	0.28	68,68,68,68	0
87	MG	A5	4075	1/1	0.85	0.21	60,60,60,60	0
87	MG	A6	2106	1/1	0.85	0.31	64,64,64,64	0
87	MG	A1	4505	1/1	0.85	0.23	145,145,145,145	0
87	MG	A5	3851	1/1	0.85	0.27	45,45,45,45	0
87	MG	A6	2232	1/1	0.85	0.20	77,77,77,77	0
86	OHX	A5	3658	7/7	0.85	0.29	141,141,141,141	7
87	MG	A5	3862	1/1	0.85	0.40	82,82,82,82	0
87	MG	A5	4317	1/1	0.85	0.23	63,63,63,63	0
87	MG	A5	4089	1/1	0.85	0.30	81,81,81,81	0
87	MG	A5	3864	1/1	0.85	0.38	63,63,63,63	0
87	MG	A5	4321	1/1	0.85	0.24	77,77,77,77	0
87	MG	A5	4091	1/1	0.85	0.11	54,54,54,54	0
87	MG	A6	2234	1/1	0.85	0.20	92,92,92,92	0
87	MG	A1	4082	1/1	0.85	0.36	73,73,73,73	0
87	MG	A5	3872	1/1	0.85	0.33	81,81,81,81	0
87	MG	A1	4372	1/1	0.85	0.28	71,71,71,71	0
87	MG	A7	218	1/1	0.85	0.39	43,43,43,43	0
87	MG	A7	219	1/1	0.85	0.24	71,71,71,71	0
87	MG	A1	3910	1/1	0.85	0.41	58,58,58,58	0
87	MG	A2	2245	1/1	0.85	0.17	71,71,71,71	0
87	MG	A5	4106	1/1	0.85	0.26	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	A1	3915	1/1	0.85	0.19	32,32,32,32	0
86	OHX	A5	3688	7/7	0.85	0.19	212,212,212,212	7
87	MG	A6	2126	1/1	0.85	0.32	78,78,78,78	0
86	OHX	A2	2029	7/7	0.85	0.26	150,150,150,150	7
86	OHX	A1	3768	7/7	0.85	0.29	137,137,137,137	7
87	MG	A5	3895	1/1	0.85	0.25	32,32,32,32	0
87	MG	A1	3853	1/1	0.85	0.08	43,43,43,43	0
86	OHX	A6	2050	7/7	0.85	0.12	206,206,206,206	7
87	MG	A4	220	1/1	0.85	0.39	70,70,70,70	0
87	MG	A1	4282	1/1	0.85	0.47	92,92,92,92	0
87	MG	A1	4199	1/1	0.85	0.26	74,74,74,74	0
87	MG	A6	2134	1/1	0.85	0.30	67,67,67,67	0
87	MG	A6	2256	1/1	0.85	0.33	73,73,73,73	0
87	MG	A8	237	1/1	0.85	0.13	85,85,85,85	0
87	MG	A1	4412	1/1	0.85	0.16	104,104,104,104	0
87	MG	DA	305	1/1	0.85	0.31	69,69,69,69	0
87	MG	A1	4200	1/1	0.85	0.28	71,71,71,71	0
87	MG	A1	4006	1/1	0.85	0.33	42,42,42,42	0
87	MG	A6	2270	1/1	0.85	0.23	90,90,90,90	0
87	MG	A2	2101	1/1	0.85	0.16	59,59,59,59	0
87	MG	A5	4374	1/1	0.85	0.34	95,95,95,95	0
86	OHX	A1	3708	7/7	0.85	0.18	158,158,158,158	7
87	MG	DD	302	1/1	0.85	0.11	66,66,66,66	0
87	MG	DD	304	1/1	0.85	0.21	71,71,71,71	0
87	MG	A1	3862	1/1	0.85	0.19	76,76,76,76	0
87	MG	DF	301	1/1	0.85	0.14	75,75,75,75	0
87	MG	A6	2278	1/1	0.85	0.12	64,64,64,64	0
87	MG	A1	4439	1/1	0.85	0.21	88,88,88,88	0
87	MG	A5	4163	1/1	0.85	0.17	58,58,58,58	0
87	MG	DO	205	1/1	0.85	0.18	52,52,52,52	0
87	MG	A1	3927	1/1	0.85	0.22	31,31,31,31	0
86	OHX	A6	2085	7/7	0.85	0.41	188,188,188,188	7
87	MG	DP	205	1/1	0.85	0.27	56,56,56,56	0
87	MG	A5	4393	1/1	0.85	0.28	97,97,97,97	0
86	OHX	A1	3752	7/7	0.85	0.10	207,207,207,207	7
87	MG	A5	4396	1/1	0.85	0.17	71,71,71,71	0
87	MG	A1	4300	1/1	0.85	0.36	76,76,76,76	0
86	OHX	A5	3752	7/7	0.85	0.28	127,127,127,127	7
87	MG	A1	4026	1/1	0.85	0.38	42,42,42,42	0
87	MG	A1	4452	1/1	0.85	0.33	112,112,112,112	0
87	MG	A1	4306	1/1	0.85	0.14	68,68,68,68	0
87	MG	A5	4416	1/1	0.85	0.32	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2109	1/1	0.85	0.42	56,56,56,56	0
87	MG	A5	4419	1/1	0.85	0.19	65,65,65,65	0
87	MG	A1	4225	1/1	0.85	0.22	67,67,67,67	0
87	MG	BJ	201	1/1	0.85	0.16	81,81,81,81	0
87	MG	A1	4033	1/1	0.85	0.27	48,48,48,48	0
87	MG	A5	4027	1/1	0.86	0.42	53,53,53,53	0
87	MG	A1	4384	1/1	0.86	0.21	61,61,61,61	0
86	OHX	A6	2030	7/7	0.86	0.20	170,170,170,170	7
87	MG	A5	4219	1/1	0.86	0.37	74,74,74,74	0
87	MG	A1	3986	1/1	0.86	0.32	41,41,41,41	0
87	MG	A5	4470	1/1	0.86	0.36	76,76,76,76	0
86	OHX	A1	3804	7/7	0.86	0.31	152,152,152,152	7
87	MG	A3	231	1/1	0.86	0.13	92,92,92,92	0
86	OHX	A6	2039	7/7	0.86	0.17	168,168,168,168	7
87	MG	A4	216	1/1	0.86	0.35	64,64,64,64	0
87	MG	A1	3832	1/1	0.86	0.31	65,65,65,65	0
87	MG	A1	3833	1/1	0.86	0.34	49,49,49,49	0
87	MG	A5	3857	1/1	0.86	0.23	53,53,53,53	0
86	OHX	A5	3808	7/7	0.86	0.27	182,182,182,182	7
87	MG	A5	4238	1/1	0.86	0.30	44,44,44,44	0
87	MG	A1	4407	1/1	0.86	0.32	113,113,113,113	0
86	OHX	A6	2043	7/7	0.86	0.21	156,156,156,156	7
87	MG	A1	4096	1/1	0.86	0.30	80,80,80,80	0
87	MG	A5	3869	1/1	0.86	0.36	58,58,58,58	0
87	MG	A5	4063	1/1	0.86	0.25	52,52,52,52	0
87	MG	A5	4064	1/1	0.86	0.12	30,30,30,30	0
87	MG	A2	2110	1/1	0.86	0.33	57,57,57,57	0
87	MG	A1	4431	1/1	0.86	0.20	59,59,59,59	0
87	MG	A5	3873	1/1	0.86	0.27	60,60,60,60	0
87	MG	A1	4204	1/1	0.86	0.10	59,59,59,59	0
87	MG	A1	4292	1/1	0.86	0.21	67,67,67,67	0
87	MG	A5	4076	1/1	0.86	0.21	64,64,64,64	0
87	MG	A5	4267	1/1	0.86	0.30	88,88,88,88	0
87	MG	A5	4511	1/1	0.86	0.22	68,68,68,68	0
87	MG	A5	4077	1/1	0.86	0.21	55,55,55,55	0
87	MG	A6	2258	1/1	0.86	0.18	71,71,71,71	0
87	MG	A6	2140	1/1	0.86	0.23	61,61,61,61	0
86	OHX	A1	3778	7/7	0.86	0.26	150,150,150,150	7
86	OHX	A1	3748	7/7	0.86	0.25	163,163,163,163	7
87	MG	A6	2269	1/1	0.86	0.21	60,60,60,60	0
86	OHX	A2	2043	7/7	0.86	0.15	192,192,192,192	7
87	MG	A5	4293	1/1	0.86	0.24	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	3894	1/1	0.86	0.38	67,67,67,67	0
87	MG	A6	2271	1/1	0.86	0.08	95,95,95,95	0
87	MG	A5	4302	1/1	0.86	0.30	72,72,72,72	0
87	MG	A5	4307	1/1	0.86	0.17	78,78,78,78	0
87	MG	A1	4443	1/1	0.86	0.26	65,65,65,65	0
87	MG	A1	3852	1/1	0.86	0.40	70,70,70,70	0
87	MG	A5	4537	1/1	0.86	0.36	83,83,83,83	0
86	OHX	A1	3811	7/7	0.86	0.21	183,183,183,183	7
87	MG	BB	405	1/1	0.86	0.29	51,51,51,51	0
87	MG	BC	403	1/1	0.86	0.18	72,72,72,72	0
87	MG	A1	4218	1/1	0.86	0.33	69,69,69,69	0
87	MG	A5	4101	1/1	0.86	0.18	64,64,64,64	0
86	OHX	A1	3812	7/7	0.86	0.33	187,187,187,187	7
87	MG	A1	4012	1/1	0.86	0.27	41,41,41,41	0
87	MG	A6	2289	1/1	0.86	0.18	96,96,96,96	0
87	MG	A5	3914	1/1	0.86	0.39	69,69,69,69	0
86	OHX	A1	3686	7/7	0.86	0.18	204,204,204,204	7
86	OHX	A2	2065	7/7	0.86	0.40	166,166,166,166	7
87	MG	A5	4121	1/1	0.86	0.13	55,55,55,55	0
87	MG	A5	4576	1/1	0.86	0.29	77,77,77,77	0
86	OHX	A5	3766	7/7	0.86	0.17	173,173,173,173	7
87	MG	BN	307	1/1	0.86	0.28	58,58,58,58	0
86	OHX	A5	3822	7/7	0.86	0.40	205,205,205,205	7
87	MG	A7	216	1/1	0.86	0.36	78,78,78,78	0
87	MG	A5	3924	1/1	0.86	0.27	39,39,39,39	0
87	MG	A6	2301	1/1	0.86	0.17	116,116,116,116	0
86	OHX	A5	3823	7/7	0.86	0.11	225,225,225,225	7
87	MG	A5	4343	1/1	0.86	0.23	56,56,56,56	0
87	MG	A1	3869	1/1	0.86	0.27	69,69,69,69	0
86	OHX	A7	210	7/7	0.86	0.32	114,114,114,114	7
86	OHX	A6	2061	7/7	0.86	0.22	172,172,172,172	7
87	MG	A1	3938	1/1	0.86	0.20	48,48,48,48	0
87	MG	A5	4353	1/1	0.86	0.20	71,71,71,71	0
86	OHX	A8	216	7/7	0.86	0.20	198,198,198,198	7
87	MG	A1	4331	1/1	0.86	0.17	62,62,62,62	0
86	OHX	A3	209	7/7	0.86	0.26	180,180,180,180	7
87	MG	A5	3940	1/1	0.86	0.35	39,39,39,39	0
87	MG	A8	230	1/1	0.86	0.14	68,68,68,68	0
87	MG	A6	2317	1/1	0.86	0.16	82,82,82,82	0
87	MG	A5	4152	1/1	0.86	0.28	79,79,79,79	0
87	MG	A6	2318	1/1	0.86	0.22	68,68,68,68	0
86	OHX	A6	2098	7/7	0.86	0.26	144,144,144,144	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3734	7/7	0.86	0.26	190,190,190,190	7
87	MG	A1	3951	1/1	0.86	0.34	46,46,46,46	0
86	OHX	A1	3758	7/7	0.86	0.32	139,139,139,139	7
87	MG	A5	4380	1/1	0.86	0.29	89,89,89,89	0
86	OHX	A5	3778	7/7	0.86	0.16	153,153,153,153	7
87	MG	A1	4244	1/1	0.86	0.13	52,52,52,52	0
87	MG	A1	3880	1/1	0.86	0.29	42,42,42,42	0
87	MG	A5	3973	1/1	0.86	0.28	38,38,38,38	0
87	MG	A2	2220	1/1	0.86	0.21	111,111,111,111	0
86	OHX	A2	2032	7/7	0.86	0.17	200,200,200,200	7
87	MG	A5	4176	1/1	0.86	0.17	89,89,89,89	0
86	OHX	A1	3737	7/7	0.86	0.12	183,183,183,183	7
87	MG	A1	4353	1/1	0.86	0.14	77,77,77,77	0
87	MG	A1	4355	1/1	0.86	0.29	53,53,53,53	0
86	OHX	A2	2025	7/7	0.86	0.19	219,219,219,219	7
87	MG	A5	4402	1/1	0.86	0.18	91,91,91,91	0
87	MG	A5	4182	1/1	0.86	0.29	66,66,66,66	0
86	OHX	A5	3647	7/7	0.86	0.15	204,204,204,204	7
87	MG	A1	4496	1/1	0.86	0.26	82,82,82,82	0
87	MG	DO	208	1/1	0.86	0.29	77,77,77,77	0
87	MG	A1	3974	1/1	0.86	0.15	35,35,35,35	0
87	MG	A6	2212	1/1	0.86	0.22	91,91,91,91	0
86	OHX	A1	3770	7/7	0.86	0.21	179,179,179,179	7
86	OHX	A1	3574	7/7	0.86	0.18	189,189,189,189	7
87	MG	CI	303	1/1	0.86	0.32	62,62,62,62	0
87	MG	A5	4000	1/1	0.86	0.39	53,53,53,53	0
86	OHX	A2	2018	7/7	0.86	0.16	176,176,176,176	7
87	MG	A5	4006	1/1	0.86	0.35	40,40,40,40	0
86	OHX	A5	3704	7/7	0.86	0.21	141,141,141,141	7
87	MG	A1	4176	1/1	0.86	0.09	84,84,84,84	0
87	MG	A1	4074	1/1	0.86	0.19	57,57,57,57	0
87	MG	Df	202	1/1	0.86	0.46	81,81,81,81	0
87	MG	Dj	101	1/1	0.86	0.23	38,38,38,38	0
87	MG	A3	214	1/1	0.86	0.27	70,70,70,70	0
87	MG	A1	4266	1/1	0.86	0.14	70,70,70,70	0
87	MG	A5	4435	1/1	0.86	0.15	87,87,87,87	0
87	MG	A1	4179	1/1	0.86	0.31	69,69,69,69	0
87	MG	A1	3981	1/1	0.86	0.38	41,41,41,41	0
87	MG	A2	2099	1/1	0.87	0.21	53,53,53,53	0
87	MG	A6	2264	1/1	0.87	0.15	62,62,62,62	0
87	MG	A5	4150	1/1	0.87	0.22	68,68,68,68	0
87	MG	A6	2265	1/1	0.87	0.23	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A6	2268	1/1	0.87	0.24	68,68,68,68	0
87	MG	A3	227	1/1	0.87	0.27	59,59,59,59	0
87	MG	A5	4417	1/1	0.87	0.29	50,50,50,50	0
87	MG	A1	4380	1/1	0.87	0.16	95,95,95,95	0
87	MG	A5	4156	1/1	0.87	0.22	65,65,65,65	0
86	OHX	A2	2057	7/7	0.87	0.18	173,173,173,173	7
87	MG	A1	4263	1/1	0.87	0.30	71,71,71,71	0
87	MG	A1	4386	1/1	0.87	0.19	78,78,78,78	0
87	MG	A1	4054	1/1	0.87	0.35	65,65,65,65	0
87	MG	A5	4166	1/1	0.87	0.19	57,57,57,57	0
87	MG	A1	4163	1/1	0.87	0.34	81,81,81,81	0
87	MG	A5	4168	1/1	0.87	0.46	74,74,74,74	0
87	MG	A2	2204	1/1	0.87	0.26	109,109,109,109	0
86	OHX	A1	3785	7/7	0.87	0.29	183,183,183,183	7
87	MG	A4	225	1/1	0.87	0.41	65,65,65,65	0
86	OHX	A2	2004	7/7	0.87	0.23	164,164,164,164	7
87	MG	A5	3931	1/1	0.87	0.23	35,35,35,35	0
87	MG	A2	2104	1/1	0.87	0.24	63,63,63,63	0
87	MG	A1	4402	1/1	0.87	0.16	65,65,65,65	0
87	MG	A6	2142	1/1	0.87	0.28	46,46,46,46	0
87	MG	A5	4180	1/1	0.87	0.34	81,81,81,81	0
87	MG	A6	2143	1/1	0.87	0.26	45,45,45,45	0
87	MG	A5	4457	1/1	0.87	0.25	78,78,78,78	0
87	MG	A6	2294	1/1	0.87	0.12	54,54,54,54	0
87	MG	A5	4469	1/1	0.87	0.12	70,70,70,70	0
86	OHX	A1	3739	7/7	0.87	0.15	185,185,185,185	7
86	OHX	A5	3741	7/7	0.87	0.16	185,185,185,185	7
87	MG	A2	2108	1/1	0.87	0.28	56,56,56,56	0
87	MG	A6	2148	1/1	0.87	0.27	39,39,39,39	0
87	MG	A4	237	1/1	0.87	0.18	94,94,94,94	0
87	MG	A1	3973	1/1	0.87	0.28	37,37,37,37	0
86	OHX	A5	3746	7/7	0.87	0.22	151,151,151,151	7
87	MG	A1	3975	1/1	0.87	0.29	67,67,67,67	0
86	OHX	A1	3709	7/7	0.87	0.18	176,176,176,176	7
86	OHX	A1	3765	7/7	0.87	0.29	173,173,173,173	7
87	MG	A1	3890	1/1	0.87	0.28	61,61,61,61	0
87	MG	BA	303	1/1	0.87	0.13	30,30,30,30	0
87	MG	BA	306	1/1	0.87	0.19	74,74,74,74	0
87	MG	A1	4195	1/1	0.87	0.57	83,83,83,83	0
87	MG	A6	2321	1/1	0.87	0.53	93,93,93,93	0
86	OHX	A6	2100	7/7	0.87	0.23	206,206,206,206	7
87	MG	A5	4493	1/1	0.87	0.11	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	3984	1/1	0.87	0.40	56,56,56,56	0
87	MG	A5	4496	1/1	0.87	0.21	77,77,77,77	0
87	MG	A1	3895	1/1	0.87	0.27	92,92,92,92	0
87	MG	A1	4297	1/1	0.87	0.25	94,94,94,94	0
87	MG	A1	4085	1/1	0.87	0.12	35,35,35,35	0
87	MG	A5	3990	1/1	0.87	0.47	68,68,68,68	0
87	MG	A5	4505	1/1	0.87	0.49	71,71,71,71	0
87	MG	A5	3991	1/1	0.87	0.39	46,46,46,46	0
87	MG	A5	4224	1/1	0.87	0.12	58,58,58,58	0
86	OHX	A5	3755	7/7	0.87	0.19	174,174,174,174	7
87	MG	A5	3993	1/1	0.87	0.18	25,25,25,25	0
87	MG	BE	201	1/1	0.87	0.10	55,55,55,55	0
87	MG	A1	3985	1/1	0.87	0.41	51,51,51,51	0
86	OHX	A2	2045	7/7	0.87	0.22	164,164,164,164	7
86	OHX	A1	3628	7/7	0.87	0.17	154,154,154,154	7
87	MG	A5	4002	1/1	0.87	0.27	40,40,40,40	0
87	MG	A5	4003	1/1	0.87	0.30	46,46,46,46	0
87	MG	A1	4206	1/1	0.87	0.10	55,55,55,55	0
87	MG	BL	201	1/1	0.87	0.12	51,51,51,51	0
87	MG	BN	304	1/1	0.87	0.40	80,80,80,80	0
87	MG	A5	4245	1/1	0.87	0.20	66,66,66,66	0
86	OHX	A5	3761	7/7	0.87	0.18	146,146,146,146	7
87	MG	A5	4015	1/1	0.87	0.38	45,45,45,45	0
87	MG	A1	4097	1/1	0.87	0.39	73,73,73,73	0
87	MG	A1	4100	1/1	0.87	0.12	34,34,34,34	0
87	MG	A6	2190	1/1	0.87	0.20	74,74,74,74	0
87	MG	Ad	103	1/1	0.87	0.22	67,67,67,67	0
87	MG	A1	4460	1/1	0.87	0.20	67,67,67,67	0
86	OHX	A2	2071	7/7	0.87	0.20	162,162,162,162	7
86	OHX	A2	2053	7/7	0.87	0.17	173,173,173,173	7
86	OHX	A5	3406	7/7	0.87	0.10	170,170,170,170	7
87	MG	A6	2197	1/1	0.87	0.17	74,74,74,74	0
87	MG	BR	204	1/1	0.87	0.20	67,67,67,67	0
87	MG	A5	4570	1/1	0.87	0.16	76,76,76,76	0
87	MG	A1	3912	1/1	0.87	0.14	84,84,84,84	0
87	MG	A5	4044	1/1	0.87	0.19	35,35,35,35	0
87	MG	A5	4286	1/1	0.87	0.22	58,58,58,58	0
87	MG	A1	4466	1/1	0.87	0.11	80,80,80,80	0
87	MG	CX	201	1/1	0.87	0.23	68,68,68,68	0
86	OHX	A6	2054	7/7	0.87	0.23	169,169,169,169	7
87	MG	CZ	201	1/1	0.87	0.23	74,74,74,74	0
86	OHX	A1	3687	7/7	0.87	0.18	182,182,182,182	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4294	1/1	0.87	0.19	62,62,62,62	0
86	OHX	A5	3769	7/7	0.87	0.23	169,169,169,169	7
87	MG	A5	3410	1/1	0.87	0.23	61,61,61,61	0
86	OHX	A8	213	7/7	0.87	0.20	146,146,146,146	7
86	OHX	A2	2041	7/7	0.87	0.14	184,184,184,184	7
86	OHX	A5	3671	7/7	0.87	0.21	171,171,171,171	7
86	OHX	A5	3680	7/7	0.87	0.27	134,134,134,134	7
86	OHX	DD	301	7/7	0.87	0.24	134,134,134,134	7
87	MG	A5	3841	1/1	0.87	0.35	44,44,44,44	0
87	MG	A5	3844	1/1	0.87	0.18	59,59,59,59	0
87	MG	A5	3845	1/1	0.87	0.31	51,51,51,51	0
87	MG	A8	223	1/1	0.87	0.29	50,50,50,50	0
86	OHX	A1	3783	7/7	0.87	0.16	152,152,152,152	7
87	MG	A5	3849	1/1	0.87	0.17	41,41,41,41	0
87	MG	A5	3850	1/1	0.87	0.31	55,55,55,55	0
87	MG	A6	2221	1/1	0.87	0.19	69,69,69,69	0
86	OHX	A5	3779	7/7	0.87	0.27	167,167,167,167	7
87	MG	A5	4079	1/1	0.87	0.25	67,67,67,67	0
87	MG	A5	3854	1/1	0.87	0.40	74,74,74,74	0
87	MG	A1	4484	1/1	0.87	0.35	106,106,106,106	0
86	OHX	A5	3689	7/7	0.87	0.28	134,134,134,134	7
87	MG	A1	4345	1/1	0.87	0.16	73,73,73,73	0
86	OHX	A5	3696	7/7	0.87	0.14	167,167,167,167	7
87	MG	A5	3865	1/1	0.87	0.26	37,37,37,37	0
87	MG	A5	4337	1/1	0.87	0.25	70,70,70,70	0
87	MG	B0	202	1/1	0.87	0.30	82,82,82,82	0
87	MG	A2	2088	1/1	0.87	0.26	59,59,59,59	0
87	MG	A1	4491	1/1	0.87	0.30	80,80,80,80	0
87	MG	A5	4344	1/1	0.87	0.16	66,66,66,66	0
87	MG	A1	3856	1/1	0.87	0.27	38,38,38,38	0
87	MG	A1	4138	1/1	0.87	0.29	62,62,62,62	0
87	MG	A5	3874	1/1	0.87	0.21	32,32,32,32	0
87	MG	A5	4349	1/1	0.87	0.29	79,79,79,79	0
87	MG	A5	3876	1/1	0.87	0.28	66,66,66,66	0
87	MG	A5	3877	1/1	0.87	0.33	60,60,60,60	0
87	MG	A2	2190	1/1	0.87	0.23	82,82,82,82	0
87	MG	DL	201	1/1	0.87	0.23	94,94,94,94	0
87	MG	A5	4105	1/1	0.87	0.32	68,68,68,68	0
87	MG	A1	4142	1/1	0.87	0.14	68,68,68,68	0
86	OHX	A1	3805	7/7	0.87	0.30	209,209,209,209	7
87	MG	A5	4363	1/1	0.87	0.27	83,83,83,83	0
87	MG	A5	3885	1/1	0.87	0.29	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A1	3860	1/1	0.87	0.33	59,59,59,59	0
87	MG	A1	4503	1/1	0.87	0.24	77,77,77,77	0
87	MG	A6	2115	1/1	0.87	0.33	47,47,47,47	0
87	MG	DS	203	1/1	0.87	0.38	65,65,65,65	0
87	MG	A1	3861	1/1	0.87	0.23	34,34,34,34	0
86	OHX	A5	3785	7/7	0.87	0.34	126,126,126,126	7
87	MG	A6	2119	1/1	0.87	0.29	70,70,70,70	0
87	MG	A5	4130	1/1	0.87	0.19	49,49,49,49	0
87	MG	A1	4365	1/1	0.87	0.19	66,66,66,66	0
87	MG	Dd	201	1/1	0.87	0.33	77,77,77,77	0
86	OHX	A6	1991	7/7	0.87	0.27	149,149,149,149	7
86	OHX	A5	3711	7/7	0.87	0.17	164,164,164,164	7
87	MG	A5	3900	1/1	0.87	0.27	63,63,63,63	0
87	MG	Df	203	1/1	0.87	0.29	93,93,93,93	0
86	OHX	A5	3719	7/7	0.87	0.27	180,180,180,180	7
86	OHX	A5	3791	7/7	0.87	0.29	175,175,175,175	7
87	MG	A1	4158	1/1	0.87	0.38	87,87,87,87	0
87	MG	A6	2262	1/1	0.87	0.14	101,101,101,101	0
87	MG	A5	4143	1/1	0.87	0.33	70,70,70,70	0
87	MG	A5	3908	1/1	0.87	0.24	37,37,37,37	0
87	MG	A1	4216	1/1	0.88	0.30	93,93,93,93	0
86	OHX	A2	2064	7/7	0.88	0.25	169,169,169,169	7
86	OHX	A8	215	7/7	0.88	0.24	151,151,151,151	7
86	OHX	A1	3678	7/7	0.88	0.24	186,186,186,186	7
87	MG	A6	2292	1/1	0.88	0.11	75,75,75,75	0
87	MG	A3	216	1/1	0.88	0.17	67,67,67,67	0
87	MG	A5	4422	1/1	0.88	0.20	52,52,52,52	0
87	MG	A5	4171	1/1	0.88	0.22	108,108,108,108	0
87	MG	A3	219	1/1	0.88	0.28	40,40,40,40	0
86	OHX	A5	3665	7/7	0.88	0.22	184,184,184,184	7
87	MG	A1	4098	1/1	0.88	0.17	54,54,54,54	0
86	OHX	A2	2048	7/7	0.88	0.13	155,155,155,155	7
87	MG	A1	3982	1/1	0.88	0.36	43,43,43,43	0
87	MG	A5	3957	1/1	0.88	0.39	43,43,43,43	0
86	OHX	A3	212	7/7	0.88	0.21	159,159,159,159	7
87	MG	A5	4433	1/1	0.88	0.29	83,83,83,83	0
87	MG	A2	2198	1/1	0.88	0.20	80,80,80,80	0
87	MG	A2	2142	1/1	0.88	0.34	65,65,65,65	0
87	MG	A5	4438	1/1	0.88	0.10	58,58,58,58	0
87	MG	A1	3893	1/1	0.88	0.14	26,26,26,26	0
86	OHX	A5	3776	7/7	0.88	0.21	184,184,184,184	7
87	MG	A5	3972	1/1	0.88	0.35	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	AC	302	1/1	0.88	0.35	74,74,74,74	0
87	MG	A5	3975	1/1	0.88	0.31	41,41,41,41	0
86	OHX	A5	3685	7/7	0.88	0.22	141,141,141,141	7
87	MG	A2	2203	1/1	0.88	0.14	68,68,68,68	0
87	MG	A1	4112	1/1	0.88	0.16	58,58,58,58	0
87	MG	A6	2152	1/1	0.88	0.34	64,64,64,64	0
86	OHX	A6	2048	7/7	0.88	0.28	169,169,169,169	7
86	OHX	A6	2083	7/7	0.88	0.38	214,214,214,214	7
87	MG	A5	3983	1/1	0.88	0.34	47,47,47,47	0
87	MG	A1	4240	1/1	0.88	0.12	59,59,59,59	0
87	MG	A1	3903	1/1	0.88	0.36	85,85,85,85	0
86	OHX	A6	2049	7/7	0.88	0.20	175,175,175,175	7
86	OHX	A2	2058	7/7	0.88	0.26	201,201,201,201	7
87	MG	A5	4210	1/1	0.88	0.25	79,79,79,79	0
87	MG	A6	2164	1/1	0.88	0.35	57,57,57,57	0
87	MG	A5	4483	1/1	0.88	0.25	112,112,112,112	0
87	MG	A1	4125	1/1	0.88	0.14	56,56,56,56	0
86	OHX	A6	2086	7/7	0.88	0.32	215,215,215,215	7
87	MG	AX	201	1/1	0.88	0.20	70,70,70,70	0
87	MG	A1	4251	1/1	0.88	0.25	71,71,71,71	0
87	MG	A6	2170	1/1	0.88	0.20	49,49,49,49	0
87	MG	A4	243	1/1	0.88	0.20	48,48,48,48	0
87	MG	A5	4222	1/1	0.88	0.36	75,75,75,75	0
87	MG	A1	4010	1/1	0.88	0.39	61,61,61,61	0
86	OHX	A5	3784	7/7	0.88	0.19	173,173,173,173	7
86	OHX	A5	3706	7/7	0.88	0.21	139,139,139,139	7
86	OHX	A6	2051	7/7	0.88	0.17	167,167,167,167	7
87	MG	A1	3404	1/1	0.88	0.34	74,74,74,74	0
87	MG	A6	2178	1/1	0.88	0.21	71,71,71,71	0
87	MG	CI	302	1/1	0.88	0.20	63,63,63,63	0
87	MG	A1	4258	1/1	0.88	0.14	67,67,67,67	0
86	OHX	A1	3800	7/7	0.88	0.30	188,188,188,188	7
87	MG	A1	4018	1/1	0.88	0.30	38,38,38,38	0
87	MG	A1	4410	1/1	0.88	0.20	69,69,69,69	0
87	MG	A1	4411	1/1	0.88	0.35	94,94,94,94	0
87	MG	A1	3818	1/1	0.88	0.10	63,63,63,63	0
87	MG	A1	4148	1/1	0.88	0.34	94,94,94,94	0
87	MG	A5	4519	1/1	0.88	0.12	63,63,63,63	0
86	OHX	A5	3788	7/7	0.88	0.24	141,141,141,141	7
87	MG	A5	4248	1/1	0.88	0.35	99,99,99,99	0
87	MG	A5	4034	1/1	0.88	0.11	46,46,46,46	0
87	MG	A5	4038	1/1	0.88	0.13	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4252	1/1	0.88	0.22	68,68,68,68	0
87	MG	CX	202	1/1	0.88	0.21	81,81,81,81	0
86	OHX	A5	3722	7/7	0.88	0.18	164,164,164,164	7
87	MG	A1	4265	1/1	0.88	0.29	74,74,74,74	0
87	MG	A1	4029	1/1	0.88	0.12	29,29,29,29	0
87	MG	A5	4261	1/1	0.88	0.17	71,71,71,71	0
87	MG	A1	4436	1/1	0.88	0.13	115,115,115,115	0
86	OHX	A5	3790	7/7	0.88	0.17	157,157,157,157	7
87	MG	BL	202	1/1	0.88	0.26	78,78,78,78	0
87	MG	A1	4269	1/1	0.88	0.18	87,87,87,87	0
87	MG	A5	4546	1/1	0.88	0.11	66,66,66,66	0
87	MG	A5	4051	1/1	0.88	0.35	77,77,77,77	0
87	MG	A5	4276	1/1	0.88	0.21	60,60,60,60	0
87	MG	A5	4555	1/1	0.88	0.19	63,63,63,63	0
87	MG	A5	3831	1/1	0.88	0.13	37,37,37,37	0
87	MG	A5	4284	1/1	0.88	0.16	69,69,69,69	0
87	MG	A5	4285	1/1	0.88	0.16	68,68,68,68	0
87	MG	A1	4271	1/1	0.88	0.20	58,58,58,58	0
87	MG	A5	4567	1/1	0.88	0.16	59,59,59,59	0
87	MG	A6	2201	1/1	0.88	0.23	72,72,72,72	0
86	OHX	A5	3725	7/7	0.88	0.17	171,171,171,171	7
87	MG	BO	205	1/1	0.88	0.24	58,58,58,58	0
87	MG	A6	2205	1/1	0.88	0.28	72,72,72,72	0
86	OHX	A2	2034	7/7	0.88	0.14	173,173,173,173	7
86	OHX	A5	3732	7/7	0.88	0.19	209,209,209,209	7
86	OHX	A6	2055	7/7	0.88	0.27	131,131,131,131	7
87	MG	A6	2211	1/1	0.88	0.13	86,86,86,86	0
86	OHX	A2	2019	7/7	0.88	0.19	174,174,174,174	7
87	MG	A5	4304	1/1	0.88	0.14	66,66,66,66	0
87	MG	A1	4450	1/1	0.88	0.22	68,68,68,68	0
87	MG	A5	4309	1/1	0.88	0.29	64,64,64,64	0
87	MG	A5	4071	1/1	0.88	0.32	79,79,79,79	0
87	MG	A1	4278	1/1	0.88	0.11	67,67,67,67	0
87	MG	A7	225	1/1	0.88	0.28	45,45,45,45	0
87	MG	A7	226	1/1	0.88	0.26	74,74,74,74	0
86	OHX	A6	2093	7/7	0.88	0.15	149,149,149,149	7
87	MG	A7	230	1/1	0.88	0.15	61,61,61,61	0
86	OHX	A5	3800	7/7	0.88	0.20	203,203,203,203	7
87	MG	A1	4454	1/1	0.88	0.28	81,81,81,81	0
86	OHX	A5	3802	7/7	0.88	0.32	151,151,151,151	7
87	MG	A7	235	1/1	0.88	0.24	74,74,74,74	0
86	OHX	A5	3806	7/7	0.88	0.20	120,120,120,120	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	BV	204	1/1	0.88	0.30	40,40,40,40	0
87	MG	A6	2226	1/1	0.88	0.11	68,68,68,68	0
87	MG	A8	224	1/1	0.88	0.26	67,67,67,67	0
87	MG	A5	4083	1/1	0.88	0.23	70,70,70,70	0
86	OHX	A2	2073	7/7	0.88	0.23	147,147,147,147	7
87	MG	A1	4173	1/1	0.88	0.12	45,45,45,45	0
87	MG	Ba	205	1/1	0.88	0.19	69,69,69,69	0
87	MG	A1	4289	1/1	0.88	0.22	74,74,74,74	0
87	MG	A5	3875	1/1	0.88	0.56	78,78,78,78	0
87	MG	A1	4290	1/1	0.88	0.18	69,69,69,69	0
86	OHX	A5	3744	7/7	0.88	0.23	140,140,140,140	7
87	MG	A5	3879	1/1	0.88	0.17	61,61,61,61	0
87	MG	A1	4053	1/1	0.88	0.21	76,76,76,76	0
87	MG	A1	3940	1/1	0.88	0.30	51,51,51,51	0
87	MG	DA	303	1/1	0.88	0.20	53,53,53,53	0
87	MG	A1	4294	1/1	0.88	0.39	78,78,78,78	0
86	OHX	A1	3599	7/7	0.88	0.25	196,196,196,196	7
86	OHX	A1	3807	7/7	0.88	0.21	167,167,167,167	7
87	MG	Bj	110	1/1	0.88	0.21	94,94,94,94	0
87	MG	DB	412	1/1	0.88	0.16	70,70,70,70	0
87	MG	A1	4472	1/1	0.88	0.17	86,86,86,86	0
87	MG	A2	2118	1/1	0.88	0.28	47,47,47,47	0
86	OHX	A1	3789	7/7	0.88	0.18	189,189,189,189	7
87	MG	A1	4189	1/1	0.88	0.20	59,59,59,59	0
87	MG	DD	303	1/1	0.88	0.19	67,67,67,67	0
87	MG	A5	4352	1/1	0.88	0.27	67,67,67,67	0
87	MG	A2	2178	1/1	0.88	0.17	73,73,73,73	0
87	MG	A5	3896	1/1	0.88	0.32	67,67,67,67	0
87	MG	DH	202	1/1	0.88	0.16	73,73,73,73	0
87	MG	DH	203	1/1	0.88	0.16	72,72,72,72	0
86	OHX	A6	2023	7/7	0.88	0.17	177,177,177,177	7
87	MG	A6	2254	1/1	0.88	0.12	69,69,69,69	0
87	MG	A5	4127	1/1	0.88	0.26	68,68,68,68	0
87	MG	DM	202	1/1	0.88	0.16	70,70,70,70	0
87	MG	A5	3899	1/1	0.88	0.29	73,73,73,73	0
86	OHX	A1	3712	7/7	0.88	0.26	180,180,180,180	7
87	MG	A1	4307	1/1	0.88	0.16	71,71,71,71	0
87	MG	A1	3954	1/1	0.88	0.25	45,45,45,45	0
86	OHX	A6	2026	7/7	0.88	0.19	176,176,176,176	7
87	MG	A6	2107	1/1	0.88	0.31	52,52,52,52	0
87	MG	A1	4485	1/1	0.88	0.26	93,93,93,93	0
86	OHX	A5	3758	7/7	0.88	0.33	167,167,167,167	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A6	2113	1/1	0.88	0.20	48,48,48,48	0
87	MG	A1	3961	1/1	0.88	0.24	33,33,33,33	0
87	MG	A5	3913	1/1	0.88	0.11	68,68,68,68	0
87	MG	A2	2241	1/1	0.88	0.20	108,108,108,108	0
86	OHX	A6	2071	7/7	0.88	0.22	160,160,160,160	7
87	MG	Da	202	1/1	0.88	0.16	84,84,84,84	0
87	MG	A1	4201	1/1	0.88	0.20	65,65,65,65	0
87	MG	A5	4149	1/1	0.88	0.15	63,63,63,63	0
87	MG	A1	4080	1/1	0.88	0.14	60,60,60,60	0
87	MG	A2	2243	1/1	0.88	0.17	86,86,86,86	0
86	OHX	A2	2038	7/7	0.88	0.19	195,195,195,195	7
86	OHX	A2	2001	7/7	0.88	0.23	140,140,140,140	7
87	MG	Df	205	1/1	0.88	0.18	76,76,76,76	0
87	MG	A5	4398	1/1	0.88	0.12	54,54,54,54	0
87	MG	A1	4211	1/1	0.88	0.28	102,102,102,102	0
86	OHX	A5	3407	7/7	0.88	0.21	196,196,196,196	7
87	MG	A1	4214	1/1	0.88	0.26	55,55,55,55	0
87	MG	A5	4409	1/1	0.88	0.14	59,59,59,59	0
86	OHX	A6	2032	7/7	0.88	0.16	143,143,143,143	7
86	OHX	A5	3751	7/7	0.89	0.25	148,148,148,148	7
87	MG	Ad	104	1/1	0.89	0.11	65,65,65,65	0
87	MG	CQ	201	1/1	0.89	0.28	75,75,75,75	0
87	MG	A5	4005	1/1	0.89	0.31	31,31,31,31	0
87	MG	BN	302	1/1	0.89	0.21	44,44,44,44	0
87	MG	A5	4463	1/1	0.89	0.11	89,89,89,89	0
87	MG	A5	4215	1/1	0.89	0.18	52,52,52,52	0
86	OHX	A1	3667	7/7	0.89	0.29	92,92,92,92	7
87	MG	A5	4011	1/1	0.89	0.28	54,54,54,54	0
87	MG	A1	3406	1/1	0.89	0.29	67,67,67,67	0
87	MG	A1	4042	1/1	0.89	0.21	68,68,68,68	0
86	OHX	A2	2012	7/7	0.89	0.15	180,180,180,180	7
87	MG	A1	3925	1/1	0.89	0.21	40,40,40,40	0
87	MG	A6	2198	1/1	0.89	0.13	49,49,49,49	0
86	OHX	A5	3754	7/7	0.89	0.18	147,147,147,147	7
87	MG	BP	208	1/1	0.89	0.10	52,52,52,52	0
87	MG	A1	4184	1/1	0.89	0.20	81,81,81,81	0
86	OHX	A1	3762	7/7	0.89	0.14	144,144,144,144	7
87	MG	A5	4029	1/1	0.89	0.38	44,44,44,44	0
86	OHX	A1	3727	7/7	0.89	0.26	146,146,146,146	7
86	OHX	A1	3681	7/7	0.89	0.21	146,146,146,146	7
87	MG	A1	3931	1/1	0.89	0.27	40,40,40,40	0
87	MG	A5	4489	1/1	0.89	0.31	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	BR	205	1/1	0.89	0.22	99,99,99,99	0
86	OHX	A6	2047	7/7	0.89	0.27	156,156,156,156	7
87	MG	A5	4244	1/1	0.89	0.26	82,82,82,82	0
86	OHX	A1	3729	7/7	0.89	0.35	167,167,167,167	7
86	OHX	A1	3771	7/7	0.89	0.19	174,174,174,174	7
86	OHX	A1	3682	7/7	0.89	0.18	145,145,145,145	7
87	MG	A1	4302	1/1	0.89	0.24	114,114,114,114	0
87	MG	A5	4498	1/1	0.89	0.42	90,90,90,90	0
87	MG	A5	4049	1/1	0.89	0.34	70,70,70,70	0
87	MG	A5	4250	1/1	0.89	0.26	110,110,110,110	0
87	MG	A1	3838	1/1	0.89	0.22	67,67,67,67	0
87	MG	A1	3839	1/1	0.89	0.28	64,64,64,64	0
87	MG	A5	4052	1/1	0.89	0.16	46,46,46,46	0
87	MG	A5	4508	1/1	0.89	0.26	67,67,67,67	0
87	MG	A5	4509	1/1	0.89	0.30	134,134,134,134	0
87	MG	A1	3939	1/1	0.89	0.25	32,32,32,32	0
86	OHX	A1	3810	7/7	0.89	0.34	199,199,199,199	7
86	OHX	CI	301	7/7	0.89	0.12	172,172,172,172	7
87	MG	A1	3943	1/1	0.89	0.36	59,59,59,59	0
87	MG	A5	3858	1/1	0.89	0.26	43,43,43,43	0
87	MG	A5	4264	1/1	0.89	0.67	103,103,103,103	0
87	MG	A5	4060	1/1	0.89	0.33	57,57,57,57	0
87	MG	A1	4316	1/1	0.89	0.17	65,65,65,65	0
87	MG	A1	3844	1/1	0.89	0.20	48,48,48,48	0
86	OHX	A1	3683	7/7	0.89	0.14	159,159,159,159	7
86	OHX	A1	3685	7/7	0.89	0.22	150,150,150,150	7
87	MG	A5	4277	1/1	0.89	0.20	85,85,85,85	0
87	MG	A5	3866	1/1	0.89	0.20	51,51,51,51	0
87	MG	A1	3949	1/1	0.89	0.33	43,43,43,43	0
87	MG	A5	4531	1/1	0.89	0.18	65,65,65,65	0
87	MG	A6	2236	1/1	0.89	0.27	76,76,76,76	0
87	MG	A1	4325	1/1	0.89	0.13	67,67,67,67	0
87	MG	A1	3850	1/1	0.89	0.41	64,64,64,64	0
87	MG	A5	4074	1/1	0.89	0.14	51,51,51,51	0
87	MG	A2	2222	1/1	0.89	0.21	103,103,103,103	0
87	MG	A5	4542	1/1	0.89	0.48	59,59,59,59	0
86	OHX	A1	3564	7/7	0.89	0.23	136,136,136,136	7
86	OHX	A5	3771	7/7	0.89	0.22	176,176,176,176	7
87	MG	A6	2243	1/1	0.89	0.12	74,74,74,74	0
86	OHX	A1	3782	7/7	0.89	0.24	186,186,186,186	7
86	OHX	A5	3775	7/7	0.89	0.17	152,152,152,152	7
87	MG	A1	4488	1/1	0.89	0.31	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4303	1/1	0.89	0.18	57,57,57,57	0
86	OHX	A1	3815	7/7	0.89	0.38	183,183,183,183	7
87	MG	A6	2248	1/1	0.89	0.16	75,75,75,75	0
87	MG	A5	4085	1/1	0.89	0.35	79,79,79,79	0
87	MG	A2	2229	1/1	0.89	0.10	60,60,60,60	0
87	MG	A1	4340	1/1	0.89	0.35	96,96,96,96	0
86	OHX	A5	3615	7/7	0.89	0.20	147,147,147,147	7
87	MG	A6	2108	1/1	0.89	0.28	52,52,52,52	0
86	OHX	A2	2061	7/7	0.89	0.30	142,142,142,142	7
87	MG	A5	4319	1/1	0.89	0.15	86,86,86,86	0
87	MG	A1	4099	1/1	0.89	0.28	71,71,71,71	0
86	OHX	A3	210	7/7	0.89	0.20	175,175,175,175	7
87	MG	A6	2114	1/1	0.89	0.35	61,61,61,61	0
87	MG	A7	214	1/1	0.89	0.40	55,55,55,55	0
87	MG	A1	4499	1/1	0.89	0.13	65,65,65,65	0
86	OHX	A6	2062	7/7	0.89	0.20	163,163,163,163	7
86	OHX	A6	2063	7/7	0.89	0.21	176,176,176,176	7
87	MG	A1	4348	1/1	0.89	0.23	73,73,73,73	0
87	MG	A1	3868	1/1	0.89	0.22	55,55,55,55	0
86	OHX	A1	3697	7/7	0.89	0.23	182,182,182,182	7
87	MG	A5	3903	1/1	0.89	0.23	34,34,34,34	0
87	MG	A5	4112	1/1	0.89	0.40	65,65,65,65	0
86	OHX	A2	2049	7/7	0.89	0.18	140,140,140,140	7
87	MG	A1	4354	1/1	0.89	0.12	61,61,61,61	0
86	OHX	A4	214	7/7	0.89	0.21	167,167,167,167	7
87	MG	A5	4118	1/1	0.89	0.30	57,57,57,57	0
87	MG	A5	4340	1/1	0.89	0.17	61,61,61,61	0
87	MG	A3	215	1/1	0.89	0.35	77,77,77,77	0
87	MG	A1	4356	1/1	0.89	0.33	65,65,65,65	0
87	MG	A3	217	1/1	0.89	0.30	56,56,56,56	0
87	MG	A6	2276	1/1	0.89	0.15	105,105,105,105	0
87	MG	A1	3872	1/1	0.89	0.21	37,37,37,37	0
86	OHX	AI	301	7/7	0.89	0.10	156,156,156,156	7
87	MG	A1	4360	1/1	0.89	0.21	88,88,88,88	0
87	MG	A6	2281	1/1	0.89	0.12	75,75,75,75	0
86	OHX	A5	3693	7/7	0.89	0.22	181,181,181,181	7
87	MG	A3	223	1/1	0.89	0.21	75,75,75,75	0
87	MG	A2	2173	1/1	0.89	0.09	82,82,82,82	0
86	OHX	A6	2070	7/7	0.89	0.17	139,139,139,139	7
86	OHX	BC	401	7/7	0.89	0.14	130,130,130,130	7
86	OHX	A1	3746	7/7	0.89	0.18	142,142,142,142	7
87	MG	A2	2113	1/1	0.89	0.47	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4364	1/1	0.89	0.20	76,76,76,76	0
86	OHX	A2	1960	7/7	0.89	0.17	173,173,173,173	7
87	MG	DB	403	1/1	0.89	0.35	36,36,36,36	0
87	MG	A1	4371	1/1	0.89	0.17	63,63,63,63	0
87	MG	DB	406	1/1	0.89	0.23	47,47,47,47	0
86	OHX	A5	3708	7/7	0.89	0.13	141,141,141,141	7
87	MG	A5	3932	1/1	0.89	0.24	34,34,34,34	0
87	MG	A1	3887	1/1	0.89	0.14	54,54,54,54	0
87	MG	A4	219	1/1	0.89	0.23	59,59,59,59	0
87	MG	A1	4129	1/1	0.89	0.15	75,75,75,75	0
87	MG	A5	4377	1/1	0.89	0.29	85,85,85,85	0
87	MG	A4	223	1/1	0.89	0.35	44,44,44,44	0
87	MG	A5	4154	1/1	0.89	0.11	54,54,54,54	0
86	OHX	A1	3790	7/7	0.89	0.19	164,164,164,164	7
87	MG	A1	4134	1/1	0.89	0.42	69,69,69,69	0
87	MG	DD	307	1/1	0.89	0.16	77,77,77,77	0
87	MG	A5	3948	1/1	0.89	0.21	28,28,28,28	0
86	OHX	A5	3712	7/7	0.89	0.20	149,149,149,149	7
86	OHX	A5	3718	7/7	0.89	0.14	157,157,157,157	7
87	MG	A1	3891	1/1	0.89	0.23	58,58,58,58	0
86	OHX	A1	3749	7/7	0.89	0.21	177,177,177,177	7
86	OHX	A6	1988	7/7	0.89	0.25	138,138,138,138	7
86	OHX	A1	3655	7/7	0.89	0.24	150,150,150,150	7
87	MG	A5	3965	1/1	0.89	0.36	64,64,64,64	0
87	MG	DN	301	1/1	0.89	0.18	77,77,77,77	0
86	OHX	A6	1999	7/7	0.89	0.20	140,140,140,140	7
87	MG	A1	4398	1/1	0.89	0.17	49,49,49,49	0
87	MG	A5	4173	1/1	0.89	0.20	67,67,67,67	0
86	OHX	A5	3728	7/7	0.89	0.33	131,131,131,131	7
86	OHX	A1	3657	7/7	0.89	0.18	166,166,166,166	7
86	OHX	A6	2008	7/7	0.89	0.20	176,176,176,176	7
86	OHX	A6	2014	7/7	0.89	0.17	144,144,144,144	7
87	MG	DS	202	1/1	0.89	0.32	75,75,75,75	0
86	OHX	A1	3795	7/7	0.89	0.27	195,195,195,195	7
87	MG	DT	203	1/1	0.89	0.34	80,80,80,80	0
86	OHX	A5	3736	7/7	0.89	0.28	143,143,143,143	7
87	MG	BA	304	1/1	0.89	0.19	62,62,62,62	0
86	OHX	A1	3720	7/7	0.89	0.21	139,139,139,139	7
87	MG	DY	202	1/1	0.89	0.21	55,55,55,55	0
86	OHX	A1	3721	7/7	0.89	0.15	153,153,153,153	7
87	MG	A1	4422	1/1	0.89	0.22	68,68,68,68	0
87	MG	A6	2333	1/1	0.89	0.23	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A1	3756	7/7	0.89	0.28	158,158,158,158	7
87	MG	A1	4426	1/1	0.89	0.22	82,82,82,82	0
87	MG	A1	4027	1/1	0.89	0.44	65,65,65,65	0
87	MG	A6	2180	1/1	0.89	0.21	87,87,87,87	0
87	MG	A2	2202	1/1	0.89	0.16	66,66,66,66	0
87	MG	A1	4434	1/1	0.89	0.42	55,55,55,55	0
87	MG	A2	2136	1/1	0.89	0.35	70,70,70,70	0
86	OHX	A1	3407	7/7	0.89	0.21	138,138,138,138	7
87	MG	A6	2185	1/1	0.89	0.29	71,71,71,71	0
87	MG	A2	2138	1/1	0.89	0.14	56,56,56,56	0
87	MG	CL	202	1/1	0.89	0.28	82,82,82,82	0
88	ZN	Bo	205	1/1	0.89	0.13	209,209,209,209	0
87	MG	A1	4165	1/1	0.89	0.16	57,57,57,57	0
87	MG	A5	3953	1/1	0.90	0.46	69,69,69,69	0
86	OHX	A1	3666	7/7	0.90	0.19	142,142,142,142	7
87	MG	A1	3955	1/1	0.90	0.33	42,42,42,42	0
87	MG	A2	2107	1/1	0.90	0.40	66,66,66,66	0
87	MG	A1	3957	1/1	0.90	0.39	50,50,50,50	0
87	MG	A6	2304	1/1	0.90	0.17	81,81,81,81	0
86	OHX	A1	3755	7/7	0.90	0.27	135,135,135,135	7
86	OHX	A5	3730	7/7	0.90	0.25	97,97,97,97	7
87	MG	A1	3962	1/1	0.90	0.41	61,61,61,61	0
87	MG	A5	3970	1/1	0.90	0.44	60,60,60,60	0
87	MG	A1	4094	1/1	0.90	0.15	34,34,34,34	0
87	MG	A5	4184	1/1	0.90	0.20	55,55,55,55	0
87	MG	A6	2311	1/1	0.90	0.19	76,76,76,76	0
87	MG	A5	4439	1/1	0.90	0.12	56,56,56,56	0
86	OHX	A5	3731	7/7	0.90	0.17	138,138,138,138	7
87	MG	A1	3967	1/1	0.90	0.33	40,40,40,40	0
86	OHX	A5	3793	7/7	0.90	0.28	158,158,158,158	7
87	MG	A5	4449	1/1	0.90	0.35	122,122,122,122	0
86	OHX	A1	3403	7/7	0.90	0.19	169,169,169,169	7
87	MG	A1	3971	1/1	0.90	0.28	35,35,35,35	0
87	MG	A5	4453	1/1	0.90	0.16	66,66,66,66	0
87	MG	A6	2319	1/1	0.90	0.12	64,64,64,64	0
86	OHX	A1	3723	7/7	0.90	0.26	161,161,161,161	7
87	MG	A5	4462	1/1	0.90	0.23	83,83,83,83	0
86	OHX	A6	2099	7/7	0.90	0.36	184,184,184,184	7
86	OHX	A6	2059	7/7	0.90	0.20	153,153,153,153	7
87	MG	A5	4466	1/1	0.90	0.13	79,79,79,79	0
87	MG	A5	4199	1/1	0.90	0.28	70,70,70,70	0
86	OHX	A1	3724	7/7	0.90	0.17	144,144,144,144	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A2	2252	1/1	0.90	0.08	89,89,89,89	0
87	MG	A6	2160	1/1	0.90	0.37	45,45,45,45	0
87	MG	A1	4385	1/1	0.90	0.22	65,65,65,65	0
87	MG	A4	232	1/1	0.90	0.23	74,74,74,74	0
87	MG	A4	233	1/1	0.90	0.10	57,57,57,57	0
87	MG	A6	2329	1/1	0.90	0.34	138,138,138,138	0
87	MG	A1	4243	1/1	0.90	0.19	61,61,61,61	0
87	MG	A4	236	1/1	0.90	0.13	100,100,100,100	0
87	MG	A5	4216	1/1	0.90	0.21	80,80,80,80	0
87	MG	A1	4107	1/1	0.90	0.41	74,74,74,74	0
86	OHX	A5	3801	7/7	0.90	0.16	156,156,156,156	7
87	MG	A4	241	1/1	0.90	0.24	60,60,60,60	0
87	MG	A1	4248	1/1	0.90	0.19	78,78,78,78	0
86	OHX	BP	201	7/7	0.90	0.33	115,115,115,115	7
87	MG	A5	4223	1/1	0.90	0.29	78,78,78,78	0
87	MG	A6	2174	1/1	0.90	0.14	50,50,50,50	0
87	MG	A5	4225	1/1	0.90	0.28	66,66,66,66	0
87	MG	A1	3881	1/1	0.90	0.24	39,39,39,39	0
87	MG	CB	302	1/1	0.90	0.18	93,93,93,93	0
86	OHX	A5	3805	7/7	0.90	0.16	172,172,172,172	7
87	MG	A2	2186	1/1	0.90	0.26	76,76,76,76	0
87	MG	CG	303	1/1	0.90	0.29	54,54,54,54	0
87	MG	A1	4113	1/1	0.90	0.33	70,70,70,70	0
87	MG	A5	4016	1/1	0.90	0.21	42,42,42,42	0
87	MG	A5	4233	1/1	0.90	0.24	91,91,91,91	0
87	MG	A1	3983	1/1	0.90	0.17	65,65,65,65	0
87	MG	A1	4406	1/1	0.90	0.22	69,69,69,69	0
87	MG	A5	4507	1/1	0.90	0.24	92,92,92,92	0
87	MG	A2	2120	1/1	0.90	0.38	73,73,73,73	0
86	OHX	A5	3743	7/7	0.90	0.20	167,167,167,167	7
86	OHX	A2	2023	7/7	0.90	0.19	136,136,136,136	7
86	OHX	A5	3745	7/7	0.90	0.20	131,131,131,131	7
87	MG	A5	4513	1/1	0.90	0.20	53,53,53,53	0
87	MG	A1	4414	1/1	0.90	0.24	90,90,90,90	0
87	MG	BC	405	1/1	0.90	0.27	49,49,49,49	0
87	MG	A5	4030	1/1	0.90	0.30	39,39,39,39	0
87	MG	A1	4123	1/1	0.90	0.43	77,77,77,77	0
87	MG	A5	4037	1/1	0.90	0.34	67,67,67,67	0
87	MG	A1	3988	1/1	0.90	0.35	67,67,67,67	0
87	MG	A1	4424	1/1	0.90	0.10	50,50,50,50	0
86	OHX	A2	2056	7/7	0.90	0.15	130,130,130,130	7
87	MG	A2	2125	1/1	0.90	0.37	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4255	1/1	0.90	0.14	72,72,72,72	0
86	OHX	A5	3747	7/7	0.90	0.24	160,160,160,160	7
87	MG	A2	2127	1/1	0.90	0.31	49,49,49,49	0
87	MG	A1	4433	1/1	0.90	0.21	67,67,67,67	0
86	OHX	A6	2064	7/7	0.90	0.13	164,164,164,164	7
87	MG	BL	203	1/1	0.90	0.23	61,61,61,61	0
86	OHX	Cg	401	7/7	0.90	0.14	182,182,182,182	7
87	MG	A5	4266	1/1	0.90	0.26	72,72,72,72	0
87	MG	A5	3829	1/1	0.90	0.20	35,35,35,35	0
87	MG	AP	202	1/1	0.90	0.22	88,88,88,88	0
87	MG	A1	3999	1/1	0.90	0.31	37,37,37,37	0
87	MG	A5	4545	1/1	0.90	0.47	94,94,94,94	0
87	MG	A1	4140	1/1	0.90	0.32	56,56,56,56	0
87	MG	A5	4547	1/1	0.90	0.26	88,88,88,88	0
87	MG	A1	3900	1/1	0.90	0.21	78,78,78,78	0
87	MG	A5	4551	1/1	0.90	0.19	62,62,62,62	0
87	MG	BO	208	1/1	0.90	0.24	75,75,75,75	0
87	MG	A6	2208	1/1	0.90	0.18	56,56,56,56	0
86	OHX	A6	1990	7/7	0.90	0.20	177,177,177,177	7
87	MG	BP	205	1/1	0.90	0.19	53,53,53,53	0
87	MG	A5	4287	1/1	0.90	0.22	101,101,101,101	0
87	MG	A2	2131	1/1	0.90	0.19	65,65,65,65	0
87	MG	A1	4144	1/1	0.90	0.17	82,82,82,82	0
87	MG	A5	4569	1/1	0.90	0.21	103,103,103,103	0
87	MG	A1	4146	1/1	0.90	0.58	91,91,91,91	0
87	MG	A5	4066	1/1	0.90	0.28	73,73,73,73	0
86	OHX	A2	2002	7/7	0.90	0.15	169,169,169,169	7
87	MG	A6	2215	1/1	0.90	0.10	56,56,56,56	0
87	MG	A5	3855	1/1	0.90	0.29	55,55,55,55	0
86	OHX	A2	2086	7/7	0.90	0.22	156,156,156,156	7
87	MG	A1	3908	1/1	0.90	0.23	64,64,64,64	0
87	MG	BR	203	1/1	0.90	0.11	65,65,65,65	0
86	OHX	A2	2015	7/7	0.90	0.15	138,138,138,138	7
87	MG	A1	4151	1/1	0.90	0.27	71,71,71,71	0
86	OHX	A5	3638	7/7	0.90	0.20	135,135,135,135	7
87	MG	A7	217	1/1	0.90	0.30	55,55,55,55	0
86	OHX	A2	2036	7/7	0.90	0.23	162,162,162,162	7
87	MG	A1	3913	1/1	0.90	0.29	86,86,86,86	0
87	MG	A5	4314	1/1	0.90	0.15	56,56,56,56	0
87	MG	A5	4080	1/1	0.90	0.33	71,71,71,71	0
87	MG	A7	224	1/1	0.90	0.09	69,69,69,69	0
87	MG	A6	2231	1/1	0.90	0.19	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3607	7/7	0.90	0.12	204,204,204,204	7
87	MG	A7	227	1/1	0.90	0.22	100,100,100,100	0
86	OHX	A1	3773	7/7	0.90	0.24	159,159,159,159	7
87	MG	A1	3917	1/1	0.90	0.18	31,31,31,31	0
87	MG	Ba	201	1/1	0.90	0.09	66,66,66,66	0
87	MG	A1	4024	1/1	0.90	0.32	40,40,40,40	0
87	MG	A2	2139	1/1	0.90	0.38	81,81,81,81	0
87	MG	A5	4324	1/1	0.90	0.21	80,80,80,80	0
86	OHX	A5	3669	7/7	0.90	0.28	109,109,109,109	7
87	MG	A5	4328	1/1	0.90	0.15	72,72,72,72	0
87	MG	A8	221	1/1	0.90	0.14	33,33,33,33	0
87	MG	A5	3878	1/1	0.90	0.22	56,56,56,56	0
87	MG	A1	3819	1/1	0.90	0.09	63,63,63,63	0
86	OHX	A6	2024	7/7	0.90	0.17	156,156,156,156	7
86	OHX	A1	3688	7/7	0.90	0.16	181,181,181,181	7
87	MG	A1	4468	1/1	0.90	0.24	79,79,79,79	0
87	MG	A1	3827	1/1	0.90	0.28	47,47,47,47	0
86	OHX	A1	3696	7/7	0.90	0.18	143,143,143,143	7
86	OHX	A1	3619	7/7	0.90	0.24	128,128,128,128	7
86	OHX	DC	402	7/7	0.90	0.18	145,145,145,145	7
87	MG	A1	4177	1/1	0.90	0.18	76,76,76,76	0
87	MG	A5	4339	1/1	0.90	0.15	66,66,66,66	0
86	OHX	A2	2021	7/7	0.90	0.28	158,158,158,158	7
87	MG	A8	239	1/1	0.90	0.21	93,93,93,93	0
87	MG	A5	4107	1/1	0.90	0.27	66,66,66,66	0
87	MG	A5	4108	1/1	0.90	0.43	74,74,74,74	0
86	OHX	A5	3690	7/7	0.90	0.29	130,130,130,130	7
87	MG	A5	4111	1/1	0.90	0.28	65,65,65,65	0
87	MG	A1	4312	1/1	0.90	0.23	60,60,60,60	0
87	MG	A1	3929	1/1	0.90	0.28	75,75,75,75	0
87	MG	A1	4183	1/1	0.90	0.15	51,51,51,51	0
87	MG	A5	4350	1/1	0.90	0.34	58,58,58,58	0
87	MG	A1	4045	1/1	0.90	0.18	55,55,55,55	0
86	OHX	A1	3636	7/7	0.90	0.17	148,148,148,148	7
87	MG	A1	4321	1/1	0.90	0.24	88,88,88,88	0
87	MG	A1	4322	1/1	0.90	0.27	74,74,74,74	0
87	MG	A5	4357	1/1	0.90	0.31	75,75,75,75	0
86	OHX	A6	2034	7/7	0.90	0.19	137,137,137,137	7
86	OHX	DP	201	7/7	0.90	0.17	155,155,155,155	7
87	MG	A1	4049	1/1	0.90	0.21	59,59,59,59	0
86	OHX	A5	3773	7/7	0.90	0.14	141,141,141,141	7
86	OHX	A5	3697	7/7	0.90	0.15	167,167,167,167	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	DF	302	1/1	0.90	0.25	48,48,48,48	0
87	MG	A6	2267	1/1	0.90	0.15	72,72,72,72	0
87	MG	A5	4366	1/1	0.90	0.15	65,65,65,65	0
87	MG	A1	4493	1/1	0.90	0.19	66,66,66,66	0
87	MG	A5	4369	1/1	0.90	0.22	69,69,69,69	0
86	OHX	A1	3707	7/7	0.90	0.17	135,135,135,135	7
87	MG	A1	4056	1/1	0.90	0.22	61,61,61,61	0
87	MG	A1	3847	1/1	0.90	0.19	74,74,74,74	0
86	OHX	A1	3639	7/7	0.90	0.19	145,145,145,145	7
87	MG	DO	203	1/1	0.90	0.25	58,58,58,58	0
86	OHX	A2	2046	7/7	0.90	0.37	139,139,139,139	7
87	MG	DO	206	1/1	0.90	0.20	55,55,55,55	0
87	MG	A6	2274	1/1	0.90	0.20	95,95,95,95	0
87	MG	A6	2275	1/1	0.90	0.10	63,63,63,63	0
86	OHX	A1	3787	7/7	0.90	0.20	173,173,173,173	7
87	MG	A1	4062	1/1	0.90	0.31	72,72,72,72	0
87	MG	A2	2096	1/1	0.90	0.45	76,76,76,76	0
87	MG	A5	4385	1/1	0.90	0.23	74,74,74,74	0
87	MG	A1	4066	1/1	0.90	0.17	53,53,53,53	0
87	MG	A5	4389	1/1	0.90	0.21	66,66,66,66	0
87	MG	DS	204	1/1	0.90	0.15	63,63,63,63	0
87	MG	A1	4067	1/1	0.90	0.29	66,66,66,66	0
86	OHX	A1	3710	7/7	0.90	0.26	122,122,122,122	7
87	MG	A6	2285	1/1	0.90	0.30	74,74,74,74	0
87	MG	DW	201	1/1	0.90	0.35	85,85,85,85	0
87	MG	A6	2286	1/1	0.90	0.24	75,75,75,75	0
86	OHX	AN	201	7/7	0.90	0.11	192,192,192,192	7
86	OHX	A1	3719	7/7	0.90	0.18	154,154,154,154	7
87	MG	A5	4157	1/1	0.90	0.15	56,56,56,56	0
86	OHX	A4	213	7/7	0.90	0.18	164,164,164,164	7
87	MG	A5	4401	1/1	0.90	0.20	64,64,64,64	0
87	MG	A5	4162	1/1	0.90	0.24	70,70,70,70	0
87	MG	A5	4405	1/1	0.90	0.23	69,69,69,69	0
87	MG	A1	3947	1/1	0.90	0.39	42,42,42,42	0
86	OHX	A5	3721	7/7	0.90	0.22	167,167,167,167	7
86	OHX	A2	2072	7/7	0.90	0.30	207,207,207,207	7
86	OHX	A5	3724	7/7	0.90	0.30	124,124,124,124	7
87	MG	Dj	103	1/1	0.90	0.34	65,65,65,65	0
87	MG	Dl	101	1/1	0.90	0.31	112,112,112,112	0
87	MG	A5	4415	1/1	0.90	0.18	75,75,75,75	0
87	MG	A5	3943	1/1	0.90	0.37	38,38,38,38	0
87	MG	A5	3947	1/1	0.90	0.19	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A4	215	7/7	0.90	0.23	175,175,175,175	7
87	MG	A5	3950	1/1	0.90	0.38	38,38,38,38	0
87	MG	A6	2295	1/1	0.90	0.14	79,79,79,79	0
87	MG	A5	3870	1/1	0.91	0.29	56,56,56,56	0
87	MG	A1	4358	1/1	0.91	0.17	86,86,86,86	0
86	OHX	A2	2066	7/7	0.91	0.27	164,164,164,164	7
86	OHX	BA	301	7/7	0.91	0.29	217,217,217,217	7
87	MG	A1	4361	1/1	0.91	0.22	126,126,126,126	0
86	OHX	A2	2039	7/7	0.91	0.26	157,157,157,157	7
86	OHX	A1	3674	7/7	0.91	0.20	159,159,159,159	7
87	MG	A1	4508	1/1	0.91	0.12	58,58,58,58	0
87	MG	A1	4124	1/1	0.91	0.21	53,53,53,53	0
87	MG	A6	2257	1/1	0.91	0.34	65,65,65,65	0
86	OHX	A1	3704	7/7	0.91	0.14	176,176,176,176	7
87	MG	A1	4366	1/1	0.91	0.42	86,86,86,86	0
87	MG	A1	3911	1/1	0.91	0.08	58,58,58,58	0
86	OHX	A1	3730	7/7	0.91	0.21	135,135,135,135	7
87	MG	A5	3886	1/1	0.91	0.26	43,43,43,43	0
87	MG	A6	2117	1/1	0.91	0.34	64,64,64,64	0
87	MG	A1	4132	1/1	0.91	0.13	64,64,64,64	0
87	MG	A5	4278	1/1	0.91	0.20	82,82,82,82	0
87	MG	A1	4013	1/1	0.91	0.28	47,47,47,47	0
86	OHX	A1	3731	7/7	0.91	0.21	119,119,119,119	7
87	MG	Af	201	1/1	0.91	0.24	88,88,88,88	0
86	OHX	A1	3705	7/7	0.91	0.16	164,164,164,164	7
87	MG	A6	2123	1/1	0.91	0.25	51,51,51,51	0
87	MG	A3	226	1/1	0.91	0.26	69,69,69,69	0
87	MG	A1	4379	1/1	0.91	0.13	70,70,70,70	0
86	OHX	A1	3763	7/7	0.91	0.27	157,157,157,157	7
87	MG	A1	4382	1/1	0.91	0.15	81,81,81,81	0
86	OHX	A6	1977	7/7	0.91	0.16	128,128,128,128	7
87	MG	A1	4020	1/1	0.91	0.30	52,52,52,52	0
87	MG	A5	4092	1/1	0.91	0.41	82,82,82,82	0
86	OHX	A1	3733	7/7	0.91	0.25	125,125,125,125	7
86	OHX	A1	3767	7/7	0.91	0.24	158,158,158,158	7
87	MG	A5	4097	1/1	0.91	0.20	37,37,37,37	0
87	MG	A1	3820	1/1	0.91	0.31	47,47,47,47	0
87	MG	A5	4305	1/1	0.91	0.15	88,88,88,88	0
86	OHX	A1	3675	7/7	0.91	0.16	169,169,169,169	7
87	MG	A1	3825	1/1	0.91	0.21	47,47,47,47	0
87	MG	A5	4528	1/1	0.91	0.22	97,97,97,97	0
87	MG	A1	4392	1/1	0.91	0.25	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A6	1998	7/7	0.91	0.17	147,147,147,147	7
87	MG	A5	4104	1/1	0.91	0.29	52,52,52,52	0
86	OHX	A5	3624	7/7	0.91	0.25	82,82,82,82	7
87	MG	A5	4316	1/1	0.91	0.19	57,57,57,57	0
87	MG	A4	227	1/1	0.91	0.11	53,53,53,53	0
86	OHX	A5	3750	7/7	0.91	0.25	199,199,199,199	7
86	OHX	A5	3637	7/7	0.91	0.15	178,178,178,178	7
87	MG	A5	3916	1/1	0.91	0.28	49,49,49,49	0
86	OHX	A1	3623	7/7	0.91	0.16	147,147,147,147	7
87	MG	A1	4403	1/1	0.91	0.15	71,71,71,71	0
86	OHX	A7	212	7/7	0.91	0.44	165,165,165,165	7
86	OHX	A5	3639	7/7	0.91	0.14	157,157,157,157	7
87	MG	A1	3837	1/1	0.91	0.34	68,68,68,68	0
87	MG	A5	4116	1/1	0.91	0.17	56,56,56,56	0
86	OHX	A8	212	7/7	0.91	0.18	172,172,172,172	7
87	MG	A5	4554	1/1	0.91	0.21	86,86,86,86	0
87	MG	A1	4157	1/1	0.91	0.24	87,87,87,87	0
87	MG	A6	2300	1/1	0.91	0.27	56,56,56,56	0
87	MG	A5	4557	1/1	0.91	0.11	69,69,69,69	0
87	MG	A5	4125	1/1	0.91	0.29	67,67,67,67	0
86	OHX	A1	3679	7/7	0.91	0.26	114,114,114,114	7
87	MG	A4	240	1/1	0.91	0.25	72,72,72,72	0
87	MG	A5	3930	1/1	0.91	0.15	29,29,29,29	0
87	MG	A5	4129	1/1	0.91	0.20	94,94,94,94	0
87	MG	A6	2303	1/1	0.91	0.22	60,60,60,60	0
86	OHX	A5	3654	7/7	0.91	0.15	116,116,116,116	7
87	MG	A1	4415	1/1	0.91	0.20	85,85,85,85	0
87	MG	A1	4419	1/1	0.91	0.14	79,79,79,79	0
86	OHX	A5	3656	7/7	0.91	0.13	169,169,169,169	7
87	MG	A1	3843	1/1	0.91	0.21	46,46,46,46	0
87	MG	A5	3938	1/1	0.91	0.29	45,45,45,45	0
87	MG	A5	4345	1/1	0.91	0.18	77,77,77,77	0
86	OHX	A5	3757	7/7	0.91	0.09	192,192,192,192	7
87	MG	A1	4050	1/1	0.91	0.23	63,63,63,63	0
87	MG	A6	2313	1/1	0.91	0.30	78,78,78,78	0
87	MG	A5	3944	1/1	0.91	0.18	36,36,36,36	0
87	MG	A5	3946	1/1	0.91	0.39	41,41,41,41	0
86	OHX	A6	2005	7/7	0.91	0.23	145,145,145,145	7
87	MG	A1	4427	1/1	0.91	0.18	77,77,77,77	0
86	OHX	A8	219	7/7	0.91	0.26	166,166,166,166	7
86	OHX	DB	402	7/7	0.91	0.12	145,145,145,145	7
87	MG	A1	4055	1/1	0.91	0.22	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	A2	2223	1/1	0.91	0.31	156,156,156,156	0
87	MG	BC	402	1/1	0.91	0.14	54,54,54,54	0
86	OHX	A6	2007	7/7	0.91	0.18	164,164,164,164	7
86	OHX	A1	3738	7/7	0.91	0.23	138,138,138,138	7
86	OHX	A2	2078	7/7	0.91	0.33	169,169,169,169	7
87	MG	BC	407	1/1	0.91	0.20	58,58,58,58	0
87	MG	A5	4160	1/1	0.91	0.14	53,53,53,53	0
87	MG	A5	4367	1/1	0.91	0.26	74,74,74,74	0
86	OHX	DI	302	7/7	0.91	0.22	160,160,160,160	7
87	MG	A7	238	1/1	0.91	0.21	95,95,95,95	0
87	MG	A1	4180	1/1	0.91	0.19	79,79,79,79	0
87	MG	BF	4101	1/1	0.91	0.16	64,64,64,64	0
86	OHX	A5	3673	7/7	0.91	0.22	144,144,144,144	7
86	OHX	A5	3679	7/7	0.91	0.17	174,174,174,174	7
87	MG	A1	3858	1/1	0.91	0.39	64,64,64,64	0
87	MG	A5	3974	1/1	0.91	0.32	40,40,40,40	0
87	MG	BI	307	1/1	0.91	0.19	81,81,81,81	0
86	OHX	A6	2017	7/7	0.91	0.18	132,132,132,132	7
87	MG	A1	4187	1/1	0.91	0.22	90,90,90,90	0
86	OHX	A6	2019	7/7	0.91	0.20	127,127,127,127	7
86	OHX	Dg	201	7/7	0.91	0.28	153,153,153,153	7
87	MG	A5	3980	1/1	0.91	0.33	58,58,58,58	0
86	OHX	A2	2003	7/7	0.91	0.14	147,147,147,147	7
87	MG	A5	4387	1/1	0.91	0.15	93,93,93,93	0
86	OHX	A1	3776	7/7	0.91	0.26	123,123,123,123	7
87	MG	A1	3864	1/1	0.91	0.17	46,46,46,46	0
87	MG	A1	4310	1/1	0.91	0.36	67,67,67,67	0
87	MG	BO	203	1/1	0.91	0.22	74,74,74,74	0
87	MG	A2	2235	1/1	0.91	0.17	80,80,80,80	0
87	MG	A1	3867	1/1	0.91	0.27	61,61,61,61	0
86	OHX	A1	3777	7/7	0.91	0.22	137,137,137,137	7
87	MG	BP	203	1/1	0.91	0.32	71,71,71,71	0
86	OHX	A5	3692	7/7	0.91	0.12	170,170,170,170	7
86	OHX	A6	2079	7/7	0.91	0.16	161,161,161,161	7
87	MG	A1	4083	1/1	0.91	0.21	44,44,44,44	0
87	MG	DB	415	1/1	0.91	0.37	91,91,91,91	0
87	MG	A5	4403	1/1	0.91	0.13	81,81,81,81	0
86	OHX	A1	3714	7/7	0.91	0.31	118,118,118,118	7
87	MG	A5	3996	1/1	0.91	0.38	46,46,46,46	0
87	MG	A5	4407	1/1	0.91	0.39	95,95,95,95	0
87	MG	A5	3997	1/1	0.91	0.37	43,43,43,43	0
87	MG	A5	4410	1/1	0.91	0.25	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A1	4203	1/1	0.91	0.10	69,69,69,69	0
87	MG	A5	3999	1/1	0.91	0.23	32,32,32,32	0
87	MG	A5	4195	1/1	0.91	0.16	72,72,72,72	0
87	MG	DG	302	1/1	0.91	0.28	65,65,65,65	0
87	MG	BQ	201	1/1	0.91	0.16	65,65,65,65	0
86	OHX	A2	2014	7/7	0.91	0.20	166,166,166,166	7
86	OHX	A1	3780	7/7	0.91	0.18	136,136,136,136	7
86	OHX	A5	3700	7/7	0.91	0.32	146,146,146,146	7
87	MG	A2	2100	1/1	0.91	0.25	67,67,67,67	0
87	MG	A5	4421	1/1	0.91	0.22	55,55,55,55	0
86	OHX	A1	3641	7/7	0.91	0.21	137,137,137,137	7
87	MG	A1	4328	1/1	0.91	0.37	76,76,76,76	0
87	MG	A1	4474	1/1	0.91	0.30	72,72,72,72	0
87	MG	A5	4012	1/1	0.91	0.33	43,43,43,43	0
86	OHX	A5	3705	7/7	0.91	0.22	152,152,152,152	7
86	OHX	A1	3747	7/7	0.91	0.21	118,118,118,118	7
87	MG	A5	4429	1/1	0.91	0.13	58,58,58,58	0
87	MG	A5	3411	1/1	0.91	0.21	82,82,82,82	0
87	MG	DP	203	1/1	0.91	0.32	37,37,37,37	0
86	OHX	A5	3707	7/7	0.91	0.34	135,135,135,135	7
87	MG	DP	207	1/1	0.91	0.24	64,64,64,64	0
86	OHX	A6	2037	7/7	0.91	0.22	138,138,138,138	7
87	MG	BY	201	1/1	0.91	0.13	56,56,56,56	0
86	OHX	A5	3710	7/7	0.91	0.15	132,132,132,132	7
87	MG	A5	3834	1/1	0.91	0.26	59,59,59,59	0
87	MG	A2	2177	1/1	0.91	0.25	83,83,83,83	0
87	MG	A6	2225	1/1	0.91	0.17	59,59,59,59	0
87	MG	A5	3839	1/1	0.91	0.15	48,48,48,48	0
86	OHX	A1	3643	7/7	0.91	0.15	153,153,153,153	7
87	MG	A6	2227	1/1	0.91	0.12	67,67,67,67	0
87	MG	A5	4447	1/1	0.91	0.18	61,61,61,61	0
86	OHX	A6	2041	7/7	0.91	0.24	145,145,145,145	7
87	MG	A6	2229	1/1	0.91	0.27	65,65,65,65	0
87	MG	A2	2180	1/1	0.91	0.29	101,101,101,101	0
86	OHX	A5	3713	7/7	0.91	0.25	122,122,122,122	7
87	MG	Da	204	1/1	0.91	0.21	52,52,52,52	0
86	OHX	A5	3715	7/7	0.91	0.25	100,100,100,100	7
87	MG	Be	202	1/1	0.91	0.15	67,67,67,67	0
87	MG	A5	4458	1/1	0.91	0.22	76,76,76,76	0
86	OHX	A6	2042	7/7	0.91	0.19	169,169,169,169	7
86	OHX	A2	2042	7/7	0.91	0.15	155,155,155,155	7
86	OHX	A2	1988	7/7	0.91	0.21	189,189,189,189	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	Bj	108	1/1	0.91	0.28	66,66,66,66	0
86	OHX	A6	2045	7/7	0.91	0.24	124,124,124,124	7
87	MG	A1	4351	1/1	0.91	0.11	97,97,97,97	0
86	OHX	A5	3723	7/7	0.91	0.17	180,180,180,180	7
86	OHX	A1	3751	7/7	0.91	0.13	189,189,189,189	7
86	OHX	A5	3797	7/7	0.91	0.30	130,130,130,130	7
86	OHX	A1	3691	7/7	0.91	0.25	175,175,175,175	7
86	OHX	A2	2008	7/7	0.91	0.20	135,135,135,135	7
87	MG	A1	4116	1/1	0.91	0.09	65,65,65,65	0
87	MG	A5	4242	1/1	0.92	0.22	65,65,65,65	0
87	MG	A5	4047	1/1	0.92	0.28	57,57,57,57	0
86	OHX	A1	3690	7/7	0.92	0.25	178,178,178,178	7
86	OHX	A2	1999	7/7	0.92	0.16	168,168,168,168	7
87	MG	A1	4332	1/1	0.92	0.25	74,74,74,74	0
87	MG	A5	3859	1/1	0.92	0.17	50,50,50,50	0
87	MG	A5	4481	1/1	0.92	0.20	60,60,60,60	0
86	OHX	A1	3694	7/7	0.92	0.26	131,131,131,131	7
86	OHX	A1	3695	7/7	0.92	0.13	163,163,163,163	7
87	MG	A5	4484	1/1	0.92	0.21	89,89,89,89	0
86	OHX	A1	3573	7/7	0.92	0.24	120,120,120,120	7
87	MG	A1	4338	1/1	0.92	0.18	84,84,84,84	0
86	OHX	A1	3644	7/7	0.92	0.20	139,139,139,139	7
87	MG	A5	4057	1/1	0.92	0.26	82,82,82,82	0
86	OHX	A1	3647	7/7	0.92	0.17	129,129,129,129	7
87	MG	A5	4059	1/1	0.92	0.43	71,71,71,71	0
87	MG	A1	3979	1/1	0.92	0.31	52,52,52,52	0
87	MG	A1	4091	1/1	0.92	0.33	65,65,65,65	0
87	MG	A1	4093	1/1	0.92	0.25	55,55,55,55	0
87	MG	A5	4494	1/1	0.92	0.21	111,111,111,111	0
86	OHX	A6	2038	7/7	0.92	0.21	169,169,169,169	7
86	OHX	A2	2016	7/7	0.92	0.15	156,156,156,156	7
87	MG	A5	4065	1/1	0.92	0.22	68,68,68,68	0
86	OHX	A3	211	7/7	0.92	0.21	137,137,137,137	7
87	MG	A1	4494	1/1	0.92	0.10	87,87,87,87	0
87	MG	A5	4500	1/1	0.92	0.15	82,82,82,82	0
86	OHX	A5	3709	7/7	0.92	0.11	171,171,171,171	7
86	OHX	A1	3740	7/7	0.92	0.27	107,107,107,107	7
86	OHX	A1	3703	7/7	0.92	0.25	93,93,93,93	7
86	OHX	A4	211	7/7	0.92	0.22	108,108,108,108	7
87	MG	A1	4500	1/1	0.92	0.14	106,106,106,106	0
86	OHX	A1	3743	7/7	0.92	0.33	148,148,148,148	7
87	MG	A5	4280	1/1	0.92	0.20	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4283	1/1	0.92	0.17	79,79,79,79	0
86	OHX	A2	2068	7/7	0.92	0.28	177,177,177,177	7
86	OHX	A1	3660	7/7	0.92	0.24	137,137,137,137	7
86	OHX	A2	2017	7/7	0.92	0.14	186,186,186,186	7
87	MG	A6	2109	1/1	0.92	0.32	54,54,54,54	0
86	OHX	A1	3606	7/7	0.92	0.19	132,132,132,132	7
86	OHX	A2	1947	7/7	0.92	0.15	157,157,157,157	7
86	OHX	A1	3670	7/7	0.92	0.18	152,152,152,152	7
87	MG	A2	2195	1/1	0.92	0.20	90,90,90,90	0
86	OHX	A1	3711	7/7	0.92	0.26	155,155,155,155	7
86	OHX	CP	201	7/7	0.92	0.10	177,177,177,177	7
86	OHX	A1	3673	7/7	0.92	0.21	154,154,154,154	7
87	MG	A5	4296	1/1	0.92	0.15	54,54,54,54	0
87	MG	A1	4234	1/1	0.92	0.42	82,82,82,82	0
87	MG	A5	4298	1/1	0.92	0.18	106,106,106,106	0
87	MG	A3	218	1/1	0.92	0.20	46,46,46,46	0
87	MG	A1	4235	1/1	0.92	0.20	62,62,62,62	0
87	MG	A5	4532	1/1	0.92	0.22	95,95,95,95	0
87	MG	A5	4533	1/1	0.92	0.20	83,83,83,83	0
86	OHX	CY	202	7/7	0.92	0.13	130,130,130,130	7
86	OHX	A5	3729	7/7	0.92	0.16	165,165,165,165	7
87	MG	A5	4094	1/1	0.92	0.23	69,69,69,69	0
86	OHX	A1	3608	7/7	0.92	0.13	160,160,160,160	7
87	MG	A5	4538	1/1	0.92	0.17	67,67,67,67	0
87	MG	A6	2124	1/1	0.92	0.10	55,55,55,55	0
87	MG	A5	4541	1/1	0.92	0.26	107,107,107,107	0
86	OHX	A5	3403	7/7	0.92	0.20	171,171,171,171	7
87	MG	A6	2279	1/1	0.92	0.15	81,81,81,81	0
87	MG	A5	4544	1/1	0.92	0.27	79,79,79,79	0
86	OHX	A5	3405	7/7	0.92	0.31	118,118,118,118	7
86	OHX	BP	202	7/7	0.92	0.15	139,139,139,139	7
87	MG	A5	3910	1/1	0.92	0.37	57,57,57,57	0
87	MG	A1	4120	1/1	0.92	0.13	26,26,26,26	0
87	MG	A6	2283	1/1	0.92	0.12	75,75,75,75	0
87	MG	A6	2284	1/1	0.92	0.25	107,107,107,107	0
87	MG	A1	4122	1/1	0.92	0.25	57,57,57,57	0
87	MG	A1	4377	1/1	0.92	0.30	54,54,54,54	0
87	MG	A1	3823	1/1	0.92	0.24	60,60,60,60	0
86	OHX	A1	3609	7/7	0.92	0.20	122,122,122,122	7
87	MG	A5	4110	1/1	0.92	0.28	63,63,63,63	0
87	MG	A1	4381	1/1	0.92	0.18	65,65,65,65	0
87	MG	A1	3916	1/1	0.92	0.42	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3518	7/7	0.92	0.18	159,159,159,159	7
87	MG	A1	4128	1/1	0.92	0.18	63,63,63,63	0
87	MG	A1	4017	1/1	0.92	0.34	48,48,48,48	0
87	MG	A1	4130	1/1	0.92	0.26	69,69,69,69	0
87	MG	A5	4117	1/1	0.92	0.20	49,49,49,49	0
87	MG	A5	4573	1/1	0.92	0.27	56,56,56,56	0
87	MG	A4	224	1/1	0.92	0.17	30,30,30,30	0
87	MG	A5	4120	1/1	0.92	0.10	49,49,49,49	0
87	MG	A1	4254	1/1	0.92	0.28	72,72,72,72	0
87	MG	A1	4389	1/1	0.92	0.19	46,46,46,46	0
87	MG	A5	4579	1/1	0.92	0.19	57,57,57,57	0
86	OHX	A5	3551	7/7	0.92	0.16	142,142,142,142	7
86	OHX	A5	3584	7/7	0.92	0.21	119,119,119,119	7
87	MG	A1	3828	1/1	0.92	0.21	43,43,43,43	0
87	MG	A7	215	1/1	0.92	0.20	46,46,46,46	0
86	OHX	A5	3742	7/7	0.92	0.27	143,143,143,143	7
87	MG	A5	3934	1/1	0.92	0.17	61,61,61,61	0
87	MG	A1	4022	1/1	0.92	0.18	40,40,40,40	0
87	MG	A1	3830	1/1	0.92	0.30	60,60,60,60	0
87	MG	A1	4399	1/1	0.92	0.14	85,85,85,85	0
86	OHX	A5	3585	7/7	0.92	0.20	163,163,163,163	7
87	MG	A7	222	1/1	0.92	0.24	94,94,94,94	0
86	OHX	A1	3677	7/7	0.92	0.26	115,115,115,115	7
87	MG	A5	4136	1/1	0.92	0.08	46,46,46,46	0
87	MG	A1	4028	1/1	0.92	0.29	28,28,28,28	0
86	OHX	A5	3604	7/7	0.92	0.23	113,113,113,113	7
87	MG	A1	4405	1/1	0.92	0.12	61,61,61,61	0
87	MG	A1	3834	1/1	0.92	0.07	44,44,44,44	0
86	OHX	A5	3612	7/7	0.92	0.23	147,147,147,147	7
87	MG	A1	4408	1/1	0.92	0.21	81,81,81,81	0
87	MG	A5	4145	1/1	0.92	0.22	57,57,57,57	0
87	MG	A4	244	1/1	0.92	0.27	61,61,61,61	0
87	MG	A5	4147	1/1	0.92	0.18	63,63,63,63	0
87	MG	A1	4267	1/1	0.92	0.14	82,82,82,82	0
87	MG	A1	4145	1/1	0.92	0.14	54,54,54,54	0
87	MG	A1	4034	1/1	0.92	0.16	46,46,46,46	0
86	OHX	A6	1986	7/7	0.92	0.18	165,165,165,165	7
87	MG	A5	3956	1/1	0.92	0.23	39,39,39,39	0
87	MG	A1	4036	1/1	0.92	0.42	71,71,71,71	0
87	MG	A1	4416	1/1	0.92	0.25	57,57,57,57	0
86	OHX	A5	3622	7/7	0.92	0.13	136,136,136,136	7
87	MG	A5	3963	1/1	0.92	0.35	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A1	3794	7/7	0.92	0.28	150,150,150,150	7
87	MG	A1	3840	1/1	0.92	0.31	59,59,59,59	0
87	MG	A5	4376	1/1	0.92	0.13	67,67,67,67	0
87	MG	A1	4423	1/1	0.92	0.15	85,85,85,85	0
87	MG	BB	406	1/1	0.92	0.19	59,59,59,59	0
86	OHX	A5	3630	7/7	0.92	0.17	128,128,128,128	7
86	OHX	A1	3615	7/7	0.92	0.26	139,139,139,139	7
86	OHX	A1	3616	7/7	0.92	0.29	117,117,117,117	7
87	MG	A1	4044	1/1	0.92	0.24	44,44,44,44	0
87	MG	DA	304	1/1	0.92	0.21	69,69,69,69	0
87	MG	A1	4430	1/1	0.92	0.15	67,67,67,67	0
86	OHX	A1	3618	7/7	0.92	0.23	158,158,158,158	7
86	OHX	A6	2065	7/7	0.92	0.22	156,156,156,156	7
86	OHX	A5	3648	7/7	0.92	0.19	111,111,111,111	7
87	MG	A1	4160	1/1	0.92	0.24	70,70,70,70	0
87	MG	DB	409	1/1	0.92	0.14	56,56,56,56	0
86	OHX	A8	220	7/7	0.92	0.27	111,111,111,111	7
86	OHX	A2	2011	7/7	0.92	0.20	154,154,154,154	7
86	OHX	A6	2001	7/7	0.92	0.16	149,149,149,149	7
87	MG	A1	4438	1/1	0.92	0.13	82,82,82,82	0
87	MG	DC	403	1/1	0.92	0.13	65,65,65,65	0
87	MG	A2	2151	1/1	0.92	0.08	49,49,49,49	0
86	OHX	A2	1995	7/7	0.92	0.15	171,171,171,171	7
87	MG	A1	4167	1/1	0.92	0.25	66,66,66,66	0
86	OHX	A1	3627	7/7	0.92	0.21	130,130,130,130	7
87	MG	A1	3855	1/1	0.92	0.20	40,40,40,40	0
87	MG	BN	305	1/1	0.92	0.32	56,56,56,56	0
86	OHX	DH	201	7/7	0.92	0.13	142,142,142,142	7
87	MG	A1	4174	1/1	0.92	0.22	57,57,57,57	0
86	OHX	DI	301	7/7	0.92	0.20	118,118,118,118	7
86	OHX	A5	3762	7/7	0.92	0.21	153,153,153,153	7
87	MG	BO	206	1/1	0.92	0.14	69,69,69,69	0
87	MG	BO	207	1/1	0.92	0.23	56,56,56,56	0
86	OHX	A5	3666	7/7	0.92	0.19	127,127,127,127	7
87	MG	A6	2207	1/1	0.92	0.11	57,57,57,57	0
86	OHX	A5	3764	7/7	0.92	0.30	120,120,120,120	7
87	MG	A5	4001	1/1	0.92	0.42	48,48,48,48	0
87	MG	Ca	201	1/1	0.92	0.15	67,67,67,67	0
86	OHX	A2	2022	7/7	0.92	0.20	138,138,138,138	7
87	MG	A5	4197	1/1	0.92	0.21	84,84,84,84	0
87	MG	Ch	301	1/1	0.92	0.12	44,44,44,44	0
87	MG	BP	204	1/1	0.92	0.38	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4200	1/1	0.92	0.16	70,70,70,70	0
87	MG	A5	3409	1/1	0.92	0.23	45,45,45,45	0
87	MG	A5	4205	1/1	0.92	0.35	79,79,79,79	0
86	OHX	A1	3764	7/7	0.92	0.17	159,159,159,159	7
87	MG	A5	4008	1/1	0.92	0.37	42,42,42,42	0
87	MG	A1	4456	1/1	0.92	0.12	76,76,76,76	0
86	OHX	A6	2009	7/7	0.92	0.20	136,136,136,136	7
87	MG	A1	4309	1/1	0.92	0.23	99,99,99,99	0
86	OHX	A2	2074	7/7	0.92	0.12	191,191,191,191	7
86	OHX	A6	2015	7/7	0.92	0.15	159,159,159,159	7
87	MG	A5	4017	1/1	0.92	0.50	62,62,62,62	0
87	MG	A5	4436	1/1	0.92	0.33	90,90,90,90	0
87	MG	A5	4020	1/1	0.92	0.35	33,33,33,33	0
87	MG	A1	4185	1/1	0.92	0.22	65,65,65,65	0
87	MG	A1	3960	1/1	0.92	0.25	54,54,54,54	0
87	MG	A5	3837	1/1	0.92	0.32	58,58,58,58	0
87	MG	A1	4070	1/1	0.92	0.32	76,76,76,76	0
87	MG	A5	4446	1/1	0.92	0.18	64,64,64,64	0
86	OHX	A5	3681	7/7	0.92	0.27	112,112,112,112	7
86	OHX	A1	3766	7/7	0.92	0.26	135,135,135,135	7
87	MG	A1	4073	1/1	0.92	0.13	57,57,57,57	0
87	MG	A1	4191	1/1	0.92	0.13	58,58,58,58	0
86	OHX	A2	1997	7/7	0.92	0.20	121,121,121,121	7
87	MG	A5	3846	1/1	0.92	0.16	37,37,37,37	0
86	OHX	A6	2021	7/7	0.92	0.18	131,131,131,131	7
87	MG	A5	3848	1/1	0.92	0.35	77,77,77,77	0
87	MG	A5	4461	1/1	0.92	0.23	62,62,62,62	0
87	MG	Dg	202	1/1	0.92	0.12	50,50,50,50	0
87	MG	A1	4077	1/1	0.92	0.33	77,77,77,77	0
87	MG	A6	2230	1/1	0.92	0.14	86,86,86,86	0
86	OHX	A5	3774	7/7	0.92	0.24	148,148,148,148	7
87	MG	A5	4465	1/1	0.92	0.16	62,62,62,62	0
86	OHX	A1	3689	7/7	0.92	0.21	99,99,99,99	7
87	MG	A5	3853	1/1	0.92	0.22	67,67,67,67	0
86	OHX	A1	3769	7/7	0.92	0.24	142,142,142,142	7
87	MG	A5	4472	1/1	0.92	0.24	75,75,75,75	0
87	MG	A5	4046	1/1	0.92	0.13	39,39,39,39	0
86	OHX	A2	1946	7/7	0.93	0.12	156,156,156,156	7
87	MG	A5	3949	1/1	0.93	0.23	37,37,37,37	0
87	MG	BP	206	1/1	0.93	0.31	86,86,86,86	0
86	OHX	A5	3687	7/7	0.93	0.23	109,109,109,109	7
86	OHX	A2	2030	7/7	0.93	0.27	155,155,155,155	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4119	1/1	0.93	0.26	65,65,65,65	0
87	MG	AL	202	1/1	0.93	0.17	78,78,78,78	0
87	MG	A5	4308	1/1	0.93	0.26	52,52,52,52	0
87	MG	A1	4346	1/1	0.93	0.08	53,53,53,53	0
87	MG	A1	4002	1/1	0.93	0.25	37,37,37,37	0
87	MG	A6	2202	1/1	0.93	0.41	71,71,71,71	0
86	OHX	Bj	103	7/7	0.93	0.24	138,138,138,138	7
87	MG	A5	3959	1/1	0.93	0.42	61,61,61,61	0
87	MG	A5	4514	1/1	0.93	0.37	98,98,98,98	0
86	OHX	A6	2096	7/7	0.93	0.17	156,156,156,156	7
86	OHX	A1	3601	7/7	0.93	0.13	184,184,184,184	7
87	MG	A1	3902	1/1	0.93	0.19	47,47,47,47	0
86	OHX	A1	3651	7/7	0.93	0.16	131,131,131,131	7
87	MG	A1	3905	1/1	0.93	0.10	19,19,19,19	0
87	MG	A5	4133	1/1	0.93	0.08	54,54,54,54	0
87	MG	A5	4523	1/1	0.93	0.18	65,65,65,65	0
87	MG	A5	3968	1/1	0.93	0.22	50,50,50,50	0
86	OHX	A1	3692	7/7	0.93	0.23	124,124,124,124	7
86	OHX	A2	2055	7/7	0.93	0.20	116,116,116,116	7
86	OHX	A1	3605	7/7	0.93	0.12	166,166,166,166	7
86	OHX	A5	3783	7/7	0.93	0.19	154,154,154,154	7
86	OHX	A6	2053	7/7	0.93	0.25	123,123,123,123	7
86	OHX	A6	1993	7/7	0.93	0.16	129,129,129,129	7
86	OHX	CJ	201	7/7	0.93	0.27	105,105,105,105	7
87	MG	A1	4127	1/1	0.93	0.15	65,65,65,65	0
87	MG	A6	2217	1/1	0.93	0.20	87,87,87,87	0
87	MG	A1	3405	1/1	0.93	0.11	71,71,71,71	0
86	OHX	A6	1996	7/7	0.93	0.18	148,148,148,148	7
86	OHX	A2	2031	7/7	0.93	0.12	140,140,140,140	7
86	OHX	A1	3661	7/7	0.93	0.19	118,118,118,118	7
87	MG	A2	2196	1/1	0.93	0.32	131,131,131,131	0
87	MG	A1	4245	1/1	0.93	0.23	73,73,73,73	0
86	OHX	CY	201	7/7	0.93	0.17	121,121,121,121	7
87	MG	A5	3986	1/1	0.93	0.17	53,53,53,53	0
87	MG	A5	4342	1/1	0.93	0.10	50,50,50,50	0
87	MG	Bj	105	1/1	0.93	0.23	64,64,64,64	0
87	MG	A1	3821	1/1	0.93	0.40	71,71,71,71	0
87	MG	A1	3822	1/1	0.93	0.28	50,50,50,50	0
86	OHX	A1	3662	7/7	0.93	0.25	119,119,119,119	7
87	MG	A5	4158	1/1	0.93	0.24	62,62,62,62	0
87	MG	A1	4375	1/1	0.93	0.15	51,51,51,51	0
86	OHX	A2	1982	7/7	0.93	0.17	125,125,125,125	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A2	1983	7/7	0.93	0.13	166,166,166,166	7
87	MG	A5	3836	1/1	0.93	0.44	66,66,66,66	0
87	MG	A1	4378	1/1	0.93	0.25	51,51,51,51	0
86	OHX	Ag	401	7/7	0.93	0.10	167,167,167,167	7
87	MG	A5	4559	1/1	0.93	0.18	74,74,74,74	0
87	MG	A5	4560	1/1	0.93	0.26	108,108,108,108	0
87	MG	A5	4354	1/1	0.93	0.15	60,60,60,60	0
87	MG	Bo	203	1/1	0.93	0.23	79,79,79,79	0
87	MG	A5	4563	1/1	0.93	0.31	89,89,89,89	0
87	MG	A5	4564	1/1	0.93	0.12	79,79,79,79	0
86	OHX	A1	3668	7/7	0.93	0.17	151,151,151,151	7
86	OHX	A1	3669	7/7	0.93	0.21	130,130,130,130	7
87	MG	A5	4568	1/1	0.93	0.27	64,64,64,64	0
87	MG	A5	3843	1/1	0.93	0.21	50,50,50,50	0
86	OHX	A6	2010	7/7	0.93	0.11	181,181,181,181	7
86	OHX	A5	3541	7/7	0.93	0.25	113,113,113,113	7
86	OHX	A6	2013	7/7	0.93	0.25	180,180,180,180	7
86	OHX	A5	3557	7/7	0.93	0.17	154,154,154,154	7
86	OHX	A1	3610	7/7	0.93	0.20	121,121,121,121	7
87	MG	A3	225	1/1	0.93	0.12	61,61,61,61	0
86	OHX	A5	3804	7/7	0.93	0.23	162,162,162,162	7
87	MG	A1	4388	1/1	0.93	0.18	78,78,78,78	0
86	OHX	A2	1987	7/7	0.93	0.22	147,147,147,147	7
87	MG	A5	4013	1/1	0.93	0.30	44,44,44,44	0
86	OHX	A5	3726	7/7	0.93	0.10	135,135,135,135	7
87	MG	A5	4373	1/1	0.93	0.20	74,74,74,74	0
87	MG	A6	2112	1/1	0.93	0.38	64,64,64,64	0
87	MG	A1	4152	1/1	0.93	0.19	34,34,34,34	0
86	OHX	A1	3781	7/7	0.93	0.23	122,122,122,122	7
87	MG	A5	4185	1/1	0.93	0.16	49,49,49,49	0
87	MG	A5	4378	1/1	0.93	0.32	75,75,75,75	0
87	MG	A5	4018	1/1	0.93	0.32	40,40,40,40	0
86	OHX	A5	3603	7/7	0.93	0.25	107,107,107,107	7
86	OHX	A2	2024	7/7	0.93	0.21	174,174,174,174	7
86	OHX	A5	3609	7/7	0.93	0.11	153,153,153,153	7
87	MG	A5	4384	1/1	0.93	0.27	77,77,77,77	0
87	MG	A5	3861	1/1	0.93	0.23	65,65,65,65	0
86	OHX	A1	3617	7/7	0.93	0.16	144,144,144,144	7
87	MG	A5	3863	1/1	0.93	0.43	51,51,51,51	0
86	OHX	A5	3613	7/7	0.93	0.20	137,137,137,137	7
87	MG	A4	221	1/1	0.93	0.20	43,43,43,43	0
87	MG	A1	3942	1/1	0.93	0.31	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A6	2072	7/7	0.93	0.32	133,133,133,133	7
87	MG	A5	4394	1/1	0.93	0.26	73,73,73,73	0
87	MG	A5	4031	1/1	0.93	0.37	39,39,39,39	0
87	MG	A5	4032	1/1	0.93	0.43	41,41,41,41	0
86	OHX	A5	3620	7/7	0.93	0.23	113,113,113,113	7
87	MG	A5	4201	1/1	0.93	0.10	49,49,49,49	0
87	MG	A5	4202	1/1	0.93	0.15	45,45,45,45	0
86	OHX	A1	3453	7/7	0.93	0.33	134,134,134,134	0
87	MG	A8	225	1/1	0.93	0.29	58,58,58,58	0
86	OHX	A5	3820	7/7	0.93	0.23	80,80,80,80	7
87	MG	A1	3849	1/1	0.93	0.35	56,56,56,56	0
86	OHX	A2	2006	7/7	0.93	0.18	162,162,162,162	7
87	MG	A1	4166	1/1	0.93	0.13	74,74,74,74	0
87	MG	A1	4061	1/1	0.93	0.23	35,35,35,35	0
86	OHX	A5	3626	7/7	0.93	0.24	147,147,147,147	7
87	MG	A1	4413	1/1	0.93	0.19	106,106,106,106	0
87	MG	A5	4411	1/1	0.93	0.27	94,94,94,94	0
87	MG	A1	4169	1/1	0.93	0.17	80,80,80,80	0
87	MG	A1	4170	1/1	0.93	0.13	50,50,50,50	0
86	OHX	A5	3629	7/7	0.93	0.26	100,100,100,100	7
86	OHX	A7	207	7/7	0.93	0.19	145,145,145,145	7
87	MG	A4	239	1/1	0.93	0.20	70,70,70,70	0
87	MG	A5	3884	1/1	0.93	0.24	54,54,54,54	0
86	OHX	A1	3715	7/7	0.93	0.22	120,120,120,120	7
87	MG	A5	4221	1/1	0.93	0.24	88,88,88,88	0
86	OHX	A5	3634	7/7	0.93	0.16	130,130,130,130	7
86	OHX	A4	212	7/7	0.93	0.27	118,118,118,118	7
86	OHX	A6	2029	7/7	0.93	0.23	141,141,141,141	7
86	OHX	A1	3542	7/7	0.93	0.15	159,159,159,159	7
86	OHX	A5	3645	7/7	0.93	0.16	141,141,141,141	7
87	MG	A5	3891	1/1	0.93	0.17	50,50,50,50	0
87	MG	A4	247	1/1	0.93	0.39	56,56,56,56	0
86	OHX	A5	3749	7/7	0.93	0.11	178,178,178,178	7
86	OHX	A1	3680	7/7	0.93	0.20	127,127,127,127	7
86	OHX	A1	3626	7/7	0.93	0.15	162,162,162,162	7
86	OHX	A5	3650	7/7	0.93	0.22	133,133,133,133	7
87	MG	DC	407	1/1	0.93	0.15	75,75,75,75	0
86	OHX	A5	3653	7/7	0.93	0.24	130,130,130,130	7
86	OHX	DA	302	7/7	0.93	0.21	157,157,157,157	7
87	MG	A6	2153	1/1	0.93	0.37	54,54,54,54	0
87	MG	A5	4239	1/1	0.93	0.10	44,44,44,44	0
87	MG	DD	306	1/1	0.93	0.13	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A1	3548	7/7	0.93	0.18	136,136,136,136	7
86	OHX	DC	401	7/7	0.93	0.09	148,148,148,148	7
86	OHX	A6	2036	7/7	0.93	0.25	122,122,122,122	7
87	MG	DF	303	1/1	0.93	0.29	73,73,73,73	0
86	OHX	A1	3557	7/7	0.93	0.19	121,121,121,121	7
87	MG	A5	4443	1/1	0.93	0.25	64,64,64,64	0
86	OHX	A5	3661	7/7	0.93	0.14	134,134,134,134	7
87	MG	A5	4445	1/1	0.93	0.26	65,65,65,65	0
86	OHX	A5	3662	7/7	0.93	0.19	148,148,148,148	7
87	MG	A6	2161	1/1	0.93	0.46	55,55,55,55	0
87	MG	A5	4448	1/1	0.93	0.14	64,64,64,64	0
87	MG	A6	2162	1/1	0.93	0.48	63,63,63,63	0
86	OHX	A5	3663	7/7	0.93	0.25	136,136,136,136	7
86	OHX	A1	3684	7/7	0.93	0.12	143,143,143,143	7
87	MG	A1	4315	1/1	0.93	0.22	62,62,62,62	0
87	MG	A6	2305	1/1	0.93	0.12	76,76,76,76	0
87	MG	A5	4456	1/1	0.93	0.43	79,79,79,79	0
86	OHX	BD	301	7/7	0.93	0.18	138,138,138,138	7
87	MG	A6	2307	1/1	0.93	0.19	94,94,94,94	0
87	MG	A2	2250	1/1	0.93	0.04	97,97,97,97	0
86	OHX	A5	3668	7/7	0.93	0.24	163,163,163,163	7
87	MG	A5	4259	1/1	0.93	0.10	56,56,56,56	0
87	MG	DP	208	1/1	0.93	0.17	42,42,42,42	0
87	MG	A1	4320	1/1	0.93	0.28	59,59,59,59	0
87	MG	A5	3922	1/1	0.93	0.16	54,54,54,54	0
87	MG	DS	201	1/1	0.93	0.19	61,61,61,61	0
86	OHX	A6	2040	7/7	0.93	0.24	87,87,87,87	7
87	MG	A5	4468	1/1	0.93	0.15	73,73,73,73	0
87	MG	A5	4088	1/1	0.93	0.09	41,41,41,41	0
87	MG	A1	4095	1/1	0.93	0.24	56,56,56,56	0
87	MG	BI	306	1/1	0.93	0.12	32,32,32,32	0
87	MG	DV	203	1/1	0.93	0.18	65,65,65,65	0
86	OHX	DQ	201	7/7	0.93	0.23	147,147,147,147	7
87	MG	A5	4268	1/1	0.93	0.17	96,96,96,96	0
87	MG	A1	4202	1/1	0.93	0.18	67,67,67,67	0
86	OHX	A2	2000	7/7	0.93	0.18	140,140,140,140	7
86	OHX	A1	3760	7/7	0.93	0.20	136,136,136,136	7
86	OHX	A5	3674	7/7	0.93	0.29	100,100,100,100	7
87	MG	A1	3884	1/1	0.93	0.24	64,64,64,64	0
87	MG	A2	2089	1/1	0.93	0.26	49,49,49,49	0
87	MG	Db	102	1/1	0.93	0.24	70,70,70,70	0
87	MG	A1	4208	1/1	0.93	0.21	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4282	1/1	0.93	0.15	52,52,52,52	0
87	MG	A1	4209	1/1	0.93	0.29	76,76,76,76	0
87	MG	A1	4333	1/1	0.93	0.23	68,68,68,68	0
86	OHX	A5	3678	7/7	0.93	0.23	111,111,111,111	7
87	MG	A1	4335	1/1	0.93	0.15	86,86,86,86	0
87	MG	A1	4212	1/1	0.93	0.18	67,67,67,67	0
87	MG	A5	4288	1/1	0.93	0.23	49,49,49,49	0
86	OHX	A1	3566	7/7	0.93	0.20	122,122,122,122	7
86	OHX	A2	2009	7/7	0.93	0.12	144,144,144,144	7
87	MG	A5	3942	1/1	0.93	0.33	38,38,38,38	0
87	MG	Dp	101	1/1	0.93	0.11	54,54,54,54	0
86	OHX	A6	2092	7/7	0.93	0.23	182,182,182,182	7
87	MG	Dp	103	1/1	0.93	0.15	72,72,72,72	0
87	MG	A1	4106	1/1	0.93	0.33	69,69,69,69	0
87	MG	A5	3945	1/1	0.93	0.17	56,56,56,56	0
86	OHX	A5	3683	7/7	0.93	0.17	119,119,119,119	7
87	MG	A6	2193	1/1	0.93	0.14	75,75,75,75	0
87	MG	A5	4516	1/1	0.94	0.29	74,74,74,74	0
87	MG	A1	3886	1/1	0.94	0.35	72,72,72,72	0
87	MG	BQ	204	1/1	0.94	0.23	99,99,99,99	0
87	MG	A1	4222	1/1	0.94	0.16	73,73,73,73	0
87	MG	A5	4325	1/1	0.94	0.44	57,57,57,57	0
86	OHX	A5	3642	7/7	0.94	0.16	118,118,118,118	7
86	OHX	A5	3643	7/7	0.94	0.12	150,150,150,150	7
87	MG	A5	4141	1/1	0.94	0.21	66,66,66,66	0
86	OHX	A5	3644	7/7	0.94	0.20	135,135,135,135	7
87	MG	A1	3996	1/1	0.94	0.44	48,48,48,48	0
87	MG	A1	3997	1/1	0.94	0.29	40,40,40,40	0
87	MG	A1	4350	1/1	0.94	0.21	76,76,76,76	0
86	OHX	A2	2010	7/7	0.94	0.20	119,119,119,119	7
87	MG	A1	4000	1/1	0.94	0.12	18,18,18,18	0
86	OHX	A5	3646	7/7	0.94	0.14	135,135,135,135	7
87	MG	Ch	302	1/1	0.94	0.11	53,53,53,53	0
86	OHX	A1	3569	7/7	0.94	0.12	144,144,144,144	7
86	OHX	A1	3629	7/7	0.94	0.18	128,128,128,128	7
86	OHX	A1	3630	7/7	0.94	0.17	119,119,119,119	7
87	MG	Ba	204	1/1	0.94	0.17	74,74,74,74	0
87	MG	A5	3987	1/1	0.94	0.41	59,59,59,59	0
86	OHX	A1	3631	7/7	0.94	0.14	141,141,141,141	7
87	MG	A5	4539	1/1	0.94	0.21	77,77,77,77	0
86	OHX	A1	3633	7/7	0.94	0.24	101,101,101,101	7
87	MG	A6	2224	1/1	0.94	0.06	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A1	4237	1/1	0.94	0.11	46,46,46,46	0
87	MG	A5	3832	1/1	0.94	0.13	35,35,35,35	0
87	MG	A5	3833	1/1	0.94	0.36	54,54,54,54	0
86	OHX	A1	3635	7/7	0.94	0.21	84,84,84,84	7
86	OHX	A5	3657	7/7	0.94	0.23	83,83,83,83	7
86	OHX	A2	1986	7/7	0.94	0.17	124,124,124,124	7
87	MG	AL	203	1/1	0.94	0.16	80,80,80,80	0
87	MG	Bj	104	1/1	0.94	0.25	86,86,86,86	0
86	OHX	A5	3660	7/7	0.94	0.19	108,108,108,108	7
86	OHX	Dh	201	7/7	0.94	0.16	129,129,129,129	7
86	OHX	A6	2035	7/7	0.94	0.12	129,129,129,129	7
87	MG	A1	4367	1/1	0.94	0.12	69,69,69,69	0
86	OHX	A2	2020	7/7	0.94	0.19	118,118,118,118	7
87	MG	A5	4558	1/1	0.94	0.14	63,63,63,63	0
86	OHX	A1	3580	7/7	0.94	0.14	149,149,149,149	7
86	OHX	A1	3582	7/7	0.94	0.22	92,92,92,92	7
87	MG	A2	2093	1/1	0.94	0.18	47,47,47,47	0
86	OHX	A1	3583	7/7	0.94	0.19	147,147,147,147	7
87	MG	A1	4373	1/1	0.94	0.29	56,56,56,56	0
87	MG	A5	4010	1/1	0.94	0.32	50,50,50,50	0
87	MG	A6	2241	1/1	0.94	0.19	112,112,112,112	0
87	MG	A1	4023	1/1	0.94	0.31	42,42,42,42	0
86	OHX	A1	3742	7/7	0.94	0.23	140,140,140,140	7
86	OHX	A1	3646	7/7	0.94	0.17	110,110,110,110	7
86	OHX	A1	3587	7/7	0.94	0.13	147,147,147,147	7
86	OHX	A5	3672	7/7	0.94	0.18	142,142,142,142	7
87	MG	A5	3856	1/1	0.94	0.24	54,54,54,54	0
86	OHX	A1	3648	7/7	0.94	0.17	102,102,102,102	7
86	OHX	A1	3649	7/7	0.94	0.19	167,167,167,167	7
87	MG	A1	4031	1/1	0.94	0.20	32,32,32,32	0
86	OHX	A5	3676	7/7	0.94	0.21	155,155,155,155	7
87	MG	A5	4379	1/1	0.94	0.19	45,45,45,45	0
86	OHX	A2	1965	7/7	0.94	0.18	138,138,138,138	7
86	OHX	A2	1980	7/7	0.94	0.17	152,152,152,152	7
86	OHX	A2	2007	7/7	0.94	0.25	146,146,146,146	7
86	OHX	A1	3659	7/7	0.94	0.13	156,156,156,156	7
86	OHX	A6	1947	7/7	0.94	0.17	134,134,134,134	7
86	OHX	A6	1963	7/7	0.94	0.20	103,103,103,103	7
87	MG	A1	4040	1/1	0.94	0.06	40,40,40,40	0
86	OHX	A1	3506	7/7	0.94	0.17	103,103,103,103	7
86	OHX	A6	1978	7/7	0.94	0.17	146,146,146,146	7
86	OHX	A6	1982	7/7	0.94	0.17	123,123,123,123	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4035	1/1	0.94	0.07	39,39,39,39	0
87	MG	A5	4036	1/1	0.94	0.12	60,60,60,60	0
87	MG	A7	223	1/1	0.94	0.30	69,69,69,69	0
86	OHX	A2	1993	7/7	0.94	0.10	159,159,159,159	7
87	MG	A1	4272	1/1	0.94	0.11	53,53,53,53	0
86	OHX	A5	3691	7/7	0.94	0.21	155,155,155,155	7
86	OHX	A1	3524	7/7	0.94	0.19	139,139,139,139	7
87	MG	A5	4041	1/1	0.94	0.20	47,47,47,47	0
87	MG	A5	4399	1/1	0.94	0.14	64,64,64,64	0
87	MG	A1	4400	1/1	0.94	0.12	70,70,70,70	0
86	OHX	A5	3404	7/7	0.94	0.19	111,111,111,111	7
86	OHX	A5	3694	7/7	0.94	0.17	127,127,127,127	7
86	OHX	A5	3695	7/7	0.94	0.18	158,158,158,158	7
86	OHX	A1	3663	7/7	0.94	0.22	126,126,126,126	7
87	MG	A7	237	1/1	0.94	0.12	69,69,69,69	0
87	MG	A1	4280	1/1	0.94	0.07	51,51,51,51	0
87	MG	A1	3835	1/1	0.94	0.19	41,41,41,41	0
86	OHX	A6	2057	7/7	0.94	0.27	134,134,134,134	7
87	MG	A8	222	1/1	0.94	0.30	47,47,47,47	0
87	MG	A1	4283	1/1	0.94	0.33	91,91,91,91	0
86	OHX	A1	3539	7/7	0.94	0.20	103,103,103,103	7
87	MG	A4	235	1/1	0.94	0.09	119,119,119,119	0
86	OHX	A1	3665	7/7	0.94	0.26	104,104,104,104	7
86	OHX	A5	3703	7/7	0.94	0.27	123,123,123,123	7
87	MG	A1	4287	1/1	0.94	0.13	61,61,61,61	0
86	OHX	A5	3532	7/7	0.94	0.14	164,164,164,164	7
87	MG	A5	3892	1/1	0.94	0.15	45,45,45,45	0
86	OHX	A6	1994	7/7	0.94	0.15	133,133,133,133	7
86	OHX	A6	1995	7/7	0.94	0.12	143,143,143,143	7
86	OHX	A5	3556	7/7	0.94	0.20	111,111,111,111	7
87	MG	A2	2216	1/1	0.94	0.08	63,63,63,63	0
86	OHX	A2	2044	7/7	0.94	0.16	162,162,162,162	7
87	MG	A1	3846	1/1	0.94	0.17	37,37,37,37	0
87	MG	A1	4295	1/1	0.94	0.18	62,62,62,62	0
86	OHX	A6	1997	7/7	0.94	0.17	125,125,125,125	7
87	MG	A5	4237	1/1	0.94	0.09	51,51,51,51	0
87	MG	A5	3901	1/1	0.94	0.22	85,85,85,85	0
87	MG	A1	3950	1/1	0.94	0.16	48,48,48,48	0
86	OHX	A1	3801	7/7	0.94	0.23	125,125,125,125	7
87	MG	A6	2150	1/1	0.94	0.30	48,48,48,48	0
87	MG	A5	4070	1/1	0.94	0.33	56,56,56,56	0
87	MG	DB	408	1/1	0.94	0.15	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3802	7/7	0.94	0.20	146,146,146,146	7
87	MG	DB	410	1/1	0.94	0.17	54,54,54,54	0
87	MG	A5	4072	1/1	0.94	0.20	56,56,56,56	0
87	MG	A1	4181	1/1	0.94	0.22	61,61,61,61	0
87	MG	A6	2297	1/1	0.94	0.22	68,68,68,68	0
87	MG	BA	305	1/1	0.94	0.17	61,61,61,61	0
86	OHX	A5	3593	7/7	0.94	0.13	134,134,134,134	7
86	OHX	A5	3595	7/7	0.94	0.22	125,125,125,125	7
87	MG	A5	4442	1/1	0.94	0.25	76,76,76,76	0
86	OHX	A5	3600	7/7	0.94	0.16	133,133,133,133	7
87	MG	A1	4305	1/1	0.94	0.16	65,65,65,65	0
86	OHX	A5	3717	7/7	0.94	0.18	108,108,108,108	7
86	OHX	A6	2000	7/7	0.94	0.21	128,128,128,128	7
86	OHX	A1	3713	7/7	0.94	0.27	101,101,101,101	7
87	MG	A5	3917	1/1	0.94	0.14	44,44,44,44	0
87	MG	A5	4258	1/1	0.94	0.26	70,70,70,70	0
86	OHX	A1	3544	7/7	0.94	0.22	96,96,96,96	7
87	MG	A1	4441	1/1	0.94	0.23	61,61,61,61	0
86	OHX	A5	3814	7/7	0.94	0.18	114,114,114,114	7
87	MG	A5	4454	1/1	0.94	0.13	68,68,68,68	0
87	MG	A5	4262	1/1	0.94	0.19	60,60,60,60	0
86	OHX	A5	3611	7/7	0.94	0.18	115,115,115,115	7
86	OHX	A1	3546	7/7	0.94	0.16	106,106,106,106	7
87	MG	A6	2167	1/1	0.94	0.20	46,46,46,46	0
87	MG	A1	4445	1/1	0.94	0.12	69,69,69,69	0
87	MG	A1	4081	1/1	0.94	0.12	56,56,56,56	0
87	MG	A6	2314	1/1	0.94	0.17	112,112,112,112	0
87	MG	A5	4093	1/1	0.94	0.15	64,64,64,64	0
87	MG	A5	4271	1/1	0.94	0.15	68,68,68,68	0
87	MG	A1	3966	1/1	0.94	0.41	60,60,60,60	0
87	MG	A5	4467	1/1	0.94	0.23	70,70,70,70	0
86	OHX	A2	2035	7/7	0.94	0.18	120,120,120,120	7
86	OHX	A5	3614	7/7	0.94	0.21	120,120,120,120	7
87	MG	DO	209	1/1	0.94	0.29	62,62,62,62	0
86	OHX	A1	3549	7/7	0.94	0.19	139,139,139,139	7
86	OHX	A5	3616	7/7	0.94	0.23	102,102,102,102	7
86	OHX	A5	3619	7/7	0.94	0.18	119,119,119,119	7
86	OHX	A1	3554	7/7	0.94	0.18	159,159,159,159	7
86	OHX	A2	2067	7/7	0.94	0.20	108,108,108,108	7
87	MG	A5	4102	1/1	0.94	0.35	71,71,71,71	0
87	MG	BL	204	1/1	0.94	0.17	72,72,72,72	0
87	MG	BL	205	1/1	0.94	0.13	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A1	4090	1/1	0.94	0.36	78,78,78,78	0
87	MG	BN	303	1/1	0.94	0.21	72,72,72,72	0
86	OHX	A5	3623	7/7	0.94	0.22	156,156,156,156	7
87	MG	DT	201	1/1	0.94	0.17	63,63,63,63	0
87	MG	DT	202	1/1	0.94	0.20	89,89,89,89	0
86	OHX	A1	3620	7/7	0.94	0.12	139,139,139,139	7
86	OHX	A7	211	7/7	0.94	0.19	117,117,117,117	7
86	OHX	A1	3676	7/7	0.94	0.23	148,148,148,148	7
86	OHX	A1	3621	7/7	0.94	0.19	119,119,119,119	7
87	MG	BO	204	1/1	0.94	0.12	53,53,53,53	0
87	MG	A6	2188	1/1	0.94	0.17	38,38,38,38	0
87	MG	A1	4462	1/1	0.94	0.09	71,71,71,71	0
87	MG	A1	4330	1/1	0.94	0.21	82,82,82,82	0
86	OHX	A1	3562	7/7	0.94	0.15	143,143,143,143	7
87	MG	A5	4299	1/1	0.94	0.15	80,80,80,80	0
87	MG	A5	4300	1/1	0.94	0.18	51,51,51,51	0
87	MG	A5	4301	1/1	0.94	0.08	71,71,71,71	0
87	MG	A1	3874	1/1	0.94	0.33	60,60,60,60	0
87	MG	A2	2244	1/1	0.94	0.18	99,99,99,99	0
87	MG	A6	2339	1/1	0.94	0.25	64,64,64,64	0
86	OHX	A5	3633	7/7	0.94	0.22	126,126,126,126	7
87	MG	A5	4306	1/1	0.94	0.17	72,72,72,72	0
86	OHX	A5	3740	7/7	0.94	0.17	155,155,155,155	7
87	MG	A5	4122	1/1	0.94	0.26	52,52,52,52	0
87	MG	CF	301	1/1	0.94	0.19	87,87,87,87	0
86	OHX	A6	2018	7/7	0.94	0.18	153,153,153,153	7
87	MG	A2	2248	1/1	0.94	0.12	69,69,69,69	0
87	MG	Dn	101	1/1	0.94	0.15	84,84,84,84	0
86	OHX	A5	3635	7/7	0.94	0.14	147,147,147,147	7
87	MG	A5	3961	1/1	0.94	0.35	55,55,55,55	0
86	OHX	A1	3624	7/7	0.94	0.22	137,137,137,137	7
87	MG	A5	3964	1/1	0.94	0.26	57,57,57,57	0
87	MG	BP	210	1/1	0.94	0.17	46,46,46,46	0
86	OHX	A2	1984	7/7	0.94	0.18	108,108,108,108	7
86	OHX	A3	207	7/7	0.94	0.14	167,167,167,167	7
86	OHX	A5	3640	7/7	0.94	0.14	147,147,147,147	7
88	ZN	Do	203	1/1	0.94	0.10	181,181,181,181	0
86	OHX	A6	1967	7/7	0.95	0.21	112,112,112,112	7
87	MG	A2	2163	1/1	0.95	0.12	80,80,80,80	0
87	MG	A2	2164	1/1	0.95	0.17	74,74,74,74	0
87	MG	A5	4204	1/1	0.95	0.15	56,56,56,56	0
87	MG	A6	2296	1/1	0.95	0.21	119,119,119,119	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3590	7/7	0.95	0.20	114,114,114,114	7
86	OHX	A5	3714	7/7	0.95	0.16	126,126,126,126	7
86	OHX	A6	1970	7/7	0.95	0.15	160,160,160,160	7
87	MG	A5	4209	1/1	0.95	0.15	53,53,53,53	0
86	OHX	A6	1972	7/7	0.95	0.19	109,109,109,109	7
87	MG	A5	3904	1/1	0.95	0.19	60,60,60,60	0
86	OHX	A8	206	7/7	0.95	0.13	136,136,136,136	7
87	MG	A5	4213	1/1	0.95	0.17	52,52,52,52	0
86	OHX	A8	207	7/7	0.95	0.14	126,126,126,126	7
86	OHX	A8	211	7/7	0.95	0.12	135,135,135,135	7
86	OHX	A5	3594	7/7	0.95	0.15	131,131,131,131	7
86	OHX	A1	3638	7/7	0.95	0.15	141,141,141,141	7
87	MG	A2	2174	1/1	0.95	0.14	53,53,53,53	0
86	OHX	A1	3575	7/7	0.95	0.15	120,120,120,120	7
86	OHX	A5	3602	7/7	0.95	0.23	109,109,109,109	7
86	OHX	A6	1980	7/7	0.95	0.20	133,133,133,133	7
86	OHX	A6	1981	7/7	0.95	0.17	110,110,110,110	7
86	OHX	A5	3607	7/7	0.95	0.16	142,142,142,142	7
86	OHX	A5	3608	7/7	0.95	0.13	125,125,125,125	7
87	MG	A1	4446	1/1	0.95	0.07	62,62,62,62	0
86	OHX	A2	2026	7/7	0.95	0.12	140,140,140,140	7
87	MG	A5	3919	1/1	0.95	0.36	66,66,66,66	0
87	MG	A1	4065	1/1	0.95	0.12	47,47,47,47	0
86	OHX	A6	1984	7/7	0.95	0.13	174,174,174,174	7
86	OHX	A1	3642	7/7	0.95	0.14	139,139,139,139	7
86	OHX	A2	2005	7/7	0.95	0.16	134,134,134,134	7
86	OHX	A6	1989	7/7	0.95	0.18	122,122,122,122	7
87	MG	A5	4578	1/1	0.95	0.16	74,74,74,74	0
86	OHX	A2	1981	7/7	0.95	0.17	132,132,132,132	7
87	MG	A5	4234	1/1	0.95	0.16	67,67,67,67	0
87	MG	A1	4193	1/1	0.95	0.36	72,72,72,72	0
86	OHX	A1	3645	7/7	0.95	0.18	102,102,102,102	7
86	OHX	A5	3617	7/7	0.95	0.11	154,154,154,154	7
86	OHX	A5	3618	7/7	0.95	0.19	101,101,101,101	7
87	MG	A5	4240	1/1	0.95	0.14	77,77,77,77	0
87	MG	A1	3948	1/1	0.95	0.36	55,55,55,55	0
86	OHX	A1	3585	7/7	0.95	0.15	122,122,122,122	7
87	MG	A5	4413	1/1	0.95	0.23	80,80,80,80	0
87	MG	A1	4076	1/1	0.95	0.35	64,64,64,64	0
86	OHX	A1	3698	7/7	0.95	0.16	105,105,105,105	7
86	OHX	A5	3621	7/7	0.95	0.20	123,123,123,123	7
86	OHX	A2	1931	7/7	0.95	0.14	143,143,143,143	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A1	3589	7/7	0.95	0.17	97,97,97,97	7
86	OHX	A1	3595	7/7	0.95	0.20	120,120,120,120	7
86	OHX	A1	3597	7/7	0.95	0.15	123,123,123,123	7
86	OHX	A5	3628	7/7	0.95	0.19	129,129,129,129	7
86	OHX	A1	3652	7/7	0.95	0.23	115,115,115,115	7
87	MG	A7	231	1/1	0.95	0.30	87,87,87,87	0
86	OHX	A1	3757	7/7	0.95	0.16	73,73,73,73	7
87	MG	A1	4471	1/1	0.95	0.22	88,88,88,88	0
86	OHX	A5	3632	7/7	0.95	0.25	106,106,106,106	7
87	MG	A1	4210	1/1	0.95	0.27	44,44,44,44	0
86	OHX	A2	2052	7/7	0.95	0.19	117,117,117,117	7
87	MG	A6	2199	1/1	0.95	0.12	62,62,62,62	0
86	OHX	A2	1940	7/7	0.95	0.18	100,100,100,100	7
87	MG	A7	239	1/1	0.95	0.10	71,71,71,71	0
87	MG	A1	3963	1/1	0.95	0.23	56,56,56,56	0
86	OHX	A1	3658	7/7	0.95	0.16	118,118,118,118	7
86	OHX	A1	3511	7/7	0.95	0.13	154,154,154,154	0
86	OHX	A2	1954	7/7	0.95	0.16	162,162,162,162	7
86	OHX	A1	3518	7/7	0.95	0.15	140,140,140,140	7
86	OHX	A2	1956	7/7	0.95	0.14	128,128,128,128	7
87	MG	A5	4437	1/1	0.95	0.12	86,86,86,86	0
87	MG	A8	227	1/1	0.95	0.11	65,65,65,65	0
87	MG	A1	3970	1/1	0.95	0.29	69,69,69,69	0
86	OHX	A5	3641	7/7	0.95	0.18	127,127,127,127	7
86	OHX	A6	2011	7/7	0.95	0.20	120,120,120,120	7
87	MG	BT	202	1/1	0.95	0.23	89,89,89,89	0
86	OHX	A6	2012	7/7	0.95	0.14	149,149,149,149	7
86	OHX	A1	3531	7/7	0.95	0.16	140,140,140,140	7
87	MG	A5	4274	1/1	0.95	0.08	51,51,51,51	0
86	OHX	A1	3532	7/7	0.95	0.17	87,87,87,87	7
86	OHX	A1	3816	7/7	0.95	0.12	150,150,150,150	7
87	MG	A8	238	1/1	0.95	0.20	93,93,93,93	0
86	OHX	A1	3716	7/7	0.95	0.18	113,113,113,113	7
86	OHX	A3	208	7/7	0.95	0.18	126,126,126,126	7
86	OHX	A2	1959	7/7	0.95	0.13	147,147,147,147	7
87	MG	Ba	202	1/1	0.95	0.14	63,63,63,63	0
87	MG	A5	3969	1/1	0.95	0.30	37,37,37,37	0
86	OHX	A6	2020	7/7	0.95	0.22	88,88,88,88	7
86	OHX	A2	1941	7/7	0.95	0.17	117,117,117,117	7
87	MG	DB	405	1/1	0.95	0.13	62,62,62,62	0
87	MG	A1	4231	1/1	0.95	0.12	82,82,82,82	0
87	MG	A5	4123	1/1	0.95	0.07	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	MG	Ba	206	1/1	0.95	0.13	61,61,61,61	0
86	OHX	A5	3655	7/7	0.95	0.20	124,124,124,124	7
87	MG	A5	4460	1/1	0.95	0.15	74,74,74,74	0
87	MG	A1	4498	1/1	0.95	0.08	60,60,60,60	0
86	OHX	A2	1991	7/7	0.95	0.17	113,113,113,113	7
86	OHX	A2	1961	7/7	0.95	0.12	150,150,150,150	7
87	MG	DB	414	1/1	0.95	0.19	76,76,76,76	0
86	OHX	A1	3547	7/7	0.95	0.20	99,99,99,99	7
87	MG	A5	3828	1/1	0.95	0.07	34,34,34,34	0
86	OHX	A5	3659	7/7	0.95	0.17	106,106,106,106	7
87	MG	A5	3830	1/1	0.95	0.16	39,39,39,39	0
86	OHX	A4	209	7/7	0.95	0.10	153,153,153,153	7
86	OHX	A6	2028	7/7	0.95	0.30	136,136,136,136	7
86	OHX	A4	210	7/7	0.95	0.11	131,131,131,131	7
87	MG	A5	4471	1/1	0.95	0.14	61,61,61,61	0
86	OHX	A2	1994	7/7	0.95	0.16	118,118,118,118	7
86	OHX	A1	3672	7/7	0.95	0.20	99,99,99,99	7
86	OHX	CG	301	7/7	0.95	0.10	147,147,147,147	7
87	MG	DD	308	1/1	0.95	0.17	70,70,70,70	0
86	OHX	A2	1962	7/7	0.95	0.18	136,136,136,136	7
86	OHX	A1	3550	7/7	0.95	0.18	130,130,130,130	7
86	OHX	A1	3552	7/7	0.95	0.20	115,115,115,115	7
87	MG	A1	4246	1/1	0.95	0.16	80,80,80,80	0
86	OHX	CL	201	7/7	0.95	0.19	134,134,134,134	7
86	OHX	A2	1943	7/7	0.95	0.15	123,123,123,123	7
86	OHX	A2	1998	7/7	0.95	0.20	135,135,135,135	7
87	MG	A5	4310	1/1	0.95	0.13	69,69,69,69	0
86	OHX	A5	3675	7/7	0.95	0.22	132,132,132,132	7
86	OHX	A1	3558	7/7	0.95	0.15	139,139,139,139	7
87	MG	A5	4313	1/1	0.95	0.14	66,66,66,66	0
86	OHX	CS	201	7/7	0.95	0.13	129,129,129,129	7
87	MG	DO	202	1/1	0.95	0.12	61,61,61,61	0
86	OHX	A2	1966	7/7	0.95	0.18	101,101,101,101	7
86	OHX	A2	1967	7/7	0.95	0.19	120,120,120,120	7
86	OHX	A1	3565	7/7	0.95	0.15	127,127,127,127	7
86	OHX	A5	3682	7/7	0.95	0.22	110,110,110,110	7
86	OHX	A2	1969	7/7	0.95	0.15	144,144,144,144	7
87	MG	A6	2251	1/1	0.95	0.11	73,73,73,73	0
86	OHX	A5	3684	7/7	0.95	0.21	122,122,122,122	7
86	OHX	BN	301	7/7	0.95	0.17	116,116,116,116	7
87	MG	DP	204	1/1	0.95	0.29	78,78,78,78	0
87	MG	A1	3892	1/1	0.95	0.47	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	DP	206	1/1	0.95	0.25	55,55,55,55	0
86	OHX	A1	3632	7/7	0.95	0.09	170,170,170,170	7
87	MG	A1	4139	1/1	0.95	0.17	56,56,56,56	0
87	MG	A5	4326	1/1	0.95	0.22	75,75,75,75	0
87	MG	A5	4161	1/1	0.95	0.15	51,51,51,51	0
86	OHX	A2	1977	7/7	0.95	0.09	174,174,174,174	7
87	MG	A4	218	1/1	0.95	0.28	59,59,59,59	0
86	OHX	A1	3634	7/7	0.95	0.14	133,133,133,133	7
86	OHX	A2	1979	7/7	0.95	0.17	121,121,121,121	7
87	MG	A1	4393	1/1	0.95	0.20	78,78,78,78	0
87	MG	A4	222	1/1	0.95	0.27	43,43,43,43	0
86	OHX	A5	3521	7/7	0.95	0.18	150,150,150,150	7
86	OHX	A5	3528	7/7	0.95	0.12	163,163,163,163	0
87	MG	A6	2266	1/1	0.95	0.14	106,106,106,106	0
87	MG	A5	3868	1/1	0.95	0.17	44,44,44,44	0
87	MG	A1	3899	1/1	0.95	0.24	57,57,57,57	0
86	OHX	A6	1942	7/7	0.95	0.18	114,114,114,114	7
87	MG	A1	4270	1/1	0.95	0.08	57,57,57,57	0
86	OHX	A5	3540	7/7	0.95	0.15	119,119,119,119	7
87	MG	A5	4025	1/1	0.95	0.26	38,38,38,38	0
86	OHX	A2	1945	7/7	0.95	0.15	140,140,140,140	7
86	OHX	A5	3807	7/7	0.95	0.20	107,107,107,107	7
87	MG	A5	4521	1/1	0.95	0.16	68,68,68,68	0
87	MG	A1	3904	1/1	0.95	0.26	43,43,43,43	0
86	OHX	A5	3547	7/7	0.95	0.21	104,104,104,104	7
86	OHX	A6	1955	7/7	0.95	0.12	153,153,153,153	7
86	OHX	A6	1961	7/7	0.95	0.20	132,132,132,132	7
86	OHX	A6	1962	7/7	0.95	0.16	126,126,126,126	7
87	MG	A1	4409	1/1	0.95	0.42	58,58,58,58	0
87	MG	A1	4032	1/1	0.95	0.06	46,46,46,46	0
86	OHX	A5	3702	7/7	0.95	0.27	121,121,121,121	7
86	OHX	A5	3562	7/7	0.95	0.19	104,104,104,104	7
86	OHX	A5	3564	7/7	0.95	0.12	143,143,143,143	7
87	MG	Dm	201	1/1	0.95	0.16	75,75,75,75	0
86	OHX	A5	3567	7/7	0.95	0.20	106,106,106,106	7
86	OHX	A5	3571	7/7	0.95	0.14	143,143,143,143	7
86	OHX	A5	3572	7/7	0.95	0.16	145,145,145,145	7
87	MG	A1	4417	1/1	0.95	0.17	94,94,94,94	0
87	MG	A1	4418	1/1	0.95	0.12	48,48,48,48	0
87	MG	A4	246	1/1	0.95	0.19	91,91,91,91	0
86	OHX	A5	3574	7/7	0.95	0.12	154,154,154,154	7
86	OHX	A5	3581	7/7	0.95	0.15	148,148,148,148	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3583	7/7	0.95	0.14	137,137,137,137	7
88	ZN	Cf	501	1/1	0.95	0.09	152,152,152,152	0
86	OHX	A1	3637	7/7	0.95	0.10	146,146,146,146	7
87	MG	BQ	203	1/1	0.96	0.12	63,63,63,63	0
87	MG	A5	4356	1/1	0.96	0.12	74,74,74,74	0
86	OHX	A8	210	7/7	0.96	0.11	133,133,133,133	7
86	OHX	A1	3520	7/7	0.96	0.17	129,129,129,129	7
86	OHX	A5	3544	7/7	0.96	0.17	97,97,97,97	7
86	OHX	A5	3545	7/7	0.96	0.16	133,133,133,133	7
86	OHX	A1	3523	7/7	0.96	0.16	111,111,111,111	7
87	MG	BS	201	1/1	0.96	0.10	64,64,64,64	0
86	OHX	A1	3706	7/7	0.96	0.13	135,135,135,135	7
87	MG	A5	4550	1/1	0.96	0.27	83,83,83,83	0
86	OHX	A5	3552	7/7	0.96	0.10	138,138,138,138	7
87	MG	A5	4019	1/1	0.96	0.43	48,48,48,48	0
87	MG	A5	4553	1/1	0.96	0.25	73,73,73,73	0
86	OHX	A5	3554	7/7	0.96	0.16	130,130,130,130	7
87	MG	A1	4469	1/1	0.96	0.16	66,66,66,66	0
86	OHX	A5	3555	7/7	0.96	0.10	152,152,152,152	0
86	OHX	A1	3584	7/7	0.96	0.18	88,88,88,88	7
86	OHX	A2	1934	7/7	0.96	0.14	123,123,123,123	7
86	OHX	A5	3560	7/7	0.96	0.19	106,106,106,106	7
87	MG	BY	202	1/1	0.96	0.18	85,85,85,85	0
86	OHX	A5	3561	7/7	0.96	0.18	121,121,121,121	7
86	OHX	A1	3526	7/7	0.96	0.14	126,126,126,126	7
86	OHX	A1	3588	7/7	0.96	0.18	104,104,104,104	7
86	OHX	A5	3565	7/7	0.96	0.15	105,105,105,105	7
87	MG	A1	3885	1/1	0.96	0.26	61,61,61,61	0
87	MG	A5	4566	1/1	0.96	0.10	74,74,74,74	0
86	OHX	A2	1952	7/7	0.96	0.13	127,127,127,127	7
86	OHX	A5	3568	7/7	0.96	0.19	103,103,103,103	7
86	OHX	A1	3590	7/7	0.96	0.12	135,135,135,135	7
86	OHX	A1	3650	7/7	0.96	0.15	120,120,120,120	7
86	OHX	Bf	201	7/7	0.96	0.20	85,85,85,85	7
86	OHX	A5	3575	7/7	0.96	0.21	81,81,81,81	7
86	OHX	A5	3577	7/7	0.96	0.14	128,128,128,128	7
86	OHX	A5	3716	7/7	0.96	0.24	115,115,115,115	7
86	OHX	A5	3578	7/7	0.96	0.09	159,159,159,159	7
86	OHX	A5	3580	7/7	0.96	0.14	121,121,121,121	7
86	OHX	A1	3592	7/7	0.96	0.15	108,108,108,108	7
86	OHX	A5	3720	7/7	0.96	0.13	101,101,101,101	7
87	MG	A2	2090	1/1	0.96	0.20	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3594	7/7	0.96	0.11	144,144,144,144	7
86	OHX	A1	3653	7/7	0.96	0.13	153,153,153,153	7
86	OHX	A6	1951	7/7	0.96	0.15	115,115,115,115	7
86	OHX	A5	3587	7/7	0.96	0.18	96,96,96,96	7
86	OHX	A5	3588	7/7	0.96	0.23	106,106,106,106	7
87	MG	A6	2260	1/1	0.96	0.21	62,62,62,62	0
87	MG	A5	3881	1/1	0.96	0.31	60,60,60,60	0
86	OHX	A5	3589	7/7	0.96	0.21	93,93,93,93	7
86	OHX	A1	3717	7/7	0.96	0.15	141,141,141,141	7
87	MG	A5	4404	1/1	0.96	0.29	54,54,54,54	0
87	MG	A1	4051	1/1	0.96	0.13	71,71,71,71	0
86	OHX	A6	1956	7/7	0.96	0.13	130,130,130,130	7
86	OHX	A1	3718	7/7	0.96	0.14	94,94,94,94	7
87	MG	A5	4408	1/1	0.96	0.08	65,65,65,65	0
86	OHX	A2	1953	7/7	0.96	0.16	120,120,120,120	7
86	OHX	A1	3656	7/7	0.96	0.17	114,114,114,114	7
86	OHX	A5	3598	7/7	0.96	0.11	143,143,143,143	7
87	MG	A7	229	1/1	0.96	0.16	98,98,98,98	0
86	OHX	A5	3599	7/7	0.96	0.12	120,120,120,120	7
86	OHX	A6	1964	7/7	0.96	0.17	132,132,132,132	7
86	OHX	A5	3601	7/7	0.96	0.17	96,96,96,96	7
86	OHX	A6	1965	7/7	0.96	0.12	123,123,123,123	7
86	OHX	A1	3596	7/7	0.96	0.15	120,120,120,120	7
87	MG	A5	4236	1/1	0.96	0.09	19,19,19,19	0
86	OHX	A6	1968	7/7	0.96	0.18	101,101,101,101	7
86	OHX	A5	3605	7/7	0.96	0.20	112,112,112,112	7
86	OHX	A5	3606	7/7	0.96	0.15	130,130,130,130	7
86	OHX	A1	3534	7/7	0.96	0.16	106,106,106,106	7
86	OHX	A1	3598	7/7	0.96	0.15	139,139,139,139	7
86	OHX	A6	1973	7/7	0.96	0.19	87,87,87,87	7
86	OHX	A6	1974	7/7	0.96	0.16	116,116,116,116	7
86	OHX	A1	3536	7/7	0.96	0.12	136,136,136,136	7
87	MG	A5	4426	1/1	0.96	0.11	70,70,70,70	0
86	OHX	A2	1964	7/7	0.96	0.14	135,135,135,135	7
86	OHX	A6	1979	7/7	0.96	0.17	116,116,116,116	7
86	OHX	A1	3602	7/7	0.96	0.20	99,99,99,99	7
86	OHX	A1	3603	7/7	0.96	0.15	136,136,136,136	7
86	OHX	A1	3540	7/7	0.96	0.10	141,141,141,141	7
86	OHX	A6	1983	7/7	0.96	0.18	133,133,133,133	7
86	OHX	A1	3541	7/7	0.96	0.16	109,109,109,109	7
86	OHX	A2	1935	7/7	0.96	0.17	120,120,120,120	7
86	OHX	A6	1987	7/7	0.96	0.18	113,113,113,113	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A6	2076	7/7	0.96	0.15	90,90,90,90	7
86	OHX	A2	1937	7/7	0.96	0.14	122,122,122,122	7
87	MG	A8	236	1/1	0.96	0.28	75,75,75,75	0
86	OHX	A2	1985	7/7	0.96	0.16	144,144,144,144	7
86	OHX	A2	1957	7/7	0.96	0.20	101,101,101,101	7
86	OHX	A2	1968	7/7	0.96	0.18	134,134,134,134	7
86	OHX	A6	1992	7/7	0.96	0.13	125,125,125,125	7
86	OHX	A1	3671	7/7	0.96	0.18	96,96,96,96	7
86	OHX	A5	3631	7/7	0.96	0.17	89,89,89,89	7
86	OHX	A1	3612	7/7	0.96	0.09	146,146,146,146	7
86	OHX	A1	3613	7/7	0.96	0.18	98,98,98,98	7
86	OHX	A1	3614	7/7	0.96	0.21	112,112,112,112	7
86	OHX	A2	1958	7/7	0.96	0.15	139,139,139,139	7
87	MG	A1	4092	1/1	0.96	0.25	66,66,66,66	0
86	OHX	A5	3636	7/7	0.96	0.15	111,111,111,111	7
86	OHX	A1	3402	7/7	0.96	0.21	130,130,130,130	7
87	MG	A6	2145	1/1	0.96	0.23	46,46,46,46	0
87	MG	A5	4452	1/1	0.96	0.20	57,57,57,57	0
86	OHX	A2	1989	7/7	0.96	0.11	131,131,131,131	7
87	MG	A5	4273	1/1	0.96	0.18	75,75,75,75	0
86	OHX	A2	1971	7/7	0.96	0.15	110,110,110,110	7
87	MG	A5	4275	1/1	0.96	0.21	63,63,63,63	0
86	OHX	A1	3555	7/7	0.96	0.17	125,125,125,125	7
87	MG	A6	2149	1/1	0.96	0.30	49,49,49,49	0
86	OHX	A1	3556	7/7	0.96	0.18	128,128,128,128	7
86	OHX	A6	2004	7/7	0.96	0.17	105,105,105,105	7
87	MG	A1	4394	1/1	0.96	0.13	58,58,58,58	0
86	OHX	A2	1973	7/7	0.96	0.16	136,136,136,136	7
86	OHX	A1	3454	7/7	0.96	0.15	106,106,106,106	7
87	MG	A1	4397	1/1	0.96	0.16	80,80,80,80	0
86	OHX	A1	3560	7/7	0.96	0.14	116,116,116,116	7
86	OHX	A1	3625	7/7	0.96	0.21	92,92,92,92	7
86	OHX	A1	3561	7/7	0.96	0.18	110,110,110,110	7
87	MG	A6	2159	1/1	0.96	0.20	33,33,33,33	0
86	OHX	A1	3490	7/7	0.96	0.16	126,126,126,126	0
86	OHX	A5	3649	7/7	0.96	0.19	129,129,129,129	7
86	OHX	A1	3563	7/7	0.96	0.16	131,131,131,131	7
86	OHX	A5	3651	7/7	0.96	0.20	137,137,137,137	7
86	OHX	A5	3652	7/7	0.96	0.18	150,150,150,150	7
87	MG	A1	3964	1/1	0.96	0.33	50,50,50,50	0
86	OHX	A3	202	7/7	0.96	0.15	103,103,103,103	7
86	OHX	A3	205	7/7	0.96	0.14	113,113,113,113	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A3	206	7/7	0.96	0.13	140,140,140,140	7
86	OHX	A1	3493	7/7	0.96	0.12	148,148,148,148	0
86	OHX	A1	3494	7/7	0.96	0.12	133,133,133,133	0
86	OHX	A1	3504	7/7	0.96	0.16	105,105,105,105	7
86	OHX	A1	3568	7/7	0.96	0.11	133,133,133,133	7
86	OHX	A5	3795	7/7	0.96	0.17	117,117,117,117	7
87	MG	DO	204	1/1	0.96	0.09	57,57,57,57	0
86	OHX	A2	1975	7/7	0.96	0.12	141,141,141,141	7
86	OHX	A6	2022	7/7	0.96	0.10	145,145,145,145	7
86	OHX	A1	3572	7/7	0.96	0.17	114,114,114,114	7
87	MG	BC	404	1/1	0.96	0.21	67,67,67,67	0
87	MG	A5	3962	1/1	0.96	0.32	41,41,41,41	0
86	OHX	A1	3508	7/7	0.96	0.16	93,93,93,93	7
86	OHX	A5	3664	7/7	0.96	0.20	106,106,106,106	7
86	OHX	A4	205	7/7	0.96	0.14	122,122,122,122	7
87	MG	A1	4421	1/1	0.96	0.13	63,63,63,63	0
86	OHX	A4	207	7/7	0.96	0.13	129,129,129,129	7
86	OHX	A5	3803	7/7	0.96	0.19	107,107,107,107	7
86	OHX	A5	3667	7/7	0.96	0.16	100,100,100,100	7
86	OHX	A6	2027	7/7	0.96	0.09	189,189,189,189	7
87	MG	A5	4140	1/1	0.96	0.06	56,56,56,56	0
86	OHX	A5	3402	7/7	0.96	0.14	116,116,116,116	7
87	MG	A1	4131	1/1	0.96	0.22	75,75,75,75	0
87	MG	A5	4501	1/1	0.96	0.21	56,56,56,56	0
87	MG	A1	4429	1/1	0.96	0.13	54,54,54,54	0
87	MG	BI	308	1/1	0.96	0.08	57,57,57,57	0
87	MG	A5	4504	1/1	0.96	0.12	84,84,84,84	0
86	OHX	A5	3670	7/7	0.96	0.20	109,109,109,109	7
86	OHX	A2	1976	7/7	0.96	0.11	139,139,139,139	7
87	MG	A1	4279	1/1	0.96	0.26	54,54,54,54	0
86	OHX	A2	2013	7/7	0.96	0.20	116,116,116,116	7
86	OHX	A1	3577	7/7	0.96	0.20	122,122,122,122	7
86	OHX	A1	3699	7/7	0.96	0.21	107,107,107,107	7
86	OHX	A1	3578	7/7	0.96	0.17	112,112,112,112	7
86	OHX	A5	3472	7/7	0.96	0.19	105,105,105,105	0
87	MG	CY	204	1/1	0.96	0.11	56,56,56,56	0
86	OHX	A5	3677	7/7	0.96	0.19	113,113,113,113	7
86	OHX	A5	3488	7/7	0.96	0.14	125,125,125,125	0
86	OHX	A5	3493	7/7	0.96	0.17	102,102,102,102	7
86	OHX	A5	3502	7/7	0.96	0.13	141,141,141,141	0
86	OHX	A5	3513	7/7	0.96	0.14	115,115,115,115	7
86	OHX	A6	2033	7/7	0.96	0.20	133,133,133,133	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3701	7/7	0.96	0.17	112,112,112,112	7
86	OHX	A5	3522	7/7	0.96	0.11	123,123,123,123	7
87	MG	Df	204	1/1	0.96	0.12	61,61,61,61	0
86	OHX	A5	3524	7/7	0.96	0.17	92,92,92,92	7
87	MG	A5	3412	1/1	0.96	0.18	68,68,68,68	0
87	MG	Dg	203	1/1	0.96	0.18	88,88,88,88	0
87	MG	A5	3824	1/1	0.96	0.22	37,37,37,37	0
87	MG	Dj	102	1/1	0.96	0.15	74,74,74,74	0
86	OHX	A7	209	7/7	0.96	0.19	115,115,115,115	7
86	OHX	A5	3686	7/7	0.96	0.17	121,121,121,121	7
87	MG	A1	4003	1/1	0.96	0.33	48,48,48,48	0
86	OHX	A1	3640	7/7	0.96	0.10	153,153,153,153	7
87	MG	A1	4005	1/1	0.96	0.27	42,42,42,42	0
86	OHX	A5	3529	7/7	0.96	0.15	93,93,93,93	7
87	MG	A1	4007	1/1	0.96	0.21	29,29,29,29	0
86	OHX	A5	3530	7/7	0.96	0.17	105,105,105,105	7
87	MG	A1	4009	1/1	0.96	0.38	51,51,51,51	0
86	OHX	A8	204	7/7	0.96	0.17	101,101,101,101	7
87	MG	A1	4304	1/1	0.96	0.13	102,102,102,102	0
86	OHX	A2	1932	7/7	0.96	0.12	117,117,117,117	7
87	MG	A6	2219	1/1	0.96	0.07	50,50,50,50	0
86	OHX	BB	401	7/7	0.96	0.13	111,111,111,111	7
86	OHX	A6	1945	7/7	0.97	0.12	148,148,148,148	0
86	OHX	A6	1946	7/7	0.97	0.13	105,105,105,105	7
86	OHX	A5	3441	7/7	0.97	0.20	96,96,96,96	0
87	MG	A5	3952	1/1	0.97	0.38	43,43,43,43	0
86	OHX	A5	3447	7/7	0.97	0.19	107,107,107,107	0
87	MG	A1	4475	1/1	0.97	0.15	64,64,64,64	0
87	MG	A1	4476	1/1	0.97	0.08	68,68,68,68	0
86	OHX	A5	3463	7/7	0.97	0.15	130,130,130,130	0
87	MG	A5	4257	1/1	0.97	0.20	70,70,70,70	0
86	OHX	A5	3466	7/7	0.97	0.15	120,120,120,120	0
86	OHX	A5	3467	7/7	0.97	0.13	104,104,104,104	7
86	OHX	A1	3476	7/7	0.97	0.13	129,129,129,129	0
86	OHX	A6	1950	7/7	0.97	0.09	140,140,140,140	0
87	MG	A1	4064	1/1	0.97	0.17	69,69,69,69	0
86	OHX	A5	3491	7/7	0.97	0.16	106,106,106,106	7
86	OHX	A1	3479	7/7	0.97	0.13	117,117,117,117	7
86	OHX	A5	3495	7/7	0.97	0.15	92,92,92,92	7
86	OHX	A5	3501	7/7	0.97	0.12	106,106,106,106	7
86	OHX	A6	1952	7/7	0.97	0.12	123,123,123,123	7
86	OHX	A5	3508	7/7	0.97	0.14	119,119,119,119	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	MG	A5	4269	1/1	0.97	0.21	66,66,66,66	0
86	OHX	A5	3509	7/7	0.97	0.17	97,97,97,97	7
86	OHX	A5	3511	7/7	0.97	0.10	142,142,142,142	0
87	MG	A1	3935	1/1	0.97	0.41	59,59,59,59	0
86	OHX	A6	1954	7/7	0.97	0.13	141,141,141,141	7
86	OHX	A1	3482	7/7	0.97	0.14	106,106,106,106	7
86	OHX	A1	3559	7/7	0.97	0.20	116,116,116,116	7
86	OHX	A6	1957	7/7	0.97	0.11	144,144,144,144	7
86	OHX	A6	1959	7/7	0.97	0.16	107,107,107,107	7
86	OHX	A5	3527	7/7	0.97	0.18	105,105,105,105	7
86	OHX	A6	1960	7/7	0.97	0.12	120,120,120,120	7
86	OHX	A1	3484	7/7	0.97	0.12	126,126,126,126	0
87	MG	A5	4281	1/1	0.97	0.19	56,56,56,56	0
86	OHX	A1	3488	7/7	0.97	0.15	109,109,109,109	7
87	MG	Bf	202	1/1	0.97	0.15	69,69,69,69	0
86	OHX	A5	3531	7/7	0.97	0.14	106,106,106,106	7
86	OHX	A1	3622	7/7	0.97	0.16	112,112,112,112	7
86	OHX	A5	3533	7/7	0.97	0.13	118,118,118,118	7
86	OHX	A5	3534	7/7	0.97	0.13	92,92,92,92	7
86	OHX	A5	3536	7/7	0.97	0.15	97,97,97,97	7
86	OHX	A5	3537	7/7	0.97	0.13	115,115,115,115	7
86	OHX	A5	3539	7/7	0.97	0.14	125,125,125,125	7
86	OHX	A2	1949	7/7	0.97	0.10	135,135,135,135	7
86	OHX	A2	1950	7/7	0.97	0.12	122,122,122,122	7
87	MG	A5	3842	1/1	0.97	0.04	34,34,34,34	0
86	OHX	A5	3542	7/7	0.97	0.13	103,103,103,103	7
86	OHX	A5	3543	7/7	0.97	0.15	109,109,109,109	7
86	OHX	A2	1951	7/7	0.97	0.14	126,126,126,126	7
86	OHX	A1	3503	7/7	0.97	0.11	111,111,111,111	7
86	OHX	A5	3546	7/7	0.97	0.13	132,132,132,132	7
86	OHX	A6	1969	7/7	0.97	0.17	90,90,90,90	7
86	OHX	A5	3548	7/7	0.97	0.14	134,134,134,134	7
87	MG	A5	4459	1/1	0.97	0.14	84,84,84,84	0
86	OHX	A5	3549	7/7	0.97	0.17	107,107,107,107	7
86	OHX	A5	3550	7/7	0.97	0.17	119,119,119,119	7
86	OHX	A2	1921	7/7	0.97	0.13	113,113,113,113	7
86	OHX	A6	1971	7/7	0.97	0.12	108,108,108,108	7
86	OHX	A1	3505	7/7	0.97	0.11	124,124,124,124	7
86	OHX	A2	1992	7/7	0.97	0.16	123,123,123,123	7
86	OHX	A1	3570	7/7	0.97	0.17	100,100,100,100	7
86	OHX	A5	3809	7/7	0.97	0.14	91,91,91,91	7
86	OHX	A6	1975	7/7	0.97	0.15	106,106,106,106	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A6	1976	7/7	0.97	0.18	105,105,105,105	7
86	OHX	A5	3812	7/7	0.97	0.12	135,135,135,135	7
87	MG	A5	4009	1/1	0.97	0.32	45,45,45,45	0
86	OHX	A1	3571	7/7	0.97	0.10	119,119,119,119	7
86	OHX	A2	1970	7/7	0.97	0.12	138,138,138,138	7
86	OHX	A5	3563	7/7	0.97	0.15	98,98,98,98	7
86	OHX	A1	3510	7/7	0.97	0.15	92,92,92,92	7
86	OHX	A2	1936	7/7	0.97	0.18	112,112,112,112	7
86	OHX	A5	3566	7/7	0.97	0.18	99,99,99,99	7
86	OHX	A2	1924	7/7	0.97	0.14	111,111,111,111	7
86	OHX	A2	1996	7/7	0.97	0.16	113,113,113,113	7
86	OHX	A5	3570	7/7	0.97	0.19	97,97,97,97	7
86	OHX	A1	3519	7/7	0.97	0.15	137,137,137,137	7
86	OHX	A1	3579	7/7	0.97	0.18	97,97,97,97	7
87	MG	A5	4170	1/1	0.97	0.14	69,69,69,69	0
86	OHX	A7	206	7/7	0.97	0.13	115,115,115,115	7
86	OHX	A5	3573	7/7	0.97	0.18	107,107,107,107	7
87	MG	DC	405	1/1	0.97	0.09	72,72,72,72	0
86	OHX	A6	1985	7/7	0.97	0.18	114,114,114,114	7
86	OHX	A2	1974	7/7	0.97	0.08	170,170,170,170	7
86	OHX	A5	3699	7/7	0.97	0.18	107,107,107,107	7
86	OHX	A5	3576	7/7	0.97	0.21	124,124,124,124	7
86	OHX	A5	3701	7/7	0.97	0.25	57,57,57,57	7
86	OHX	A3	201	7/7	0.97	0.12	109,109,109,109	0
86	OHX	A8	205	7/7	0.97	0.13	107,107,107,107	7
86	OHX	A2	1955	7/7	0.97	0.16	123,123,123,123	7
86	OHX	A3	204	7/7	0.97	0.12	125,125,125,125	7
86	OHX	A8	208	7/7	0.97	0.14	115,115,115,115	7
87	MG	A5	4033	1/1	0.97	0.05	31,31,31,31	0
86	OHX	A8	209	7/7	0.97	0.15	130,130,130,130	7
86	OHX	A2	1939	7/7	0.97	0.13	144,144,144,144	7
87	MG	A1	3998	1/1	0.97	0.16	28,28,28,28	0
86	OHX	A5	3582	7/7	0.97	0.18	95,95,95,95	7
86	OHX	A1	3525	7/7	0.97	0.17	101,101,101,101	7
86	OHX	A2	1927	7/7	0.97	0.14	115,115,115,115	7
87	MG	A5	4190	1/1	0.97	0.16	58,58,58,58	0
86	OHX	A8	214	7/7	0.97	0.10	125,125,125,125	7
86	OHX	A1	3586	7/7	0.97	0.17	117,117,117,117	7
86	OHX	A5	3586	7/7	0.97	0.14	112,112,112,112	7
86	OHX	A1	3527	7/7	0.97	0.15	94,94,94,94	7
86	OHX	A1	3529	7/7	0.97	0.18	77,77,77,77	7
86	OHX	A1	3530	7/7	0.97	0.14	125,125,125,125	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A2	1978	7/7	0.97	0.14	108,108,108,108	7
87	MG	A5	4512	1/1	0.97	0.10	56,56,56,56	0
86	OHX	AL	201	7/7	0.97	0.15	119,119,119,119	7
86	OHX	A4	204	7/7	0.97	0.12	122,122,122,122	7
86	OHX	A1	3593	7/7	0.97	0.14	113,113,113,113	7
86	OHX	A1	3533	7/7	0.97	0.20	104,104,104,104	7
86	OHX	A5	3596	7/7	0.97	0.17	84,84,84,84	7
86	OHX	A6	2002	7/7	0.97	0.15	96,96,96,96	7
87	MG	A1	4428	1/1	0.97	0.34	58,58,58,58	0
86	OHX	A4	208	7/7	0.97	0.17	90,90,90,90	7
86	OHX	A2	1928	7/7	0.97	0.12	126,126,126,126	7
87	MG	A5	4362	1/1	0.97	0.11	60,60,60,60	0
86	OHX	A1	3535	7/7	0.97	0.17	102,102,102,102	7
86	OHX	A6	2006	7/7	0.97	0.18	87,87,87,87	7
86	OHX	A1	3654	7/7	0.97	0.09	149,149,149,149	7
86	OHX	A2	1942	7/7	0.97	0.17	113,113,113,113	7
86	OHX	A1	3538	7/7	0.97	0.14	105,105,105,105	7
86	OHX	Ad	101	7/7	0.97	0.14	130,130,130,130	7
86	OHX	DV	201	7/7	0.97	0.11	126,126,126,126	7
86	OHX	Df	201	7/7	0.97	0.17	99,99,99,99	7
86	OHX	A1	3600	7/7	0.97	0.15	100,100,100,100	7
87	MG	A1	4440	1/1	0.97	0.19	55,55,55,55	0
86	OHX	A2	1930	7/7	0.97	0.14	120,120,120,120	7
86	OHX	A2	1908	7/7	0.97	0.16	115,115,115,115	0
86	OHX	A5	3610	7/7	0.97	0.12	161,161,161,161	7
86	OHX	A2	1911	7/7	0.97	0.15	124,124,124,124	0
86	OHX	A1	3543	7/7	0.97	0.11	137,137,137,137	7
86	OHX	A6	2016	7/7	0.97	0.10	124,124,124,124	7
86	OHX	A2	1963	7/7	0.97	0.21	129,129,129,129	7
86	OHX	A5	3738	7/7	0.97	0.17	101,101,101,101	7
86	OHX	A5	3739	7/7	0.97	0.16	105,105,105,105	7
86	OHX	BI	301	7/7	0.97	0.14	94,94,94,94	7
86	OHX	A1	3447	7/7	0.97	0.14	98,98,98,98	0
86	OHX	A2	1913	7/7	0.97	0.15	129,129,129,129	0
86	OHX	A2	1948	7/7	0.97	0.15	108,108,108,108	7
87	MG	BN	306	1/1	0.97	0.09	55,55,55,55	0
87	MG	A1	4314	1/1	0.97	0.12	78,78,78,78	0
87	MG	A5	4548	1/1	0.97	0.11	74,74,74,74	0
87	MG	A5	4388	1/1	0.97	0.15	47,47,47,47	0
86	OHX	A1	3458	7/7	0.97	0.13	111,111,111,111	7
86	OHX	A1	3460	7/7	0.97	0.12	111,111,111,111	0
87	MG	A5	4391	1/1	0.97	0.16	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3611	7/7	0.97	0.16	96,96,96,96	7
87	MG	A1	4318	1/1	0.97	0.12	66,66,66,66	0
86	OHX	A1	3469	7/7	0.97	0.15	122,122,122,122	0
86	OHX	A1	3553	7/7	0.97	0.12	110,110,110,110	7
86	OHX	Bj	101	7/7	0.97	0.13	100,100,100,100	7
86	OHX	A5	3625	7/7	0.97	0.15	117,117,117,117	7
86	OHX	A1	3472	7/7	0.97	0.14	109,109,109,109	7
86	OHX	A5	3627	7/7	0.97	0.18	80,80,80,80	7
86	OHX	Cd	101	7/7	0.97	0.14	135,135,135,135	7
86	OHX	A6	1927	7/7	0.97	0.14	129,129,129,129	0
86	OHX	A6	1933	7/7	0.97	0.15	104,104,104,104	7
86	OHX	A6	1934	7/7	0.97	0.16	105,105,105,105	7
87	MG	BP	209	1/1	0.97	0.10	59,59,59,59	0
86	OHX	A6	1940	7/7	0.97	0.12	129,129,129,129	7
86	OHX	A1	3475	7/7	0.97	0.19	98,98,98,98	7
86	OHX	A5	3481	7/7	0.98	0.12	92,92,92,92	7
86	OHX	A5	3483	7/7	0.98	0.11	103,103,103,103	7
86	OHX	A5	3486	7/7	0.98	0.14	75,75,75,75	7
86	OHX	A5	3487	7/7	0.98	0.14	94,94,94,94	7
86	OHX	A6	1937	7/7	0.98	0.13	96,96,96,96	7
86	OHX	A5	3490	7/7	0.98	0.11	113,113,113,113	7
86	OHX	A6	1938	7/7	0.98	0.12	96,96,96,96	7
86	OHX	A6	1939	7/7	0.98	0.08	134,134,134,134	0
86	OHX	A5	3494	7/7	0.98	0.15	97,97,97,97	7
86	OHX	A2	1915	7/7	0.98	0.10	109,109,109,109	7
86	OHX	A5	3497	7/7	0.98	0.13	81,81,81,81	7
86	OHX	A5	3498	7/7	0.98	0.11	89,89,89,89	7
86	OHX	A5	3499	7/7	0.98	0.14	84,84,84,84	7
86	OHX	A5	3500	7/7	0.98	0.12	88,88,88,88	7
86	OHX	A6	1941	7/7	0.98	0.13	112,112,112,112	7
86	OHX	A1	3489	7/7	0.98	0.10	90,90,90,90	7
86	OHX	A5	3504	7/7	0.98	0.12	101,101,101,101	7
86	OHX	A5	3505	7/7	0.98	0.12	94,94,94,94	7
86	OHX	A5	3506	7/7	0.98	0.12	102,102,102,102	7
86	OHX	A6	1943	7/7	0.98	0.11	106,106,106,106	7
86	OHX	A6	1944	7/7	0.98	0.11	115,115,115,115	7
86	OHX	A5	3510	7/7	0.98	0.14	90,90,90,90	7
86	OHX	A2	1916	7/7	0.98	0.12	110,110,110,110	7
86	OHX	A5	3512	7/7	0.98	0.11	111,111,111,111	7
86	OHX	A1	3735	7/7	0.98	0.12	83,83,83,83	7
86	OHX	A5	3515	7/7	0.98	0.12	121,121,121,121	7
86	OHX	A5	3516	7/7	0.98	0.13	89,89,89,89	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3517	7/7	0.98	0.13	80,80,80,80	7
86	OHX	A1	3551	7/7	0.98	0.16	100,100,100,100	7
86	OHX	A5	3519	7/7	0.98	0.14	78,78,78,78	7
86	OHX	A5	3520	7/7	0.98	0.14	113,113,113,113	7
86	OHX	A6	1948	7/7	0.98	0.11	114,114,114,114	7
86	OHX	A6	1949	7/7	0.98	0.12	102,102,102,102	7
86	OHX	A1	3401	7/7	0.98	0.11	121,121,121,121	7
86	OHX	A5	3525	7/7	0.98	0.09	112,112,112,112	7
86	OHX	A2	1933	7/7	0.98	0.12	109,109,109,109	7
86	OHX	A1	3495	7/7	0.98	0.13	101,101,101,101	7
87	MG	A5	3825	1/1	0.98	0.10	29,29,29,29	0
86	OHX	A6	1953	7/7	0.98	0.08	136,136,136,136	7
86	OHX	A1	3496	7/7	0.98	0.14	97,97,97,97	7
86	OHX	A1	3497	7/7	0.98	0.16	100,100,100,100	7
86	OHX	A1	3498	7/7	0.98	0.15	89,89,89,89	7
86	OHX	A1	3500	7/7	0.98	0.14	87,87,87,87	7
86	OHX	A6	1958	7/7	0.98	0.11	133,133,133,133	7
86	OHX	A5	3535	7/7	0.98	0.14	77,77,77,77	7
86	OHX	A1	3501	7/7	0.98	0.14	94,94,94,94	7
86	OHX	A1	3502	7/7	0.98	0.12	78,78,78,78	7
86	OHX	A5	3538	7/7	0.98	0.12	104,104,104,104	7
86	OHX	A2	1917	7/7	0.98	0.11	111,111,111,111	7
87	MG	A1	3865	1/1	0.98	0.03	31,31,31,31	0
86	OHX	A2	1918	7/7	0.98	0.13	99,99,99,99	7
87	MG	A1	4172	1/1	0.98	0.36	54,54,54,54	0
86	OHX	A1	3432	7/7	0.98	0.12	90,90,90,90	0
86	OHX	A1	3441	7/7	0.98	0.10	93,93,93,93	0
86	OHX	A1	3507	7/7	0.98	0.14	75,75,75,75	7
86	OHX	A6	1966	7/7	0.98	0.12	92,92,92,92	7
86	OHX	A1	3442	7/7	0.98	0.12	95,95,95,95	0
86	OHX	A7	201	7/7	0.98	0.13	107,107,107,107	0
87	MG	A1	4025	1/1	0.98	0.42	39,39,39,39	0
86	OHX	A7	202	7/7	0.98	0.13	81,81,81,81	7
86	OHX	A7	203	7/7	0.98	0.13	105,105,105,105	7
86	OHX	A7	205	7/7	0.98	0.12	106,106,106,106	7
87	MG	A5	4475	1/1	0.98	0.17	127,127,127,127	0
86	OHX	A1	3567	7/7	0.98	0.14	88,88,88,88	7
86	OHX	A1	3509	7/7	0.98	0.13	98,98,98,98	7
86	OHX	A7	208	7/7	0.98	0.18	105,105,105,105	7
86	OHX	A2	1919	7/7	0.98	0.10	106,106,106,106	7
86	OHX	A3	203	7/7	0.98	0.12	118,118,118,118	7
86	OHX	A1	3450	7/7	0.98	0.12	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A1	3693	7/7	0.98	0.14	100,100,100,100	7
86	OHX	A1	3451	7/7	0.98	0.12	105,105,105,105	0
86	OHX	A8	203	7/7	0.98	0.10	111,111,111,111	7
86	OHX	A5	3553	7/7	0.98	0.14	75,75,75,75	7
86	OHX	A1	3513	7/7	0.98	0.13	101,101,101,101	7
86	OHX	A1	3514	7/7	0.98	0.13	99,99,99,99	7
86	OHX	A1	3515	7/7	0.98	0.13	115,115,115,115	7
86	OHX	A1	3516	7/7	0.98	0.12	86,86,86,86	7
86	OHX	A5	3558	7/7	0.98	0.14	85,85,85,85	7
86	OHX	A5	3559	7/7	0.98	0.14	109,109,109,109	7
86	OHX	A1	3576	7/7	0.98	0.16	83,83,83,83	7
86	OHX	A1	3517	7/7	0.98	0.12	99,99,99,99	7
86	OHX	A2	1907	7/7	0.98	0.13	104,104,104,104	7
86	OHX	A4	203	7/7	0.98	0.13	93,93,93,93	7
86	OHX	A2	2033	7/7	0.98	0.13	97,97,97,97	7
86	OHX	A2	1922	7/7	0.98	0.10	99,99,99,99	7
86	OHX	A4	206	7/7	0.98	0.13	104,104,104,104	7
86	OHX	A1	3581	7/7	0.98	0.14	73,73,73,73	7
86	OHX	A1	3521	7/7	0.98	0.15	84,84,84,84	7
86	OHX	A5	3569	7/7	0.98	0.12	110,110,110,110	7
87	MG	DF	304	1/1	0.98	0.12	57,57,57,57	0
86	OHX	A1	3522	7/7	0.98	0.14	79,79,79,79	7
86	OHX	DB	401	7/7	0.98	0.11	98,98,98,98	7
86	OHX	A1	3459	7/7	0.98	0.12	86,86,86,86	7
86	OHX	A2	1923	7/7	0.98	0.12	110,110,110,110	7
86	OHX	A1	3461	7/7	0.98	0.12	104,104,104,104	0
86	OHX	A1	3462	7/7	0.98	0.11	91,91,91,91	7
86	OHX	A1	3463	7/7	0.98	0.09	110,110,110,110	7
86	OHX	A1	3528	7/7	0.98	0.15	81,81,81,81	7
86	OHX	A1	3464	7/7	0.98	0.13	88,88,88,88	7
86	OHX	A1	3591	7/7	0.98	0.14	95,95,95,95	7
86	OHX	A5	3579	7/7	0.98	0.14	105,105,105,105	7
86	OHX	A1	3465	7/7	0.98	0.12	94,94,94,94	7
86	OHX	DO	201	7/7	0.98	0.13	93,93,93,93	7
86	OHX	A2	1902	7/7	0.98	0.16	102,102,102,102	0
87	MG	A5	4358	1/1	0.98	0.12	54,54,54,54	0
86	OHX	A1	3471	7/7	0.98	0.13	107,107,107,107	7
86	OHX	A2	1926	7/7	0.98	0.11	112,112,112,112	7
86	OHX	A1	3473	7/7	0.98	0.14	85,85,85,85	7
86	OHX	De	201	7/7	0.98	0.13	91,91,91,91	7
86	OHX	A2	1903	7/7	0.98	0.13	94,94,94,94	0
86	OHX	A2	1990	7/7	0.98	0.12	105,105,105,105	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3537	7/7	0.98	0.15	119,119,119,119	7
86	OHX	Dj	104	7/7	0.98	0.13	105,105,105,105	7
86	OHX	Do	201	7/7	0.98	0.12	89,89,89,89	7
86	OHX	BO	201	7/7	0.98	0.11	97,97,97,97	7
86	OHX	A1	3477	7/7	0.98	0.12	83,83,83,83	7
86	OHX	A1	3478	7/7	0.98	0.11	112,112,112,112	7
86	OHX	A2	1944	7/7	0.98	0.13	109,109,109,109	7
86	OHX	A5	3592	7/7	0.98	0.15	102,102,102,102	7
86	OHX	A1	3480	7/7	0.98	0.15	96,96,96,96	7
86	OHX	A1	3481	7/7	0.98	0.12	97,97,97,97	7
86	OHX	Bj	102	7/7	0.98	0.15	102,102,102,102	7
86	OHX	A2	1912	7/7	0.98	0.13	115,115,115,115	0
86	OHX	A5	3597	7/7	0.98	0.14	95,95,95,95	7
86	OHX	Bo	201	7/7	0.98	0.11	97,97,97,97	7
86	OHX	A6	1908	7/7	0.98	0.16	101,101,101,101	0
86	OHX	A6	1911	7/7	0.98	0.17	100,100,100,100	0
86	OHX	A6	1914	7/7	0.98	0.12	111,111,111,111	0
86	OHX	A6	1917	7/7	0.98	0.12	100,100,100,100	7
86	OHX	A6	1919	7/7	0.98	0.11	104,104,104,104	7
86	OHX	A6	1921	7/7	0.98	0.12	92,92,92,92	7
86	OHX	A5	3401	7/7	0.98	0.13	102,102,102,102	0
86	OHX	A6	1922	7/7	0.98	0.11	108,108,108,108	0
86	OHX	A6	1925	7/7	0.98	0.10	112,112,112,112	7
86	OHX	A1	3483	7/7	0.98	0.12	103,103,103,103	7
86	OHX	A6	1928	7/7	0.98	0.12	73,73,73,73	7
86	OHX	A6	1929	7/7	0.98	0.12	128,128,128,128	0
86	OHX	A6	1930	7/7	0.98	0.11	120,120,120,120	7
86	OHX	A6	1931	7/7	0.98	0.12	84,84,84,84	7
86	OHX	A5	3446	7/7	0.98	0.11	82,82,82,82	0
86	OHX	A6	1932	7/7	0.98	0.12	109,109,109,109	7
86	OHX	A5	3454	7/7	0.98	0.10	103,103,103,103	0
86	OHX	A5	3455	7/7	0.98	0.12	100,100,100,100	0
86	OHX	A5	3459	7/7	0.98	0.12	100,100,100,100	0
86	OHX	A5	3462	7/7	0.98	0.12	102,102,102,102	0
86	OHX	A2	1906	7/7	0.98	0.12	98,98,98,98	0
86	OHX	A5	3759	7/7	0.98	0.13	80,80,80,80	7
86	OHX	A5	3464	7/7	0.98	0.12	98,98,98,98	7
86	OHX	A5	3465	7/7	0.98	0.12	91,91,91,91	7
86	OHX	A1	3485	7/7	0.98	0.12	113,113,113,113	7
86	OHX	A6	1935	7/7	0.98	0.13	102,102,102,102	7
86	OHX	A5	3470	7/7	0.98	0.12	118,118,118,118	0
86	OHX	A6	1936	7/7	0.98	0.13	100,100,100,100	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3475	7/7	0.98	0.12	95,95,95,95	7
87	MG	A5	3939	1/1	0.98	0.35	42,42,42,42	0
88	ZN	Ad	105	1/1	0.98	0.04	83,83,83,83	0
86	OHX	A5	3477	7/7	0.98	0.11	108,108,108,108	7
86	OHX	A5	3479	7/7	0.98	0.10	110,110,110,110	0
86	OHX	A5	3480	7/7	0.98	0.11	101,101,101,101	7
87	MG	A1	4121	1/1	0.98	0.08	74,74,74,74	0
86	OHX	A1	3455	7/7	0.99	0.10	100,100,100,100	0
86	OHX	A1	3456	7/7	0.99	0.11	100,100,100,100	7
86	OHX	Bb	101	7/7	0.99	0.10	77,77,77,77	0
86	OHX	A1	3457	7/7	0.99	0.13	97,97,97,97	7
86	OHX	A2	1904	7/7	0.99	0.11	99,99,99,99	0
86	OHX	A2	1905	7/7	0.99	0.09	88,88,88,88	0
86	OHX	A5	3468	7/7	0.99	0.10	75,75,75,75	7
86	OHX	A5	3469	7/7	0.99	0.09	107,107,107,107	7
86	OHX	A2	1920	7/7	0.99	0.12	115,115,115,115	7
86	OHX	A5	3471	7/7	0.99	0.10	90,90,90,90	7
86	OHX	A1	3408	7/7	0.99	0.15	66,66,66,66	0
86	OHX	A5	3473	7/7	0.99	0.09	82,82,82,82	7
86	OHX	A5	3474	7/7	0.99	0.09	81,81,81,81	7
86	OHX	A6	1901	7/7	0.99	0.14	78,78,78,78	0
86	OHX	A5	3476	7/7	0.99	0.10	103,103,103,103	7
86	OHX	A6	1902	7/7	0.99	0.15	90,90,90,90	0
86	OHX	A5	3478	7/7	0.99	0.12	76,76,76,76	7
86	OHX	A6	1903	7/7	0.99	0.12	84,84,84,84	0
86	OHX	A6	1904	7/7	0.99	0.11	88,88,88,88	0
86	OHX	A5	3737	7/7	0.99	0.10	75,75,75,75	7
86	OHX	A6	1905	7/7	0.99	0.12	88,88,88,88	0
86	OHX	A5	3482	7/7	0.99	0.11	85,85,85,85	7
86	OHX	A6	1906	7/7	0.99	0.09	85,85,85,85	0
86	OHX	A5	3484	7/7	0.99	0.09	99,99,99,99	7
86	OHX	Db	101	7/7	0.99	0.11	86,86,86,86	0
86	OHX	A5	3485	7/7	0.99	0.09	85,85,85,85	7
86	OHX	A6	1907	7/7	0.99	0.12	91,91,91,91	0
86	OHX	A1	3412	7/7	0.99	0.14	76,76,76,76	0
86	OHX	A6	1909	7/7	0.99	0.10	84,84,84,84	0
86	OHX	A5	3489	7/7	0.99	0.11	88,88,88,88	7
86	OHX	A1	3414	7/7	0.99	0.12	77,77,77,77	0
86	OHX	A6	1912	7/7	0.99	0.10	96,96,96,96	0
86	OHX	A5	3492	7/7	0.99	0.11	89,89,89,89	7
86	OHX	A6	1913	7/7	0.99	0.08	91,91,91,91	0
86	OHX	A1	3416	7/7	0.99	0.09	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	A6	1915	7/7	0.99	0.08	87,87,87,87	7
86	OHX	A5	3496	7/7	0.99	0.10	73,73,73,73	7
86	OHX	A6	1916	7/7	0.99	0.11	87,87,87,87	7
86	OHX	A1	3417	7/7	0.99	0.13	82,82,82,82	0
86	OHX	A6	1918	7/7	0.99	0.09	100,100,100,100	0
86	OHX	A1	3466	7/7	0.99	0.12	90,90,90,90	7
86	OHX	A6	1920	7/7	0.99	0.08	87,87,87,87	7
86	OHX	A1	3467	7/7	0.99	0.11	91,91,91,91	7
86	OHX	A5	3503	7/7	0.99	0.12	97,97,97,97	7
86	OHX	A1	3468	7/7	0.99	0.10	74,74,74,74	7
86	OHX	A6	1923	7/7	0.99	0.11	76,76,76,76	7
86	OHX	A6	1924	7/7	0.99	0.10	83,83,83,83	7
86	OHX	A5	3507	7/7	0.99	0.12	75,75,75,75	7
86	OHX	A1	3418	7/7	0.99	0.10	81,81,81,81	0
86	OHX	A6	1926	7/7	0.99	0.11	82,82,82,82	7
86	OHX	A1	3470	7/7	0.99	0.12	96,96,96,96	7
86	OHX	A1	3419	7/7	0.99	0.09	76,76,76,76	0
86	OHX	A1	3421	7/7	0.99	0.09	80,80,80,80	0
86	OHX	A1	3422	7/7	0.99	0.10	78,78,78,78	0
86	OHX	A5	3514	7/7	0.99	0.13	90,90,90,90	7
86	OHX	A1	3474	7/7	0.99	0.10	92,92,92,92	7
86	OHX	A1	3423	7/7	0.99	0.07	75,75,75,75	0
86	OHX	A1	3424	7/7	0.99	0.10	81,81,81,81	0
86	OHX	A1	3425	7/7	0.99	0.11	85,85,85,85	0
86	OHX	A1	3426	7/7	0.99	0.09	73,73,73,73	0
86	OHX	A1	3427	7/7	0.99	0.10	86,86,86,86	0
86	OHX	A1	3428	7/7	0.99	0.10	87,87,87,87	0
86	OHX	A1	3429	7/7	0.99	0.10	87,87,87,87	0
86	OHX	A5	3523	7/7	0.99	0.12	79,79,79,79	7
86	OHX	A1	3430	7/7	0.99	0.13	93,93,93,93	0
86	OHX	A1	3431	7/7	0.99	0.10	89,89,89,89	0
86	OHX	A5	3526	7/7	0.99	0.10	85,85,85,85	7
86	OHX	A2	1938	7/7	0.99	0.09	111,111,111,111	7
86	OHX	A1	3433	7/7	0.99	0.09	85,85,85,85	0
86	OHX	A1	3486	7/7	0.99	0.10	92,92,92,92	7
86	OHX	A1	3487	7/7	0.99	0.12	94,94,94,94	7
86	OHX	A4	201	7/7	0.99	0.13	77,77,77,77	0
86	OHX	A4	202	7/7	0.99	0.10	80,80,80,80	0
86	OHX	A1	3435	7/7	0.99	0.08	85,85,85,85	0
86	OHX	A1	3545	7/7	0.99	0.14	78,78,78,78	7
86	OHX	A1	3436	7/7	0.99	0.07	69,69,69,69	7
86	OHX	A1	3775	7/7	0.99	0.12	69,69,69,69	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3437	7/7	0.99	0.10	74,74,74,74	7
86	OHX	A1	3491	7/7	0.99	0.11	90,90,90,90	7
86	OHX	A1	3492	7/7	0.99	0.12	98,98,98,98	7
86	OHX	A1	3438	7/7	0.99	0.09	91,91,91,91	7
86	OHX	A1	3439	7/7	0.99	0.10	81,81,81,81	7
86	OHX	A1	3440	7/7	0.99	0.11	86,86,86,86	0
86	OHX	A2	1929	7/7	0.99	0.10	90,90,90,90	7
86	OHX	A2	1914	7/7	0.99	0.08	92,92,92,92	7
86	OHX	A1	3443	7/7	0.99	0.09	76,76,76,76	0
86	OHX	A1	3499	7/7	0.99	0.11	83,83,83,83	7
86	OHX	A1	3444	7/7	0.99	0.10	84,84,84,84	0
86	OHX	A1	3445	7/7	0.99	0.09	81,81,81,81	0
86	OHX	A1	3446	7/7	0.99	0.11	79,79,79,79	7
86	OHX	A2	1909	7/7	0.99	0.10	93,93,93,93	7
86	OHX	A1	3448	7/7	0.99	0.10	85,85,85,85	7
86	OHX	A5	3418	7/7	0.99	0.14	77,77,77,77	0
86	OHX	A5	3419	7/7	0.99	0.13	79,79,79,79	0
86	OHX	A5	3420	7/7	0.99	0.10	74,74,74,74	0
86	OHX	A5	3421	7/7	0.99	0.13	81,81,81,81	0
86	OHX	A5	3422	7/7	0.99	0.11	75,75,75,75	0
86	OHX	A5	3424	7/7	0.99	0.15	86,86,86,86	0
86	OHX	A5	3426	7/7	0.99	0.08	67,67,67,67	0
86	OHX	A5	3427	7/7	0.99	0.11	79,79,79,79	0
86	OHX	A5	3428	7/7	0.99	0.11	88,88,88,88	0
86	OHX	A5	3429	7/7	0.99	0.13	84,84,84,84	0
86	OHX	A5	3431	7/7	0.99	0.11	83,83,83,83	0
86	OHX	A5	3433	7/7	0.99	0.09	81,81,81,81	0
87	MG	A1	3959	1/1	0.99	0.33	43,43,43,43	0
86	OHX	A5	3434	7/7	0.99	0.10	85,85,85,85	0
86	OHX	A5	3435	7/7	0.99	0.07	70,70,70,70	0
86	OHX	A5	3436	7/7	0.99	0.09	82,82,82,82	0
86	OHX	A5	3437	7/7	0.99	0.12	83,83,83,83	0
86	OHX	A5	3438	7/7	0.99	0.13	91,91,91,91	0
86	OHX	A5	3439	7/7	0.99	0.09	81,81,81,81	0
86	OHX	A7	204	7/7	0.99	0.10	75,75,75,75	7
86	OHX	A1	3449	7/7	0.99	0.10	99,99,99,99	0
86	OHX	A5	3442	7/7	0.99	0.08	85,85,85,85	0
86	OHX	A5	3443	7/7	0.99	0.08	75,75,75,75	7
86	OHX	A5	3444	7/7	0.99	0.10	74,74,74,74	7
86	OHX	A2	1972	7/7	0.99	0.10	138,138,138,138	7
86	OHX	A2	1910	7/7	0.99	0.11	104,104,104,104	0
86	OHX	A5	3448	7/7	0.99	0.09	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A5	3449	7/7	0.99	0.09	85,85,85,85	7
86	OHX	A5	3450	7/7	0.99	0.07	76,76,76,76	7
86	OHX	A5	3451	7/7	0.99	0.08	81,81,81,81	7
86	OHX	A5	3452	7/7	0.99	0.10	86,86,86,86	7
86	OHX	A5	3453	7/7	0.99	0.12	102,102,102,102	0
86	OHX	A1	3452	7/7	0.99	0.07	81,81,81,81	7
86	OHX	A2	1901	7/7	0.99	0.14	95,95,95,95	0
88	ZN	Aa	202	1/1	0.99	0.04	92,92,92,92	0
86	OHX	A5	3456	7/7	0.99	0.11	85,85,85,85	7
86	OHX	A5	3457	7/7	0.99	0.09	86,86,86,86	7
88	ZN	Af	202	1/1	0.99	0.03	113,113,113,113	0
88	ZN	Bm	202	1/1	0.99	0.03	56,56,56,56	0
86	OHX	A5	3458	7/7	0.99	0.11	91,91,91,91	0
88	ZN	Bp	501	1/1	0.99	0.03	68,68,68,68	0
86	OHX	A2	1925	7/7	0.99	0.07	138,138,138,138	0
88	ZN	Cd	103	1/1	0.99	0.02	71,71,71,71	0
86	OHX	A5	3460	7/7	0.99	0.09	80,80,80,80	7
86	OHX	A5	3461	7/7	0.99	0.09	82,82,82,82	7
88	ZN	Dp	104	1/1	0.99	0.03	79,79,79,79	0
86	OHX	A5	3413	7/7	1.00	0.16	71,71,71,71	0
86	OHX	A5	3430	7/7	1.00	0.08	80,80,80,80	0
86	OHX	A5	3414	7/7	1.00	0.15	69,69,69,69	0
86	OHX	A5	3432	7/7	1.00	0.07	73,73,73,73	0
86	OHX	A5	3415	7/7	1.00	0.13	67,67,67,67	0
86	OHX	A5	3416	7/7	1.00	0.11	68,68,68,68	0
86	OHX	A5	3417	7/7	1.00	0.13	72,72,72,72	0
86	OHX	A1	3411	7/7	1.00	0.11	71,71,71,71	0
86	OHX	A8	202	7/7	1.00	0.12	77,77,77,77	0
86	OHX	A1	3409	7/7	1.00	0.13	70,70,70,70	0
86	OHX	A1	3413	7/7	1.00	0.13	75,75,75,75	0
86	OHX	A1	3410	7/7	1.00	0.11	68,68,68,68	0
86	OHX	A5	3440	7/7	1.00	0.07	63,63,63,63	7
88	ZN	Bj	111	1/1	1.00	0.02	44,44,44,44	0
86	OHX	A6	1910	7/7	1.00	0.07	84,84,84,84	0
86	OHX	A5	3423	7/7	1.00	0.07	68,68,68,68	0
86	OHX	BT	201	7/7	1.00	0.08	78,78,78,78	0
88	ZN	Ca	202	1/1	1.00	0.03	73,73,73,73	0
86	OHX	A5	3425	7/7	1.00	0.08	72,72,72,72	0
86	OHX	A5	3445	7/7	1.00	0.07	73,73,73,73	0
86	OHX	A1	3420	7/7	1.00	0.07	69,69,69,69	0
88	ZN	Dj	105	1/1	1.00	0.02	48,48,48,48	0
88	ZN	Dm	202	1/1	1.00	0.01	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	A1	3415	7/7	1.00	0.07	68,68,68,68	0
86	OHX	A1	3434	7/7	1.00	0.07	72,72,72,72	7

6.5 Other polymers [i](#)

There are no such residues in this entry.