Full wwPDB EM Validation Report (i)

Sep 23, 2025 – 10:57 am BST

PDB ID	:	5LKS / pdb_00005lks
EMDB ID	:	EMD-4070
Title	:	Structure-function insights reveal the human ribosome as a cancer target for antibiotics
Authors	:	Myasnikov, A.G.; Natchiar, S.K.; Nebout, M.; Hazemann, I.; Imbert, V.; Khatter, H.; Peyron, J.-F.; Klaholz, B.P.
Deposited on	:	2016-07-23
Resolution	:	3.60 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

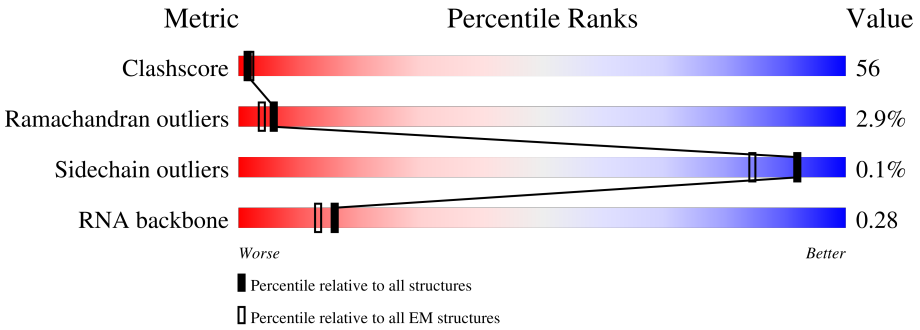
EMDB validation analysis	:	0.0.1.dev129
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.46

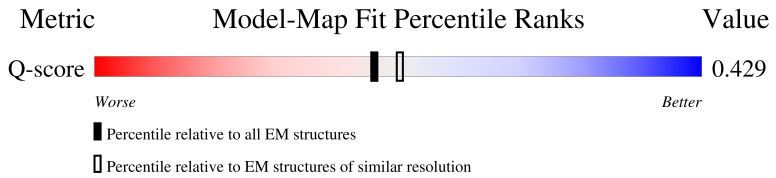
1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.60 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
RNA backbone	6643	2191	-
Q-score	-	25397	12797 (3.10 - 4.10)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	L5	5070	8% 42% 24% 26%
2	L7	121	17% 58% 25%
3	L8	157	9% 64% 26%

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Mol	Chain	Length	Quality of chain
4	LA	257	34% 59%
5	LB	403	30% 65%
6	LC	427	30% 54% 14%
7	LD	297	29% 65%
8	LE	288	22% 59% 16%
9	LF	248	25% 62% 9%
10	LG	266	28% 58% 5% 9%
11	LH	192	28% 68%
12	LI	214	30% 62% 7%
13	LJ	178	23% 72%
14	LL	211	32% 64%
15	LM	215	21% 41% 35%
16	LN	204	32% 65%
17	LO	203	40% 58%
18	LP	184	29% 51% 17%
19	LQ	188	35% 62%
20	LR	196	38% 56% 5%
21	LS	176	27% 70%
22	LT	160	46% 50%
23	LU	128	23% 55% 21%
24	LV	140	27% 64% 6%
25	LW	157	6% 27% 48% 21%
26	LX	156	32% 42% 24%
27	LY	145	32% 57% 8%
28	LZ	136	30% 68%

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Mol	Chain	Length	Quality of chain
29	La	148	30% 64% 5%
30	Lb	157	20% 27% 52%
31	Lc	115	28% 57% 15%
32	Ld	125	31% 54% 14%
33	Le	135	29% 63% 5%
34	Lf	110	30% 67%
35	Lg	117	33% 62%
36	Lh	123	37% 61%
37	Li	105	32% 64%
38	Lj	97	22% 63% 11%
39	Lk	70	37% 59%
40	Ll	51	37% 59%
41	Lm	128	15% 25% 59%
42	Ln	25	32% 44% 20%
43	Lo	106	42% 54%
44	Lp	92	29% 67%
45	Lr	137	33% 56% 9%
46	Lz	217	44% 36% 57% 6%
47	S2	1869	8% 51% 34% 7%
48	SA	295	14% 59% 25%
49	SB	264	20% 58% 19%
50	SD	243	21% 69% 7%
51	SE	263	29% 67%
52	SF	204	18% 70% 8%
53	SH	194	22% 73%

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Mol	Chain	Length	Quality of chain
54	SI	208	31% 65%
55	SK	165	10% 47% 41%
56	SL	158	33% 58% 6%
57	SP	145	12% 50% 33%
58	SQ	146	14% 79% 8%
59	SR	135	21% 71% 6%
60	SS	152	22% 73%
61	ST	145	25% 72%
62	SU	119	20% 63% 13%
63	SV	83	23% 72% 5%
64	SX	143	41% 51% 6%
65	Sa	115	26% 61% 5% 7%
66	Sc	69	17% 70% 6% 7%
67	Sd	56	27% 68% 5%
68	Sg	317	15% 78% 5%
69	SC	293	21% 52% 24%
70	SG	249	21% 71% 5%
71	SJ	194	27% 64% 5%
72	SM	132	8% 21% 65% 6% 8%
73	SN	151	31% 66%
74	SO	151	24% 67% 7%
75	SW	130	32% 65%
76	SY	133	20% 75%
77	SZ	125	5% 15% 42% 40%
78	Sb	84	26% 67% 6%

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Mol	Chain	Length	Quality of chain
79	Se	133	19% 22% 56%
80	Sf	156	15% 26% 57%

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
81	3HE	L5	5101	-	-	X	-

2 Entry composition (i)

There are 84 unique types of molecules in this entry. The entry contains 217138 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 28S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	L5	3776	80184	35672	14597	26140	3775	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L5	4941	G	C	conflict	GB 86475748
L5	4942	C	A	conflict	GB 86475748

- Molecule 2 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
2	L7	120	2558	1141	456	842	119	0	0

- Molecule 3 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
3	L8	156	3314	1480	585	1094	155	0	0

- Molecule 4 is a protein called 60S ribosomal protein L8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	LA	248	1898	1189	389	314	6	0	0

- Molecule 5 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	LB	402	3238	2060	608	556	14	0	0

- Molecule 6 is a protein called 60S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	LC	368	2927	1840	583	489	15	0	0

- Molecule 7 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	LD	293	2382	1507	434	427	14	0	0

- Molecule 8 is a protein called 60S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	LE	243	1967	1263	374	326	4	0	0

- Molecule 9 is a protein called 60S ribosomal protein L7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	LF	225	1870	1202	358	301	9	0	0

- Molecule 10 is a protein called 60S ribosomal protein L7a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	LG	241	1927	1228	371	324	4	0	0

- Molecule 11 is a protein called 60S ribosomal protein L9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	LH	190	1518	956	284	272	6	0	0

- Molecule 12 is a protein called 60S ribosomal protein L10-like.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	LI	213	1711	1082	329	285	15	0	0

- Molecule 13 is a protein called 60S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	LJ	176	1410	888	263	253	6	0	0

- Molecule 14 is a protein called 60S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	LL	210	1701	1064	352	281	4	0	0

- Molecule 15 is a protein called 60S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	LM	139	1138	730	218	183	7	0	0

- Molecule 16 is a protein called 60S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	LN	203	1701	1072	359	266	4	0	0

- Molecule 17 is a protein called 60S ribosomal protein L13a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	LO	201	1650	1063	321	261	5	0	0

- Molecule 18 is a protein called 60S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
18	LP	153	1242	776	241	216	9	0	0

- Molecule 19 is a protein called 60S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
19	LQ	187	1513	944	314	250	5	0	0

- Molecule 20 is a protein called 60S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	LR	187	1566	971	336	250	9	0	0

- Molecule 21 is a protein called 60S ribosomal protein L18a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	LS	175	1453	925	283	235	10	0	0

- Molecule 22 is a protein called 60S ribosomal protein L21.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
22	LT	159	1298	823	252	217	6	0	0

- Molecule 23 is a protein called 60S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
23	LU	101	825	529	144	150	2	0	0

- Molecule 24 is a protein called 60S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
24	LV	131	979	618	184	172	5	0	0

- Molecule 25 is a protein called 60S ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
25	LW	124	1015	634	207	170	4	0	0

- Molecule 26 is a protein called 60S ribosomal protein L23a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	LX	119	976	625	184	166	1	0	0

- Molecule 27 is a protein called 60S ribosomal protein L26.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	LY	134	1115	700	226	186	3	0	0

- Molecule 28 is a protein called 60S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
28	LZ	135	1107	714	208	182	3	0	0

- Molecule 29 is a protein called 60S ribosomal protein L27a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	La	147	1162	736	237	186	3	0	0

- Molecule 30 is a protein called Ribosomal protein L29, isoform CRA_a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	Lb	75	610	378	130	99	3	0	0

- Molecule 31 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	Lc	98	764	485	135	138	6	0	0

- Molecule 32 is a protein called 60S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	Ld	107	888	560	171	155	2	0	0

- Molecule 33 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
33	Le	128	1053	667	216	165	5	0	0

- Molecule 34 is a protein called 60S ribosomal protein L35a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
34	Lf	109	876	555	174	144	3	0	0

- Molecule 35 is a protein called 60S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
35	Lg	113	895	560	183	146	6	0	0

- Molecule 36 is a protein called 60S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
36	Lh	122	1015	641	205	168	1	0	0

- Molecule 37 is a protein called 60S ribosomal protein L36.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
37	Li	102	832	521	177	129	5	0	0

- Molecule 38 is a protein called 60S ribosomal protein L37.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
38	Lj	86	705	434	155	111	5	0	0

- Molecule 39 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
39	Lk	69	569	366	103	99	1	0	0

- Molecule 40 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
40	Ll	50	444	281	98	64	1	0	0

- Molecule 41 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	Lm	52	429	266	90	67	6	0	0

- Molecule 42 is a protein called 60S ribosomal protein L41.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	Ln	24	230	139	62	26	3	0	0

- Molecule 43 is a protein called 60S ribosomal protein L36a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	Lo	105	862	542	175	139	6	0	0

- Molecule 44 is a protein called 60S ribosomal protein L37a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	Lp	91	708	445	136	120	7	0	0

- Molecule 45 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	Lr	125	1002	622	207	168	5	0	0

- Molecule 46 is a protein called 60S ribosomal protein L10a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	Lz	217	1741	1113	312	307	9	0	0

- Molecule 47 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
47	S2	1742	36900	16458	6595	12106	1741	0	0

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
S2	582	C	U	conflict	GB 36162
S2	583	C	A	conflict	GB 36162
S2	584	G	A	conflict	GB 36162
S2	798	A	G	conflict	GB 36162
S2	1095	U	C	conflict	GB 36162

- Molecule 48 is a protein called 40S ribosomal protein SA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
48	SA	221	1741	1106	305	322	8	0	0

- Molecule 49 is a protein called 40S ribosomal protein S3a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
49	SB	214	1738	1103	310	311	14	0	0

- Molecule 50 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
50	SD	227	1765	1125	317	315	8	0	0

- Molecule 51 is a protein called 40S ribosomal protein S4, X isoform.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
51	SE	262	2076	1324	386	358	8	0	0

- Molecule 52 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
52	SF	187	1479	924	282	266	7	0	0

- Molecule 53 is a protein called 40S ribosomal protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
53	SH	189	1521	969	280	271	1	0	0

- Molecule 54 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
54	SI	206	1686	1058	332	291	5	0	0

- Molecule 55 is a protein called 40S ribosomal protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
55	SK	98	827	539	148	134	6	0	0

- Molecule 56 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
56	SL	153	1247	793	234	214	6	0	0

- Molecule 57 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
57	SP	97	804	505	155	138	6	0	0

- Molecule 58 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
58	SQ	146	1158	736	218	200	4	0	0

- Molecule 59 is a protein called 40S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
59	SR	132	1072	673	199	195	5	0	0

- Molecule 60 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
60	SS	150	1235	776	250	208	1	0	0

- Molecule 61 is a protein called 40S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
61	ST	143	1112	697	214	198	3	0	0

- Molecule 62 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
62	SU	104	821	514	155	148	4	0	0

- Molecule 63 is a protein called 40S ribosomal protein S21.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
63	SV	83	636	393	117	121	5	0	0

- Molecule 64 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
64	SX	141	1098	693	219	183	3	0	0

- Molecule 65 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
65	Sa	107	847	528	176	138	5	0	0

- Molecule 66 is a protein called 40S ribosomal protein S28.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
66	Sc	64	506	308	102	94	2	0	0

- Molecule 67 is a protein called 40S ribosomal protein S29.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
67	Sd	53	445	278	90	72	5	0	0

- Molecule 68 is a protein called Receptor of activated protein C kinase 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
68	Sg	313	2436	1535	424	465	12	0	0

- Molecule 69 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
69	SC	222	1725	1115	298	302	10	0	0

- Molecule 70 is a protein called 40S ribosomal protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
70	SG	237	1923	1200	387	329	7	0	0

- Molecule 71 is a protein called 40S ribosomal protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
71	SJ	185	1525	969	306	248	2	0	0

- Molecule 72 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
72	SM	122	952	596	169	179	8	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SM	52	GLN	LEU	conflict	UNP P25398
SM	69	LEU	CYS	conflict	UNP P25398
SM	99	ASN	LYS	conflict	UNP P25398

- Molecule 73 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
73	SN	150	1208	773	229	205	1	0	0

- Molecule 74 is a protein called 40S ribosomal protein S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
74	SO	140	1049	642	204	197	6	0	0

- Molecule 75 is a protein called 40S ribosomal protein S15a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
75	SW	129	1034	659	193	176	6	0	0

- Molecule 76 is a protein called 40S ribosomal protein S24.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
76	SY	131	1065	673	209	178	5	0	0

- Molecule 77 is a protein called 40S ribosomal protein S25.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
77	SZ	75	598	382	111	104	1	0	0

- Molecule 78 is a protein called 40S ribosomal protein S27.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
78	Sb	83	651	408	121	115	7	0	0

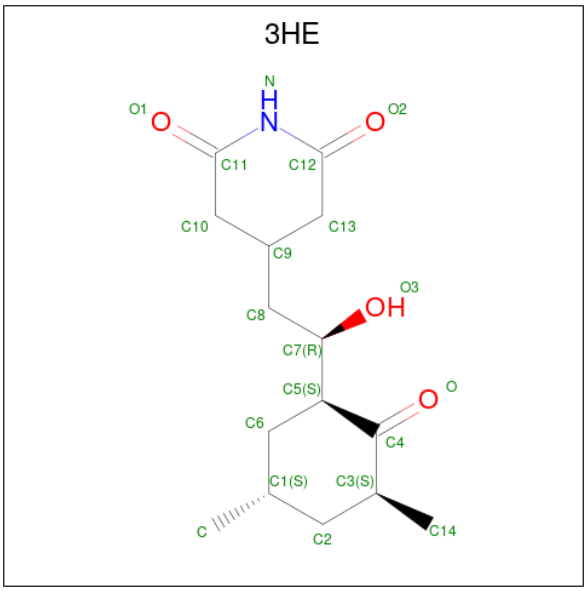
- Molecule 79 is a protein called Ribosomal protein S30.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
79	Se	58	459	284	100	74	1	0	0

- Molecule 80 is a protein called Ubiquitin-40S ribosomal protein S27a.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
80	Sf	67	548	346	102	93	7	0	0

- Molecule 81 is 4-{(2R)-2-[(1S,3S,5S)-3,5-dimethyl-2-oxocyclohexyl]-2-hydroxyethyl}piperidine-2,6-dione (CCD ID: 3HE) (formula: $C_{15}H_{23}NO_4$).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
81	L5	1	20	15	1	4	0

- Molecule 82 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
82	L5	160	160	160	0
82	L7	3	3	3	0
82	L8	4	4	4	0
82	LC	1	1	1	0
82	LD	1	1	1	0
82	LI	1	1	1	0
82	LP	1	1	1	0
82	LS	2	2	2	0
82	LV	1	1	1	0
82	Le	1	1	1	0
82	S2	48	48	48	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
82	Sa	1	1	1	0

- Molecule 83 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
			Total	Zn	
83	Lg	1	1	1	0
			Total	Zn	
83	Lj	1	1	1	0
			Total	Zn	
83	Lm	1	1	1	0
			Total	Zn	
83	Lo	1	1	1	0
			Total	Zn	
83	Lp	1	1	1	0
			Total	Zn	
83	Sa	1	1	1	0
			Total	Zn	
83	Sd	1	1	1	0
			Total	Zn	
83	Sf	1	1	1	0

- Molecule 84 is water.

Mol	Chain	Residues	Atoms		AltConf
			Total	O	
84	L5	13	13	13	0
			Total	O	
84	L8	1	1	1	0
			Total	O	
84	LA	1	1	1	0
			Total	O	
84	LD	1	1	1	0
			Total	O	
84	LN	1	1	1	0
			Total	O	
84	LT	1	1	1	0
			Total	O	
84	Le	1	1	1	0
			Total	O	
84	Lp	1	1	1	0

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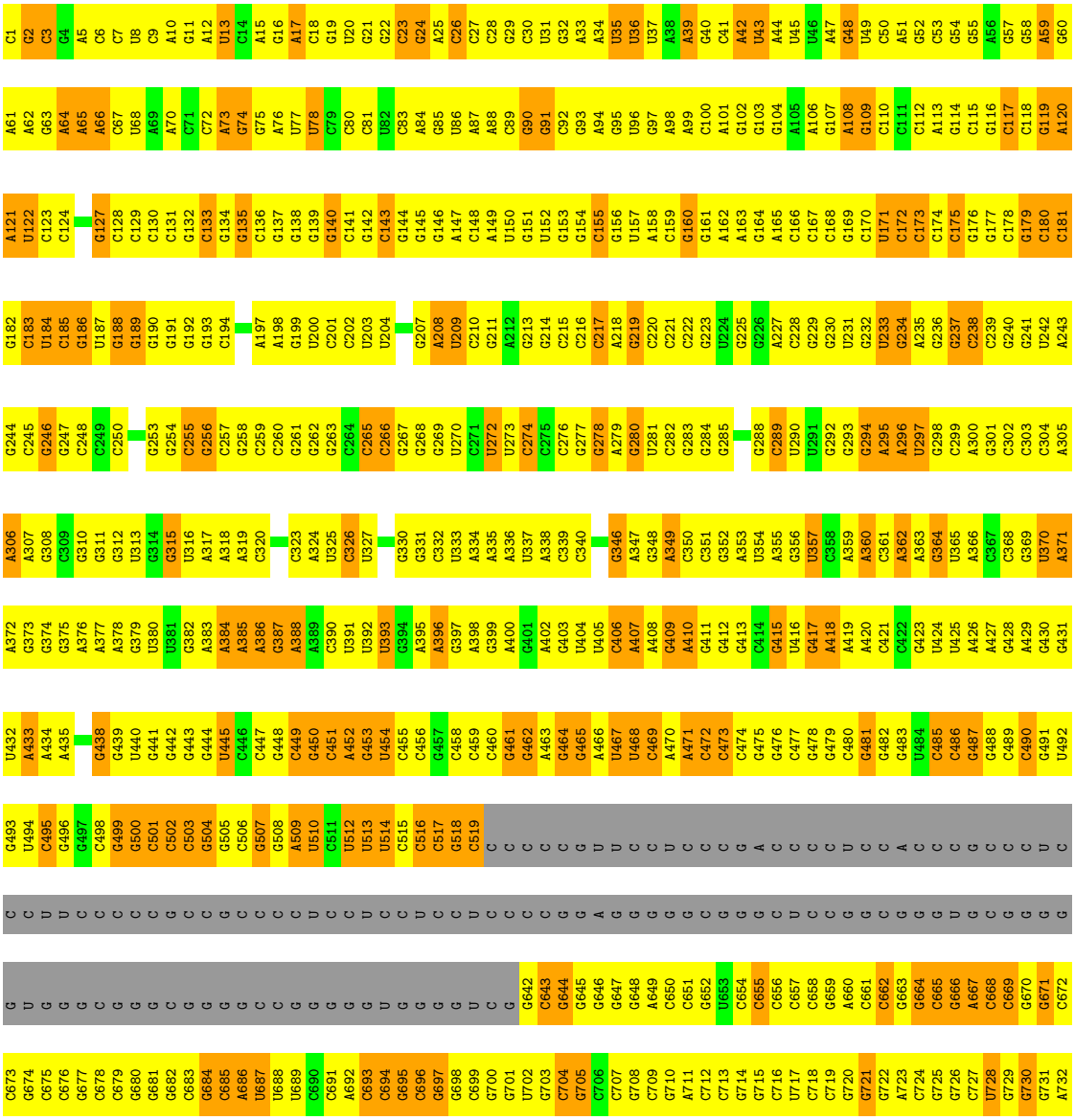
Mol	Chain	Residues	Atoms		AltConf
			Total	O	
84	S2	6	6	6	0
			Total	O	
84	SV	1	1	1	0
			Total	O	
84	SX	1	1	1	0
			Total	O	
84	SN	1	1	1	0
			Total	O	
84	SW	2	2	2	0

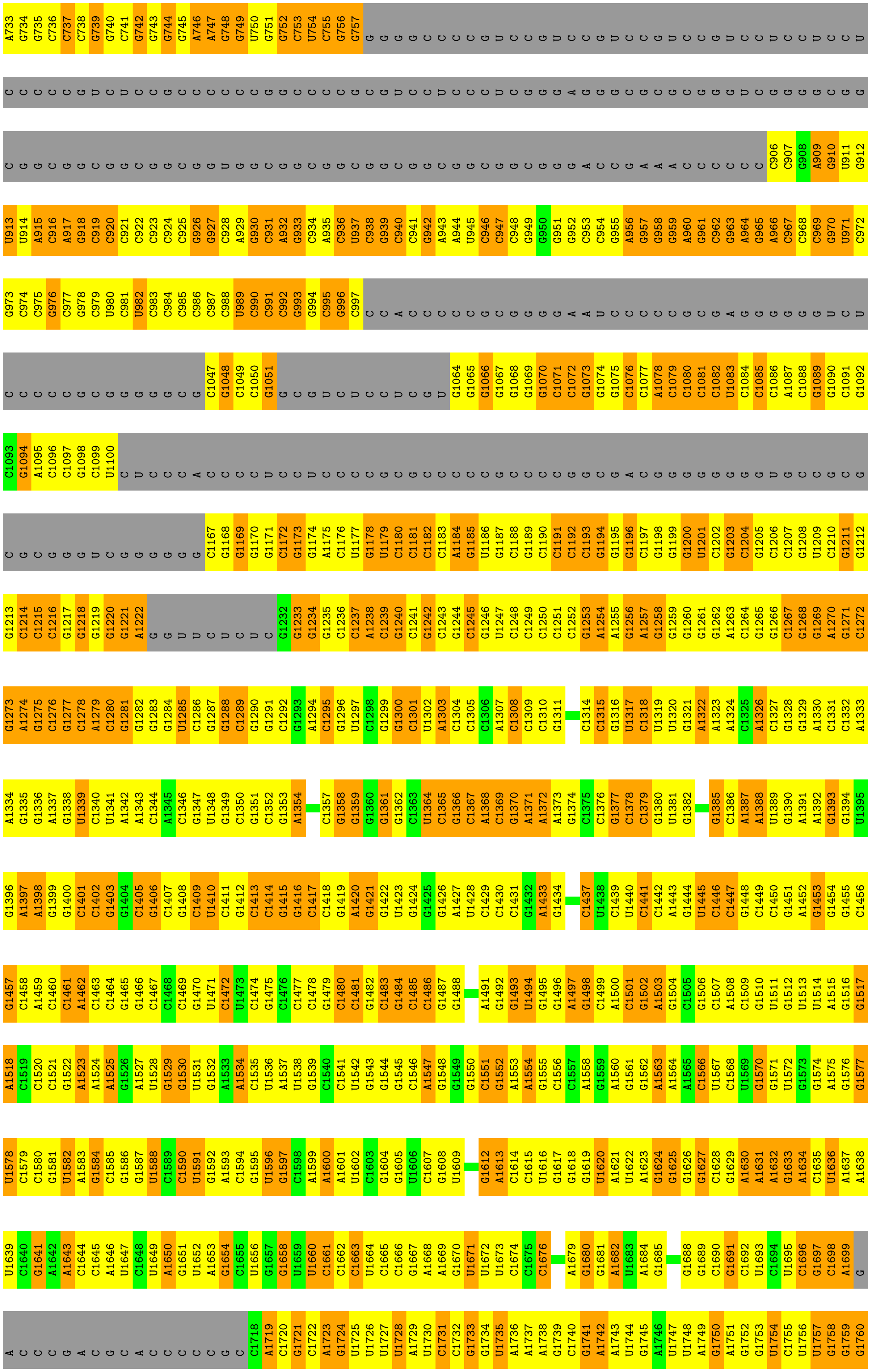
3 Residue-property plots (i)

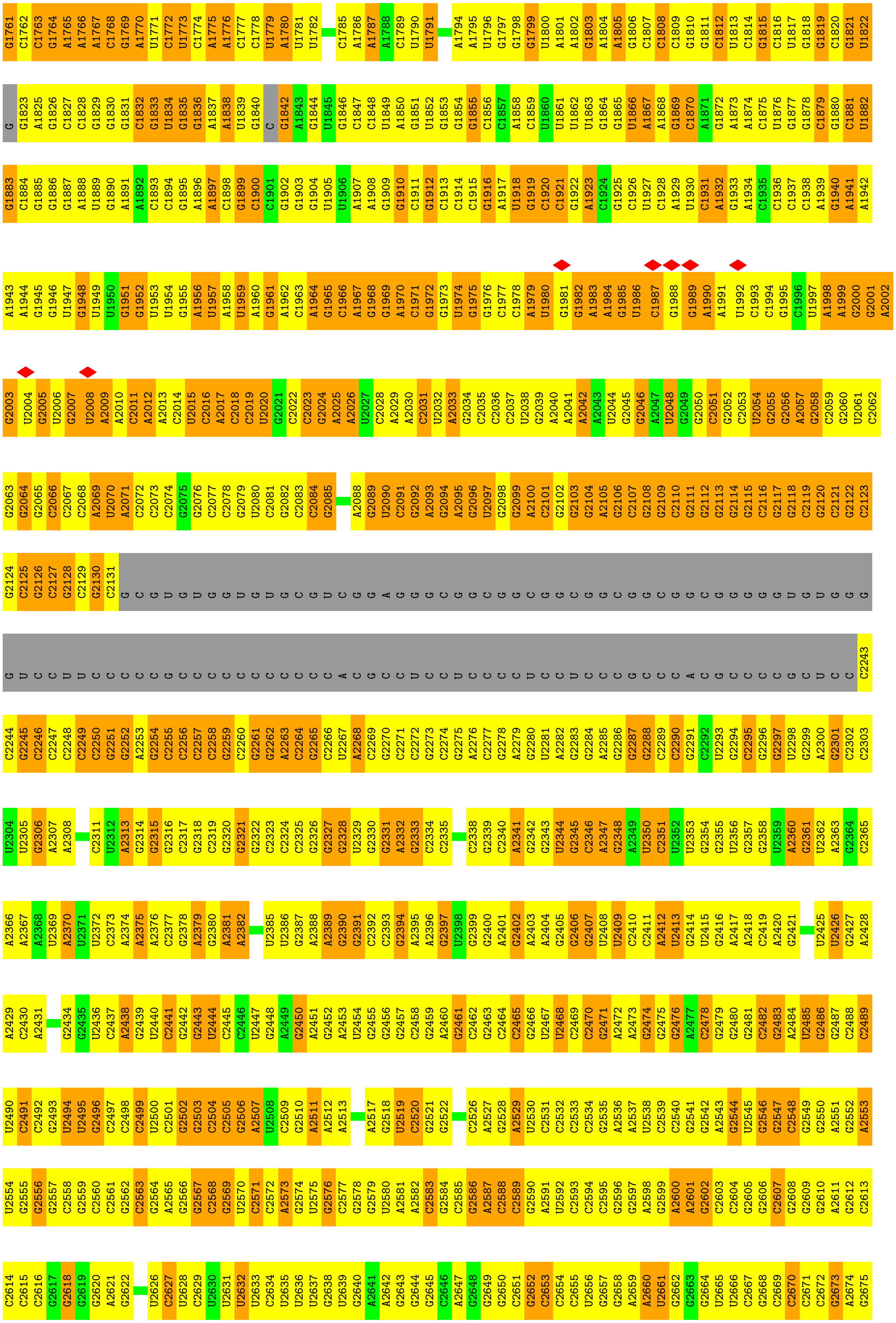
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: 28S ribosomal RNA

Chain L5: 8% 42% 24% 26%



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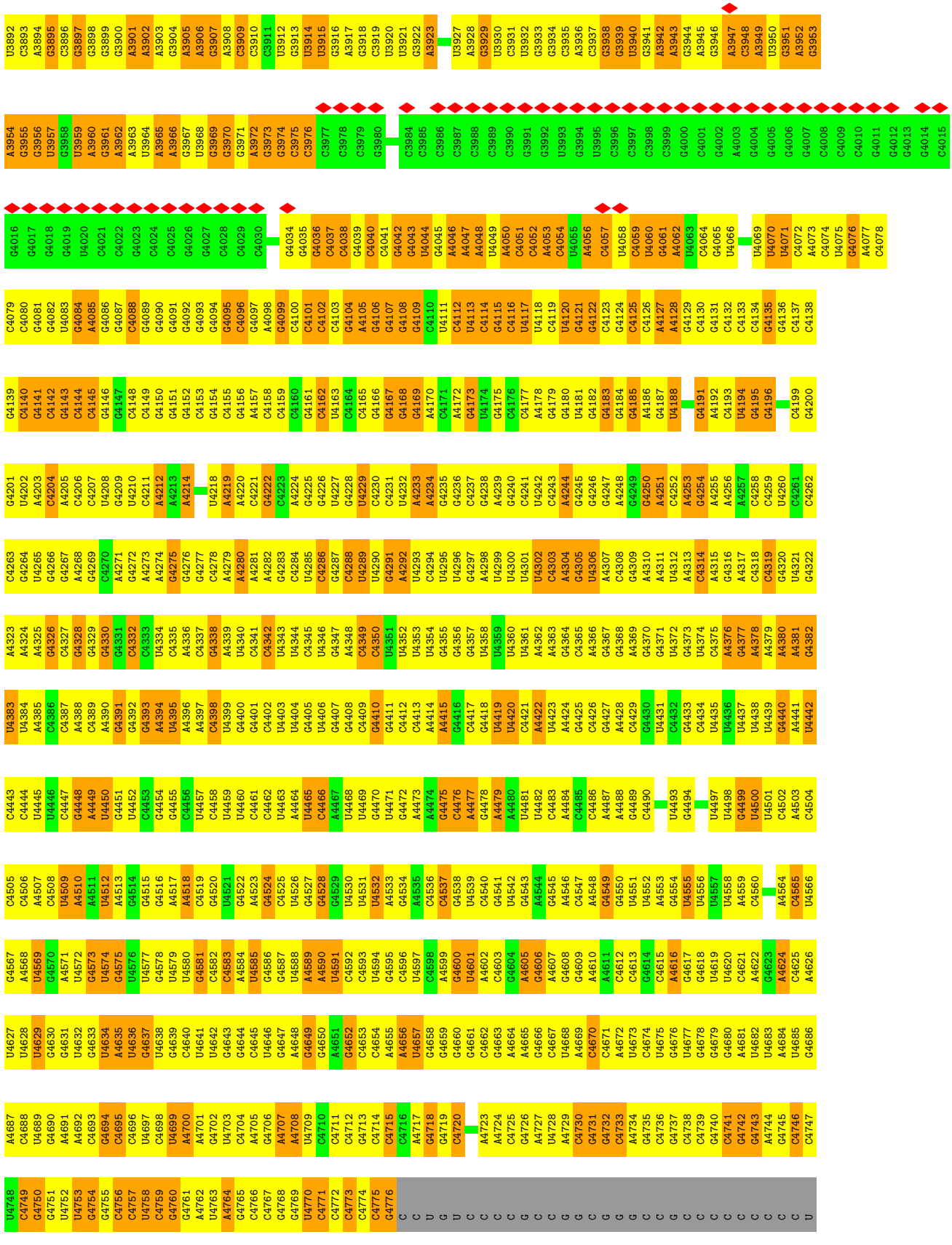
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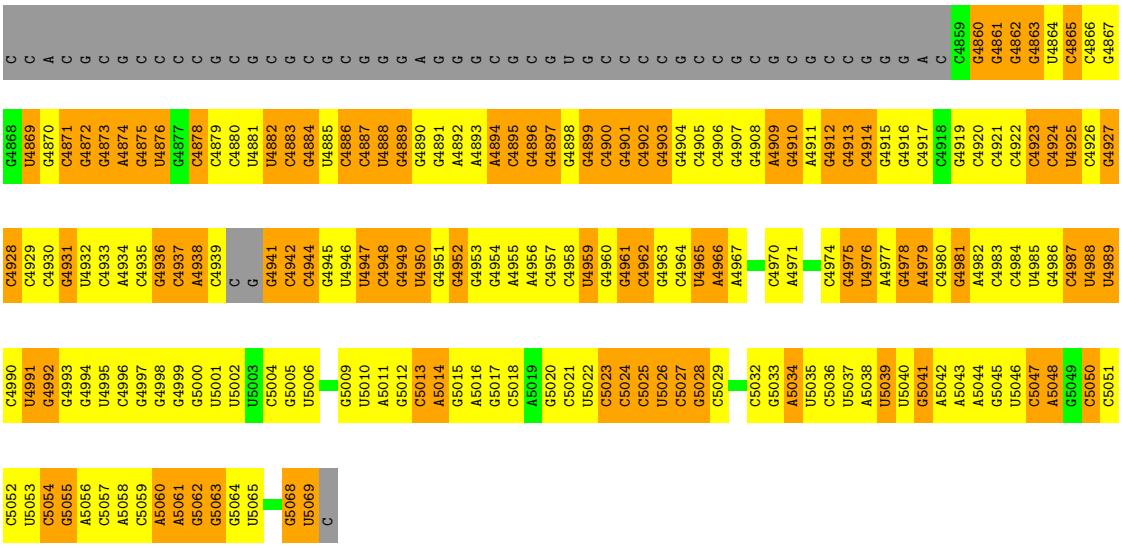
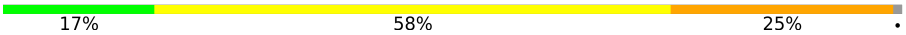
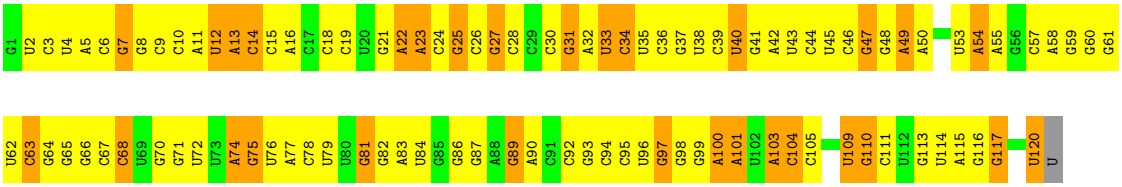


- Molecule 2: 5S ribosomal RNA

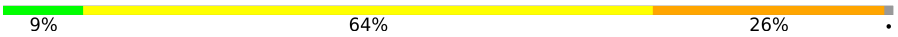
Chain L7:

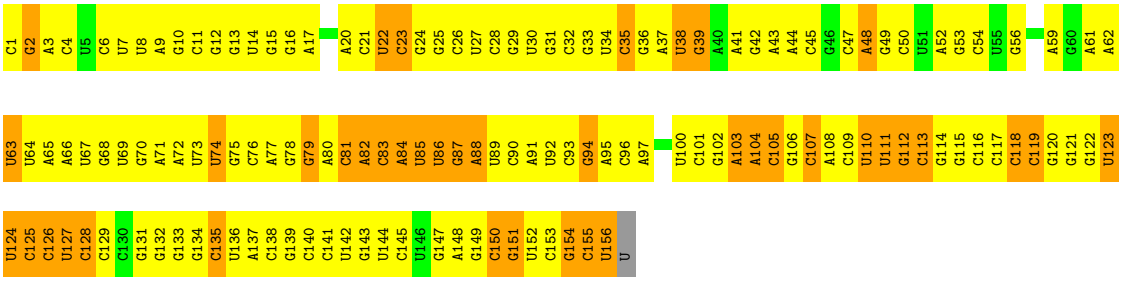




- Molecule 3: 5.8S ribosomal RNA

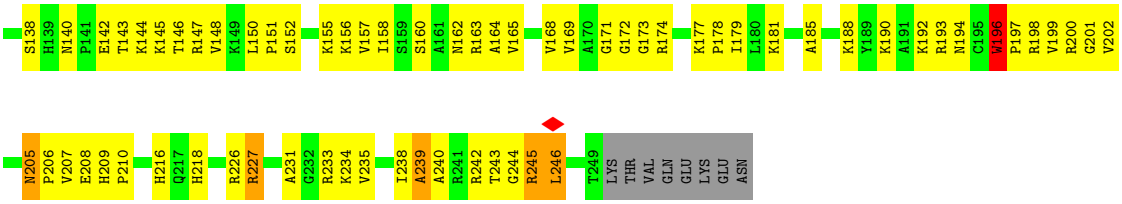
Chain L8:





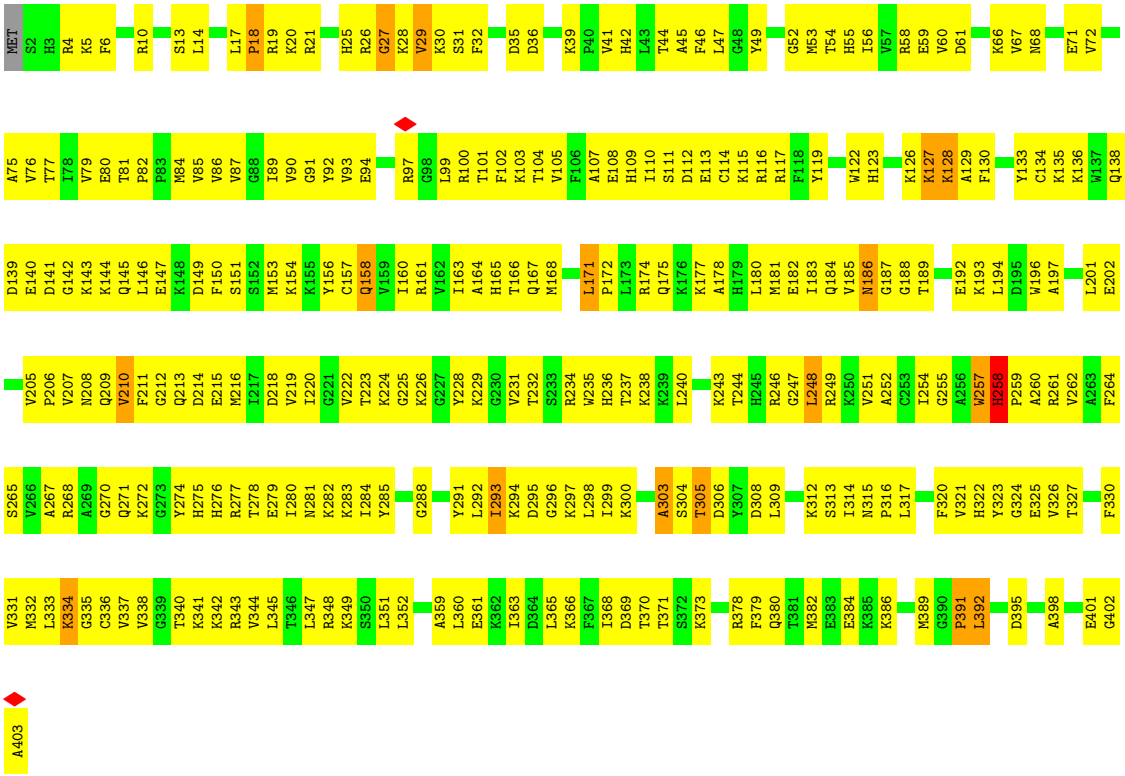
- Molecule 4: 60S ribosomal protein L8

Chain LA:



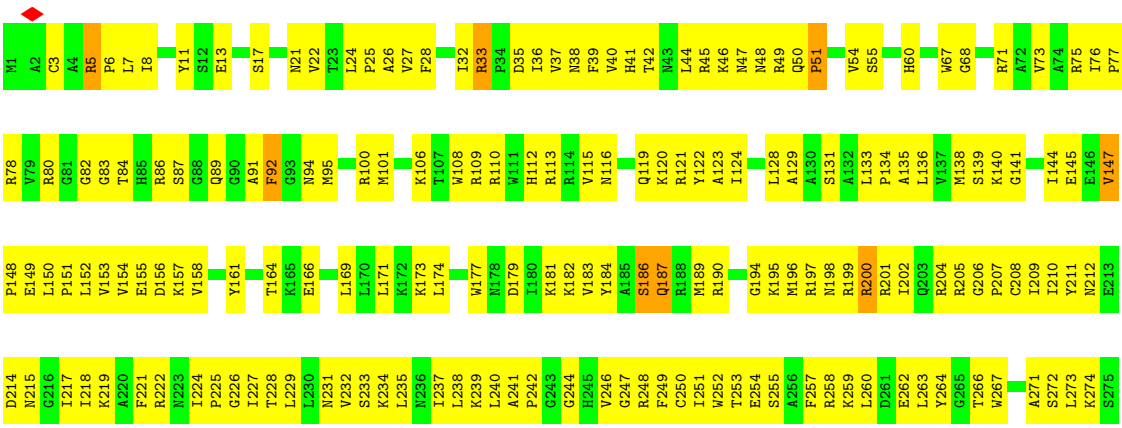
• Molecule 5: 60S ribosomal protein L3

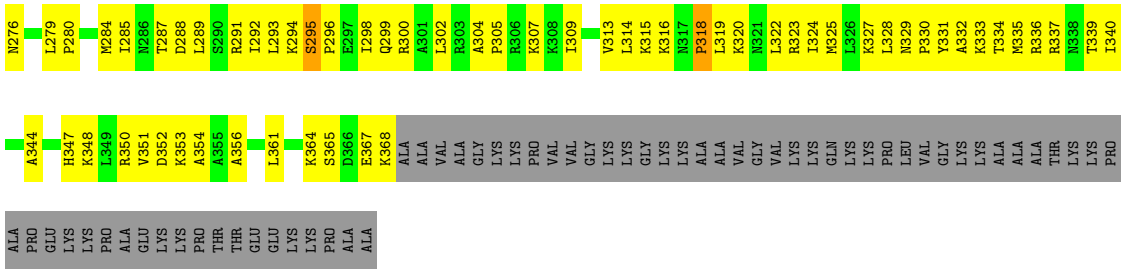
Chain LB: 30% 65% •



• Molecule 6: 60S ribosomal protein L4

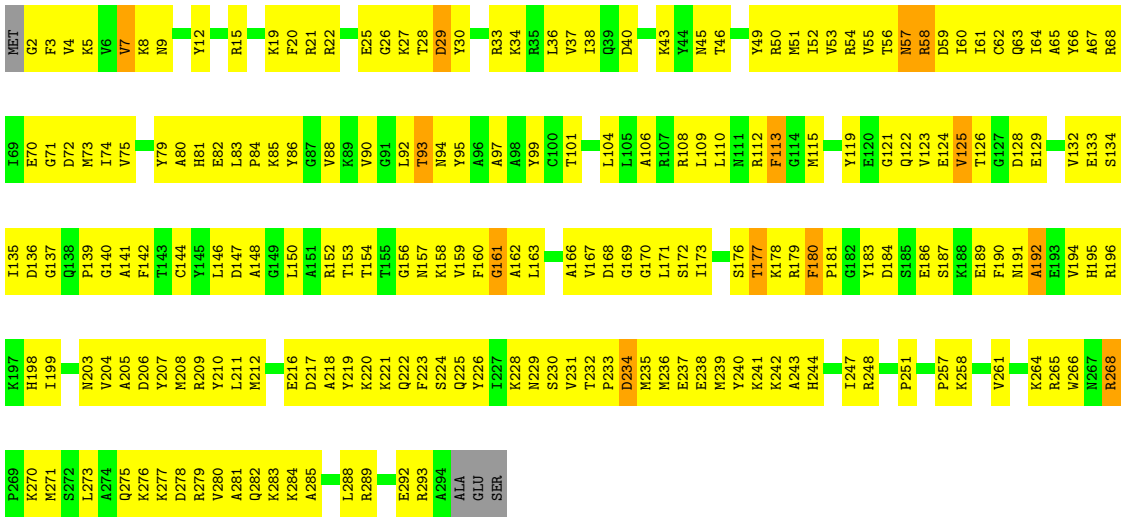
Chain LC: 30% 54% • 14%





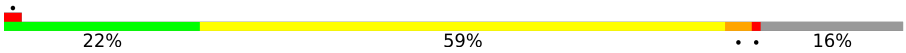
- Molecule 7: 60S ribosomal protein L5

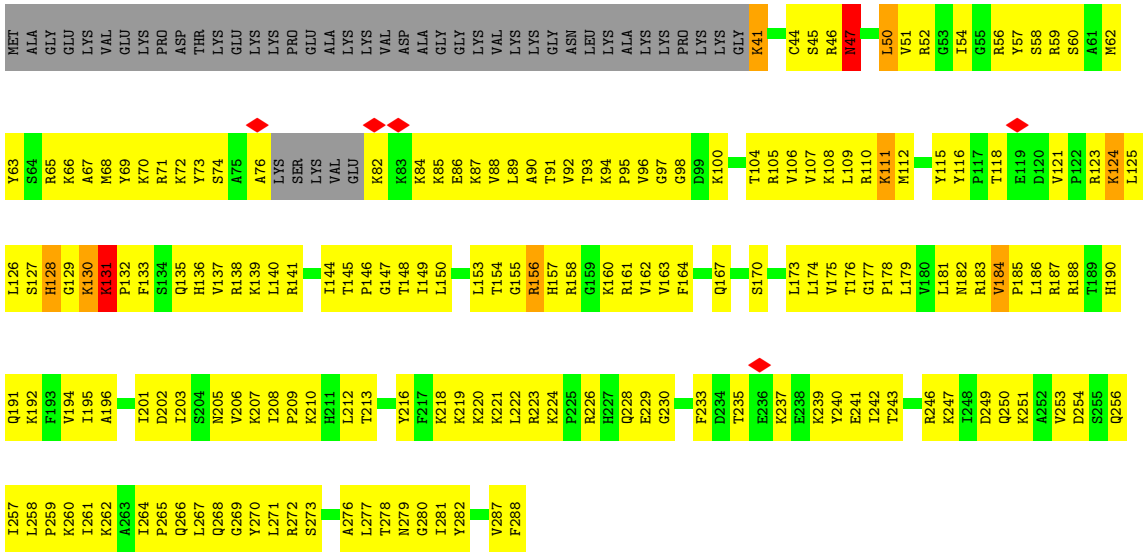
Chain LD:



- Molecule 8: 60S ribosomal protein L6

Chain LE:





- Molecule 9: 60S ribosomal protein L7

Chain LF: 25% 62% • 9%

MET GLU GLY VAL GLU GLU LYS LYS LYS GLU VAL PRO ALA VAL PRO GLU THR LEU LYS LYS LYS ARG ARG N24 F25 A26 E27 L28 K29 I30 K31 R34 K35 K36 F37 A38 Q39 K40 M41 L42 R43 K44 A45 R46 R47 K48 L49 I50 Y51 E52 K53 A54 K55 H56 K59 Q63 M64

Y65 R66 T67 E68 I69 R70 M71 A72 R73 M74 A75 R76 G79 N80 F81 Y82 V83 P84 A85 E86 P87 K88 L89 A90 F91 V92 I93 R94 I95 R96 V101 S102 P103 K104 V105 R106 K107 V108 L109 Q110 L111 L112 R113 L114 R115 Q116 I117 F118 N119 G120 T121 F122 V123 K124 L125 N126 K127

I130 N131 R134 I135 V136 E137 P138 Y139 I140 A141 W142 G143 Y144 L147 K148 S149 V150 N151 E152 L153 I154 Y155 Y159 G160 K161 I162 N163 K164 K165 R166 I167 A168 L169 T170 A173 L174 I175 A176 R177 S178 L179 G180 K181 Y182 G183 I184 I185 C186 M187 E188 D189 L190 I191 H192 E193 I194

Y195 T196 V197 G198 K199 R200 F201 K202 E203 A204 N205 N206 F207 L208 W209 P210 F211 K212 S215 P216 M220 K221 K222 K223 T224 T225 H226 F227 V228 E229 G230 G231 G234 N235 R236 E237 D238 Q239 I240 N241 R242 L243 I244 R245 R246 M247 N248

- Molecule 10: 60S ribosomal protein L7a

Chain LG: 28% 58% 5% 9%

MET PRO LYS GLY LYS LYS ALA LYS GLY LYS LYS VAL ALA PRO ALA PRO ALA VAL VAL LYS LYS GLN GLU ALA LYS K26 N29 P30 L31 F32 E33 K34 R35 P36 K37 N38 F39 Q43 D44 I45 Q46 P47 K48 R49 D50 L51 K56 W57 P58 R59 Y60 I61 R62 L63 Q64 R65 Q66

R67 A68 I69 L70 R73 L74 K75 V76 P77 P78 A79 I80 N81 Q82 L87 D88 R89 Q90 T91 A92 T93 Q94 L95 L96 K97 L98 A99 H100 K101 Y102 R103 T106 K107 Q108 R113 L114 L115 A116 R117 A118 E119 K120 K121 A122 A123 G124 K125 G126 D127 V128 P129 T130 K131 R132 L136

R137 A138 G139 V140 N141 T142 V143 T144 T145 L146 V147 E148 N149 K150 K151 A152 Q153 L154 V155 V156 I157 A158 H159 D160 V161 D162 P163 I164 E165 L166 V167 V168 F169 L170 P171 A172 L173 C174 R175 K176 M177 G178 V179 P180 Y181 C182 I183 I184 K185 G186 K187 L190 G191 R192 L193 V194 H195 R196 K197

T201 V202 A203 F204 V207 N208 S209 E210 D211 K212 G213 A214 L215 L218 V219 I222 R223 T224 N225 D228 R229 Y230 D231 E232 I233 R234 R235 H236 W237 N240 V241 L242 G243 A248 R249 I250 A251 K252 L253 E254 K255 A256 K257 A258 K259 E260 L261 A262 T263 K264 L265 G266

- Molecule 11: 60S ribosomal protein L9

Chain LH: 28% 68% • •

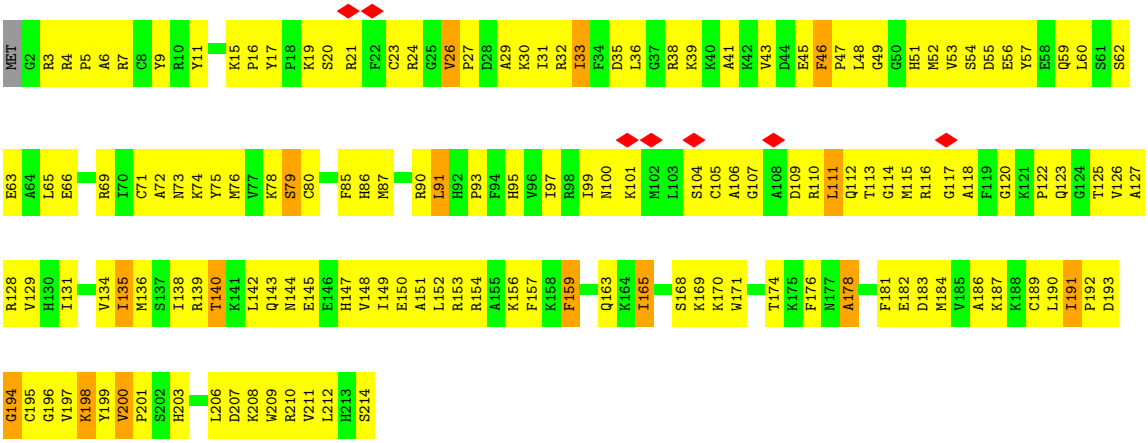
M1 K2 T3 I4 L5 S6 N7 Q8 T9 V10 D11 I12 P13 V16 D17 I18 T19 L20 K21 G22 R23 T24 V25 I26 V27 K28 G29 P30 R31 G32 T33 L34 R35 R36 D37 F38 N39 H40 I41 N42 V43 E44 L45 S46 L47 L48 G49 K50 K51 K52 K53 R54 L55 R56 V57 D58 K59 W60 W61

G62 N63 R64 K65 E66 L67 A68 T69 V70 R71 T72 I73 H76 V77 M80 I81 K82 G83 V84 T85 L86 G87 F88 R89 Y90 K91 M92 R93 S94 F99 V103 V104 I105 Q106 E107 N108 G109 S110 L111 V112 E113 I114 R115 N116 F117 L118 G119 E120 K121 Y122 I123 R124 R125 V126 R127 M128

R129 P130 G131 V132 A133 C134 S137 Q138 D142 E143 L144 I145 L146 E147 G148 N149 D150 I151 E152 L153 V154 S155 N156 S157 L160 I161 T165 K168 N169 K170 D171 I172 R173 K174 F175 L176 D177 G178 I179 Y180 V181 K184 G185 T186 V187 Q188 Q189 A190 ASP GLU

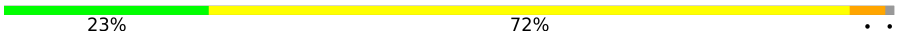
- Molecule 12: 60S ribosomal protein L10-like

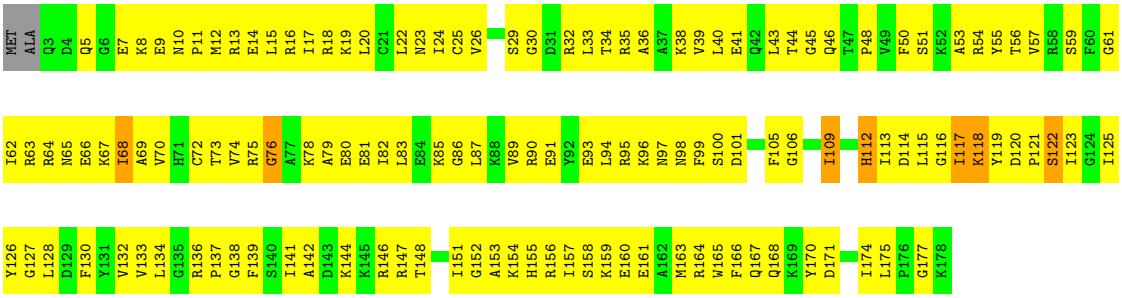
Chain LI: • 30% 62% 7%



- Molecule 13: 60S ribosomal protein L11

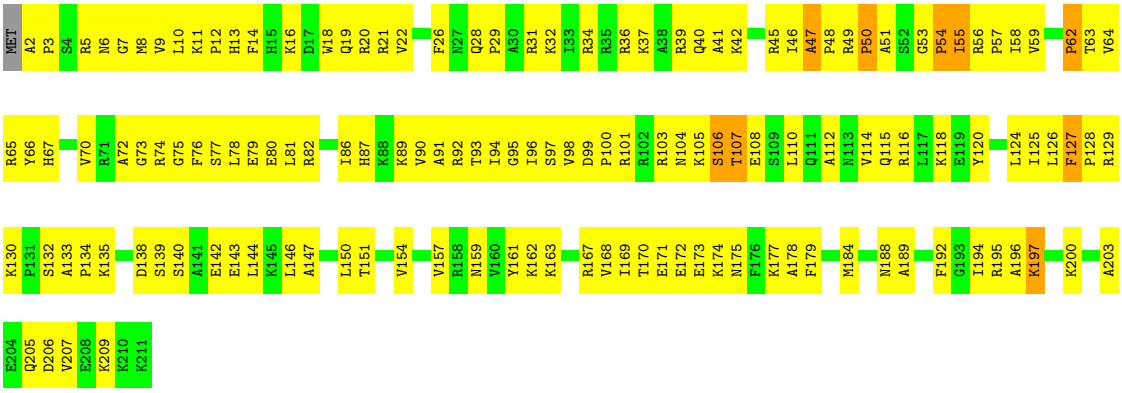
Chain LJ:





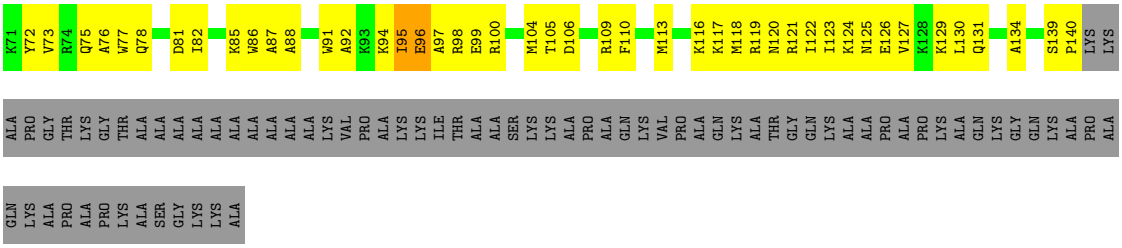
- Molecule 14: 60S ribosomal protein L13

Chain LL:



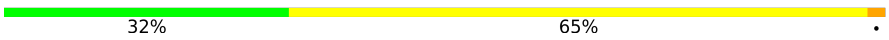
- Molecule 15: 60S ribosomal protein L14

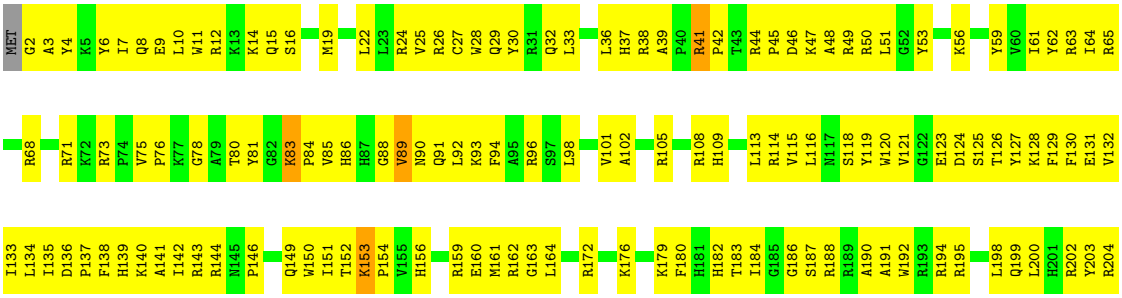
Chain LM:



• Molecule 16: 60S ribosomal protein L15

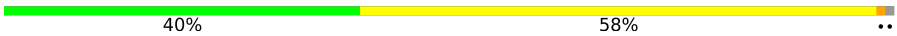
Chain LN:

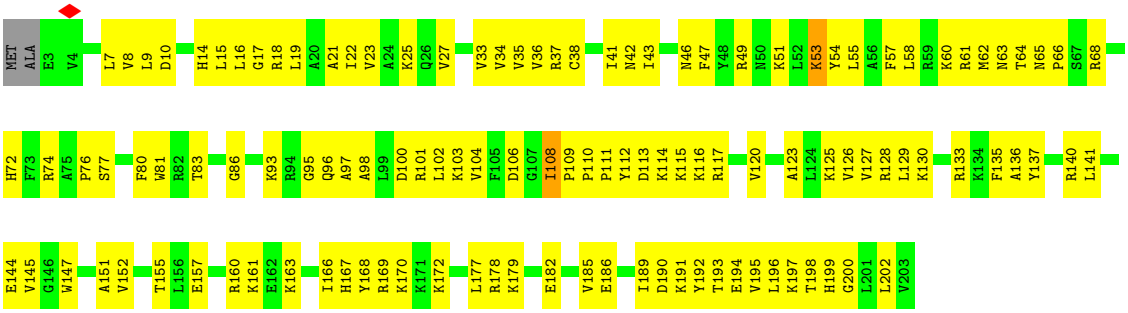




• Molecule 17: 60S ribosomal protein L13a

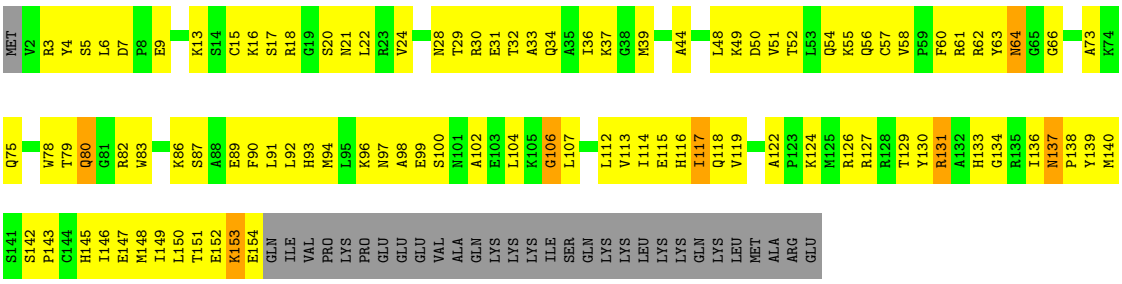
Chain LO:





• Molecule 18: 60S ribosomal protein L17

Chain LP:



• Molecule 19: 60S ribosomal protein L18

Chain LQ: 35% 62% • • •

MET G2 V3 D4 I5 R6 R11 K12 V13 R14 R15 S20 Q21 D22 R26 L27 L28 V29 K30 L31 Y32 R33 F34 L35 A36 R37 R38 T39 T42 F43 N44 Q45 V46 V47 L48 K49 R50 L51 F52 M53 S54 N57 R58 P59 P60 L61 S62 L63 S64 R65 M66 I67 R68 K69 M70

K71 L72 P73 G74 R75 E76 N77 K78 T79 A80 V81 V82 V83 G84 T85 I86 T87 D88 D89 V90 R91 V92 Q93 E94 V95 P96 K97 L98 K99 V100 C101 A102 L103 R104 V105 T106 S107 R108 A109 R110 S111 R112 R115 A116 L121 T122 F123 D124 Q125 L126 A127 L128 C134 G135 T136 V137 L138

G141 P142 R143 K144 R150 H151 G157 T158 P159 H160 S161 H162 T163 K164 P165 Y166 V167 R168 S169 R172 E175 R178 G179 R180 R181 A182 S183 R184 G185 Y186 K187 N188

- Molecule 20: 60S ribosomal protein L19

Chain LR: 38% 56% • 5%

MET S2 R5 L6 Q7 K8 R9 L10 A11 S12 S13 V14 L15 R16 C17 G18 K19 K20 K21 V22 W23 L24 D25 P26 I32 A35 R38 Q39 Q40 I41 R42 K43 L44 I45 K46 D47 G48 L49 I50 I51 R52 K53 P54 R62 C63 R64 T67 L68 A69 K72 G73 R74 H75

I78 R81 T84 K92 V93 M96 R97 R98 M99 R100 I101 L102 R103 R104 L105 L106 R107 R108 Y109 S112 K113 K114 I115 D116 M119 Y120 Y124 L125 K126 V127 K128 G129 N130 V131 F132 K133 N134 K135 R136 I137 L138 M139 E140 H141 I142 H143 K144 L145 K146 A147 D148 K149

A150 R151 K152 K153 L154 L155 A156 D157 Q158 A159 R162 R163 S164 K165 T166 K167 E168 A169 R170 K171 R172 R173 E174 E175 R176 L177 Q178 A179 E182 E183 I184 I185 K186 T187 L188 SER LYS GLU GLU GLU THR LYS LYS

- Molecule 21: 60S ribosomal protein L18a

Chain LS: 27% 70% • •

MET K2 A3 S4 L7 R8 E9 Y10 K11 V12 V13 G14 R15 C16 L17 P18 T24 P25 P26 L27 Y28 R29 M30 R31 I32 F33 A34 P35 N36 H37 V38 V39 A40 K41 F44 W45 Y46 F47 V48 S49 Q50 L51 K52 K53 M54 K55 K56 S57 S58 G59 E60 I61 V62 Y63 Q66 V67

F68 E69 P72 L73 R74 V75 K76 N77 F78 G79 I80 W81 L82 R83 Y84 D85 S86 R87 T90 H91 N92 N93 Y94 R95 E96 Y97 R98 D99 L100 T101 A105 V106 C109 Y110 R111 D112 M113 G114 A115 R116 H117 R118 A119 R120 I124 Q125 I126 M127 K128 I132 A133 A134 C137

R138 R139 P140 K143 H146 D147 S148 K149 I150 K151 F152 P153 L154 P155 H156 R157 V158 L159 R160 R161 Q162 H163 K164 P165 R166 F167 T168 T169 P172 N173 T174 F175 F176

- Molecule 22: 60S ribosomal protein L21

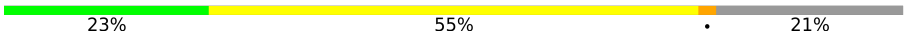
Chain LT: 46% 50% • •

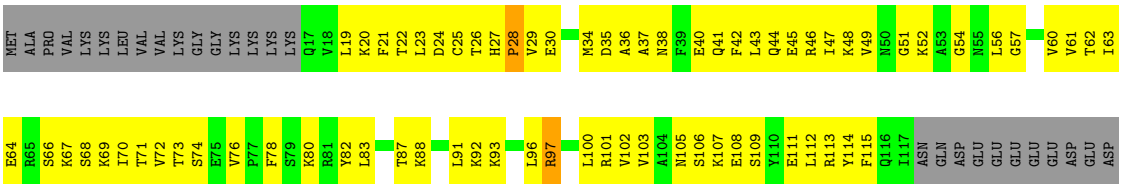
MET T2 N3 T4 K5 G6 K7 R8 R17 P18 F19 R20 K21 H22 V25 P26 L27 Y30 M31 R32 I33 V40 M45 G46 T47 V48 Q49 K50 G51 H54 Y57 V64 Y65 T68 Q69 H70 A71 V72 G73 I74 V75 V76 N77 K78 Q79 V80 K81 G82 K83 I84 L85

A86 K87 R88 I89 N90 V91 R92 I93 E94 H95 I96 F105 R108 V109 N112 K116 K117 E118 K122 W125 V126 Q127 L128 K129 R130 Q131 P132 A133 P134 P135 R136 E137 A138 H139 F140 V141 R142 T143 P148 E149 L150 L151 E152 P153 I154 P155 Y156 M159 A160

- Molecule 23: 60S ribosomal protein L22

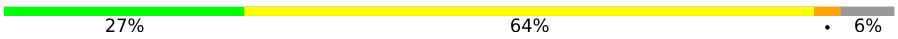
Chain LU:

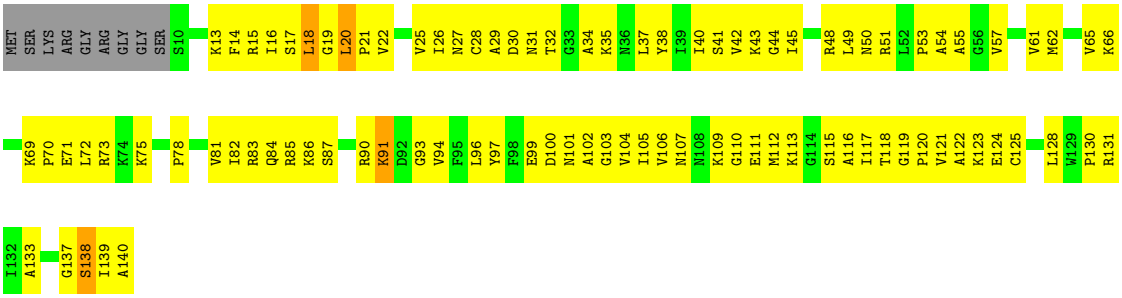




- Molecule 24: 60S ribosomal protein L23

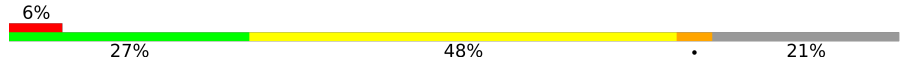
Chain LV:

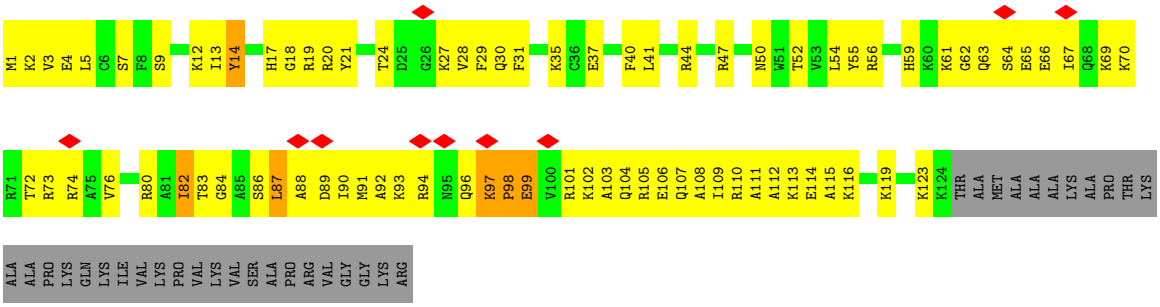




- Molecule 25: 60S ribosomal protein L24

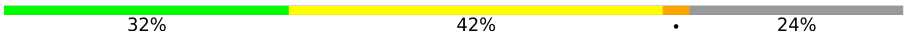
Chain LW:

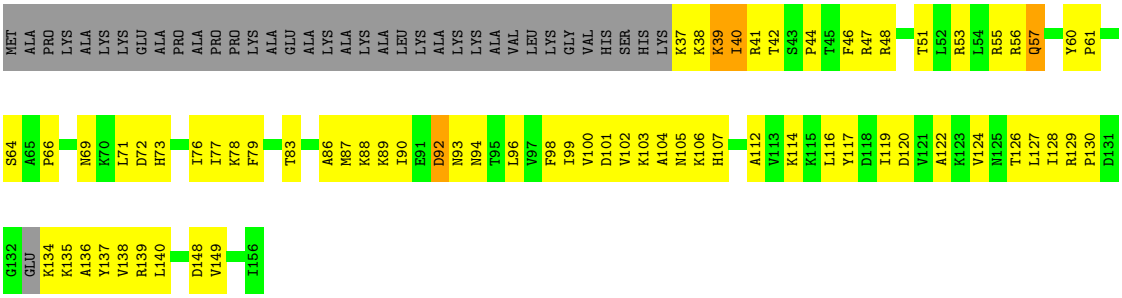




- Molecule 26: 60S ribosomal protein L23a

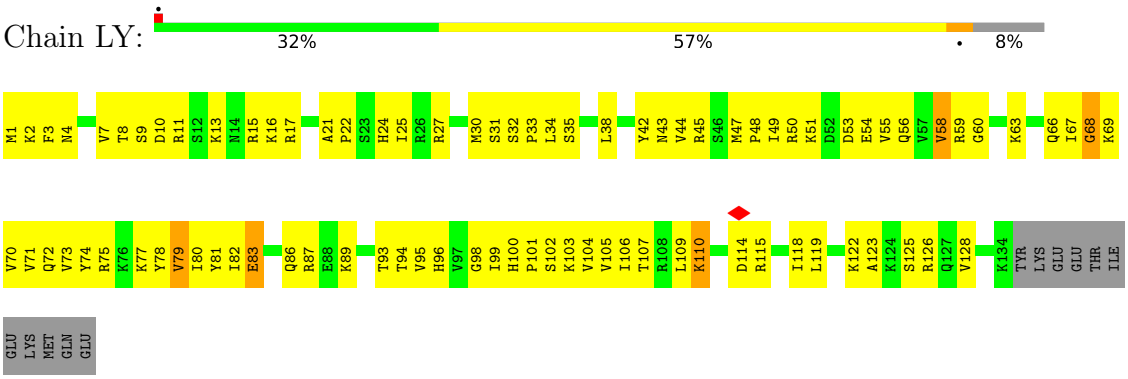
Chain LX:





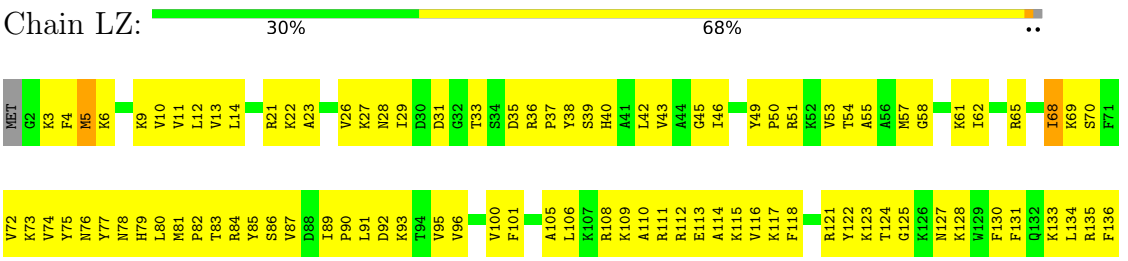
- Molecule 27: 60S ribosomal protein L26

Chain LY:



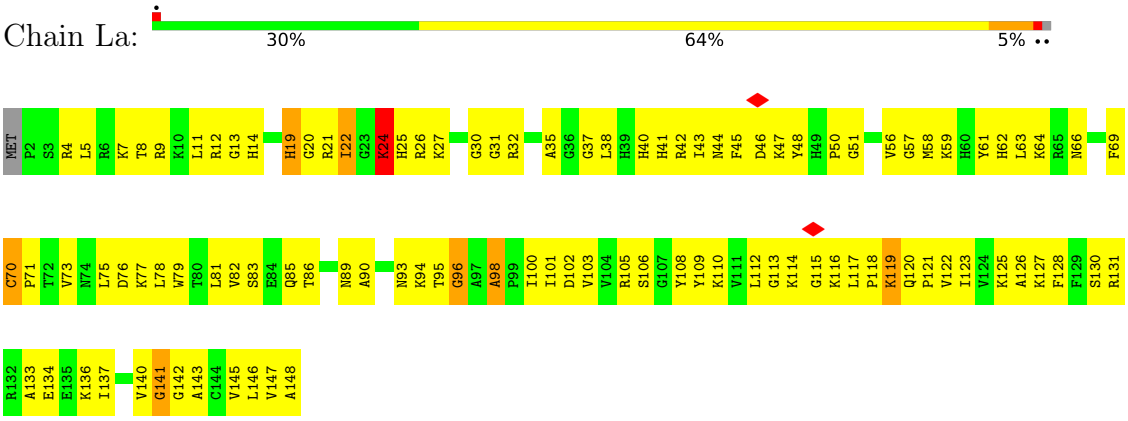
- Molecule 28: 60S ribosomal protein L27

Chain LZ:



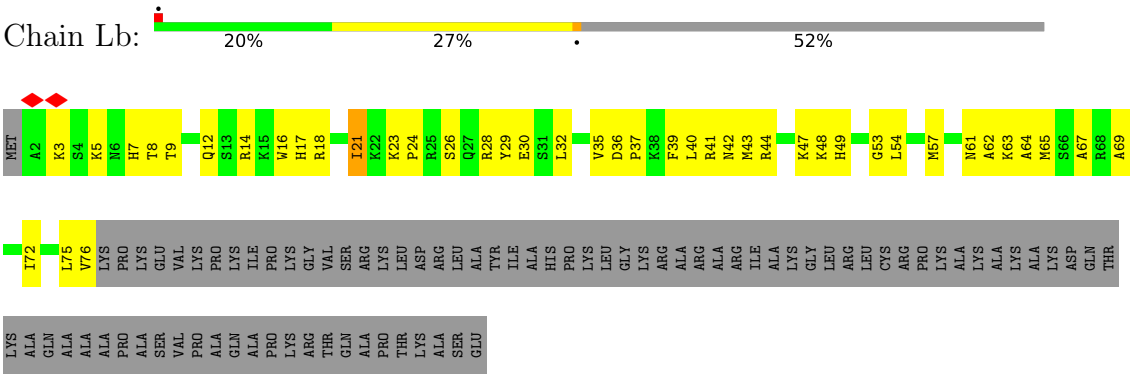
- Molecule 29: 60S ribosomal protein L27a

Chain La:



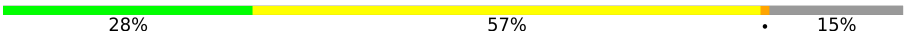
- Molecule 30: Ribosomal protein L29, isoform CRA_a

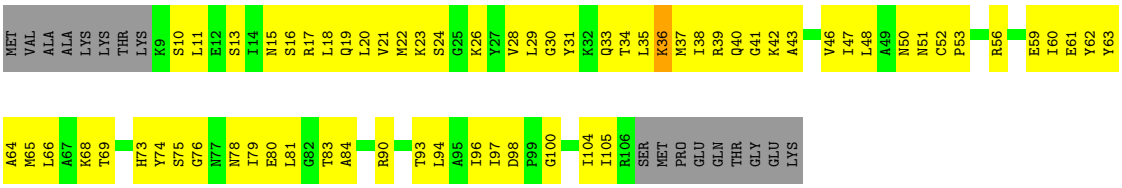
Chain Lb:



- Molecule 31: 60S ribosomal protein L30

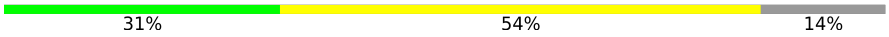
Chain Lc:

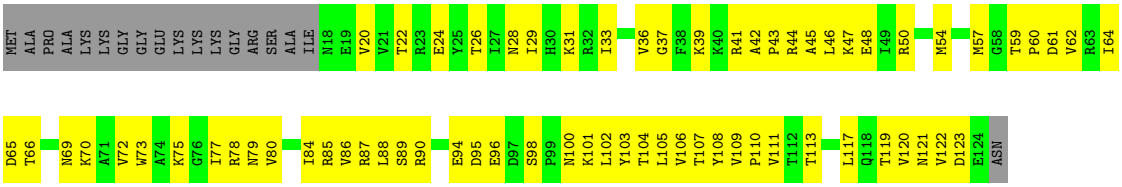




- Molecule 32: 60S ribosomal protein L31

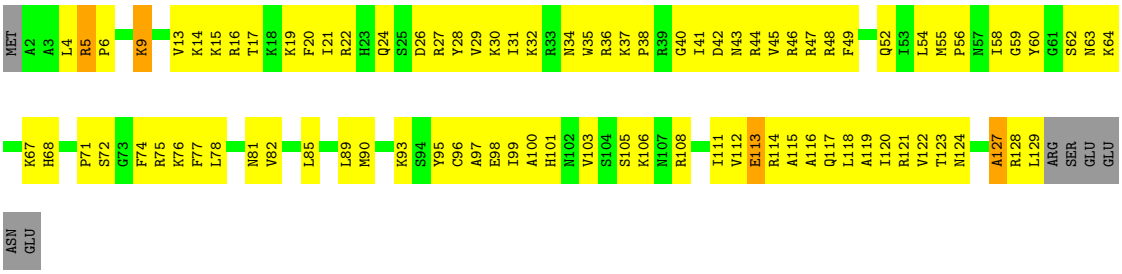
Chain Ld:





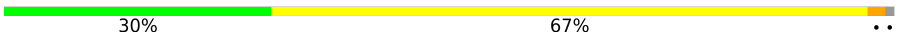
- Molecule 33: 60S ribosomal protein L32

Chain Le:



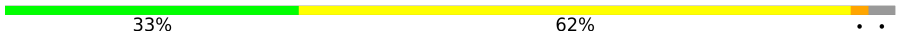
- Molecule 34: 60S ribosomal protein L35a

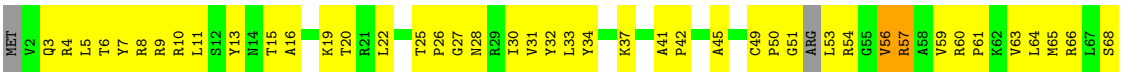
Chain Lf:



- Molecule 35: 60S ribosomal protein L34

Chain Lg:





K69 T70 K71 K72 H73 V74 S75 R76 A77 Y78 G79 G80 S81 M82 C83 C86 V87 R90 I91 K92 R93 A94 F95 L96 I97 E98 E99 Q100 K101 V104 K105 V106 L107 K108 A109 Q110 A111 Q114 K115 ALA LYS

- Molecule 36: 60S ribosomal protein L35

Chain Lh:

MET A2 K3 I4 K5 A6 R7 R10 K14 L17 L18 K19 Q20 L21 D22 D23 L24 K25 V26 E27 L28 S29 Q30 L31 R32 V33 A34 G38 G39 A40 K43 K46 I47 R48 V49 V50 R51 K52 S53 I54 A55 R56 V57 L58 T59 V60 I61 N62 Q63 T64 Q65 K66 E67 N68

L69 R70 Y73 K74 G75 K76 K77 Y78 K79 P80 L81 D82 L83 R84 P85 K86 R89 A90 M91 R92 R93 R94 L95 N96 K97 H98 E99 E100 N101 L102 K103 T104 K105 Q108 R109 K110 E111 R112 L113 Y114 P115 K118 Y119 A120 V121 K122 A123

- Molecule 37: 60S ribosomal protein L36

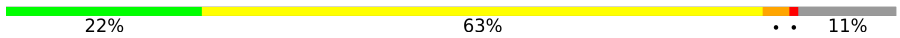
Chain Li:

MET A2 L3 R4 Y5 P6 M7 A8 V9 G10 L11 N12 K13 V17 T18 V21 S22 K23 H26 S27 R28 R29 R30 L33 T34 K35 H36 T37 K38 F39 V40 R41 D42 M43 I44 R45 E46 V47 C48 G49 F50 A51 P52 Y53 E54 A57 M58 E59 K62 V63 S64 K65 D66 K67

R68 A69 L70 K71 F72 I73 K74 K75 R76 V77 G78 T79 H80 I81 R82 A83 K84 R85 K86 R87 E88 E89 L90 S91 N92 V93 L94 A95 A102 K103 LYS ASP

- Molecule 38: 60S ribosomal protein L37

Chain Lj:



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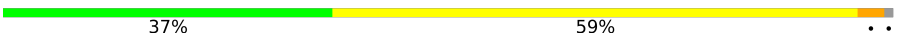
M64 R65 H66 L67 K68 I69 V70 Y71 R72 R73 H76 G77 F78 R79 E80 G81 T82 T83 P84 K85 P86 K87 ARG ALA ALA VAL ALA ALA SER SER SER SER

- Molecule 39: 60S ribosomal protein L38

Chain Lk:



MET P2 I5 E6 E7 I8 K9 D10 F11 L12 L13 T14 D19 A20 K21 S22 V23 K24 I25 K26 K27 N28 K29 D30 N31 V32 K33 V36 R37 C38 S39 R40 Y41 L42 L45 V46 I47 T48 D49 K52 A53 E54 K55 L56 K57 L60 P61 P62 G63 L64 A65 V66 K67 E68

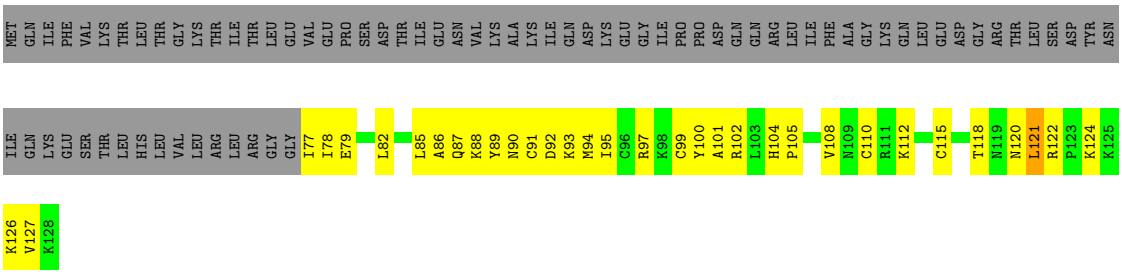
L69 K70

- Molecule 40: 60S ribosomal protein L39

Chain Ll:

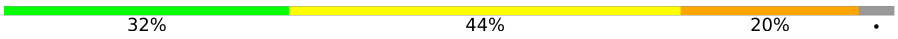
• Molecule 41: Ubiquitin-60S ribosomal protein L40

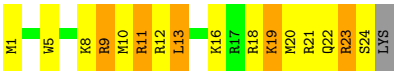
Chain Lm:



• Molecule 42: 60S ribosomal protein L41

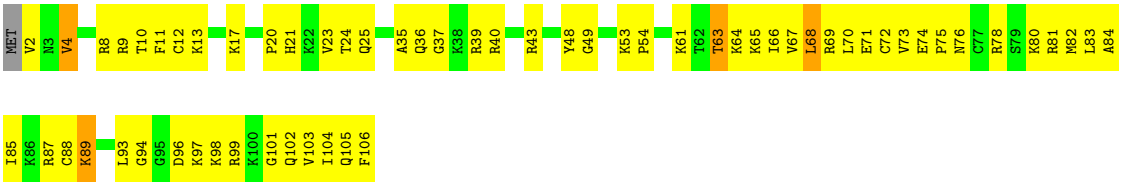
Chain Ln:





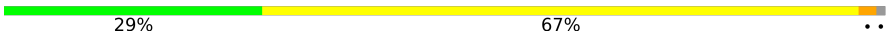
• Molecule 43: 60S ribosomal protein L36a

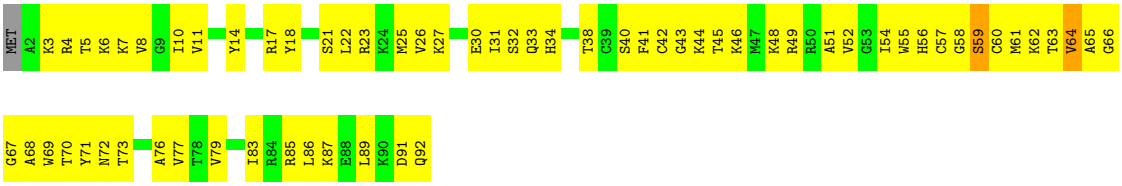
Chain Lo:



• Molecule 44: 60S ribosomal protein L37a

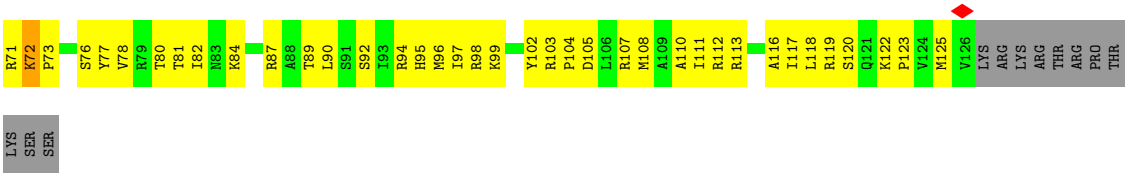
Chain Lp:





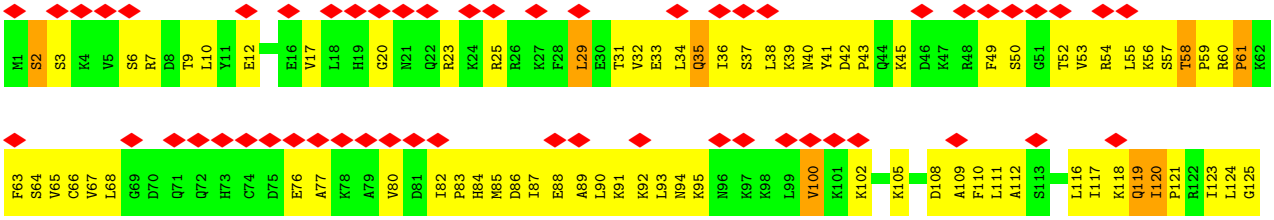
• Molecule 45: 60S ribosomal protein L28

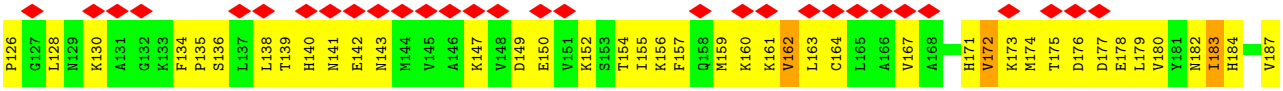
Chain Lr:

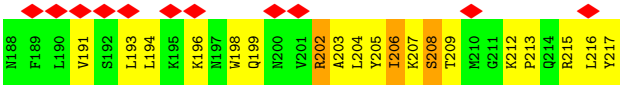


• Molecule 46: 60S ribosomal protein L10a

Chain Lz:

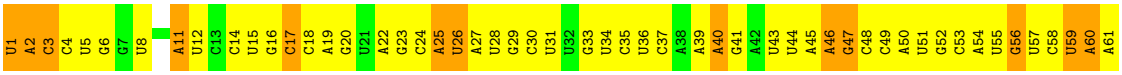


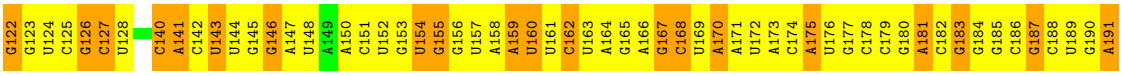


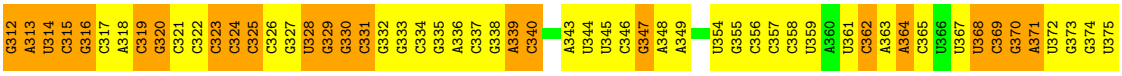


• Molecule 47: 18S ribosomal RNA

Chain S2:







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G617 C618 A619 G620 C621 C622 G623 C624 G625 G626 U627 A628 A629 U630 U631 C632 C633 A634 G635 C636 U637 C638 C639 A640 A641 U642 A643 G644 C645 G646 U647 A648 U649 A650 U651 U652 A653 A654 A655 G656 U657 U658 G659 C660 U661 G662 C663 A664 G665 U666 U667 A668 A669 A670 A671 A672 G673 C674 U675 C676

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A920 G921 A922 G923 G924 G925 A926 C927 G928 G929 C930 C931 G932 G933 G934 G935 G936 C937 A938 U939 U940 C941 G942 U943 A944 A945 U946 G947 C948 G949 C950 C951 G952 C953 U954 A955 G956 A957 G958 G959 U960 G961 A962 A963 A964 U965 U966 C967 U968 U969 G970 G971 A972 C973 C974 G975 C976 C977 G978 C979

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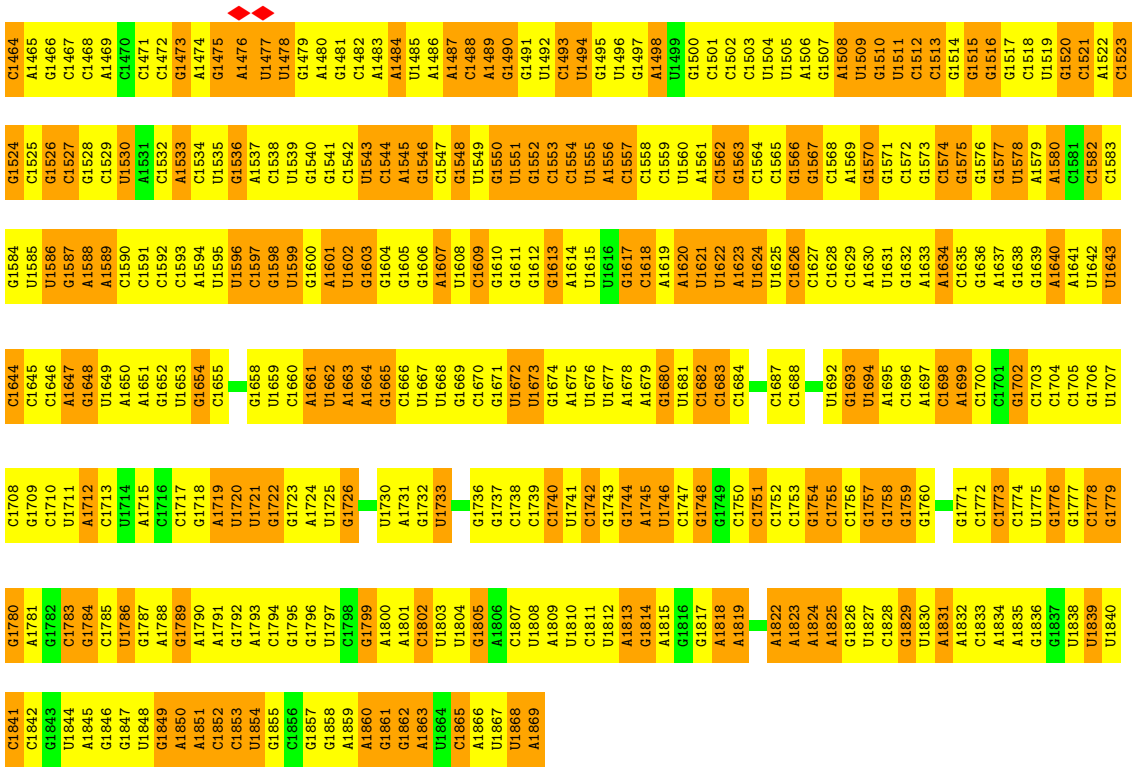
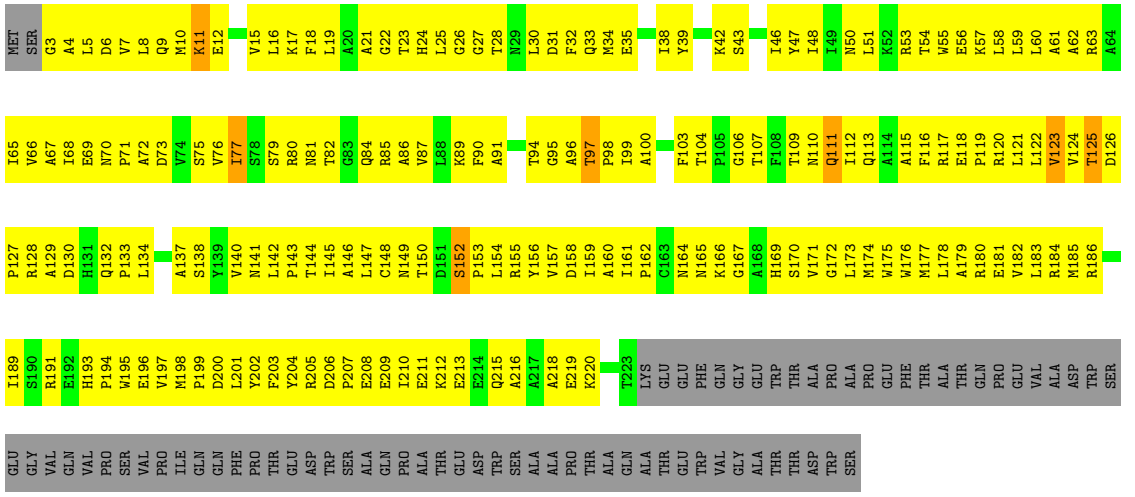
U1404 A1405 G1406 U1407 U1408 A1409 C1410 G1411 C1412 G1413 A1414 C1415 C1416 C1417 C1418 C1419 G1420 A1421 G1422 C1423 G1424 G1425 U1426 C1427 G1428 G1429 C1430 G1431 U1432 C1433 C1434 C1435 C1436 C1437 A1438 A1439 C1440 U1441 U1442 C1443 U1444 U1445 A1446 G1447 A1448 G1449 G1450 G1451 A1452 C1453 A1454 A1455 G1456 U1457 G1458 G1459 C1460 G1461 U1462 U1463



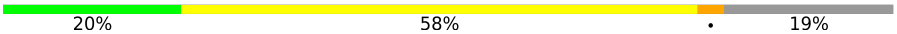
- Molecule 48: 40S ribosomal protein SA

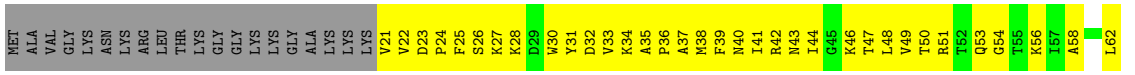
Chain SA:

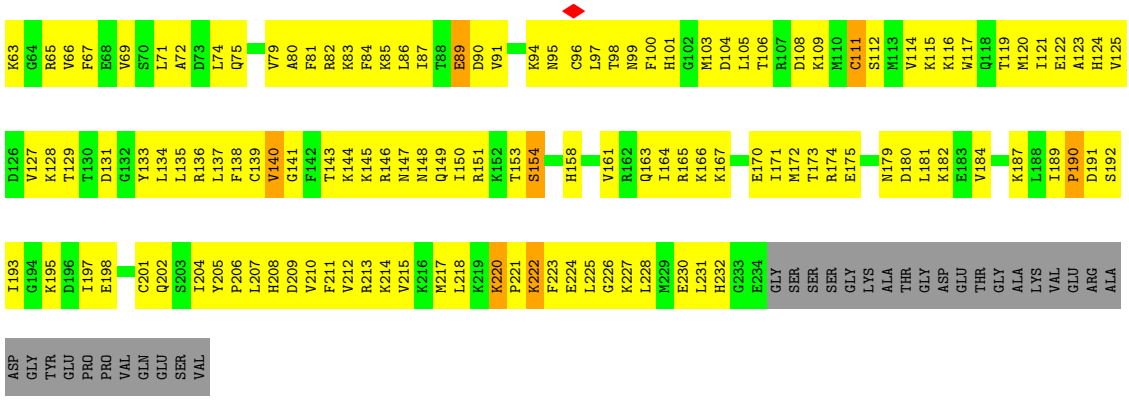


- Molecule 49: 40S ribosomal protein S3a

Chain SB:

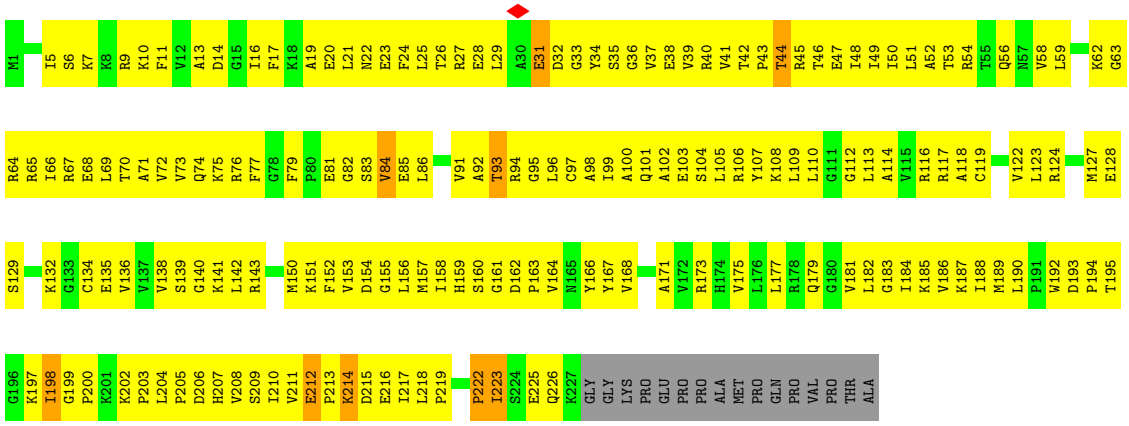






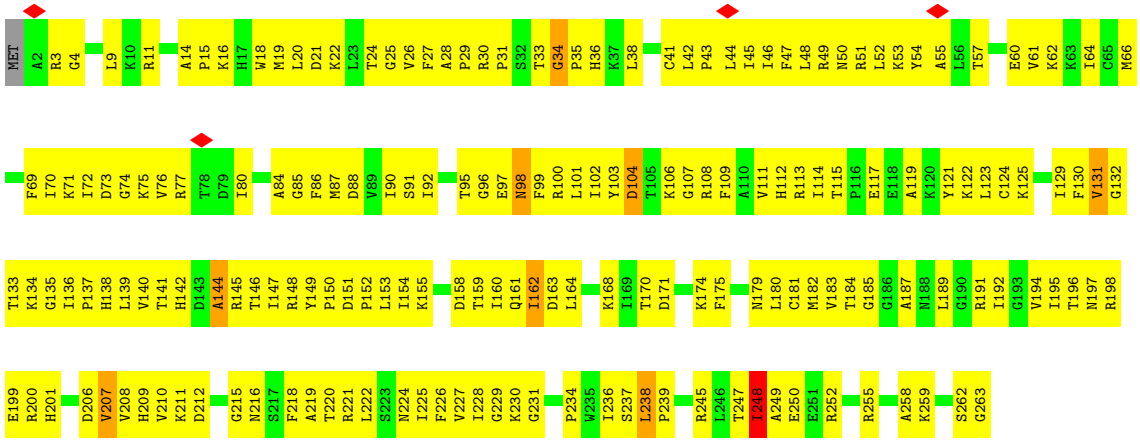
- Molecule 50: 40S ribosomal protein S3

Chain SD:



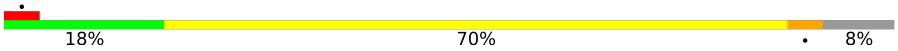
- Molecule 51: 40S ribosomal protein S4, X isoform

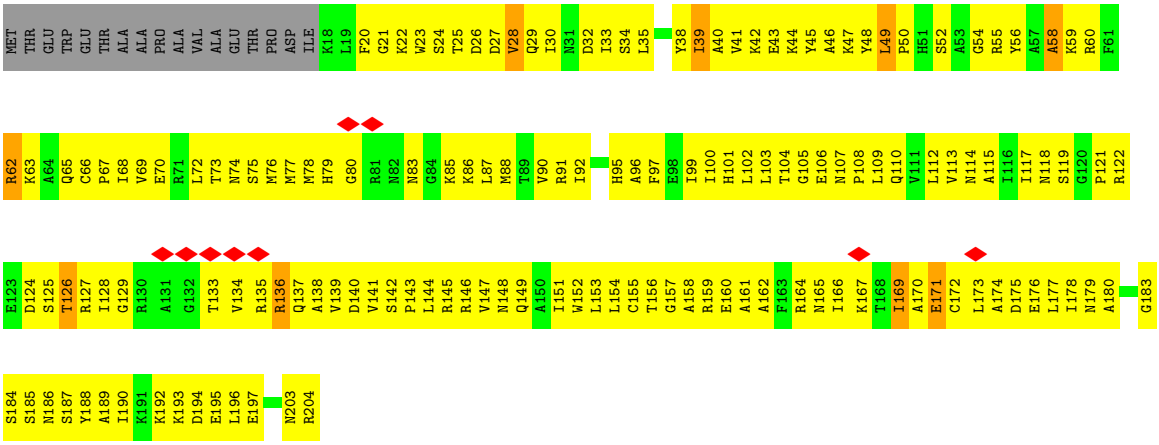
Chain SE:



- Molecule 52: 40S ribosomal protein S5

Chain SF:



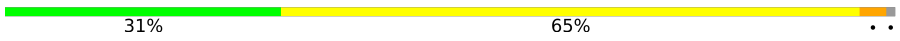


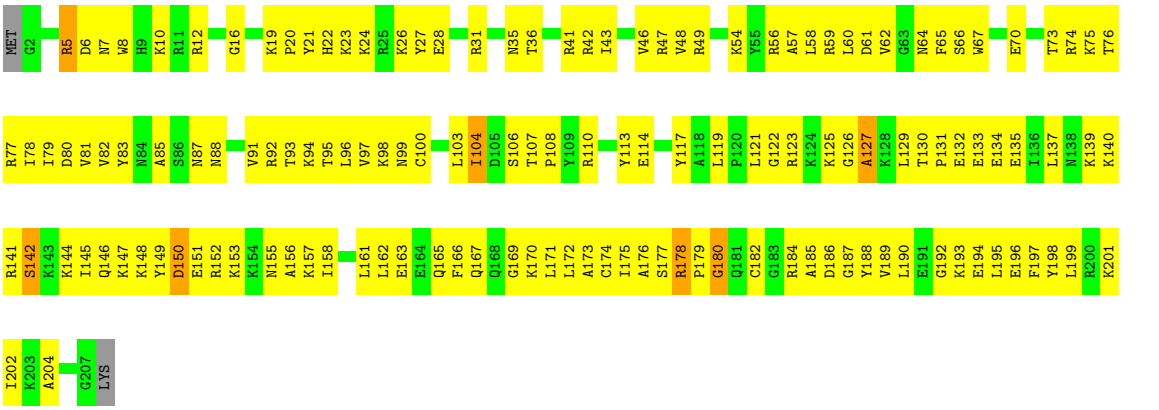
- Molecule 53: 40S ribosomal protein S7

Chain SH:

- Molecule 54: 40S ribosomal protein S8

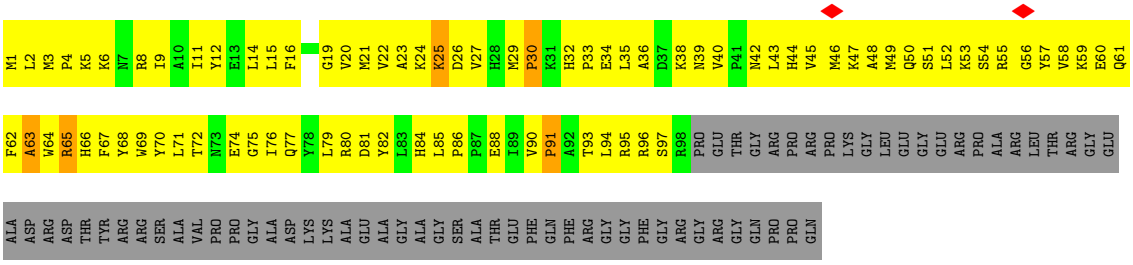
Chain SI:





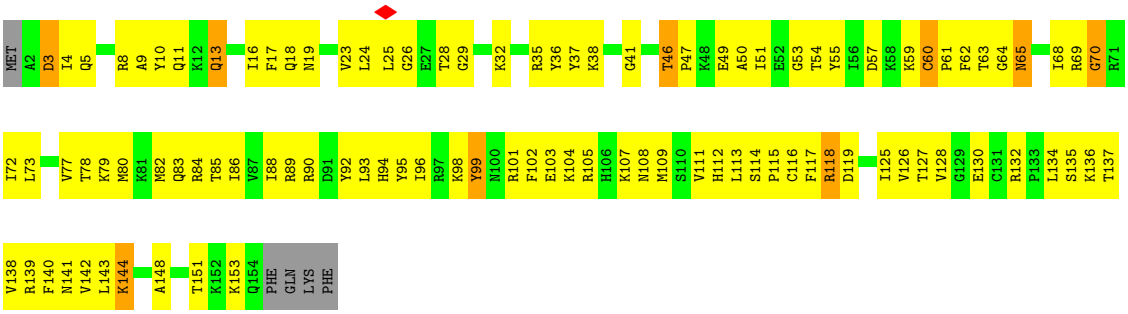
- Molecule 55: 40S ribosomal protein S10

Chain SK:



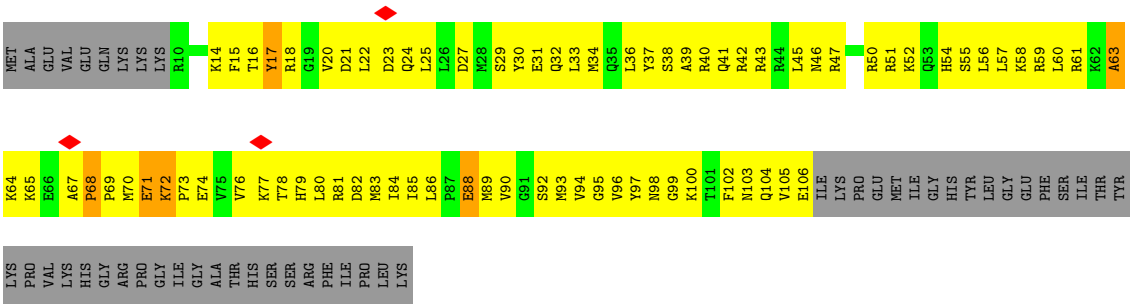
- Molecule 56: 40S ribosomal protein S11

Chain SL:



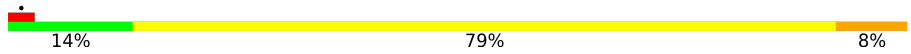
- Molecule 57: 40S ribosomal protein S15

Chain SP:



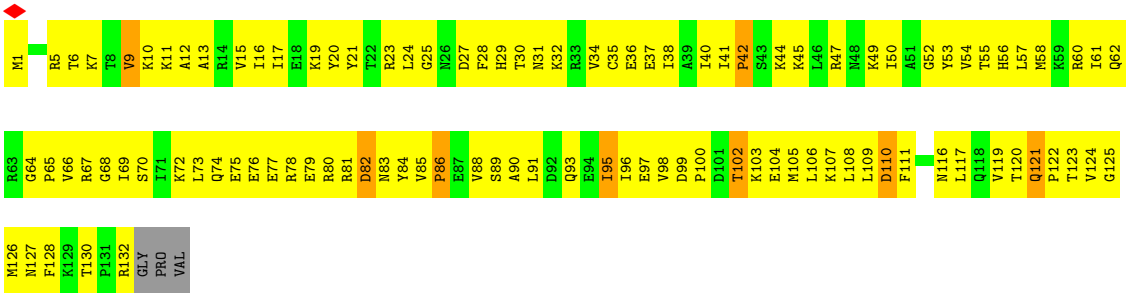
- Molecule 58: 40S ribosomal protein S16

Chain SQ:



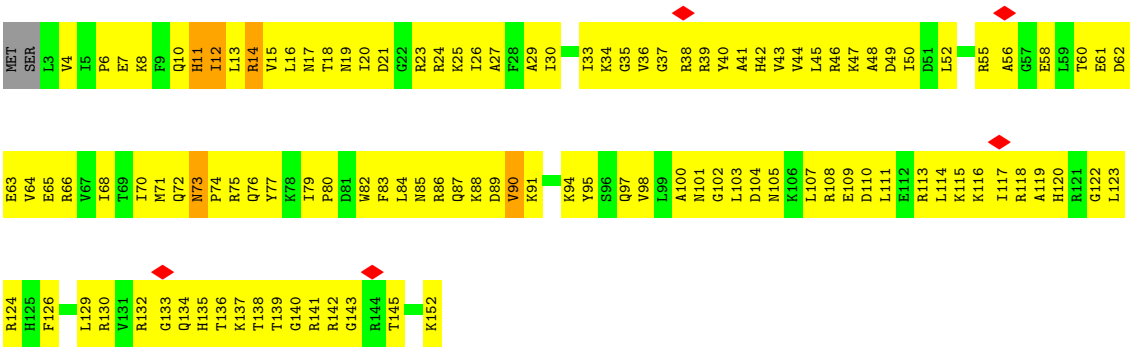
- Molecule 59: 40S ribosomal protein S17

Chain SR:



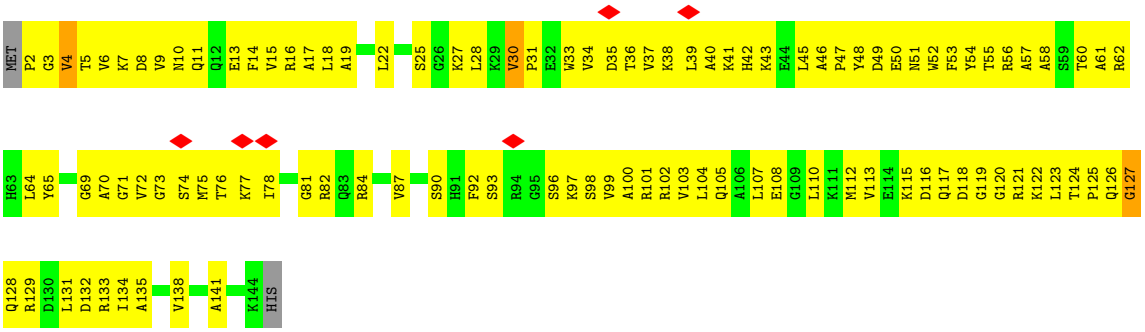
- Molecule 60: 40S ribosomal protein S18

Chain SS:



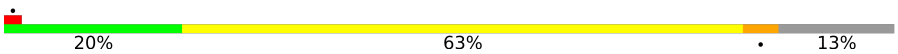
- Molecule 61: 40S ribosomal protein S19

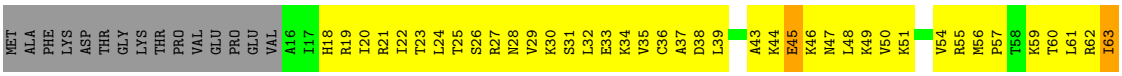
Chain ST:

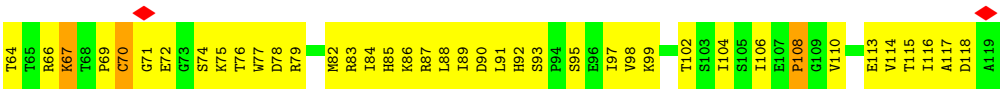


- Molecule 62: 40S ribosomal protein S20

Chain SU:

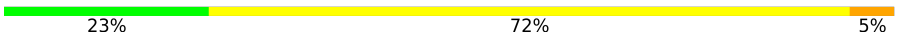


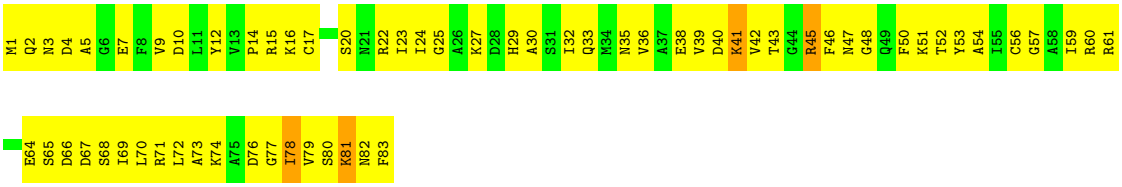




- Molecule 63: 40S ribosomal protein S21

Chain SV:



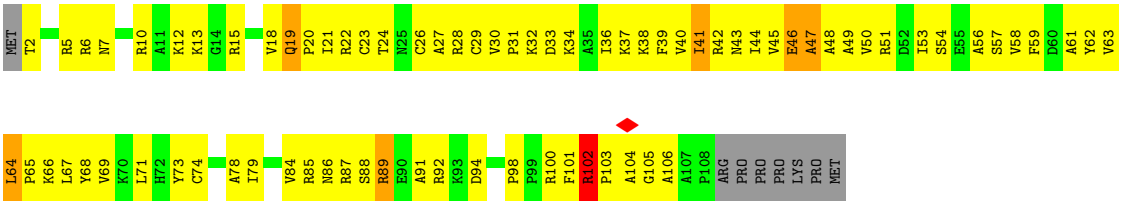


- Molecule 64: 40S ribosomal protein S23

Chain SX:

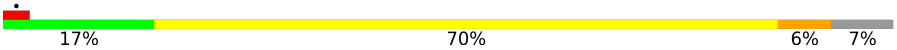
- Molecule 65: 40S ribosomal protein S26

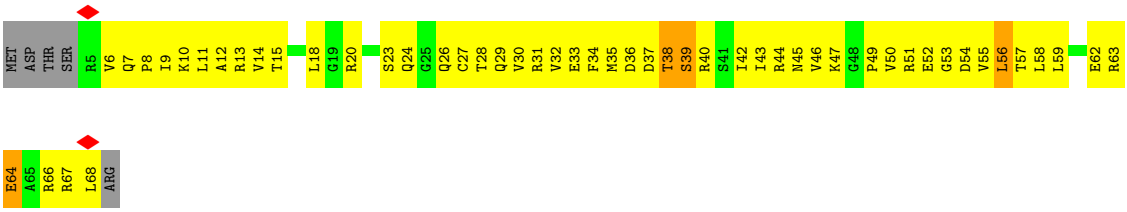
Chain Sa:



- Molecule 66: 40S ribosomal protein S28

Chain Sc:



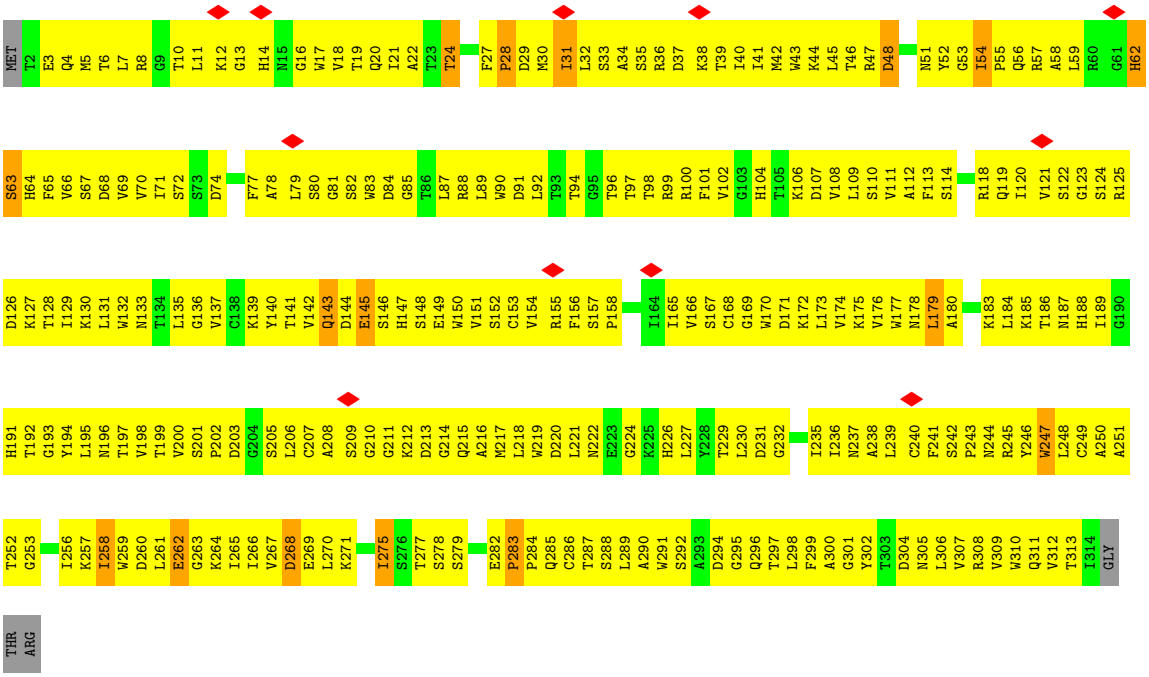


- Molecule 67: 40S ribosomal protein S29

Chain Sd:

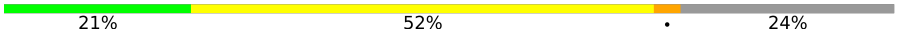
• Molecule 68: Receptor of activated protein C kinase 1

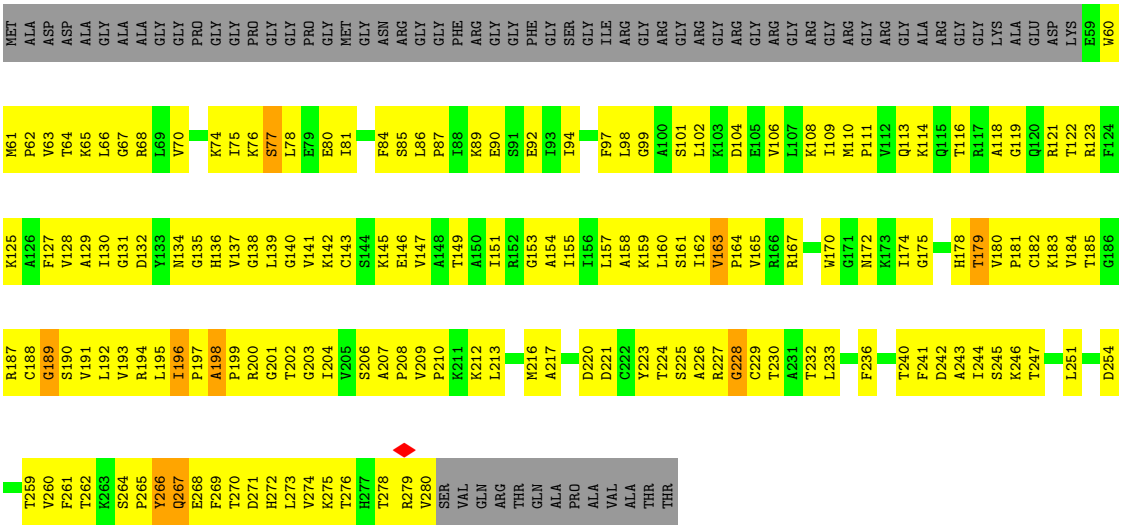
Chain Sg:



• Molecule 69: 40S ribosomal protein S2

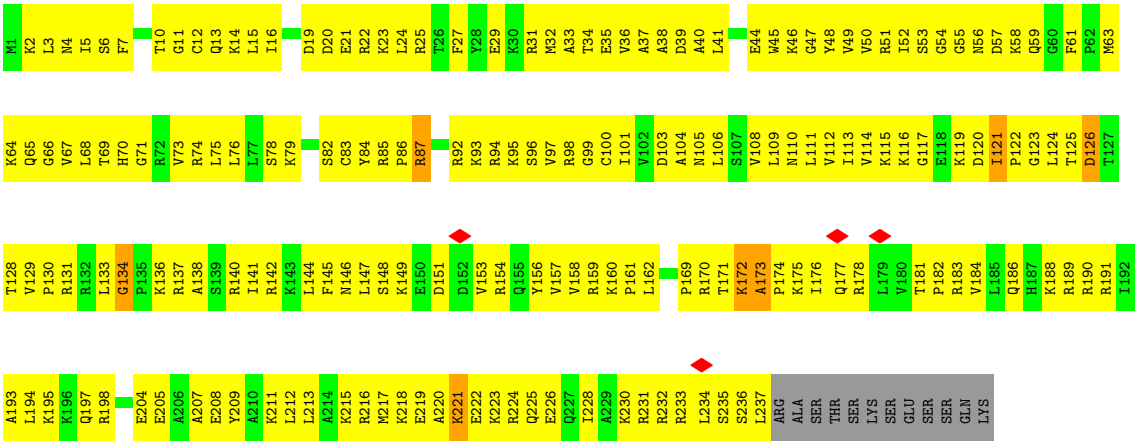
Chain SC:





• Molecule 70: 40S ribosomal protein S6

Chain SG:

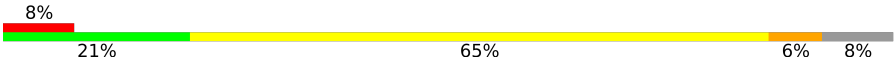


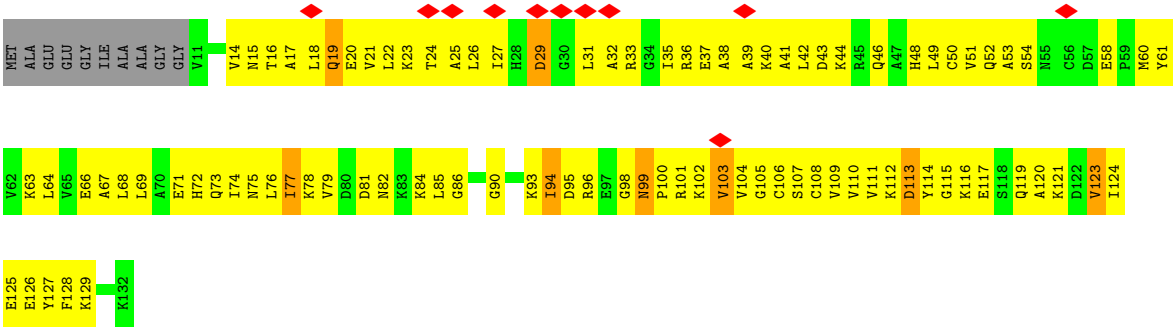
- Molecule 71: 40S ribosomal protein S9

Chain SJ:

- Molecule 72: 40S ribosomal protein S12

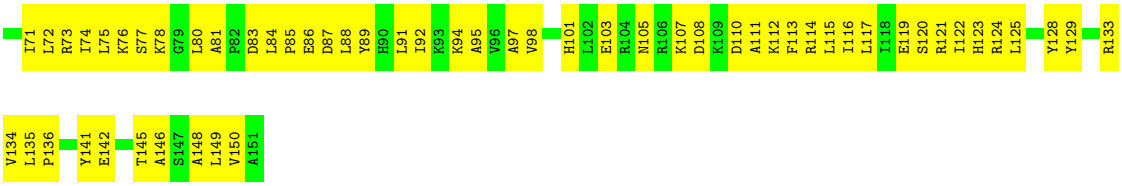
Chain SM:





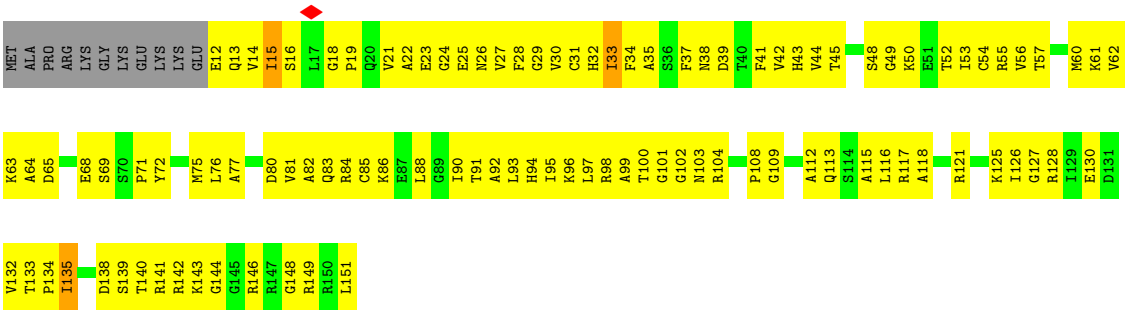
- Molecule 73: 40S ribosomal protein S13

Chain SN:



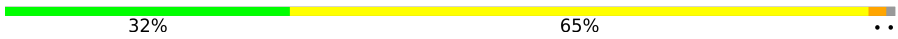
• Molecule 74: 40S ribosomal protein S14

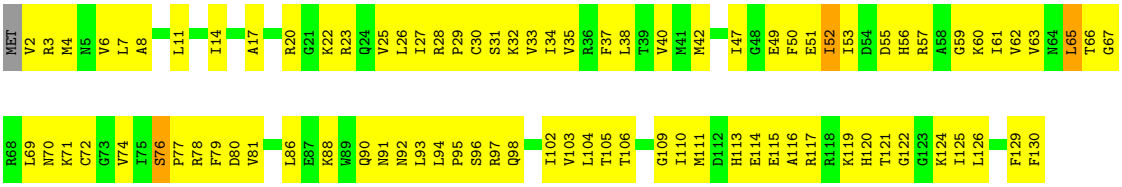
Chain SO:



• Molecule 75: 40S ribosomal protein S15a

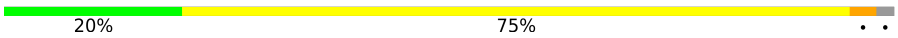
Chain SW:

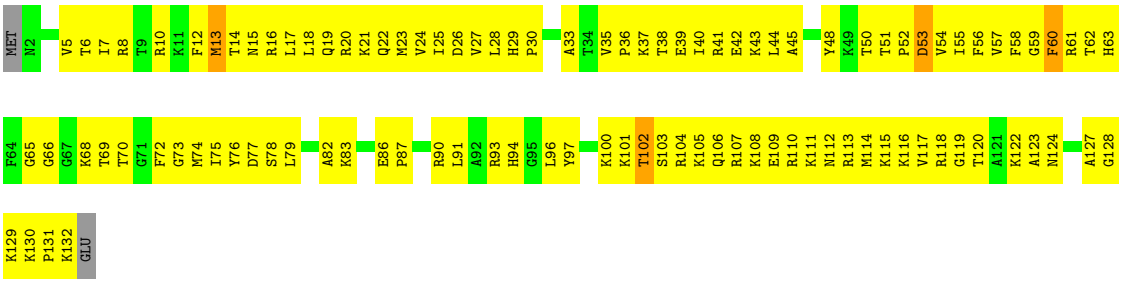




• Molecule 76: 40S ribosomal protein S24

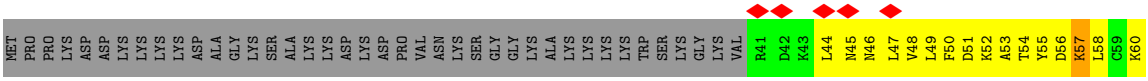
Chain SY:

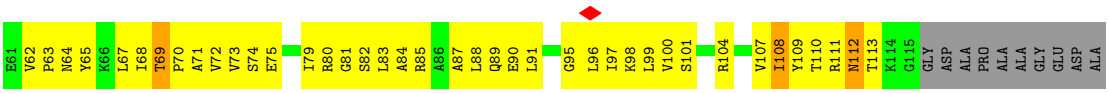




• Molecule 77: 40S ribosomal protein S25

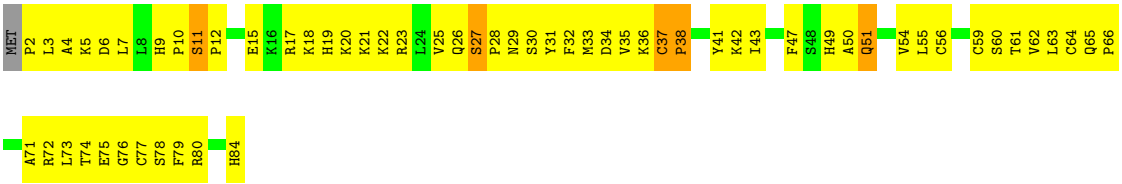
Chain SZ:





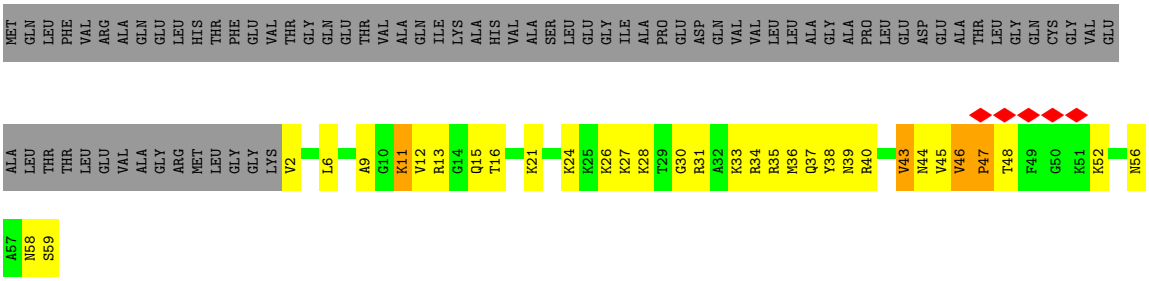
- Molecule 78: 40S ribosomal protein S27

Chain Sb:



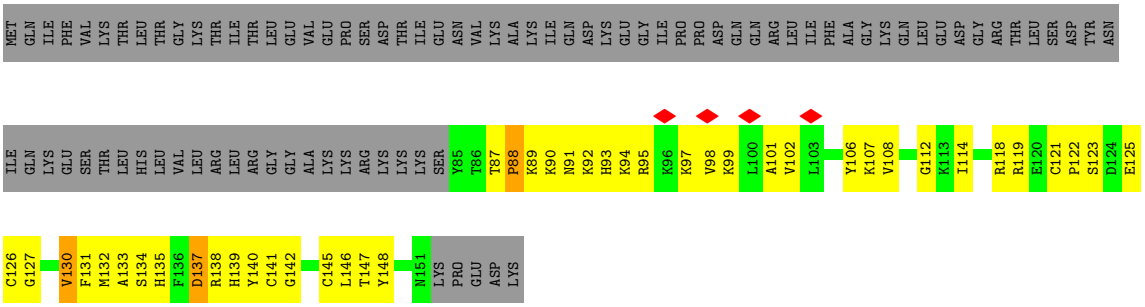
- Molecule 79: Ribosomal protein S30

Chain Se:



- Molecule 80: Ubiquitin-40S ribosomal protein S27a

Chain Sf:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	19000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; Relion	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	79000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.206	Depositor
Minimum map value	-0.165	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.007	Depositor
Map size (Å)	506.0, 506.0, 506.0	wwPDB
Map dimensions	460, 460, 460	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: 3HE, ZN, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| >5$	RMSZ	$\#\|Z\| >5$
1	L5	0.34	0/89644	0.35	0/139760
2	L7	0.29	0/2858	0.30	0/4455
3	L8	0.33	0/3701	0.35	0/5766
4	LA	0.70	0/1936	1.00	8/2596 (0.3%)
5	LB	0.59	0/3306	0.95	13/4424 (0.3%)
6	LC	0.59	0/2981	0.97	15/4002 (0.4%)
7	LD	0.49	0/2428	0.92	7/3252 (0.2%)
8	LE	0.48	0/2005	1.03	13/2685 (0.5%)
9	LF	0.61	0/1905	0.91	5/2539 (0.2%)
10	LG	0.54	0/1960	1.03	10/2637 (0.4%)
11	LH	0.51	0/1537	0.89	3/2066 (0.1%)
12	LI	0.50	0/1751	0.98	11/2340 (0.5%)
13	LJ	0.44	0/1433	0.94	6/1915 (0.3%)
14	LL	0.56	0/1732	1.02	11/2315 (0.5%)
15	LM	0.53	0/1161	0.87	0/1554
16	LN	0.63	0/1746	0.96	7/2338 (0.3%)
17	LO	0.62	0/1682	0.96	10/2250 (0.4%)
18	LP	0.62	0/1268	1.03	8/1701 (0.5%)
19	LQ	0.61	0/1537	0.98	4/2052 (0.2%)
20	LR	0.57	0/1582	0.92	6/2091 (0.3%)
21	LS	0.58	0/1493	0.99	6/2003 (0.3%)
22	LT	0.55	0/1326	1.09	10/1770 (0.6%)
23	LU	0.46	0/839	0.88	1/1126 (0.1%)
24	LV	0.63	0/993	1.01	2/1332 (0.2%)
25	LW	0.48	0/1030	0.94	3/1364 (0.2%)
26	LX	0.57	0/992	0.90	2/1330 (0.2%)
27	LY	0.54	0/1132	0.90	3/1504 (0.2%)
28	LZ	0.50	0/1130	0.88	1/1507 (0.1%)
29	La	0.60	0/1191	0.99	7/1591 (0.4%)
30	Lb	0.48	0/620	0.87	0/819
31	Lc	0.54	0/774	0.94	2/1038 (0.2%)
32	Ld	0.59	0/903	0.89	1/1216 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
33	Le	0.64	0/1071	1.12	6/1429 (0.4%)
34	Lf	0.59	0/895	0.91	0/1198
35	Lg	0.56	0/904	0.88	2/1203 (0.2%)
36	Lh	0.56	0/1023	0.90	3/1351 (0.2%)
37	Li	0.53	0/843	0.94	3/1115 (0.3%)
38	Lj	0.60	0/720	1.13	4/952 (0.4%)
39	Lk	0.45	0/575	0.92	1/761 (0.1%)
40	Ll	0.58	0/454	0.87	0/599
41	Lm	0.51	0/435	1.01	3/575 (0.5%)
42	Ln	0.49	0/231	0.79	0/294
43	Lo	0.53	0/876	1.01	6/1156 (0.5%)
44	Lp	0.62	0/718	0.87	1/953 (0.1%)
45	Lr	0.59	0/1017	0.95	5/1364 (0.4%)
46	Lz	0.33	0/1769	0.85	5/2371 (0.2%)
47	S2	0.27	0/41243	0.33	0/64257
48	SA	0.49	0/1778	0.99	8/2416 (0.3%)
49	SB	0.49	0/1765	0.88	3/2362 (0.1%)
50	SD	0.45	0/1793	0.91	3/2414 (0.1%)
51	SE	0.47	0/2118	0.93	4/2849 (0.1%)
52	SF	0.41	0/1500	0.91	5/2015 (0.2%)
53	SH	0.46	0/1544	0.94	4/2068 (0.2%)
54	SI	0.49	0/1715	0.95	8/2287 (0.3%)
55	SK	0.37	0/851	0.87	1/1147 (0.1%)
56	SL	0.53	0/1268	1.00	8/1696 (0.5%)
57	SP	0.39	0/815	0.94	4/1087 (0.4%)
58	SQ	0.41	0/1177	0.93	4/1575 (0.3%)
59	SR	0.44	0/1086	0.90	3/1457 (0.2%)
60	SS	0.42	0/1253	0.95	5/1676 (0.3%)
61	ST	0.38	0/1131	0.87	3/1515 (0.2%)
62	SU	0.41	0/831	0.90	1/1115 (0.1%)
63	SV	0.50	0/643	0.92	3/860 (0.3%)
64	SX	0.56	0/1116	0.89	4/1490 (0.3%)
65	Sa	0.57	0/863	1.06	8/1159 (0.7%)
66	Sc	0.43	0/508	0.90	1/680 (0.1%)
67	Sd	0.41	0/455	0.81	1/603 (0.2%)
68	Sg	0.38	0/2493	0.90	8/3394 (0.2%)
69	SC	0.53	0/1762	1.03	10/2381 (0.4%)
70	SG	0.41	0/1946	0.95	7/2590 (0.3%)
71	SJ	0.49	0/1550	0.93	8/2069 (0.4%)
72	SM	0.36	0/962	1.00	5/1290 (0.4%)
73	SN	0.55	0/1232	1.02	8/1656 (0.5%)
74	SO	0.55	0/1062	0.98	4/1425 (0.3%)
75	SW	0.57	0/1051	0.89	1/1406 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
76	SY	0.43	0/1083	0.84	0/1438
77	SZ	0.39	0/604	0.92	3/810 (0.4%)
78	Sb	0.44	0/665	0.95	6/891 (0.7%)
79	Se	0.41	0/465	0.92	3/612 (0.5%)
80	Sf	0.35	0/560	0.81	1/745 (0.1%)
All	All	0.41	0/232995	0.64	359/342094 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
4	LA	0	1
5	LB	0	3
15	LM	0	1
38	Lj	0	1
42	Ln	0	1
58	SQ	0	1
All	All	0	8

There are no bond length outliers.

All (359) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	LT	133	ALA	CA-C-N	13.40	129.31	119.66
22	LT	133	ALA	C-N-CA	13.40	129.31	119.66
38	Lj	39	TYR	CA-C-N	12.48	135.44	119.84
38	Lj	39	TYR	C-N-CA	12.48	135.44	119.84
48	SA	97	THR	CA-C-N	12.27	132.42	119.78
48	SA	97	THR	C-N-CA	12.27	132.42	119.78
73	SN	16	LEU	CA-C-N	11.48	131.61	119.78
73	SN	16	LEU	C-N-CA	11.48	131.61	119.78
33	Le	5	ARG	CA-C-N	11.37	131.33	119.85
33	Le	5	ARG	C-N-CA	11.37	131.33	119.85
8	LE	131	LYS	CA-C-N	11.16	131.08	120.03
8	LE	131	LYS	C-N-CA	11.16	131.08	120.03
18	LP	137	ASN	CA-C-N	11.15	131.11	119.85
18	LP	137	ASN	C-N-CA	11.15	131.11	119.85
70	SG	134	GLY	CA-C-N	11.07	131.18	119.78
70	SG	134	GLY	C-N-CA	11.07	131.18	119.78
7	LD	268	ARG	CA-C-N	10.51	130.47	119.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	LD	268	ARG	C-N-CA	10.51	130.47	119.85
11	LH	99	PHE	CA-C-N	9.82	129.77	119.85
11	LH	99	PHE	C-N-CA	9.82	129.77	119.85
72	SM	99	ASN	CA-C-N	9.57	129.32	119.56
72	SM	99	ASN	C-N-CA	9.57	129.32	119.56
48	SA	152	SER	CA-C-N	9.53	129.48	119.85
48	SA	152	SER	C-N-CA	9.53	129.48	119.85
10	LG	132	ARG	CA-C-N	9.47	126.57	119.66
10	LG	132	ARG	C-N-CA	9.47	126.57	119.66
12	LI	191	ILE	CA-C-N	9.24	129.28	119.76
12	LI	191	ILE	C-N-CA	9.24	129.28	119.76
14	LL	11	LYS	CA-C-N	9.12	129.17	119.78
14	LL	11	LYS	C-N-CA	9.12	129.17	119.78
21	LS	24	THR	CA-C-N	9.00	126.23	119.66
21	LS	24	THR	C-N-CA	9.00	126.23	119.66
5	LB	258	HIS	CA-C-N	-8.99	110.33	120.04
5	LB	258	HIS	C-N-CA	-8.99	110.33	120.04
14	LL	133	ALA	CA-C-N	8.88	129.01	120.31
14	LL	133	ALA	C-N-CA	8.88	129.01	120.31
24	LV	20	LEU	CA-C-N	8.78	128.83	119.78
24	LV	20	LEU	C-N-CA	8.78	128.83	119.78
54	SI	178	ARG	CA-C-N	8.73	128.77	119.78
54	SI	178	ARG	C-N-CA	8.73	128.77	119.78
69	SC	196	ILE	CA-C-N	8.62	128.66	119.78
69	SC	196	ILE	C-N-CA	8.62	128.66	119.78
21	LS	25	PRO	CA-C-N	8.61	128.55	119.85
21	LS	25	PRO	C-N-CA	8.61	128.55	119.85
65	Sa	19	GLN	CA-C-N	8.51	128.54	119.78
65	Sa	19	GLN	C-N-CA	8.51	128.54	119.78
74	SO	135	ILE	CA-C-N	8.27	128.20	119.85
74	SO	135	ILE	C-N-CA	8.27	128.20	119.85
58	SQ	123	ASP	CA-C-N	8.09	128.18	119.28
58	SQ	123	ASP	C-N-CA	8.09	128.18	119.28
20	LR	129	GLY	N-CA-C	-7.95	101.85	112.82
6	LC	5	ARG	CA-C-N	7.95	127.97	119.78
6	LC	5	ARG	C-N-CA	7.95	127.97	119.78
19	LQ	58	ARG	CA-C-N	7.94	125.46	119.66
19	LQ	58	ARG	C-N-CA	7.94	125.46	119.66
46	Lz	58	THR	CA-C-N	7.89	127.82	119.85
46	Lz	58	THR	C-N-CA	7.89	127.82	119.85
4	LA	205	ASN	CA-C-N	7.85	127.92	119.28
4	LA	205	ASN	C-N-CA	7.85	127.92	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	LI	159	PHE	CA-C-N	7.80	127.86	119.28
12	LI	159	PHE	C-N-CA	7.80	127.86	119.28
73	SN	22	VAL	CA-C-N	7.75	127.77	119.78
73	SN	22	VAL	C-N-CA	7.75	127.77	119.78
29	La	70	CYS	CA-C-N	7.65	127.66	119.78
29	La	70	CYS	C-N-CA	7.65	127.66	119.78
51	SE	238	LEU	CA-C-N	7.62	127.63	119.78
51	SE	238	LEU	C-N-CA	7.62	127.63	119.78
43	Lo	4	VAL	CA-C-N	7.60	127.61	119.78
43	Lo	4	VAL	C-N-CA	7.60	127.61	119.78
16	LN	153	LYS	CA-C-N	7.57	127.61	119.28
16	LN	153	LYS	C-N-CA	7.57	127.61	119.28
69	SC	266	TYR	N-CA-C	-7.55	104.06	113.20
77	SZ	69	THR	CA-C-N	7.48	127.51	119.28
77	SZ	69	THR	C-N-CA	7.48	127.51	119.28
45	Lr	103	ARG	CA-C-N	7.48	127.50	119.28
45	Lr	103	ARG	C-N-CA	7.48	127.50	119.28
52	SF	49	LEU	CA-C-N	7.46	127.49	119.28
52	SF	49	LEU	C-N-CA	7.46	127.49	119.28
58	SQ	36	GLY	N-CA-C	-7.46	105.51	115.21
50	SD	140	GLY	N-CA-C	7.46	119.84	110.96
33	Le	9	LYS	CA-C-N	7.46	127.46	119.78
33	Le	9	LYS	C-N-CA	7.46	127.46	119.78
65	Sa	102	ARG	CA-C-N	-7.42	112.14	119.78
65	Sa	102	ARG	C-N-CA	-7.42	112.14	119.78
6	LC	241	ALA	CA-C-N	7.41	127.28	119.05
6	LC	241	ALA	C-N-CA	7.41	127.28	119.05
8	LE	264	ILE	CA-C-N	7.34	127.34	119.78
8	LE	264	ILE	C-N-CA	7.34	127.34	119.78
68	Sg	157	SER	CA-C-N	7.34	127.34	119.78
68	Sg	157	SER	C-N-CA	7.34	127.34	119.78
52	SF	62	ARG	N-CA-C	-7.29	104.41	113.38
26	LX	57	GLN	CA-C-N	7.28	127.27	119.78
26	LX	57	GLN	C-N-CA	7.28	127.27	119.78
8	LE	50	LEU	N-CA-C	-7.26	106.35	114.62
12	LI	46	PHE	CA-C-N	7.22	127.22	119.28
12	LI	46	PHE	C-N-CA	7.22	127.22	119.28
17	LO	109	PRO	CA-C-N	7.19	127.79	120.38
17	LO	109	PRO	C-N-CA	7.19	127.79	120.38
57	SP	68	PRO	CA-C-N	7.12	127.11	119.28
57	SP	68	PRO	C-N-CA	7.12	127.11	119.28
4	LA	196	TRP	CA-C-N	-7.06	111.02	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	LA	196	TRP	C-N-CA	-7.06	111.02	119.84
14	LL	54	PRO	CA-C-O	-7.04	113.39	121.56
50	SD	212	GLU	CA-C-N	7.00	126.98	119.28
50	SD	212	GLU	C-N-CA	7.00	126.98	119.28
9	LF	83	VAL	CA-C-N	6.94	126.93	119.78
9	LF	83	VAL	C-N-CA	6.94	126.93	119.78
53	SH	150	GLY	N-CA-C	-6.94	105.64	115.43
63	SV	41	LYS	CB-CA-C	-6.92	108.60	116.63
69	SC	198	ALA	CA-C-N	6.86	126.84	119.78
69	SC	198	ALA	C-N-CA	6.86	126.84	119.78
56	SL	13	GLN	CA-C-N	6.85	126.82	119.28
56	SL	13	GLN	C-N-CA	6.85	126.82	119.28
13	LJ	112	HIS	N-CA-C	6.85	118.75	111.28
56	SL	65	ASN	N-CA-C	6.84	118.82	111.36
53	SH	66	VAL	CB-CA-C	-6.83	107.21	113.70
69	SC	163	VAL	CA-C-N	6.83	126.81	119.78
69	SC	163	VAL	C-N-CA	6.83	126.81	119.78
8	LE	156	ARG	N-CA-C	-6.79	104.99	113.20
64	SX	88	ASP	N-CA-C	6.78	118.67	111.28
54	SI	31	ARG	CA-C-N	6.74	126.72	119.78
54	SI	31	ARG	C-N-CA	6.74	126.72	119.78
6	LC	304	ALA	CA-C-N	6.72	126.70	119.78
6	LC	304	ALA	C-N-CA	6.72	126.70	119.78
12	LI	17	TYR	CA-C-N	6.71	126.63	119.85
12	LI	17	TYR	C-N-CA	6.71	126.63	119.85
38	Lj	39	TYR	N-CA-C	6.70	120.45	108.47
8	LE	184	VAL	CA-C-N	6.62	126.53	119.85
8	LE	184	VAL	C-N-CA	6.62	126.53	119.85
22	LT	134	PRO	CA-C-N	6.61	126.55	119.28
22	LT	134	PRO	C-N-CA	6.61	126.55	119.28
79	Se	46	VAL	N-CA-C	6.57	115.13	109.02
4	LA	65	ASP	CA-C-N	6.54	126.47	119.28
4	LA	65	ASP	C-N-CA	6.54	126.47	119.28
37	Li	23	LYS	CA-C-N	6.51	126.49	119.78
37	Li	23	LYS	C-N-CA	6.51	126.49	119.78
73	SN	136	PRO	CA-C-N	6.49	126.42	119.28
73	SN	136	PRO	C-N-CA	6.49	126.42	119.28
6	LC	295	SER	CA-C-N	6.49	126.41	119.28
6	LC	295	SER	C-N-CA	6.49	126.41	119.28
64	SX	85	VAL	CA-C-N	6.47	126.45	119.78
64	SX	85	VAL	C-N-CA	6.47	126.45	119.78
5	LB	248	LEU	N-CA-C	-6.45	107.27	114.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	LN	83	LYS	CA-C-N	6.41	126.33	119.28
16	LN	83	LYS	C-N-CA	6.41	126.33	119.28
10	LG	46	GLN	CA-C-N	6.40	126.38	119.78
10	LG	46	GLN	C-N-CA	6.40	126.38	119.78
74	SO	109	GLY	CA-C-N	6.40	126.32	119.28
74	SO	109	GLY	C-N-CA	6.40	126.32	119.28
13	LJ	45	GLY	N-CA-C	-6.37	106.89	115.36
60	SS	73	ASN	CA-C-N	6.36	126.28	119.28
60	SS	73	ASN	C-N-CA	6.36	126.28	119.28
68	Sg	24	THR	CA-C-N	6.32	126.23	119.28
68	Sg	24	THR	C-N-CA	6.32	126.23	119.28
19	LQ	95	VAL	CA-C-N	6.30	126.27	119.78
19	LQ	95	VAL	C-N-CA	6.30	126.27	119.78
14	LL	53	GLY	CA-C-N	6.26	126.23	119.78
14	LL	53	GLY	C-N-CA	6.26	126.23	119.78
70	SG	61	PHE	CA-C-N	6.25	126.22	119.78
70	SG	61	PHE	C-N-CA	6.25	126.22	119.78
12	LI	200	VAL	CA-C-N	6.23	126.20	119.78
12	LI	200	VAL	C-N-CA	6.23	126.20	119.78
39	Lk	21	LYS	CB-CA-C	-6.22	108.77	117.23
21	LS	17	LEU	CA-C-N	6.21	126.18	119.78
21	LS	17	LEU	C-N-CA	6.21	126.18	119.78
33	Le	113	GLU	N-CA-C	-6.21	104.57	111.71
56	SL	99	TYR	N-CA-C	-6.20	101.31	110.48
64	SX	108	LYS	CB-CA-C	-6.20	108.42	115.79
54	SI	180	GLY	N-CA-C	-6.19	106.87	114.92
69	SC	153	GLY	N-CA-C	-6.19	107.86	114.67
14	LL	127	PHE	CA-C-N	6.18	126.15	119.78
14	LL	127	PHE	C-N-CA	6.18	126.15	119.78
43	Lo	53	LYS	CA-C-N	6.18	126.13	119.76
43	Lo	53	LYS	C-N-CA	6.18	126.13	119.76
48	SA	104	THR	CA-C-N	6.14	126.11	119.78
48	SA	104	THR	C-N-CA	6.14	126.11	119.78
22	LT	4	THR	N-CA-C	6.13	119.36	109.79
36	Lh	114	TYR	CA-C-N	6.12	126.03	119.85
36	Lh	114	TYR	C-N-CA	6.12	126.03	119.85
71	SJ	67	ASP	CA-C-N	6.11	125.84	119.05
71	SJ	67	ASP	C-N-CA	6.11	125.84	119.05
20	LR	25	ASP	CA-C-N	6.11	126.00	119.28
20	LR	25	ASP	C-N-CA	6.11	126.00	119.28
22	LT	118	GLU	N-CA-C	-6.10	105.80	113.18
71	SJ	18	ARG	CA-C-N	6.10	126.06	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	SJ	18	ARG	C-N-CA	6.10	126.06	119.78
78	Sb	11	SER	CA-C-N	6.09	125.98	119.28
78	Sb	11	SER	C-N-CA	6.09	125.98	119.28
45	Lr	40	TYR	N-CA-C	-6.06	105.72	112.57
5	LB	171	LEU	CA-C-N	6.06	125.95	119.28
5	LB	171	LEU	C-N-CA	6.06	125.95	119.28
22	LT	81	LYS	CB-CA-C	-6.03	108.62	115.79
49	SB	220	LYS	CA-C-N	6.03	127.37	119.84
49	SB	220	LYS	C-N-CA	6.03	127.37	119.84
75	SW	65	LEU	N-CA-C	6.02	122.70	113.19
9	LF	111	LEU	N-CA-C	-6.01	104.80	111.71
10	LG	76	VAL	CA-C-N	5.98	124.03	119.66
10	LG	76	VAL	C-N-CA	5.98	124.03	119.66
71	SJ	144	ILE	N-CA-C	5.97	113.46	107.55
4	LA	14	SER	CB-CA-C	-5.95	109.14	117.23
17	LO	108	ILE	CA-C-N	5.95	124.00	119.66
17	LO	108	ILE	C-N-CA	5.95	124.00	119.66
58	SQ	44	PRO	N-CA-C	-5.95	105.62	113.65
59	SR	111	PHE	CA-C-O	5.93	121.38	117.94
29	La	19	HIS	N-CA-C	5.92	119.77	111.30
66	Sc	38	THR	N-CA-C	-5.92	106.30	112.93
17	LO	120	VAL	CA-C-N	5.92	125.79	119.28
17	LO	120	VAL	C-N-CA	5.92	125.79	119.28
63	SV	45	ARG	CB-CA-C	-5.92	108.75	115.79
10	LG	43	GLN	CA-C-O	5.86	121.34	117.94
46	Lz	119	GLN	CA-C-N	5.85	123.93	120.24
46	Lz	119	GLN	C-N-CA	5.85	123.93	120.24
18	LP	131	ARG	N-CA-C	5.84	117.98	108.76
4	LA	246	LEU	N-CA-C	-5.83	101.41	110.10
20	LR	40	GLN	N-CA-C	-5.82	107.98	114.62
13	LJ	118	LYS	CB-CA-C	-5.82	108.20	116.34
25	LW	87	LEU	N-CA-C	-5.82	105.02	111.71
6	LC	164	THR	N-CA-C	5.81	117.69	111.36
25	LW	14	TYR	CA-C-N	5.80	127.08	119.84
25	LW	14	TYR	C-N-CA	5.80	127.08	119.84
54	SI	150	ASP	N-CA-C	-5.79	105.47	112.54
7	LD	4	VAL	N-CA-C	5.78	117.53	109.55
59	SR	111	PHE	CB-CA-C	-5.76	108.77	117.07
5	LB	315	ASN	CA-C-N	5.73	125.64	119.85
5	LB	315	ASN	C-N-CA	5.73	125.64	119.85
69	SC	267	GLN	N-CA-C	-5.72	107.30	114.56
10	LG	35	ARG	CA-C-N	5.67	125.62	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	LG	35	ARG	C-N-CA	5.67	125.62	119.78
43	Lo	63	THR	N-CA-C	5.66	115.49	108.19
5	LB	305	THR	CB-CA-C	-5.65	109.55	117.23
33	Le	5	ARG	N-CA-C	5.65	118.79	109.58
78	Sb	27	SER	CA-C-N	5.64	125.59	119.78
78	Sb	27	SER	C-N-CA	5.64	125.59	119.78
72	SM	19	GLN	N-CA-C	-5.63	106.45	113.38
77	SZ	57	LYS	N-CA-C	5.63	118.36	111.82
36	Lh	38	GLY	N-CA-C	-5.62	107.89	115.36
14	LL	54	PRO	CA-C-N	5.60	131.78	121.70
14	LL	54	PRO	C-N-CA	5.60	131.78	121.70
65	Sa	64	LEU	CA-C-N	5.60	125.55	119.78
65	Sa	64	LEU	C-N-CA	5.60	125.55	119.78
6	LC	33	ARG	CA-C-N	5.59	125.43	119.28
6	LC	33	ARG	C-N-CA	5.59	125.43	119.28
5	LB	240	LEU	CA-C-N	5.59	125.53	119.78
5	LB	240	LEU	C-N-CA	5.59	125.53	119.78
72	SM	77	ILE	N-CA-C	5.58	115.92	108.27
71	SJ	169	ARG	CA-C-N	5.56	125.51	119.78
71	SJ	169	ARG	C-N-CA	5.56	125.51	119.78
18	LP	79	THR	N-CA-C	5.56	117.15	111.14
12	LI	26	VAL	N-CA-C	5.54	113.40	108.63
6	LC	244	GLY	N-CA-C	-5.54	108.10	114.69
52	SF	126	THR	CB-CA-C	-5.52	106.53	114.87
61	ST	30	VAL	CA-C-N	5.52	125.47	119.78
61	ST	30	VAL	C-N-CA	5.52	125.47	119.78
22	LT	68	THR	N-CA-C	5.51	115.30	108.19
20	LR	19	LYS	N-CA-C	-5.50	106.61	113.15
5	LB	259	PRO	N-CA-C	-5.49	106.86	114.27
29	La	141	GLY	N-CA-C	-5.48	108.07	115.36
13	LJ	132	VAL	N-CA-C	5.48	115.68	107.51
71	SJ	106	LEU	N-CA-C	-5.48	106.55	113.18
70	SG	173	ALA	CA-C-N	5.48	125.40	119.76
70	SG	173	ALA	C-N-CA	5.48	125.40	119.76
23	LU	97	ARG	N-CA-C	-5.46	105.72	112.38
16	LN	78	GLY	N-CA-C	-5.46	106.49	114.90
27	LY	21	ALA	CA-C-N	5.46	125.36	119.85
27	LY	21	ALA	C-N-CA	5.46	125.36	119.85
43	Lo	4	VAL	N-CA-C	5.42	113.64	109.19
45	Lr	72	LYS	CA-C-N	5.42	125.24	119.28
45	Lr	72	LYS	C-N-CA	5.42	125.24	119.28
53	SH	13	GLY	N-CA-C	-5.41	108.23	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
70	SG	221	LYS	N-CA-C	-5.41	105.55	111.82
37	Li	78	GLY	N-CA-C	5.41	122.78	115.32
52	SF	171	GLU	N-CA-C	-5.41	105.94	112.54
13	LJ	118	LYS	N-CA-C	5.40	116.00	108.00
68	Sg	54	ILE	CA-C-N	5.40	125.34	119.78
68	Sg	54	ILE	C-N-CA	5.40	125.34	119.78
11	LH	49	GLY	N-CA-C	5.39	121.39	112.66
55	SK	25	LYS	N-CA-C	-5.38	107.02	113.21
35	Lg	27	GLY	N-CA-C	-5.37	107.91	115.32
7	LD	161	GLY	N-CA-C	-5.36	106.30	112.73
62	SU	118	ASP	CB-CA-C	-5.35	109.95	117.23
54	SI	104	ILE	N-CA-C	5.34	115.40	108.35
65	Sa	98	PRO	CA-C-N	5.34	125.28	119.78
65	Sa	98	PRO	C-N-CA	5.34	125.28	119.78
22	LT	131	GLN	CA-C-N	5.34	125.24	119.85
22	LT	131	GLN	C-N-CA	5.34	125.24	119.85
48	SA	77	ILE	N-CA-C	5.33	115.24	107.88
60	SS	14	ARG	N-CA-C	5.33	116.23	108.14
68	Sg	48	ASP	N-CA-C	5.32	116.61	108.52
29	La	98	ALA	CA-C-N	5.32	125.25	119.78
29	La	98	ALA	C-N-CA	5.32	125.25	119.78
46	Lz	120	ILE	CB-CA-C	-5.30	108.73	114.35
35	Lg	56	VAL	N-CA-C	5.30	117.99	112.90
8	LE	47	ASN	CA-C-N	5.30	125.22	119.76
8	LE	47	ASN	C-N-CA	5.30	125.22	119.76
27	LY	68	GLY	N-CA-C	5.29	119.33	110.56
28	LZ	68	ILE	N-CA-C	5.28	115.81	110.05
6	LC	322	LEU	N-CA-C	5.28	116.72	111.07
61	ST	127	GLY	N-CA-C	-5.28	108.11	114.66
31	Lc	36	LYS	N-CA-C	-5.26	105.66	111.71
18	LP	153	LYS	N-CA-C	5.26	116.75	107.61
6	LC	147	VAL	CA-C-N	5.23	124.86	119.05
6	LC	147	VAL	C-N-CA	5.23	124.86	119.05
72	SM	29	ASP	CB-CA-C	-5.23	108.98	115.89
5	LB	29	VAL	N-CA-C	5.23	117.63	111.09
7	LD	180	PHE	CA-C-N	5.22	125.02	119.28
7	LD	180	PHE	C-N-CA	5.22	125.02	119.28
17	LO	109	PRO	O-C-N	5.22	123.71	121.31
69	SC	179	THR	N-CA-C	5.22	115.24	107.88
44	Lp	64	VAL	N-CA-C	5.20	115.53	107.78
17	LO	65	ASN	CA-C-N	5.19	124.99	119.28
17	LO	65	ASN	C-N-CA	5.19	124.99	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	SL	60	CYS	CA-C-N	5.19	124.99	119.28
56	SL	60	CYS	C-N-CA	5.19	124.99	119.28
17	LO	53	LYS	N-CA-C	-5.19	106.92	113.20
73	SN	81	ALA	CA-C-N	5.19	125.10	119.76
73	SN	81	ALA	C-N-CA	5.19	125.10	119.76
13	LJ	76	GLY	N-CA-C	5.19	120.32	113.37
18	LP	80	GLN	N-CA-C	5.19	117.17	107.99
53	SH	130	LEU	N-CA-C	-5.18	106.79	113.01
16	LN	41	ARG	CA-C-N	5.18	125.10	119.76
16	LN	41	ARG	C-N-CA	5.18	125.10	119.76
8	LE	269	GLY	N-CA-C	-5.18	108.53	115.32
18	LP	142	SER	CA-C-N	5.17	125.11	119.78
18	LP	142	SER	C-N-CA	5.17	125.11	119.78
10	LG	43	GLN	CB-CA-C	-5.17	109.63	117.07
67	Sd	39	CYS	N-CA-C	-5.16	103.72	110.53
57	SP	72	LYS	CA-C-N	5.15	126.28	119.84
57	SP	72	LYS	C-N-CA	5.15	126.28	119.84
59	SR	102	THR	N-CA-C	-5.15	107.03	113.72
41	Lm	79	GLU	CA-C-N	5.13	124.92	119.28
41	Lm	79	GLU	C-N-CA	5.13	124.92	119.28
78	Sb	9	HIS	CA-C-N	5.13	125.06	119.78
78	Sb	9	HIS	C-N-CA	5.13	125.06	119.78
49	SB	111	CYS	N-CA-C	-5.12	106.98	113.18
48	SA	152	SER	N-CA-C	5.12	116.28	109.93
60	SS	11	HIS	CA-C-N	5.12	130.91	121.70
60	SS	11	HIS	C-N-CA	5.12	130.91	121.70
9	LF	229	GLU	N-CA-C	-5.11	106.83	113.16
79	Se	46	VAL	CA-C-N	5.11	126.23	119.84
79	Se	46	VAL	C-N-CA	5.11	126.23	119.84
20	LR	51	ILE	N-CA-C	5.10	116.06	108.46
9	LF	79	GLY	N-CA-C	-5.09	108.59	115.36
51	SE	34	GLY	CA-C-N	5.08	124.86	119.28
51	SE	34	GLY	C-N-CA	5.08	124.86	119.28
7	LD	177	THR	N-CA-C	-5.08	106.93	113.02
29	La	96	GLY	N-CA-C	-5.08	108.61	115.36
5	LB	186	ASN	N-CA-C	5.07	116.52	108.96
80	Sf	130	VAL	N-CA-C	5.07	116.54	109.80
54	SI	46	VAL	N-CA-C	5.06	116.29	108.44
63	SV	81	LYS	N-CA-C	5.06	116.79	111.28
31	Lc	30	GLY	N-CA-C	5.05	117.40	110.58
56	SL	46	THR	CA-C-N	5.05	124.98	119.78
56	SL	46	THR	C-N-CA	5.05	124.98	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	LE	41	LYS	CA-C-N	5.04	124.98	119.78
8	LE	41	LYS	C-N-CA	5.04	124.98	119.78
32	Ld	95	ASP	N-CA-C	-5.03	107.17	113.15
68	Sg	63	SER	N-CA-C	5.02	117.48	111.71
41	Lm	121	LEU	N-CA-C	5.01	116.05	107.28
38	Lj	39	TYR	C-N-CD	-5.00	104.48	125.00

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	LA	227	ARG	Sidechain
5	LB	257	TRP	Peptide
5	LB	258	HIS	Peptide
5	LB	35	ASP	Peptide
15	LM	64	PHE	Peptide
38	Lj	39	TYR	Peptide
42	Ln	9	ARG	Sidechain
58	SQ	43	GLU	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L5	80184	0	40393	6017	0
2	L7	2558	0	1296	173	0
3	L8	3314	0	1683	261	0
4	LA	1898	0	1993	239	0
5	LB	3238	0	3376	414	0
6	LC	2927	0	3104	323	0
7	LD	2382	0	2410	300	0
8	LE	1967	0	2138	354	0
9	LF	1870	0	1996	268	0
10	LG	1927	0	2074	263	0
11	LH	1518	0	1601	192	0
12	LI	1711	0	1749	201	0
13	LJ	1410	0	1441	228	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	LL	1701	0	1818	234	0
15	LM	1138	0	1204	168	0
16	LN	1701	0	1749	237	0
17	LO	1650	0	1794	165	0
18	LP	1242	0	1269	139	0
19	LQ	1513	0	1628	172	0
20	LR	1566	0	1729	150	0
21	LS	1453	0	1490	194	0
22	LT	1298	0	1366	129	0
23	LU	825	0	850	114	0
24	LV	979	0	1039	124	0
25	LW	1015	0	1079	150	0
26	LX	976	0	1059	100	0
27	LY	1115	0	1205	140	0
28	LZ	1107	0	1182	157	0
29	La	1162	0	1213	180	0
30	Lb	610	0	650	56	0
31	Lc	764	0	804	79	0
32	Ld	888	0	930	108	0
33	Le	1053	0	1147	145	0
34	Lf	876	0	912	113	0
35	Lg	895	0	985	105	0
36	Lh	1015	0	1148	118	0
37	Li	832	0	917	94	0
38	Lj	705	0	740	109	0
39	Lk	569	0	637	76	0
40	Ll	444	0	483	48	0
41	Lm	429	0	466	44	0
42	Ln	230	0	274	18	0
43	Lo	862	0	930	97	0
44	Lp	708	0	755	85	0
45	Lr	1002	0	1068	138	0
46	Lz	1741	0	1854	220	0
47	S2	36900	0	18599	3280	0
48	SA	1741	0	1746	325	0
49	SB	1738	0	1809	259	0
50	SD	1765	0	1865	331	0
51	SE	2076	0	2177	320	0
52	SF	1479	0	1534	292	0
53	SH	1521	0	1616	277	0
54	SI	1686	0	1772	227	0
55	SK	827	0	854	156	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	SL	1247	0	1323	155	0
57	SP	804	0	841	143	0
58	SQ	1158	0	1232	319	0
59	SR	1072	0	1130	188	0
60	SS	1235	0	1309	249	0
61	ST	1112	0	1146	243	0
62	SU	821	0	883	196	0
63	SV	636	0	637	106	0
64	SX	1098	0	1167	135	0
65	Sa	847	0	897	103	0
66	Sc	506	0	536	122	0
67	Sd	445	0	439	62	0
68	Sg	2436	0	2393	589	0
69	SC	1725	0	1813	226	0
70	SG	1923	0	2089	406	0
71	SJ	1525	0	1640	221	0
72	SM	952	0	983	205	0
73	SN	1208	0	1294	158	0
74	SO	1049	0	1073	174	0
75	SW	1034	0	1080	145	0
76	SY	1065	0	1142	217	0
77	SZ	598	0	656	113	0
78	Sb	651	0	672	83	0
79	Se	459	0	503	52	0
80	Sf	548	0	554	80	0
81	L5	20	0	23	10	0
82	L5	160	0	0	0	0
82	L7	3	0	0	0	0
82	L8	4	0	0	0	0
82	LC	1	0	0	0	0
82	LD	1	0	0	0	0
82	LI	1	0	0	0	0
82	LP	1	0	0	0	0
82	LS	2	0	0	0	0
82	LV	1	0	0	0	0
82	Le	1	0	0	0	0
82	S2	48	0	0	0	0
82	Sa	1	0	0	0	0
83	Lg	1	0	0	0	0
83	Lj	1	0	0	0	0
83	Lm	1	0	0	0	0
83	Lo	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
83	Lp	1	0	0	0	0
83	Sa	1	0	0	0	0
83	Sd	1	0	0	0	0
83	Sf	1	0	0	0	0
84	L5	13	0	0	0	0
84	L8	1	0	0	0	0
84	LA	1	0	0	0	0
84	LD	1	0	0	0	0
84	LN	1	0	0	0	0
84	LT	1	0	0	0	0
84	Le	1	0	0	0	0
84	Lp	1	0	0	0	0
84	S2	6	0	0	1	0
84	SN	1	0	0	0	0
84	SV	1	0	0	0	0
84	SW	2	0	0	0	0
84	SX	1	0	0	0	0
All	All	217138	0	161055	20716	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 56.

All (20716) 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)
6:LC:7:LEU:HD21	6:LC:21:ASN:HB3	1.20	1.20
17:LO:102:LEU:HD21	17:LO:104:VAL:HG13	1.25	1.17
5:LB:389:MET:HG2	5:LB:392:LEU:HD11	1.27	1.16
52:SF:100:ILE:HD11	52:SF:174:ALA:HB1	1.24	1.16
13:LJ:48:PRO:HB3	13:LJ:72:CYS:HB2	1.16	1.16
52:SF:49:LEU:HD11	58:SQ:49:TYR:HB3	1.21	1.15
1:L5:4872:G:H3'	1:L5:4873:G:H5"	1.19	1.15
10:LG:57:TRP:HB3	10:LG:61:ILE:HD11	1.23	1.15
59:SR:68:GLY:HA3	59:SR:69:ILE:HG13	1.26	1.15
47:S2:189:U:H1'	47:S2:211:G:H22	1.09	1.15
62:SU:24:LEU:HB3	62:SU:87:ARG:HB2	1.28	1.15
42:Ln:18:ARG:NH1	47:S2:1183:A:OP2	1.79	1.14
47:S2:1721:U:H3'	47:S2:1722:G:H5"	1.22	1.14
53:SH:5:SER:HA	53:SH:21:SER:HB2	1.15	1.14
69:SC:270:THR:HA	69:SC:273:LEU:HB3	1.18	1.14
8:LE:88:VAL:HB	8:LE:89:LEU:HB2	1.27	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:SI:165:GLN:HG3	54:SI:171:LEU:HD23	1.30	1.13
64:SX:100:VAL:HG12	64:SX:125:VAL:HG23	1.26	1.13
13:LJ:22:LEU:HD13	13:LJ:40:LEU:HD22	1.26	1.13
13:LJ:76:GLY:HA2	13:LJ:79:ALA:HB3	1.30	1.13
47:S2:1061:U:H3'	47:S2:1062:A:H5"	1.29	1.13
68:Sg:130:LYS:HD2	68:Sg:141:THR:HG23	1.16	1.13
71:SJ:94:LEU:HD12	71:SJ:97:ILE:HD12	1.30	1.13
49:SB:103:MET:HG2	49:SB:215:VAL:HG22	1.29	1.12
49:SB:67:PHE:HB3	74:SO:48:SER:HA	1.31	1.12
6:LC:208:CYS:HB2	6:LC:248:ARG:HE	1.00	1.12
47:S2:368:U:H3'	47:S2:369:C:H3'	1.24	1.12
51:SE:259:LYS:HA	51:SE:262:SER:HB2	1.22	1.12
70:SG:162:LEU:HD22	70:SG:170:ARG:HD3	1.25	1.12
47:S2:1435:C:H5"	47:S2:1436:C:H5'	1.24	1.12
17:LO:16:LEU:HD11	17:LO:83:THR:HG21	1.26	1.12
1:L5:667:A:H5'	6:LC:6:PRO:HB3	1.22	1.11
14:LL:127:PHE:HD2	36:Lh:118:LYS:HD2	1.12	1.11
27:LY:2:LYS:HD2	27:LY:7:VAL:HG23	1.24	1.11
61:ST:18:LEU:HG	61:ST:134:ILE:HD11	1.32	1.11
66:Sc:35:MET:HE1	66:Sc:55:VAL:HG22	1.31	1.11
35:Lg:42:PRO:HG2	35:Lg:53:LEU:HD23	1.20	1.11
1:L5:970:G:H4'	1:L5:971:U:H5'	1.30	1.11
23:LU:62:THR:HB	23:LU:73:THR:HB	1.33	1.11
62:SU:61:LEU:HD12	62:SU:82:MET:HG2	1.33	1.11
1:L5:1187:G:H1'	7:LD:275:GLN:HE21	1.16	1.10
16:LN:44:ARG:HD2	16:LN:121:VAL:HG12	1.33	1.10
33:Le:90:MET:HE1	45:Lr:113:ARG:HB2	1.25	1.10
10:LG:120:LYS:HE3	10:LG:125:LYS:HG2	1.30	1.10
47:S2:1525:C:H2'	47:S2:1526:G:H5"	1.32	1.10
52:SF:143:PRO:HG3	66:Sc:56:LEU:HD21	1.25	1.10
47:S2:1562:C:H4'	61:ST:119:GLY:HA3	1.15	1.10
1:L5:4112:C:H2'	1:L5:4113:U:H5'	1.34	1.10
9:LF:94:ARG:HB2	9:LF:114:LEU:HD23	1.33	1.09
19:LQ:79:THR:HB	19:LQ:136:THR:HG22	1.23	1.09
47:S2:786:G:H5'	70:SG:234:LEU:HB3	1.26	1.09
47:S2:1566:G:H2'	47:S2:1567:G:H5"	1.27	1.09
62:SU:61:LEU:HB2	62:SU:82:MET:HB3	1.23	1.09
50:SD:69:LEU:HB3	50:SD:86:LEU:HD21	1.33	1.09
60:SS:11:HIS:HA	60:SS:12:ILE:CG2	1.81	1.09
70:SG:220:ALA:HA	70:SG:223:LYS:HB2	1.32	1.09
1:L5:4083:U:H2'	1:L5:4084:G:H5'	1.34	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:LH:94:SER:HB3	11:LH:142:ASP:HB2	1.32	1.09
47:S2:1561:A:H2'	47:S2:1562:C:H5'	1.34	1.09
47:S2:1757:G:H2'	47:S2:1758:G:H5"	1.24	1.09
11:LH:18:ILE:HG22	11:LH:27:VAL:HG22	1.27	1.09
16:LN:63:ARG:HG2	16:LN:131:GLU:HG2	1.35	1.09
31:Lc:47:ILE:HD12	31:Lc:94:LEU:HD11	1.27	1.09
58:SQ:30:GLY:HA2	58:SQ:64:ALA:HA	1.32	1.09
66:Sc:66:ARG:HG2	66:Sc:67:ARG:HG2	1.19	1.09
1:L5:1177:U:H1'	7:LD:282:GLN:HB3	1.35	1.08
52:SF:167:LYS:HG2	77:SZ:72:VAL:HG22	1.31	1.08
28:LZ:69:LYS:HA	28:LZ:115:LYS:HE3	1.33	1.08
49:SB:34:LYS:HG2	49:SB:43:ASN:HD21	1.17	1.08
68:Sg:106:LYS:HB3	68:Sg:126:ASP:HB2	1.35	1.08
1:L5:1377:G:H4'	1:L5:1378:C:H5"	1.36	1.08
47:S2:1421:A:H5"	47:S2:1422:G:H5"	1.23	1.08
69:SC:265:PRO:HA	69:SC:268:GLU:HB2	1.24	1.08
36:Lh:3:LYS:HB3	36:Lh:4:ILE:HA	1.12	1.08
47:S2:178:C:H3'	47:S2:313:A:H61	1.16	1.08
47:S2:339:A:H4'	47:S2:340:C:H5'	1.36	1.08
10:LG:113:ARG:HA	10:LG:116:ALA:HB3	1.34	1.08
46:Lz:68:LEU:HD11	46:Lz:90:LEU:HD21	1.35	1.08
1:L5:2484:A:H3'	1:L5:2485:U:H5"	1.32	1.07
70:SG:148:SER:HB3	70:SG:149:LYS:HB3	1.30	1.07
31:Lc:21:VAL:HG11	31:Lc:96:ILE:HD12	1.34	1.07
8:LE:107:VAL:HG13	8:LE:108:LYS:HB3	1.28	1.07
13:LJ:22:LEU:HD12	13:LJ:72:CYS:HB3	1.35	1.07
16:LN:115:VAL:HG11	16:LN:160:GLU:HB3	1.24	1.07
50:SD:195:THR:HG23	50:SD:199:GLY:HA3	1.30	1.07
74:SO:30:VAL:HG12	74:SO:94:HIS:HB2	1.16	1.07
8:LE:94:LYS:HB3	8:LE:95:PRO:HD2	1.36	1.07
1:L5:499:G:H2'	1:L5:500:G:H4'	1.12	1.07
60:SS:11:HIS:HA	60:SS:12:ILE:HG23	1.08	1.07
73:SN:34:LYS:HG2	73:SN:74:ILE:HD11	1.09	1.07
75:SW:37:PHE:HE1	75:SW:103:VAL:HG21	1.19	1.06
1:L5:695:G:H2'	1:L5:696:C:H5'	1.37	1.06
47:S2:392:A:H2'	47:S2:393:U:H5'	1.38	1.06
47:S2:1017:U:H5'	73:SN:55:ARG:HD3	1.38	1.06
68:Sg:108:VAL:HG23	68:Sg:124:SER:HA	1.38	1.06
47:S2:141:A:H4'	47:S2:142:C:H5"	1.31	1.06
49:SB:136:ARG:HE	49:SB:218:LEU:HD11	1.19	1.06
10:LG:259:LYS:HA	10:LG:262:ALA:HB3	1.33	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:LY:44:VAL:HG22	27:LY:122:LYS:HB2	1.34	1.06
48:SA:43:SER:HB2	59:SR:123:THR:HG22	1.34	1.06
61:ST:38:LYS:HG2	61:ST:46:ALA:HB2	1.37	1.06
52:SF:137:GLN:HG3	66:Sc:68:LEU:HD21	1.35	1.05
5:LB:163:ILE:HG12	5:LB:182:GLU:HG2	1.37	1.05
32:Ld:90:ARG:HG2	32:Ld:102:LEU:HD11	1.37	1.05
47:S2:691:G:H21	53:SH:181:THR:HA	1.12	1.05
50:SD:48:ILE:HG13	50:SD:86:LEU:HB3	1.36	1.05
70:SG:228:ILE:HD12	70:SG:231:ARG:HD2	1.39	1.05
1:L5:756:G:H2'	1:L5:757:G:H5"	1.34	1.05
11:LH:148:GLY:HA2	11:LH:154:VAL:HG21	1.37	1.05
16:LN:64:ILE:HD11	16:LN:102:ALA:HB1	1.34	1.05
47:S2:655:A:H4'	47:S2:656:G:H5'	1.32	1.05
68:Sg:72:SER:HB2	68:Sg:77:PHE:HB2	1.38	1.05
1:L5:1181:C:H3'	1:L5:1182:C:H4'	1.35	1.04
47:S2:434:G:H2'	47:S2:435:A:H8	1.21	1.04
48:SA:56:GLU:HG2	63:SV:79:VAL:HG13	1.38	1.04
68:Sg:210:GLY:HA3	68:Sg:236:ILE:HG21	1.39	1.04
13:LJ:40:LEU:HD23	13:LJ:43:LEU:HD23	1.34	1.04
25:LW:83:THR:HA	70:SG:131:ARG:HB2	1.37	1.04
66:Sc:14:VAL:HG12	66:Sc:32:VAL:HG12	1.39	1.04
13:LJ:119:TYR:HB3	60:SS:13:LEU:HD13	1.39	1.04
24:LV:26:ILE:HG21	24:LV:103:GLY:H	1.22	1.04
47:S2:691:G:H3'	47:S2:692:G:H5"	1.37	1.04
53:SH:53:VAL:HG12	53:SH:58:LYS:HA	1.39	1.04
56:SL:68:ILE:HG13	56:SL:143:LEU:HD21	1.39	1.04
1:L5:1280:C:H2'	1:L5:1281:G:H3'	1.37	1.04
10:LG:159:HIS:CD2	10:LG:185:LYS:HA	1.93	1.04
63:SV:15:ARG:HB2	63:SV:24:ILE:HD12	1.36	1.04
6:LC:333:LYS:HE3	8:LE:54:ILE:HG12	1.40	1.03
9:LF:225:THR:HG23	9:LF:231:GLY:HA3	1.39	1.03
53:SH:8:ILE:HG23	53:SH:9:VAL:HG23	1.40	1.03
10:LG:176:LYS:HG3	37:Li:43:MET:HE1	1.40	1.03
14:LL:54:PRO:HB3	14:LL:55:ILE:HG22	1.38	1.03
47:S2:1018:U:H5'	73:SN:71:ILE:HD13	1.40	1.03
52:SF:39:ILE:HD12	52:SF:147:VAL:HG11	1.38	1.03
56:SL:96:ILE:HD12	64:SX:10:ALA:HB1	1.36	1.03
75:SW:42:MET:HB2	75:SW:47:ILE:HD11	1.38	1.03
1:L5:2340:C:H1'	6:LC:45:ARG:HH22	1.22	1.03
47:S2:1412:C:H41	47:S2:1414:A:H1'	1.19	1.03
59:SR:41:ILE:HD11	59:SR:47:ARG:HB2	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4426:C:H2'	1:L5:4427:G:H5'	1.41	1.03
60:SS:48:ALA:HB3	60:SS:50:ILE:HG12	1.39	1.03
68:Sg:258:ILE:HD13	68:Sg:269:GLU:HA	1.40	1.03
71:SJ:46:VAL:HG21	71:SJ:106:LEU:HD11	1.41	1.03
1:L5:1669:A:N7	1:L5:1880:G:N2	2.07	1.03
12:LI:76:MET:HE1	12:LI:147:HIS:HB3	1.38	1.03
1:L5:3961:G:H1'	1:L5:4048:A:H61	1.18	1.02
37:Li:34:THR:HG22	37:Li:36:HIS:H	1.22	1.02
58:SQ:47:LEU:HB3	58:SQ:50:LYS:HE3	1.37	1.02
71:SJ:4:ALA:HB3	71:SJ:5:ARG:HD3	1.38	1.02
25:LW:3:VAL:HG11	25:LW:12:LYS:HD3	1.37	1.02
27:LY:51:LYS:HE3	27:LY:72:GLN:HA	1.40	1.02
47:S2:1544:C:H2'	47:S2:1545:A:H5"	1.37	1.02
50:SD:226:GLN:HA	68:Sg:186:THR:HB	1.41	1.02
52:SF:102:LEU:HD13	77:SZ:110:THR:HG21	1.41	1.02
1:L5:1088:C:H2'	1:L5:1089:G:H8	1.23	1.02
11:LH:89:ARG:HD3	11:LH:91:LYS:HE3	1.42	1.02
25:LW:80:ARG:HH21	70:SG:131:ARG:HD2	1.23	1.02
63:SV:59:ILE:HG23	63:SV:64:GLU:HB3	1.40	1.02
9:LF:26:ALA:HA	9:LF:29:LYS:HG2	1.41	1.01
39:Lk:24:LYS:HD2	39:Lk:69:LEU:HD21	1.37	1.01
69:SC:131:GLY:HA3	69:SC:137:VAL:HG12	1.42	1.01
71:SJ:4:ALA:HB3	71:SJ:5:ARG:HA	1.42	1.01
51:SE:90:ILE:HD12	51:SE:101:LEU:HD11	1.42	1.01
53:SH:147:LYS:HB3	53:SH:151:SER:HB3	1.43	1.01
58:SQ:38:PRO:HB2	58:SQ:41:MET:HB2	1.39	1.01
7:LD:211:LEU:HD13	7:LD:219:TYR:HA	1.42	1.01
34:Lf:50:VAL:HA	34:Lf:69:VAL:HG12	1.40	1.01
56:SL:59:LYS:HD3	56:SL:134:LEU:HD23	1.40	1.01
68:Sg:215:GLN:HB3	68:Sg:229:THR:HG21	1.43	1.01
24:LV:29:ALA:HB3	24:LV:104:VAL:HG12	1.41	1.01
76:SY:55:ILE:HA	76:SY:75:ILE:HG12	1.42	1.01
1:L5:455:C:H2'	1:L5:456:C:H5'	1.42	1.01
1:L5:668:C:H2'	1:L5:669:C:H5"	1.40	1.01
1:L5:694:C:H3'	1:L5:695:G:H5"	1.41	1.01
6:LC:24:LEU:HD12	6:LC:25:PRO:HD2	1.43	1.01
60:SS:39:ARG:HD2	61:ST:38:LYS:HE2	1.42	1.01
70:SG:22:ARG:HG3	70:SG:23:LYS:HG2	1.41	1.01
1:L5:1760:G:H3'	1:L5:1761:G:C5'	1.89	1.00
1:L5:2611:A:H5'	1:L5:2688:G:H4'	1.43	1.00
14:LL:128:PRO:HB3	14:LL:134:PRO:HD3	1.41	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:LZ:10:VAL:HG23	28:LZ:86:SER:HA	1.43	1.00
32:Ld:90:ARG:HD2	32:Ld:102:LEU:HD21	1.39	1.00
68:Sg:127:LYS:HA	68:Sg:151:VAL:HG23	1.39	1.00
72:SM:24:THR:HA	72:SM:116:LYS:HB2	1.43	1.00
1:L5:746:A:H61	1:L5:915:A:H3'	1.23	1.00
1:L5:1839:U:H3'	1:L5:1840:G:H21	1.25	1.00
53:SH:154:ILE:HB	53:SH:185:VAL:HG12	1.43	1.00
72:SM:40:LYS:HD3	72:SM:42:LEU:HD12	1.44	1.00
1:L5:1802:A:H5"	1:L5:1803:G:H5'	1.41	1.00
1:L5:4364:G:H2'	1:L5:4365:C:H6	1.26	1.00
10:LG:136:LEU:HD13	10:LG:202:VAL:HG21	1.43	1.00
21:LS:110:TYR:HE1	21:LS:124:ILE:HD11	1.24	1.00
1:L5:4625:C:HO2'	5:LB:336:CYS:HG	1.00	1.00
47:S2:1421:A:H4'	61:ST:2:PRO:HB2	1.43	1.00
49:SB:71:LEU:HD13	49:SB:82:ARG:HD2	1.43	1.00
61:ST:4:VAL:HG22	61:ST:5:THR:H	1.25	1.00
1:L5:1768:C:H4'	1:L5:1769:G:H5'	1.43	1.00
29:La:24:LYS:HD2	29:La:24:LYS:H	1.26	1.00
52:SF:26:ASP:HB2	52:SF:27:ASP:HB2	1.40	1.00
48:SA:125:THR:HG22	48:SA:175:TRP:HZ2	1.27	0.99
29:La:117:LEU:HD12	29:La:118:PRO:HD2	1.38	0.99
47:S2:816:A:H2'	47:S2:817:G:H5'	1.43	0.99
55:SK:59:LYS:HB3	55:SK:70:TYR:HB2	1.44	0.99
68:Sg:289:LEU:HD22	68:Sg:298:LEU:HD11	1.42	0.99
47:S2:1285:G:H5"	72:SM:35:ILE:HG21	1.41	0.99
22:LT:30:TYR:HA	22:LT:93:ILE:HD11	1.44	0.99
52:SF:75:SER:HB3	52:SF:151:ILE:HG22	1.42	0.99
55:SK:19:GLY:HA2	55:SK:71:LEU:HD13	1.44	0.99
47:S2:537:C:H3'	47:S2:538:U:C5'	1.93	0.99
47:S2:1263:U:H5	47:S2:1264:C:H2'	1.28	0.99
53:SH:23:ILE:HG22	53:SH:27:LEU:HD11	1.45	0.99
16:LN:183:THR:HG22	16:LN:188:ARG:HA	1.44	0.99
41:Lm:77:ILE:HG23	41:Lm:78:ILE:H	1.23	0.99
52:SF:121:PRO:HG2	52:SF:196:LEU:HD23	1.41	0.99
68:Sg:21:ILE:HA	68:Sg:32:LEU:HD11	1.43	0.99
75:SW:14:ILE:HG22	75:SW:25:VAL:HG21	1.44	0.99
50:SD:185:LYS:HD3	50:SD:187:LYS:HE2	1.44	0.99
50:SD:204:LEU:HB2	50:SD:207:HIS:HB2	1.43	0.99
29:La:82:VAL:HG11	29:La:101:ILE:HG12	1.44	0.99
1:L5:2091:C:H41	9:LF:36:LYS:HE2	1.26	0.98
48:SA:127:PRO:HA	48:SA:134:LEU:HD11	1.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:135:LYS:HA	5:LB:138:GLN:HE22	1.27	0.98
14:LL:56:ARG:HB2	14:LL:72:ALA:HB1	1.42	0.98
58:SQ:97:GLN:HA	58:SQ:102:GLU:HG3	1.46	0.98
1:L5:4108:G:H2'	1:L5:4109:G:H5'	1.42	0.98
6:LC:152:LEU:HD21	6:LC:174:LEU:HD13	1.46	0.98
47:S2:698:G:H1	47:S2:731:G:H2'	1.27	0.98
48:SA:66:VAL:HG12	63:SV:47:ASN:HD22	1.27	0.98
23:LU:24:ASP:HB3	23:LU:69:LYS:HG2	1.44	0.98
47:S2:1422:G:H2'	47:S2:1423:C:H5"	1.46	0.98
50:SD:23:GLU:HG3	55:SK:64:TRP:HE1	1.27	0.98
54:SI:85:ALA:HB1	56:SL:8:ARG:HG3	1.45	0.98
70:SG:228:ILE:HA	70:SG:231:ARG:HH11	1.28	0.98
9:LF:236:ARG:HH22	9:LF:243:LEU:HD13	1.28	0.98
19:LQ:61:LEU:HD11	19:LQ:65:ARG:HD3	1.45	0.98
51:SE:45:ILE:HG13	51:SE:61:VAL:HG11	1.41	0.98
22:LT:126:VAL:HG22	22:LT:127:GLN:H	1.25	0.98
76:SY:27:VAL:HG21	76:SY:35:VAL:HG21	1.41	0.98
51:SE:229:GLY:HA3	51:SE:234:PRO:HA	1.42	0.98
71:SJ:4:ALA:CB	71:SJ:5:ARG:HA	1.93	0.98
5:LB:45:ALA:HB3	5:LB:183:ILE:HG23	1.43	0.98
47:S2:902:G:C2	47:S2:903:A:H1'	1.98	0.98
76:SY:7:ILE:HD11	76:SY:43:LYS:HB3	1.43	0.98
53:SH:79:LEU:HD12	53:SH:82:GLU:HG3	1.44	0.97
74:SO:83:GLN:HA	74:SO:86:LYS:HG2	1.46	0.97
27:LY:56:GLN:HB3	27:LY:105:VAL:HG13	1.43	0.97
72:SM:24:THR:HG22	72:SM:31:LEU:HD11	1.45	0.97
72:SM:90:GLY:HA2	72:SM:93:LYS:HD3	1.40	0.97
73:SN:88:LEU:HD13	73:SN:125:LEU:HD23	1.44	0.97
1:L5:1447:C:H2'	1:L5:1448:G:H5'	1.45	0.97
4:LA:49:ILE:HD13	4:LA:60:LYS:HD2	1.46	0.97
61:ST:125:PRO:HA	61:ST:128:GLN:HB3	1.42	0.97
55:SK:32:HIS:HB2	55:SK:42:ASN:HB2	1.46	0.97
18:LP:32:THR:HG22	18:LP:58:VAL:HG11	1.44	0.97
18:LP:126:ARG:HB2	18:LP:140:MET:HE1	1.44	0.97
78:Sb:65:GLN:HB2	78:Sb:72:ARG:HB3	1.46	0.97
14:LL:47:ALA:HB1	14:LL:48:PRO:HD2	1.43	0.97
58:SQ:12:VAL:HB	58:SQ:91:ALA:HB2	1.47	0.97
8:LE:261:ILE:HG23	8:LE:267:LEU:HD22	1.45	0.97
50:SD:93:THR:HB	50:SD:96:LEU:HD13	1.47	0.97
48:SA:66:VAL:HG21	48:SA:185:MET:HB2	1.46	0.97
52:SF:125:SER:HB2	52:SF:135:ARG:HD2	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:73:VAL:HB	50:SD:84:VAL:HG11	1.46	0.97
25:LW:90:ILE:HA	25:LW:93:LYS:HZ3	1.24	0.97
47:S2:1542:C:H5"	61:ST:15:VAL:HG11	1.47	0.97
55:SK:2:LEU:HD21	55:SK:48:ALA:HA	1.46	0.97
1:L5:1920:C:H3'	1:L5:1921:C:H5"	1.46	0.96
45:Lr:32:LEU:HD11	45:Lr:50:GLY:HA2	1.45	0.96
60:SS:87:GLN:HB2	60:SS:95:TYR:HD2	1.26	0.96
1:L5:730:G:H2'	1:L5:731:G:H8	1.30	0.96
60:SS:13:LEU:HG	60:SS:14:ARG:HG2	1.48	0.96
1:L5:2631:U:H5"	1:L5:2632:U:H5'	1.44	0.96
33:Le:90:MET:HG2	45:Lr:33:LYS:HA	1.46	0.96
68:Sg:252:THR:HG21	68:Sg:257:LYS:HZ1	1.31	0.96
1:L5:1215:C:H2'	1:L5:1216:C:H5"	1.44	0.96
1:L5:1378:C:H4'	1:L5:1379:C:H5'	1.48	0.96
47:S2:63:U:H2'	47:S2:64:A:H5"	1.48	0.96
50:SD:58:VAL:HG23	50:SD:59:LEU:HD13	1.48	0.96
1:L5:1182:C:H3'	1:L5:1183:C:H5'	1.46	0.96
7:LD:52:ILE:HD11	7:LD:63:GLN:HE21	1.29	0.96
8:LE:91:THR:HA	8:LE:109:LEU:HD12	1.47	0.96
15:LM:31:ILE:HD11	15:LM:37:LEU:HB2	1.47	0.96
46:Lz:77:ALA:HB1	46:Lz:82:ILE:HB	1.45	0.96
7:LD:115:MET:HE1	7:LD:141:ALA:HA	1.47	0.96
8:LE:287:VAL:HG23	15:LM:109:ARG:HH12	1.31	0.96
13:LJ:51:SER:HB2	13:LJ:69:ALA:HB3	1.46	0.96
47:S2:1061:U:H3'	47:S2:1062:A:C5'	1.94	0.96
6:LC:76:ILE:HD12	6:LC:77:PRO:HD2	1.47	0.96
52:SF:74:ASN:HA	52:SF:77:MET:HE3	1.45	0.96
60:SS:11:HIS:CA	60:SS:12:ILE:HG23	1.96	0.96
68:Sg:88:ARG:HH11	68:Sg:100:ARG:HB3	1.31	0.96
1:L5:1760:G:H3'	1:L5:1761:G:H5'	1.45	0.95
47:S2:152:U:H1'	47:S2:167:G:H22	1.31	0.95
47:S2:317:C:H5"	70:SG:183:ARG:HH22	1.27	0.95
60:SS:39:ARG:CD	61:ST:38:LYS:HE2	1.95	0.95
26:LX:78:LYS:HD2	26:LX:99:ILE:HG22	1.44	0.95
33:Le:4:LEU:HD23	33:Le:121:ARG:HB2	1.45	0.95
47:S2:537:C:H3'	47:S2:538:U:H5'	1.47	0.95
47:S2:977:C:H2'	47:S2:978:G:H5"	1.46	0.95
51:SE:248:ILE:HD12	51:SE:249:ALA:H	1.31	0.95
1:L5:1446:C:H2'	1:L5:1447:C:H5'	1.46	0.95
1:L5:4381:A:H2'	1:L5:4382:G:H5"	1.46	0.95
1:L5:1965:G:H2'	1:L5:1966:C:H5"	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4050:A:H3'	1:L5:4051:C:H5'	1.44	0.95
47:S2:795:A:N7	47:S2:797:C:H5"	1.79	0.95
1:L5:3653:A:H5"	4:LA:179:ILE:HD11	1.47	0.95
42:Ln:23:ARG:O	42:Ln:24:SER:O	1.84	0.95
47:S2:579:C:H2'	47:S2:580:U:H5'	1.47	0.95
70:SG:44:GLU:HG2	70:SG:122:PRO:HD2	1.47	0.95
14:LL:54:PRO:CB	14:LL:55:ILE:HG22	1.97	0.95
1:L5:1183:C:H2'	1:L5:1185:G:C8	2.00	0.95
21:LS:15:ARG:HB3	21:LS:27:LEU:HD23	1.45	0.95
48:SA:50:ASN:HD21	48:SA:53:ARG:HG3	1.30	0.95
5:LB:91:GLY:HA2	5:LB:160:ILE:HG22	1.46	0.95
9:LF:243:LEU:HD21	9:LF:247:MET:HE2	1.48	0.95
61:ST:124:THR:HG23	61:ST:127:GLY:H	1.28	0.95
20:LR:38:ARG:HA	20:LR:41:ILE:HG22	1.47	0.94
65:Sa:44:ILE:HG22	65:Sa:64:LEU:HD11	1.46	0.94
1:L5:2702:C:H2'	1:L5:2703:G:H5"	1.46	0.94
1:L5:3644:U:H1'	1:L5:4555:U:H5'	1.50	0.94
1:L5:1170:G:N1	1:L5:1191:C:N3	2.15	0.94
21:LS:34:ALA:HB3	21:LS:40:ALA:HB2	1.49	0.94
38:Lj:63:ARG:HH12	38:Lj:65:ARG:HD3	1.28	0.94
47:S2:1744:G:N2	47:S2:1790:A:N7	2.15	0.94
51:SE:139:LEU:HD23	51:SE:150:PRO:HB3	1.49	0.94
76:SY:57:VAL:HA	76:SY:73:GLY:HA2	1.46	0.94
58:SQ:38:PRO:HG3	61:ST:8:ASP:HA	1.45	0.94
72:SM:18:LEU:HD21	72:SM:51:VAL:HG21	1.47	0.94
77:SZ:68:ILE:HB	77:SZ:109:TYR:HB2	1.48	0.94
1:L5:318:A:H2'	1:L5:319:A:H8	1.32	0.94
1:L5:2743:A:H2'	1:L5:2744:A:H8	1.32	0.94
49:SB:66:VAL:HG22	49:SB:87:ILE:HG22	1.50	0.94
53:SH:7:LYS:HE3	53:SH:17:ASP:HB2	1.47	0.94
58:SQ:44:PRO:HG3	58:SQ:81:ILE:HD11	1.50	0.94
65:Sa:43:ASN:HA	65:Sa:66:LYS:HG2	1.50	0.94
73:SN:16:LEU:HG	73:SN:17:PRO:HD2	1.49	0.94
50:SD:107:TYR:HA	50:SD:110:LEU:HB2	1.49	0.94
68:Sg:219:TRP:HA	68:Sg:227:LEU:HD12	1.46	0.94
68:Sg:251:ALA:HB1	68:Sg:286:CYS:HB3	1.50	0.94
1:L5:1167:C:N3	1:L5:1194:G:N2	2.15	0.94
1:L5:4105:A:H4'	1:L5:4106:G:H5"	1.50	0.94
47:S2:65:C:H1'	70:SG:172:LYS:HE3	1.49	0.94
68:Sg:54:ILE:HD12	68:Sg:55:PRO:HD2	1.50	0.94
68:Sg:56:GLN:HG3	68:Sg:57:ARG:H	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1467:C:H5”	59:SR:1:MET:HA	1.49	0.94
53:SH:121:THR:HG22	53:SH:123:THR:H	1.32	0.94
60:SS:30:ILE:HG23	60:SS:33:ILE:HD12	1.47	0.94
70:SG:190:ARG:HA	70:SG:193:ALA:HB3	1.50	0.94
4:LA:112:ILE:HG22	4:LA:135:THR:HG22	1.47	0.94
58:SQ:108:ILE:HG23	58:SQ:109:LYS:H	1.31	0.94
68:Sg:199:THR:HG21	68:Sg:240:CYS:HA	1.47	0.94
11:LH:148:GLY:CA	11:LH:154:VAL:HG21	1.98	0.93
1:L5:112:C:H2’	1:L5:113:A:H5’	1.49	0.93
1:L5:1202:C:C4	1:L5:1203:G:H1’	2.03	0.93
1:L5:4168:G:H2’	1:L5:4169:G:H5’	1.48	0.93
1:L5:4349:C:H3’	1:L5:4350:C:H5’	1.48	0.93
1:L5:956:A:H4’	1:L5:957:G:OP2	1.68	0.93
14:LL:127:PHE:CD2	36:Lh:118:LYS:HD2	2.02	0.93
47:S2:169:U:H2’	47:S2:170:A:H5”	1.51	0.93
47:S2:434:G:H2’	47:S2:435:A:C8	2.04	0.93
49:SB:39:PHE:HB3	49:SB:74:LEU:HD11	1.49	0.93
55:SK:38:LYS:HG3	55:SK:40:VAL:HG13	1.50	0.93
72:SM:69:LEU:HD12	72:SM:74:ILE:HD13	1.49	0.93
47:S2:37:C:H42	47:S2:518:G:H1	1.16	0.93
47:S2:678:U:H2’	47:S2:679:A:H8	1.29	0.93
60:SS:62:ASP:HA	60:SS:65:GLU:HG2	1.47	0.93
6:LC:115:VAL:HG13	6:LC:119:GLN:HE21	1.30	0.93
39:Lk:33:LYS:HG2	39:Lk:46:VAL:HG22	1.47	0.93
11:LH:4:ILE:HD11	21:LS:152:PHE:HB3	1.49	0.93
12:LI:183:ASP:HA	12:LI:186:ALA:HB3	1.51	0.93
23:LU:29:VAL:HG22	23:LU:34:MET:HG3	1.49	0.93
47:S2:582:C:H1’	76:SY:33:ALA:HB2	1.50	0.93
49:SB:217:MET:HG2	49:SB:220:LYS:HE3	1.48	0.93
52:SF:92:ILE:HG23	52:SF:170:ALA:HA	1.48	0.93
60:SS:34:LYS:HB2	60:SS:100:ALA:HA	1.51	0.93
61:ST:14:PHE:HA	61:ST:17:ALA:HB3	1.48	0.93
73:SN:34:LYS:HG2	73:SN:74:ILE:CD1	1.98	0.93
4:LA:70:LYS:HD2	4:LA:72:ARG:HE	1.32	0.93
49:SB:36:PRO:HA	49:SB:232:HIS:HD2	1.34	0.93
70:SG:35:GLU:HG2	70:SG:51:ARG:HB2	1.50	0.93
50:SD:105:LEU:HD13	50:SD:122:VAL:HG21	1.51	0.93
63:SV:71:ARG:HA	63:SV:74:LYS:HG2	1.51	0.93
1:L5:4767:C:H42	1:L5:4867:G:H1	1.16	0.93
69:SC:227:ARG:HG3	69:SC:228:GLY:H	1.33	0.93
47:S2:500:A:H3’	47:S2:501:C:H6	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:41:VAL:HG23	50:SD:46:THR:HG21	1.51	0.92
50:SD:101:GLN:HG2	50:SD:122:VAL:HG13	1.52	0.92
46:Lz:23:ARG:HH22	46:Lz:179:LEU:HD11	1.34	0.92
50:SD:123:LEU:HD11	50:SD:127:MET:HE2	1.51	0.92
74:SO:14:VAL:HB	74:SO:15:ILE:HA	1.52	0.92
1:L5:3700:C:H2'	1:L5:3746:A:H61	1.33	0.92
1:L5:4509:U:H5"	24:LV:44:GLY:HA2	1.52	0.92
58:SQ:13:PHE:HB3	58:SQ:22:VAL:HG22	1.52	0.92
68:Sg:258:ILE:HG21	68:Sg:268:ASP:H	1.34	0.92
1:L5:753:C:H2'	1:L5:754:U:C5	2.05	0.92
3:L8:37:A:H4'	3:L8:38:U:H5"	1.51	0.92
4:LA:29:LEU:O	4:LA:123:ARG:NH1	2.03	0.92
54:SI:43:ILE:HG12	54:SI:57:ALA:HB2	1.49	0.92
1:L5:1333:A:H2'	1:L5:1334:A:H8	1.33	0.92
15:LM:27:ILE:HA	15:LM:38:VAL:HG23	1.51	0.92
47:S2:1542:C:H3'	61:ST:62:ARG:HH12	1.32	0.92
47:S2:1618:C:H4'	57:SP:50:ARG:HH21	1.34	0.92
72:SM:49:LEU:HB3	72:SM:77:ILE:CD1	1.99	0.92
1:L5:3966:A:N6	1:L5:4057:C:N3	2.18	0.92
47:S2:416:U:H2'	47:S2:417:C:H5'	1.49	0.92
58:SQ:50:LYS:HA	58:SQ:53:GLU:HG3	1.49	0.92
1:L5:4984:C:H4'	5:LB:25:HIS:ND1	1.85	0.92
15:LM:95:ILE:HG22	15:LM:96:GLU:H	1.33	0.92
16:LN:73:ARG:HB3	16:LN:89:VAL:HG23	1.52	0.92
47:S2:529:A:N1	47:S2:554:A:N6	2.18	0.92
50:SD:132:LYS:HB2	50:SD:189:MET:HG2	1.49	0.92
1:L5:2656:U:H5"	28:LZ:38:TYR:HB3	1.52	0.92
1:L5:4765:G:H22	1:L5:4869:U:H3	1.02	0.92
47:S2:57:U:H4'	47:S2:504:G:H21	1.35	0.92
76:SY:54:VAL:HG12	76:SY:79:LEU:HD13	1.51	0.92
1:L5:4509:U:H2'	1:L5:4510:A:H5"	1.50	0.92
6:LC:158:VAL:HG12	6:LC:217:ILE:HD12	1.50	0.92
12:LI:35:ASP:HB3	12:LI:39:LYS:HG2	1.52	0.92
68:Sg:122:SER:HB2	68:Sg:129:ILE:HA	1.52	0.92
70:SG:219:GLU:O	70:SG:223:LYS:N	2.03	0.92
1:L5:1820:C:H5'	7:LD:139:PRO:HB3	1.52	0.91
19:LQ:15:ARG:HH12	19:LQ:54:SER:HB3	1.32	0.91
51:SE:181:CYS:CB	51:SE:227:VAL:HA	2.01	0.91
58:SQ:21:ALA:HB2	58:SQ:72:VAL:HG12	1.50	0.91
1:L5:1072:C:N4	1:L5:1239:C:N3	2.18	0.91
68:Sg:127:LYS:HG2	68:Sg:150:TRP:HA	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:SY:91:LEU:HA	76:SY:96:LEU:HD23	1.50	0.91
1:L5:1077:C:H3'	1:L5:1078:A:H4'	1.52	0.91
3:L8:127:U:H2'	3:L8:128:C:H5"	1.52	0.91
52:SF:100:ILE:CD1	52:SF:174:ALA:HB1	2.01	0.91
62:SU:20:ILE:HG12	62:SU:116:ILE:HA	1.52	0.91
70:SG:213:LEU:O	70:SG:217:MET:N	2.02	0.91
5:LB:216:MET:HG2	5:LB:283:LYS:HB2	1.48	0.91
12:LI:76:MET:HE3	12:LI:151:ALA:HB2	1.51	0.91
15:LM:130:LEU:HD22	17:LO:177:LEU:HD22	1.52	0.91
23:LU:48:LYS:HD3	23:LU:51:GLY:HA2	1.52	0.91
50:SD:29:LEU:HD12	50:SD:34:TYR:HD1	1.34	0.91
74:SO:62:VAL:HG12	74:SO:64:ALA:H	1.34	0.91
1:L5:517:C:N4	1:L5:646:G:N3	2.18	0.91
2:L7:21:G:H1	2:L7:57:C:H42	1.10	0.91
5:LB:112:ASP:HA	5:LB:115:LYS:HD3	1.52	0.91
6:LC:205:ARG:HH12	6:LC:228:THR:HG21	1.33	0.91
8:LE:258:LEU:HD21	8:LE:262:LYS:HE2	1.50	0.91
47:S2:1271:C:H2'	47:S2:1272:C:H4'	1.53	0.91
1:L5:3720:G:H1	1:L5:3733:A:H61	1.17	0.91
20:LR:78:ILE:HD12	20:LR:81:ARG:HD2	1.53	0.91
47:S2:1711:U:H2'	47:S2:1712:A:H8	1.35	0.91
9:LF:144:TYR:HD2	9:LF:237:GLU:HG3	1.36	0.91
59:SR:72:LYS:HG3	59:SR:73:LEU:HD12	1.52	0.91
62:SU:26:SER:HB2	62:SU:32:LEU:HD11	1.50	0.91
65:Sa:64:LEU:HD12	65:Sa:65:PRO:HD2	1.50	0.91
17:LO:58:LEU:HD11	17:LO:74:ARG:HH21	1.32	0.91
48:SA:12:GLU:HG3	59:SR:109:LEU:HD23	1.53	0.91
57:SP:81:ARG:NH2	57:SP:84:ILE:O	2.02	0.91
70:SG:228:ILE:HA	70:SG:231:ARG:NH1	1.85	0.91
1:L5:2521:G:H2'	1:L5:2522:G:H8	1.35	0.91
1:L5:4406:U:H2'	1:L5:4407:G:H5'	1.52	0.91
10:LG:137:ARG:HG3	10:LG:146:LEU:HD11	1.51	0.91
13:LJ:53:ALA:HB3	13:LJ:66:GLU:H	1.35	0.91
48:SA:172:GLY:HA2	48:SA:175:TRP:HD1	1.34	0.91
61:ST:113:VAL:CG2	61:ST:121:ARG:HD3	2.00	0.91
68:Sg:20:GLN:HG2	68:Sg:69:VAL:H	1.34	0.91
47:S2:545:A:N1	47:S2:548:C:N4	2.18	0.91
59:SR:67:ARG:HG3	59:SR:69:ILE:HD11	1.53	0.91
65:Sa:28:ARG:NH1	65:Sa:74:CYS:SG	2.44	0.91
75:SW:37:PHE:CE1	75:SW:103:VAL:HG21	2.06	0.91
76:SY:7:ILE:HG23	76:SY:44:LEU:HD11	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:499:G:C2'	1:L5:500:G:H4'	1.98	0.90
6:LC:208:CYS:HB2	6:LC:248:ARG:NE	1.85	0.90
17:LO:49:ARG:HH12	17:LO:53:LYS:HD2	1.34	0.90
24:LV:31:ASN:HD21	24:LV:115:SER:HB2	1.35	0.90
36:Lh:3:LYS:CB	36:Lh:4:ILE:HA	1.96	0.90
66:Sc:30:VAL:HG11	66:Sc:50:VAL:HG11	1.53	0.90
70:SG:70:HIS:HA	70:SG:98:ARG:NH1	1.87	0.90
1:L5:1259:G:H2'	1:L5:1260:G:H5'	1.51	0.90
47:S2:1776:G:H2'	47:S2:1777:G:H5'	1.53	0.90
49:SB:30:TRP:HB2	74:SO:19:PRO:HB3	1.53	0.90
79:Se:24:LYS:HD2	79:Se:27:LYS:HE2	1.53	0.90
5:LB:303:ALA:HB1	5:LB:368:ILE:HG21	1.52	0.90
12:LI:85:PHE:HA	12:LI:140:THR:HG22	1.54	0.90
21:LS:147:ASP:HB3	21:LS:150:ILE:HG13	1.52	0.90
21:LS:174:THR:HG23	21:LS:175:PHE:H	1.35	0.90
45:Lr:52:GLU:HB2	45:Lr:53:PRO:HD2	1.51	0.90
50:SD:47:GLU:HG3	50:SD:85:GLU:HG3	1.53	0.90
8:LE:208:ILE:HG13	8:LE:209:PRO:HD2	1.50	0.90
47:S2:1276:A:N3	55:SK:54:SER:HB2	1.86	0.90
1:L5:227:A:N7	1:L5:241:G:N2	2.18	0.90
25:LW:80:ARG:HG2	70:SG:131:ARG:HH11	1.33	0.90
44:Lp:49:ARG:HB2	44:Lp:55:TRP:CZ3	2.07	0.90
62:SU:56:MET:HB3	62:SU:86:LYS:HB3	1.52	0.90
6:LC:26:ALA:HB2	6:LC:266:THR:HG22	1.53	0.90
50:SD:42:THR:H	50:SD:46:THR:HG22	1.36	0.90
70:SG:181:THR:HG22	70:SG:184:VAL:HG23	1.51	0.90
1:L5:970:G:H4'	1:L5:971:U:C5'	2.00	0.90
1:L5:1767:A:H2'	1:L5:1769:G:C4'	2.02	0.90
1:L5:1840:G:H2'	1:L5:1842:G:H4'	1.51	0.90
47:S2:927:C:O2'	78:Sb:51:GLN:NE2	2.05	0.90
1:L5:397:G:H2'	1:L5:398:A:H5'	1.54	0.90
6:LC:133:LEU:HD23	45:Lr:6:GLN:HE21	1.35	0.90
47:S2:1515:G:H2'	47:S2:1516:G:H5'	1.51	0.90
53:SH:83:LEU:HD21	53:SH:87:PHE:HB3	1.53	0.90
68:Sg:68:ASP:HB3	68:Sg:81:GLY:HA3	1.51	0.90
70:SG:70:HIS:HA	70:SG:98:ARG:HH12	1.36	0.90
1:L5:317:A:N6	1:L5:4361:U:O2	2.05	0.90
68:Sg:206:LEU:HD22	68:Sg:218:LEU:HB3	1.54	0.90
1:L5:83:C:O2	1:L5:101:A:N6	2.05	0.90
1:L5:2482:C:H2'	1:L5:2483:G:H4'	1.54	0.90
65:Sa:89:ARG:HA	65:Sa:92:ARG:NH1	1.87	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1169:G:N1	1:L5:1192:C:N3	2.19	0.89
1:L5:1854:G:H3'	1:L5:1855:G:H5"	1.54	0.89
49:SB:65:ARG:HG2	74:SO:50:LYS:HE3	1.53	0.89
62:SU:19:ARG:N	62:SU:117:ALA:HB2	1.86	0.89
1:L5:957:G:H1'	1:L5:958:G:OP2	1.72	0.89
1:L5:1764:G:H2'	1:L5:1765:A:H5"	1.53	0.89
1:L5:1899:G:H21	33:Le:59:GLY:HA2	1.36	0.89
1:L5:4302:U:H3'	1:L5:4303:C:H5'	1.54	0.89
13:LJ:113:ILE:CD1	60:SS:14:ARG:HD3	2.01	0.89
15:LM:41:PRO:HG3	15:LM:73:VAL:HG13	1.51	0.89
47:S2:157:U:H4'	70:SG:59:GLN:HA	1.52	0.89
1:L5:2743:A:H2'	1:L5:2744:A:C8	2.07	0.89
26:LX:106:LYS:HE3	26:LX:124:VAL:HG23	1.53	0.89
39:Lk:37:ARG:HH11	39:Lk:42:LEU:HB2	1.35	0.89
77:SZ:88:LEU:HB3	77:SZ:109:TYR:HE2	1.37	0.89
77:SZ:100:VAL:HG12	77:SZ:108:ILE:HB	1.54	0.89
11:LH:77:VAL:HA	11:LH:80:MET:HE2	1.53	0.89
28:LZ:105:ALA:HA	28:LZ:108:ARG:HH21	1.35	0.89
47:S2:343:A:H2'	47:S2:344:U:H6	1.36	0.89
48:SA:38:ILE:HD11	48:SA:47:TYR:HB3	1.54	0.89
56:SL:4:ILE:HG23	56:SL:5:GLN:HG2	1.55	0.89
76:SY:87:PRO:HG2	76:SY:90:ARG:HG2	1.50	0.89
4:LA:205:ASN:HB2	4:LA:206:PRO:HD2	1.55	0.89
10:LG:30:PRO:HB2	28:LZ:124:THR:HA	1.53	0.89
10:LG:30:PRO:HG3	28:LZ:124:THR:HG22	1.55	0.89
47:S2:538:U:H3'	47:S2:539:C:C5'	2.02	0.89
47:S2:748:C:H4'	47:S2:796:G:N1	1.86	0.89
47:S2:1497:G:H21	55:SK:63:ALA:H	1.20	0.89
68:Sg:78:ALA:HB2	68:Sg:92:LEU:HD12	1.52	0.89
72:SM:60:MET:HB3	72:SM:64:LEU:HD13	1.55	0.89
6:LC:209:ILE:HG12	6:LC:227:ILE:HD11	1.54	0.89
27:LY:43:ASN:HB3	27:LY:126:ARG:HD3	1.52	0.89
47:S2:1679:A:N6	52:SF:58:ALA:O	2.05	0.89
61:ST:9:VAL:HG21	61:ST:138:VAL:HG23	1.53	0.89
68:Sg:22:ALA:HB3	68:Sg:70:VAL:HA	1.54	0.89
1:L5:912:G:H2'	1:L5:913:U:H5'	1.53	0.89
1:L5:4937:C:H5"	8:LE:183:ARG:HD2	1.52	0.89
47:S2:1133:A:H4'	65:Sa:13:LYS:HG2	1.53	0.89
53:SH:24:SER:HA	53:SH:27:LEU:HD13	1.55	0.89
77:SZ:63:PRO:HB2	77:SZ:112:ASN:HD21	1.37	0.89
47:S2:191:A:H5"	54:SI:140:LYS:HG2	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:565:G:H3'	47:S2:566:U:H5"	1.53	0.89
61:ST:101:ARG:HA	61:ST:104:LEU:HD12	1.54	0.89
1:L5:1661:C:OP1	33:Le:36:ARG:NH2	2.06	0.89
1:L5:1691:G:H5"	19:LQ:13:VAL:HG12	1.54	0.89
1:L5:4758:U:H2'	1:L5:4759:C:H5'	1.53	0.89
13:LJ:65:ASN:HB3	43:Lo:103:VAL:HG21	1.54	0.89
47:S2:884:C:N3	47:S2:902:G:N1	2.21	0.89
52:SF:194:ASP:HA	52:SF:197:GLU:HG2	1.54	0.89
1:L5:2373:C:H4'	32:Ld:64:ILE:HD11	1.52	0.89
1:L5:5023:C:H2'	1:L5:5024:C:H5'	1.52	0.89
6:LC:135:ALA:HA	45:Lr:43:LEU:HD11	1.53	0.89
12:LI:138:ILE:HD12	12:LI:152:LEU:HD11	1.55	0.89
47:S2:1283:C:H6	72:SM:102:LYS:HD3	1.35	0.89
49:SB:119:THR:HG22	49:SB:120:MET:H	1.37	0.89
1:L5:747:A:N3	1:L5:748:G:H5"	1.88	0.88
1:L5:4873:G:OP2	15:LM:94:LYS:NZ	2.04	0.88
30:Lb:75:LEU:HD23	30:Lb:76:VAL:HG23	1.55	0.88
47:S2:339:A:H4'	47:S2:340:C:C5'	2.03	0.88
48:SA:118:GLU:HB2	69:SC:65:LYS:NZ	1.88	0.88
73:SN:34:LYS:CG	73:SN:74:ILE:HD11	2.01	0.88
5:LB:56:ILE:HD13	5:LB:365:LEU:HD22	1.55	0.88
13:LJ:22:LEU:HD11	13:LJ:44:THR:HG21	1.55	0.88
26:LX:122:ALA:HB3	26:LX:139:ARG:HB3	1.55	0.88
6:LC:135:ALA:HA	45:Lr:43:LEU:CD1	2.04	0.88
6:LC:340:ILE:HD13	8:LE:51:VAL:HG21	1.55	0.88
9:LF:105:VAL:HG13	9:LF:136:VAL:HG12	1.53	0.88
56:SL:5:GLN:HE22	56:SL:11:GLN:HB2	1.36	0.88
57:SP:22:LEU:HA	57:SP:25:LEU:HD13	1.52	0.88
57:SP:36:LEU:HG	57:SP:37:TYR:H	1.35	0.88
70:SG:220:ALA:O	70:SG:224:ARG:N	2.06	0.88
23:LU:101:ARG:HD2	23:LU:115:PHE:CE1	2.08	0.88
70:SG:5:ILE:HG12	70:SG:111:LEU:HD22	1.55	0.88
21:LS:15:ARG:HD3	21:LS:27:LEU:HD21	1.52	0.88
21:LS:110:TYR:CE1	21:LS:124:ILE:HD11	2.07	0.88
45:Lr:82:ILE:HD11	45:Lr:96:MET:HE1	1.53	0.88
53:SH:98:ARG:HG3	53:SH:125:VAL:CG1	2.04	0.88
1:L5:1755:C:OP2	7:LD:2:GLY:N	2.05	0.88
1:L5:2479:G:N1	1:L5:2499:C:N3	2.21	0.88
47:S2:894:G:H2'	47:S2:895:G:H5"	1.56	0.88
60:SS:102:GLY:HA2	60:SS:105:ASN:HD22	1.37	0.88
66:Sc:29:GLN:HG2	66:Sc:43:ILE:HD11	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2904:U:H3	1:L5:3592:G:H4'	1.38	0.88
1:L5:4749:C:H2'	1:L5:4750:G:H5"	1.55	0.88
11:LH:28:LYS:HG2	11:LH:33:THR:HB	1.55	0.88
1:L5:259:C:H2'	1:L5:260:C:H5'	1.54	0.88
1:L5:1495:G:H2'	1:L5:1496:G:H5'	1.55	0.88
1:L5:1633:G:N1	4:LA:207:VAL:HG21	1.89	0.88
1:L5:1696:C:H1'	1:L5:1697:G:H2'	1.55	0.88
1:L5:2099:G:H3'	1:L5:2100:A:H5"	1.55	0.88
1:L5:2117:G:H3'	1:L5:2117:G:N3	1.88	0.88
1:L5:3966:A:H2'	1:L5:3967:G:H5'	1.55	0.88
6:LC:284:MET:HE1	19:LQ:124:ASP:HB3	1.56	0.88
13:LJ:65:ASN:HB3	43:Lo:103:VAL:CG2	2.04	0.88
51:SE:259:LYS:HA	51:SE:262:SER:CB	2.03	0.88
56:SL:128:VAL:CG1	56:SL:140:PHE:HB3	2.04	0.88
77:SZ:70:PRO:CG	77:SZ:107:VAL:HB	2.04	0.88
1:L5:977:C:H5'	8:LE:62:MET:CE	2.04	0.88
1:L5:1961:G:C6	1:L5:2024:G:H2'	2.08	0.88
6:LC:76:ILE:CD1	6:LC:77:PRO:HD2	2.03	0.88
47:S2:547:G:H2'	47:S2:548:C:H5"	1.55	0.88
47:S2:911:C:H2'	47:S2:912:C:H5	1.36	0.88
47:S2:1513:C:H5'	67:Sd:10:HIS:HD2	1.39	0.88
58:SQ:12:VAL:HG21	58:SQ:91:ALA:HA	1.55	0.88
58:SQ:31:LEU:HD21	58:SQ:33:LYS:HE3	1.56	0.88
68:Sg:87:LEU:HB3	68:Sg:101:PHE:HB2	1.56	0.88
72:SM:94:ILE:HG12	72:SM:95:ASP:H	1.39	0.88
77:SZ:97:ILE:HD11	77:SZ:110:THR:H	1.37	0.88
1:L5:755:C:H2'	1:L5:756:G:H8	1.37	0.88
47:S2:1416:C:H5'	47:S2:1417:C:H5"	1.55	0.88
54:SI:119:LEU:HD11	54:SI:153:LYS:HG2	1.56	0.88
68:Sg:29:ASP:HA	68:Sg:45:LEU:HD23	1.54	0.88
7:LD:49:TYR:HD1	7:LD:66:TYR:HB3	1.35	0.87
12:LI:93:PRO:HA	12:LI:127:ALA:HB2	1.56	0.87
53:SH:31:GLU:HB3	53:SH:40:LEU:HD22	1.54	0.87
60:SS:74:PRO:HG3	60:SS:97:GLN:HB3	1.53	0.87
68:Sg:198:VAL:HA	68:Sg:209:SER:HB3	1.54	0.87
31:Lc:51:ASN:ND2	44:Lp:40:SER:O	2.05	0.87
47:S2:753:C:H41	47:S2:790:C:H3'	1.38	0.87
47:S2:1314:U:OP2	55:SK:8:ARG:NH1	2.08	0.87
50:SD:79:PHE:HB3	50:SD:83:SER:HB3	1.54	0.87
57:SP:18:ARG:HG3	57:SP:20:VAL:HG23	1.55	0.87
58:SQ:32:ILE:HG23	58:SQ:60:LYS:HE3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:SJ:162:ARG:NH1	76:SY:30:PRO:O	2.06	0.87
1:L5:404:U:H2'	1:L5:405:U:H5'	1.54	0.87
17:LO:19:LEU:HA	17:LO:22:ILE:HG22	1.56	0.87
27:LY:4:ASN:HD22	27:LY:7:VAL:HG13	1.37	0.87
48:SA:207:PRO:HA	48:SA:210:ILE:HG12	1.55	0.87
60:SS:87:GLN:HB2	60:SS:95:TYR:CD2	2.10	0.87
1:L5:2807:A:N6	1:L5:2819:U:O4	2.07	0.87
47:S2:368:U:H3'	47:S2:369:C:C3'	2.03	0.87
47:S2:1291:A:H3'	47:S2:1292:C:H5'	1.54	0.87
47:S2:1421:A:H61	47:S2:1427:C:H1'	1.37	0.87
47:S2:1491:G:H1'	62:SU:72:GLU:H	1.36	0.87
74:SO:15:ILE:HG23	74:SO:16:SER:H	1.38	0.87
1:L5:3717:A:OP2	1:L5:3735:G:N2	2.07	0.87
9:LF:179:LEU:HD23	9:LF:184:ILE:HG21	1.56	0.87
16:LN:15:GLN:HG3	37:Li:52:PRO:HD2	1.55	0.87
52:SF:193:LYS:NZ	52:SF:197:GLU:OE2	2.05	0.87
53:SH:145:ARG:NH2	75:SW:49:GLU:OE1	2.06	0.87
1:L5:202:C:H2'	1:L5:203:U:H6	1.39	0.87
1:L5:295:A:N6	1:L5:4362:A:O4'	2.07	0.87
2:L7:30:C:H3'	2:L7:31:G:H5"	1.55	0.87
47:S2:178:C:H3'	47:S2:313:A:N6	1.90	0.87
47:S2:1429:G:OP1	58:SQ:33:LYS:NZ	2.07	0.87
48:SA:10:MET:HE2	48:SA:15:VAL:HG12	1.56	0.87
50:SD:108:LYS:HE2	50:SD:118:ALA:HA	1.55	0.87
51:SE:170:THR:HG22	51:SE:171:ASP:H	1.37	0.87
18:LP:114:ILE:HA	18:LP:150:LEU:HD23	1.56	0.87
53:SH:145:ARG:HB2	75:SW:51:GLU:HG2	1.55	0.87
62:SU:56:MET:HG3	62:SU:57:PRO:HD2	1.57	0.87
68:Sg:165:ILE:HD11	68:Sg:177:TRP:HB2	1.56	0.87
1:L5:423:G:H21	18:LP:118:GLN:HE22	1.20	0.87
1:L5:1077:C:C3'	1:L5:1078:A:H4'	2.05	0.87
1:L5:1273:G:N2	1:L5:2123:C:O4'	2.08	0.87
4:LA:77:ILE:CD1	4:LA:128:ARG:HD2	2.03	0.87
11:LH:31:ARG:HG2	11:LH:32:GLY:H	1.39	0.87
16:LN:183:THR:HG22	16:LN:188:ARG:CA	2.04	0.87
55:SK:6:LYS:HA	55:SK:9:ILE:HG22	1.57	0.87
60:SS:6:PRO:HB2	60:SS:58:GLU:HG2	1.56	0.87
61:ST:108:GLU:HB2	61:ST:113:VAL:CG1	2.05	0.87
66:Sc:18:LEU:HD22	66:Sc:66:ARG:HH12	1.40	0.87
72:SM:123:VAL:HG23	72:SM:124:ILE:H	1.40	0.87
1:L5:4097:G:H5"	35:Lg:115:LYS:HE2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4612:C:C2	11:LH:120:GLU:HG3	2.08	0.87
1:L5:4620:U:OP2	1:L5:4670:C:N4	2.07	0.87
21:LS:159:LEU:O	21:LS:162:GLN:NE2	2.08	0.87
39:Lk:28:ASN:ND2	39:Lk:31:ASN:O	2.08	0.87
60:SS:10:GLN:HB2	60:SS:23:ARG:HH22	1.38	0.87
62:SU:20:ILE:HG21	62:SU:114:VAL:HG13	1.56	0.87
71:SJ:84:ILE:HB	71:SJ:86:VAL:HG22	1.57	0.87
1:L5:1447:C:C2'	1:L5:1448:G:H5'	2.04	0.86
1:L5:4117:U:O4'	10:LG:43:GLN:NE2	2.08	0.86
20:LR:15:LEU:HD23	20:LR:52:ARG:HB2	1.54	0.86
43:Lo:105:GLN:HG3	43:Lo:106:PHE:H	1.38	0.86
47:S2:392:A:C2'	47:S2:393:U:H5'	2.04	0.86
47:S2:1562:C:H4'	61:ST:119:GLY:CA	2.04	0.86
58:SQ:31:LEU:HD21	58:SQ:33:LYS:HG2	1.57	0.86
62:SU:66:ARG:HH22	62:SU:75:LYS:HG2	1.38	0.86
68:Sg:106:LYS:HD2	68:Sg:126:ASP:CA	2.05	0.86
68:Sg:114:SER:HA	68:Sg:156:PHE:HE2	1.40	0.86
1:L5:3722:G:H2'	1:L5:3723:A:C8	2.10	0.86
17:LO:186:GLU:HA	17:LO:189:ILE:HG22	1.54	0.86
28:LZ:54:THR:HG22	28:LZ:57:MET:HG3	1.57	0.86
45:Lr:90:LEU:HD11	45:Lr:111:ILE:HG23	1.53	0.86
52:SF:34:SER:HA	66:Sc:55:VAL:HG21	1.57	0.86
53:SH:158:LEU:HB2	53:SH:189:PHE:HE1	1.40	0.86
68:Sg:72:SER:CB	68:Sg:77:PHE:HB2	2.04	0.86
5:LB:168:MET:HG3	5:LB:178:ALA:HA	1.56	0.86
9:LF:182:TYR:CE2	9:LF:203:GLU:HG2	2.09	0.86
10:LG:165:GLU:HA	10:LG:168:VAL:HG22	1.57	0.86
13:LJ:17:ILE:HD12	13:LJ:80:GLU:HG2	1.54	0.86
14:LL:54:PRO:HB2	14:LL:97:SER:HB2	1.55	0.86
20:LR:115:ILE:HG22	20:LR:119:MET:HE3	1.58	0.86
33:Le:38:PRO:HG2	33:Le:45:VAL:HG11	1.57	0.86
42:Ln:11:ARG:HH11	42:Ln:11:ARG:HG2	1.39	0.86
47:S2:1272:C:N4	47:S2:1506:A:N1	2.24	0.86
57:SP:38:SER:HB2	57:SP:41:GLN:HB3	1.57	0.86
1:L5:1280:C:H3'	1:L5:1281:G:H5"	1.56	0.86
1:L5:4937:C:O4'	8:LE:185:PRO:HG2	1.75	0.86
8:LE:209:PRO:HG2	8:LE:212:LEU:HD13	1.55	0.86
17:LO:125:LYS:HG3	17:LO:129:LEU:HD12	1.58	0.86
27:LY:49:ILE:HD13	27:LY:80:ILE:HD11	1.58	0.86
47:S2:1408:U:H4'	58:SQ:71:ARG:HH22	1.39	0.86
47:S2:1598:G:H5"	77:SZ:82:SER:HB3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1608:U:C2'	47:S2:1609:C:H5'	2.06	0.86
53:SH:39:GLN:HB2	53:SH:75:ILE:HD11	1.57	0.86
70:SG:19:ASP:HB3	70:SG:22:ARG:HH12	1.39	0.86
72:SM:120:ALA:HA	72:SM:123:VAL:HG22	1.57	0.86
1:L5:151:G:N7	10:LG:141:ASN:ND2	2.23	0.86
1:L5:458:C:H2'	1:L5:459:C:H6	1.40	0.86
1:L5:1990:A:H2'	1:L5:1991:A:H5'	1.58	0.86
2:L7:114:U:H4'	7:LD:73:MET:SD	2.15	0.86
47:S2:536:A:H3'	47:S2:537:C:H4'	1.57	0.86
10:LG:29:ASN:HB3	10:LG:32:PHE:CD2	2.10	0.86
11:LH:111:LEU:HD12	11:LH:127:ARG:HB2	1.57	0.86
58:SQ:35:ASN:HB3	58:SQ:37:ARG:HH11	1.40	0.86
74:SO:44:VAL:HG21	74:SO:81:VAL:HG11	1.57	0.86
8:LE:254:ASP:HA	8:LE:257:ILE:HG22	1.55	0.86
25:LW:96:GLN:CG	25:LW:101:ARG:HD2	2.04	0.86
34:Lf:11:PHE:HD2	34:Lf:97:ILE:HA	1.41	0.86
47:S2:899:U:H2'	47:S2:900:C:H4'	1.58	0.86
47:S2:1592:C:H5'	52:SF:87:LEU:CD2	2.05	0.86
48:SA:69:GLU:HG3	69:SC:268:GLU:HG3	1.58	0.86
52:SF:30:ILE:HD11	52:SF:113:VAL:HG11	1.58	0.86
57:SP:83:MET:HE1	57:SP:86:LEU:HB2	1.58	0.86
61:ST:38:LYS:HZ2	61:ST:46:ALA:H	1.19	0.86
68:Sg:120:ILE:N	68:Sg:132:TRP:O	2.09	0.86
69:SC:196:ILE:CG2	69:SC:223:TYR:HB2	2.05	0.86
76:SY:100:LYS:HG3	76:SY:101:LYS:HG2	1.57	0.86
1:L5:3:C:H42	3:L8:154:G:H1	1.21	0.86
1:L5:1366:G:H1	6:LC:218:ILE:HG12	1.40	0.86
1:L5:1696:C:N4	1:L5:2084:C:N3	2.22	0.86
1:L5:2631:U:H1'	23:LU:82:TYR:HD1	1.41	0.86
1:L5:3897:G:H4'	5:LB:254:ILE:HD12	1.56	0.86
6:LC:219:LYS:HA	6:LC:222:ARG:HD3	1.57	0.86
8:LE:176:THR:OG1	8:LE:186:LEU:HA	1.76	0.86
68:Sg:133:ASN:ND2	68:Sg:137:VAL:O	2.09	0.86
69:SC:265:PRO:CA	69:SC:268:GLU:HB2	2.04	0.86
1:L5:468:U:H3	1:L5:687:U:H3	1.19	0.86
1:L5:4937:C:O2	8:LE:183:ARG:NH1	2.08	0.86
47:S2:884:C:O2	47:S2:902:G:N2	2.09	0.86
51:SE:139:LEU:HD11	51:SE:147:ILE:HD13	1.56	0.86
54:SI:43:ILE:HG12	54:SI:57:ALA:CB	2.06	0.86
47:S2:1279:C:H42	47:S2:1318:G:H22	1.24	0.86
54:SI:56:ARG:HG3	54:SI:180:GLY:HA2	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4863:G:H3'	1:L5:4864:U:C6	2.10	0.85
47:S2:1453:C:H2'	47:S2:1454:A:H4'	1.56	0.85
47:S2:1598:G:H5'	77:SZ:80:ARG:HH21	1.41	0.85
60:SS:84:LEU:HG	60:SS:97:GLN:HB2	1.56	0.85
70:SG:141:ILE:HD13	70:SG:153:VAL:HG13	1.56	0.85
1:L5:2007:G:H1'	1:L5:2008:U:H5	1.40	0.85
1:L5:3937:C:H2'	1:L5:3938:G:H21	1.40	0.85
25:LW:82:ILE:HG23	25:LW:87:LEU:HD11	1.57	0.85
48:SA:90:PHE:CE1	48:SA:94:THR:HG21	2.11	0.85
58:SQ:10:VAL:H	58:SQ:25:CYS:HB2	1.40	0.85
1:L5:423:G:OP1	18:LP:62:ARG:NH2	2.10	0.85
1:L5:1628:C:OP2	4:LA:9:ARG:NH1	2.08	0.85
1:L5:1817:U:H2'	1:L5:1818:G:H5'	1.57	0.85
2:L7:48:G:H2'	2:L7:49:A:H5'	1.59	0.85
35:Lg:5:LEU:HD21	35:Lg:30:ILE:HG22	1.58	0.85
39:Lk:49:ASP:HB3	39:Lk:52:LYS:HG2	1.56	0.85
75:SW:94:LEU:HD21	75:SW:102:ILE:HG13	1.57	0.85
1:L5:1278:C:H3'	1:L5:1279:A:C4'	2.06	0.85
1:L5:1977:C:O2'	1:L5:1990:A:N6	2.09	0.85
1:L5:2906:G:H1	1:L5:3584:C:H41	1.24	0.85
16:LN:44:ARG:CD	16:LN:121:VAL:HG12	2.06	0.85
47:S2:151:C:N4	47:S2:167:G:O6	2.10	0.85
47:S2:212:C:H2'	47:S2:213:G:H8	1.41	0.85
47:S2:465:A:H5'	47:S2:466:G:C5	2.11	0.85
49:SB:224:GLU:HB3	49:SB:227:LYS:HE3	1.56	0.85
58:SQ:41:MET:SD	61:ST:10:ASN:ND2	2.49	0.85
1:L5:3919:C:H5"	4:LA:207:VAL:HG22	1.58	0.85
47:S2:655:A:C4'	47:S2:656:G:H5'	2.07	0.85
47:S2:1623:A:H2'	47:S2:1624:U:H4'	1.59	0.85
50:SD:212:GLU:HB3	50:SD:213:PRO:HD2	1.55	0.85
55:SK:43:LEU:HA	55:SK:46:MET:SD	2.17	0.85
69:SC:140:GLY:HA3	69:SC:158:ALA:HB2	1.59	0.85
1:L5:2399:G:N3	35:Lg:4:ARG:NH2	2.23	0.85
5:LB:26:ARG:NH1	5:LB:181:MET:SD	2.50	0.85
8:LE:107:VAL:CG1	8:LE:108:LYS:HB3	2.06	0.85
8:LE:188:ARG:HH12	8:LE:218:LYS:HD2	1.39	0.85
13:LJ:51:SER:HB2	13:LJ:69:ALA:CB	2.07	0.85
24:LV:29:ALA:HB3	24:LV:104:VAL:CG1	2.06	0.85
47:S2:1349:G:H2'	47:S2:1350:U:C6	2.11	0.85
68:Sg:108:VAL:HG23	68:Sg:124:SER:CA	2.06	0.85
1:L5:133:C:N4	36:Lh:74:LYS:HA	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:963:G:N2	1:L5:2254:G:OP2	2.09	0.85
25:LW:80:ARG:NH2	70:SG:131:ARG:HD2	1.92	0.85
70:SG:21:GLU:HA	70:SG:24:LEU:HB2	1.57	0.85
77:SZ:58:LEU:HB2	77:SZ:62:VAL:HG21	1.57	0.85
1:L5:280:G:OP1	16:LN:44:ARG:NH2	2.10	0.85
1:L5:1168:G:N1	1:L5:1193:C:N3	2.25	0.85
1:L5:1459:A:OP1	19:LQ:65:ARG:NH2	2.10	0.85
1:L5:4478:G:O3'	11:LH:170:LYS:NZ	2.10	0.85
1:L5:5057:C:H4'	32:Ld:121:ASN:HD21	1.42	0.85
3:L8:106:G:O6	3:L8:113:C:N4	2.09	0.85
3:L8:150:C:H3'	10:LG:65:ARG:HH21	1.42	0.85
7:LD:184:ASP:OD2	7:LD:187:SER:N	2.10	0.85
8:LE:140:LEU:HA	8:LE:191:GLN:HE22	1.41	0.85
13:LJ:99:PHE:CD1	13:LJ:105:PHE:HB3	2.11	0.85
32:Ld:111:VAL:HG12	32:Ld:113:THR:H	1.40	0.85
33:Le:90:MET:HG2	45:Lr:33:LYS:HG2	1.59	0.85
38:Lj:17:THR:O	38:Lj:27:TYR:HB3	1.75	0.85
41:Lm:87:GLN:HB3	41:Lm:91:CYS:HB3	1.58	0.85
49:SB:171:ILE:HD13	49:SB:197:ILE:HG22	1.59	0.85
53:SH:108:SER:HB3	53:SH:113:LYS:HD3	1.58	0.85
69:SC:187:ARG:HD2	69:SC:192:LEU:HD12	1.57	0.85
1:L5:1315:C:O2	1:L5:1329:G:N2	2.10	0.85
1:L5:2102:G:H2'	1:L5:2103:G:C8	2.12	0.85
1:L5:2347:A:N3	33:Le:30:LYS:HE3	1.91	0.85
1:L5:2540:C:H2'	1:L5:2541:G:H8	1.40	0.85
3:L8:30:U:OP1	14:LL:34:ARG:NH2	2.10	0.85
14:LL:128:PRO:HB3	14:LL:134:PRO:CD	2.06	0.85
47:S2:289:G:H1	47:S2:295:C:H42	1.23	0.85
47:S2:952:G:H21	74:SO:52:THR:HG21	1.41	0.85
47:S2:1192:U:OP2	64:SX:119:ARG:NH2	2.09	0.85
47:S2:1428:G:H2'	47:S2:1429:G:C8	2.12	0.85
47:S2:1566:G:N7	61:ST:101:ARG:NH2	2.25	0.85
47:S2:1566:G:C2'	47:S2:1567:G:H5"	2.07	0.85
52:SF:22:LYS:CG	52:SF:23:TRP:HA	2.06	0.85
61:ST:71:GLY:HA2	61:ST:120:GLY:HA2	1.57	0.85
1:L5:3965:A:N6	1:L5:4040:C:OP1	2.08	0.85
49:SB:27:LYS:HG2	49:SB:51:ARG:HH12	1.42	0.85
68:Sg:77:PHE:HA	68:Sg:89:LEU:HD11	1.59	0.85
1:L5:119:G:H1	10:LG:132:ARG:HB2	1.42	0.84
1:L5:300:A:H2'	1:L5:301:G:H8	1.42	0.84
1:L5:1088:C:H2'	1:L5:1089:G:C8	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3898:G:N2	5:LB:260:ALA:O	2.09	0.84
47:S2:146:G:H1	47:S2:173:A:H61	1.23	0.84
58:SQ:43:GLU:OE1	58:SQ:45:ARG:NE	2.10	0.84
60:SS:107:LEU:HD12	60:SS:108:ARG:HG3	1.59	0.84
70:SG:76:LEU:HD21	70:SG:92:ARG:HD2	1.57	0.84
1:L5:982:U:H3	1:L5:1071:C:H42	1.25	0.84
9:LF:112:LEU:HG	9:LF:114:LEU:HD13	1.58	0.84
35:Lg:20:THR:HG22	35:Lg:34:TYR:HD1	1.42	0.84
50:SD:198:ILE:HG13	50:SD:200:PRO:HD2	1.58	0.84
1:L5:2484:A:H3'	1:L5:2485:U:C5'	2.07	0.84
1:L5:4626:A:OP2	5:LB:224:LYS:NZ	2.10	0.84
2:L7:42:A:N3	13:LJ:75:ARG:NH2	2.25	0.84
6:LC:331:TYR:HA	9:LF:51:TYR:CE1	2.12	0.84
46:Lz:120:ILE:HD13	46:Lz:134:PHE:HE1	1.41	0.84
47:S2:907:G:H2'	47:S2:908:A:N7	1.92	0.84
47:S2:1672:U:H5"	58:SQ:17:LYS:HE2	1.60	0.84
51:SE:18:TRP:HE1	51:SE:43:PRO:HD2	1.42	0.84
51:SE:140:VAL:HG22	51:SE:146:THR:HG22	1.59	0.84
56:SL:28:THR:HB	56:SL:29:GLY:HA2	1.59	0.84
57:SP:98:ASN:HB3	60:SS:152:LYS:HG2	1.60	0.84
61:ST:115:LYS:HA	61:ST:121:ARG:HB3	1.58	0.84
1:L5:65:A:H1'	16:LN:176:LYS:HE2	1.58	0.84
1:L5:1264:C:H2'	1:L5:1265:G:C8	2.12	0.84
1:L5:3590:G:H3'	1:L5:3591:C:H5"	1.59	0.84
68:Sg:47:ARG:HH12	68:Sg:309:VAL:HG11	1.43	0.84
76:SY:87:PRO:HG2	76:SY:90:ARG:CG	2.06	0.84
1:L5:686:A:C5	8:LE:95:PRO:HG3	2.11	0.84
1:L5:1244:G:N2	1:L5:1245:C:O2'	2.09	0.84
1:L5:2077:C:H2'	1:L5:2078:C:H6	1.41	0.84
2:L7:120:U:H1'	7:LD:258:LYS:HE3	1.59	0.84
7:LD:79:TYR:HB2	7:LD:81:HIS:HD2	1.39	0.84
28:LZ:89:ILE:HD13	28:LZ:121:ARG:HD3	1.59	0.84
47:S2:1512:C:O2'	47:S2:1513:C:H5"	1.77	0.84
59:SR:78:ARG:HA	59:SR:81:ARG:HG2	1.57	0.84
69:SC:138:GLY:HA2	69:SC:241:PHE:HE1	1.39	0.84
1:L5:2903:G:H4'	1:L5:3591:C:H42	1.40	0.84
6:LC:218:ILE:HD12	6:LC:229:LEU:HD12	1.57	0.84
25:LW:97:LYS:H	25:LW:98:PRO:HA	1.43	0.84
27:LY:54:GLU:HA	27:LY:69:LYS:HA	1.59	0.84
49:SB:72:ALA:HB2	49:SB:80:ALA:HA	1.58	0.84
61:ST:6:VAL:HG13	61:ST:7:LYS:HG3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:ST:104:LEU:HD22	61:ST:121:ARG:HH21	1.42	0.84
62:SU:61:LEU:HB2	62:SU:82:MET:CB	2.06	0.84
1:L5:1240:G:H2'	1:L5:1241:C:O4'	1.77	0.84
1:L5:1599:A:OP1	1:L5:2795:A:N6	2.10	0.84
1:L5:2480:G:C2	1:L5:2481:G:H1'	2.12	0.84
1:L5:3722:G:H2'	1:L5:3723:A:H8	1.41	0.84
1:L5:4091:G:N2	1:L5:4159:C:N3	2.26	0.84
47:S2:192:C:H5	54:SI:141:ARG:HH22	1.26	0.84
59:SR:17:ILE:HG23	59:SR:21:TYR:HB2	1.58	0.84
77:SZ:70:PRO:HG3	77:SZ:107:VAL:HB	1.59	0.84
1:L5:455:C:C2'	1:L5:456:C:H5'	2.07	0.84
1:L5:475:G:H2'	1:L5:476:G:H8	1.40	0.84
1:L5:1964:A:H2'	1:L5:1965:G:H5'	1.60	0.84
9:LF:116:GLN:HG2	9:LF:119:ASN:ND2	1.92	0.84
47:S2:192:C:H42	47:S2:207:G:H1	1.26	0.84
47:S2:744:G:C2'	47:S2:745:C:H5'	2.07	0.84
49:SB:31:TYR:HD1	49:SB:94:LYS:HA	1.40	0.84
59:SR:107:LYS:HA	59:SR:110:ASP:HB3	1.58	0.84
65:Sa:49:ALA:HB2	74:SO:117:ARG:HH21	1.39	0.84
68:Sg:120:ILE:HB	68:Sg:132:TRP:HB2	1.58	0.84
68:Sg:127:LYS:CG	68:Sg:150:TRP:HA	2.07	0.84
1:L5:43:U:H5"	16:LN:85:VAL:CG2	2.08	0.84
1:L5:472:C:N4	1:L5:681:G:O6	2.10	0.84
1:L5:1199:G:H2'	1:L5:1200:G:C8	2.13	0.84
10:LG:57:TRP:HB3	10:LG:61:ILE:CD1	2.05	0.84
19:LQ:50:ARG:HG2	19:LQ:83:VAL:HG21	1.57	0.84
22:LT:135:PRO:O	22:LT:136:ARG:HG2	1.78	0.84
29:La:148:ALA:HB3	37:Li:6:PRO:HB2	1.60	0.84
47:S2:1759:G:H2'	47:S2:1760:G:H8	1.42	0.84
68:Sg:40:ILE:HB	68:Sg:59:LEU:HB2	1.58	0.84
1:L5:1983:A:H3'	1:L5:1984:A:H4'	1.57	0.84
8:LE:205:ASN:HD21	8:LE:260:LYS:HE3	1.41	0.84
12:LI:85:PHE:CE2	12:LI:87:MET:HE2	2.13	0.84
47:S2:1395:C:H1'	47:S2:1474:A:C4	2.13	0.84
72:SM:49:LEU:HB3	72:SM:77:ILE:HD11	1.57	0.84
78:Sb:62:VAL:HG13	78:Sb:74:THR:HG21	1.58	0.84
1:L5:1778:C:H2'	1:L5:1779:U:H5'	1.59	0.83
1:L5:3951:G:N3	1:L5:4062:A:N6	2.24	0.83
47:S2:1629:C:OP1	60:SS:39:ARG:HD3	1.78	0.83
77:SZ:62:VAL:HA	77:SZ:65:TYR:HE2	1.41	0.83
1:L5:443:G:H5"	34:Lf:54:LYS:HE3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1444:G:H8	1:L5:1445:U:H5"	1.40	0.83
1:L5:2481:G:H2'	1:L5:2482:C:C5	2.12	0.83
1:L5:3961:G:H1'	1:L5:4048:A:N6	1.93	0.83
8:LE:223:ARG:HB3	8:LE:224:LYS:CG	2.07	0.83
29:La:75:LEU:HB2	29:La:113:GLY:HA2	1.60	0.83
47:S2:579:C:H2'	47:S2:580:U:C5'	2.08	0.83
47:S2:1299:A:O2'	57:SP:52:LYS:NZ	2.11	0.83
61:ST:18:LEU:HD11	61:ST:131:LEU:HD11	1.58	0.83
1:L5:938:C:H2'	1:L5:939:G:C8	2.14	0.83
1:L5:1414:C:H3'	1:L5:1415:G:H5"	1.60	0.83
1:L5:4936:G:C2	8:LE:239:LYS:HE3	2.13	0.83
47:S2:1493:C:H4'	47:S2:1494:U:H5"	1.59	0.83
47:S2:1550:G:H3'	47:S2:1579:A:H61	1.44	0.83
50:SD:48:ILE:CG1	50:SD:86:LEU:HB3	2.07	0.83
1:L5:119:G:N7	10:LG:113:ARG:NH2	2.26	0.83
1:L5:3733:A:H2'	1:L5:3734:U:H5'	1.60	0.83
10:LG:57:TRP:CB	10:LG:61:ILE:HD11	2.08	0.83
14:LL:81:LEU:HG	14:LL:86:ILE:HD11	1.60	0.83
53:SH:23:ILE:HG22	53:SH:27:LEU:CD1	2.08	0.83
53:SH:142:LYS:O	53:SH:143:ARG:NH2	2.10	0.83
68:Sg:248:LEU:HB3	68:Sg:259:TRP:N	1.93	0.83
1:L5:753:C:H2'	1:L5:754:U:H5	1.42	0.83
1:L5:4425:G:OP1	41:Lm:100:TYR:OH	1.96	0.83
7:LD:280:VAL:HB	7:LD:284:LYS:HE3	1.61	0.83
11:LH:37:ASP:OD1	11:LH:39:ASN:ND2	2.11	0.83
27:LY:50:ARG:HB2	27:LY:115:ARG:NH2	1.93	0.83
49:SB:40:ASN:CB	49:SB:75:GLN:HG2	2.09	0.83
50:SD:48:ILE:HG13	50:SD:86:LEU:CB	2.07	0.83
52:SF:167:LYS:HG2	77:SZ:72:VAL:CG2	2.08	0.83
70:SG:216:ARG:O	70:SG:220:ALA:N	2.12	0.83
74:SO:35:ALA:CB	74:SO:112:ALA:HB2	2.08	0.83
76:SY:76:TYR:CD2	76:SY:82:ALA:HA	2.13	0.83
1:L5:259:C:C2'	1:L5:260:C:H5'	2.09	0.83
1:L5:701:G:H5"	8:LE:121:VAL:HG21	1.59	0.83
1:L5:1180:C:H3'	1:L5:1181:C:H5"	1.58	0.83
1:L5:3901:A:H5'	1:L5:3902:A:H5'	1.59	0.83
1:L5:4939:C:H42	8:LE:220:LYS:HG2	1.41	0.83
18:LP:94:MET:HG2	18:LP:148:MET:HE3	1.57	0.83
29:La:71:PRO:HG2	29:La:109:TYR:H	1.41	0.83
63:SV:12:TYR:HE1	63:SV:14:PRO:HB3	1.42	0.83
68:Sg:11:LEU:HD11	68:Sg:307:VAL:HG11	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:SN:54:LEU:HB3	73:SN:60:VAL:CG1	2.08	0.83
1:L5:1183:C:H4'	1:L5:1184:A:N7	1.93	0.83
1:L5:1280:C:C3'	1:L5:1281:G:H5"	2.09	0.83
1:L5:3970:G:H4'	1:L5:4052:C:H41	1.43	0.83
7:LD:190:PHE:CE2	7:LD:192:ALA:HA	2.14	0.83
9:LF:26:ALA:HA	9:LF:29:LYS:CG	2.07	0.83
24:LV:90:ARG:NE	24:LV:123:LYS:HD3	1.94	0.83
68:Sg:106:LYS:HD2	68:Sg:126:ASP:HA	1.60	0.83
68:Sg:188:HIS:HB3	68:Sg:219:TRP:CZ2	2.13	0.83
1:L5:112:C:N4	1:L5:278:G:O6	2.11	0.83
1:L5:1252:C:O2'	1:L5:1258:G:N2	2.12	0.83
15:LM:70:GLN:HA	15:LM:73:VAL:HG12	1.59	0.83
23:LU:101:ARG:HD2	23:LU:115:PHE:HE1	1.43	0.83
46:Lz:85:MET:HB2	46:Lz:89:ALA:CB	2.08	0.83
47:S2:395:G:H5'	56:SL:82:MET:CE	2.08	0.83
47:S2:1757:G:C2'	47:S2:1758:G:H5"	2.07	0.83
60:SS:84:LEU:CG	60:SS:97:GLN:HB2	2.08	0.83
1:L5:1883:G:N2	1:L5:2070:U:O2	2.11	0.83
7:LD:223:PHE:HB3	7:LD:226:TYR:HD2	1.43	0.83
9:LF:95:ILE:HD13	9:LF:223:LYS:HG3	1.58	0.83
33:Le:108:ARG:HA	33:Le:111:ILE:HG22	1.61	0.83
47:S2:1429:G:N2	61:ST:65:TYR:OH	2.12	0.83
47:S2:1530:U:H1'	61:ST:87:VAL:HG23	1.59	0.83
50:SD:213:PRO:HB3	59:SR:19:LYS:HD2	1.61	0.83
53:SH:6:ALA:HB3	53:SH:25:GLN:HB3	1.61	0.83
53:SH:10:LYS:HD3	53:SH:17:ASP:CG	2.04	0.83
53:SH:144:ILE:HG13	53:SH:154:ILE:HG12	1.61	0.83
58:SQ:96:TYR:HD1	58:SQ:100:VAL:HG21	1.41	0.83
59:SR:10:LYS:HG2	59:SR:53:TYR:CE1	2.14	0.83
72:SM:42:LEU:HD21	72:SM:72:HIS:HD2	1.42	0.83
1:L5:179:G:N1	1:L5:257:C:N3	2.26	0.83
1:L5:1962:A:H8	1:L5:2024:G:H21	1.23	0.83
5:LB:92:TYR:HE2	5:LB:161:ARG:HD2	1.43	0.83
16:LN:140:LYS:HB3	16:LN:144:ARG:HH12	1.43	0.83
26:LX:119:ILE:HD11	26:LX:140:LEU:HD13	1.60	0.83
27:LY:55:VAL:HG23	27:LY:106:ILE:HA	1.60	0.83
47:S2:1412:C:H2'	47:S2:1413:G:N7	1.93	0.83
48:SA:118:GLU:HB2	69:SC:65:LYS:HZ1	1.43	0.83
62:SU:24:LEU:HB3	62:SU:87:ARG:CB	2.09	0.83
68:Sg:109:LEU:HD23	68:Sg:110:SER:H	1.43	0.83
72:SM:72:HIS:CE1	72:SM:74:ILE:HD11	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:89:C:OP1	29:La:59:LYS:NZ	2.11	0.82
1:L5:2710:C:O3'	1:L5:2711:G:N2	2.11	0.82
7:LD:108:ARG:HA	7:LD:251:PRO:HB2	1.61	0.82
47:S2:395:G:H5'	56:SL:82:MET:HE3	1.61	0.82
48:SA:193:HIS:ND1	48:SA:194:PRO:HD2	1.94	0.82
52:SF:67:PRO:HG2	52:SF:70:GLU:CB	2.08	0.82
52:SF:67:PRO:HG2	52:SF:70:GLU:HB2	1.59	0.82
52:SF:127:ARG:O	52:SF:136:ARG:NE	2.10	0.82
56:SL:128:VAL:HG11	56:SL:140:PHE:HB3	1.60	0.82
64:SX:132:ALA:HB1	64:SX:138:LYS:HG2	1.59	0.82
68:Sg:17:TRP:CZ2	68:Sg:36:ARG:HB2	2.14	0.82
73:SN:22:VAL:HB	73:SN:23:PRO:HD2	1.61	0.82
75:SW:26:LEU:HD11	75:SW:60:LYS:HD3	1.59	0.82
1:L5:1459:A:H2'	1:L5:1460:C:H5'	1.62	0.82
1:L5:2581:A:OP1	28:LZ:73:LYS:NZ	2.12	0.82
25:LW:73:ARG:CZ	47:S2:1781:A:H2'	2.09	0.82
28:LZ:26:VAL:CG2	28:LZ:42:LEU:HD22	2.09	0.82
38:Lj:63:ARG:NH1	38:Lj:65:ARG:HD3	1.93	0.82
47:S2:368:U:C3'	47:S2:369:C:H3'	2.08	0.82
47:S2:1397:U:N3	47:S2:1442:U:H1'	1.93	0.82
47:S2:1829:G:H2'	47:S2:1830:U:H5'	1.61	0.82
48:SA:120:ARG:HE	69:SC:267:GLN:HB3	1.44	0.82
49:SB:41:ILE:HG22	49:SB:74:LEU:HA	1.61	0.82
52:SF:143:PRO:HG3	66:Sc:56:LEU:CD2	2.09	0.82
1:L5:1377:G:C4'	1:L5:1378:C:H5"	2.09	0.82
1:L5:2474:G:N2	1:L5:2502:G:O2'	2.12	0.82
1:L5:4088:C:OP1	4:LA:37:ARG:NH2	2.12	0.82
1:L5:4945:G:N2	34:Lf:67:THR:O	2.10	0.82
8:LE:154:THR:HA	8:LE:158:ARG:HG2	1.61	0.82
8:LE:178:PRO:HD2	8:LE:181:LEU:HD12	1.61	0.82
20:LR:98:ARG:HA	20:LR:101:ILE:HD12	1.58	0.82
23:LU:29:VAL:CG2	23:LU:34:MET:HG3	2.07	0.82
43:Lo:66:ILE:HB	43:Lo:85:ILE:HB	1.58	0.82
54:SI:197:PHE:CD2	56:SL:10:TYR:HB2	2.14	0.82
68:Sg:78:ALA:HB2	68:Sg:92:LEU:CD1	2.07	0.82
69:SC:75:ILE:HD11	69:SC:80:GLU:HB2	1.61	0.82
70:SG:76:LEU:HA	70:SG:94:ARG:HA	1.59	0.82
1:L5:164:G:H2'	1:L5:165:A:H8	1.43	0.82
1:L5:3610:A:H2'	1:L5:3611:A:H8	1.45	0.82
8:LE:94:LYS:HB3	8:LE:95:PRO:CD	2.09	0.82
18:LP:89:GLU:O	18:LP:93:HIS:ND1	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:LR:15:LEU:O	20:LR:52:ARG:NH2	2.13	0.82
34:Lf:88:PHE:HZ	34:Lf:101:ILE:HD11	1.42	0.82
47:S2:24:C:OP1	71:SJ:11:LYS:NZ	2.12	0.82
47:S2:1599:U:OP1	77:SZ:80:ARG:NH2	2.12	0.82
50:SD:195:THR:CG2	50:SD:199:GLY:HA3	2.08	0.82
52:SF:22:LYS:HG3	52:SF:23:TRP:HA	1.58	0.82
58:SQ:43:GLU:HB3	58:SQ:45:ARG:HA	1.61	0.82
68:Sg:198:VAL:HG22	68:Sg:207:CYS:HB3	1.61	0.82
76:SY:76:TYR:HD2	76:SY:82:ALA:HA	1.42	0.82
1:L5:1735:U:H1'	1:L5:4214:A:H5"	1.61	0.82
4:LA:44:ILE:HD12	4:LA:87:PHE:HE1	1.43	0.82
5:LB:348:ARG:HH12	5:LB:351:LEU:HD23	1.43	0.82
7:LD:79:TYR:HB2	7:LD:81:HIS:CD2	2.14	0.82
8:LE:95:PRO:HG2	8:LE:96:VAL:C	2.04	0.82
8:LE:207:LYS:H	8:LE:256:GLN:HE22	1.23	0.82
19:LQ:63:LEU:HD23	19:LQ:112:ARG:NH1	1.94	0.82
24:LV:26:ILE:CG2	24:LV:102:ALA:HA	2.09	0.82
38:Lj:31:LYS:HG2	38:Lj:33:THR:HG22	1.61	0.82
46:Lz:63:PHE:HB3	46:Lz:109:ALA:H	1.43	0.82
47:S2:331:C:N4	70:SG:186:GLN:OE1	2.13	0.82
47:S2:879:C:O2	47:S2:880:G:N2	2.12	0.82
47:S2:1467:C:H5"	59:SR:1:MET:CA	2.09	0.82
48:SA:7:VAL:HG21	63:SV:42:VAL:HA	1.60	0.82
68:Sg:201:SER:HB3	68:Sg:241:PHE:CD2	2.14	0.82
69:SC:265:PRO:HA	69:SC:268:GLU:CB	2.10	0.82
1:L5:2498:C:H2'	1:L5:2499:C:H5"	1.62	0.82
1:L5:4112:C:H2'	1:L5:4113:U:C5'	2.10	0.82
11:LH:133:ALA:HB3	11:LH:147:GLU:HB3	1.58	0.82
14:LL:54:PRO:HB3	14:LL:55:ILE:CG2	2.10	0.82
50:SD:54:ARG:HB2	50:SD:58:VAL:HG13	1.61	0.82
56:SL:61:PRO:HD3	56:SL:141:ASN:HD21	1.44	0.82
62:SU:56:MET:CG	62:SU:57:PRO:HD2	2.10	0.82
68:Sg:106:LYS:HB3	68:Sg:126:ASP:CB	2.10	0.82
70:SG:162:LEU:HB2	70:SG:170:ARG:HG2	1.59	0.82
80:Sf:138:ARG:HD2	80:Sf:147:THR:HG21	1.62	0.82
1:L5:2553:A:N6	1:L5:2764:A:OP2	2.09	0.82
1:L5:4582:C:OP2	5:LB:28:LYS:NZ	2.11	0.82
46:Lz:60:ARG:HB2	46:Lz:61:PRO:HD3	1.62	0.82
47:S2:1392:U:H2'	47:S2:1393:G:C8	2.13	0.82
47:S2:1722:G:H2'	47:S2:1723:G:H8	1.42	0.82
54:SI:48:VAL:HG11	54:SI:54:LYS:HD3	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:SI:165:GLN:CG	54:SI:171:LEU:HD23	2.09	0.82
68:Sg:125:ARG:HD3	68:Sg:150:TRP:CZ3	2.14	0.82
69:SC:113:GLN:HB3	69:SC:122:THR:HA	1.61	0.82
1:L5:216:C:H2'	1:L5:217:C:H5"	1.60	0.82
1:L5:1377:G:H4'	1:L5:1378:C:C5'	2.08	0.82
1:L5:1409:C:H5"	1:L5:1411:C:H1'	1.62	0.82
1:L5:3637:U:H2'	1:L5:3638:G:H5'	1.62	0.82
13:LJ:99:PHE:CD2	13:LJ:163:MET:HG2	2.14	0.82
27:LY:50:ARG:HB2	27:LY:115:ARG:HH21	1.45	0.82
47:S2:309:G:H2'	47:S2:310:C:N1	1.94	0.82
47:S2:628:A:H5"	47:S2:629:A:OP2	1.80	0.82
50:SD:37:VAL:HA	50:SD:51:LEU:HD13	1.61	0.82
51:SE:11:ARG:HH11	51:SE:20:LEU:HB3	1.43	0.82
52:SF:56:TYR:CD1	52:SF:66:CYS:HB3	2.15	0.82
59:SR:78:ARG:HA	59:SR:81:ARG:NE	1.93	0.82
1:L5:1198:G:H2'	1:L5:1199:G:H8	1.44	0.82
5:LB:136:LYS:HG3	5:LB:145:GLN:HG3	1.60	0.82
13:LJ:15:LEU:HD11	13:LJ:165:TRP:CG	2.13	0.82
21:LS:143:LYS:HA	21:LS:146:HIS:CE1	2.15	0.82
27:LY:10:ASP:HB2	27:LY:13:LYS:HD3	1.62	0.82
46:Lz:203:ALA:HB1	46:Lz:215:ARG:HG2	1.62	0.82
47:S2:154:U:O2	70:SG:4:ASN:ND2	2.12	0.82
48:SA:67:ALA:HA	63:SV:47:ASN:HD21	1.44	0.82
49:SB:140:VAL:HG13	49:SB:213:ARG:HB2	1.62	0.82
51:SE:95:THR:HG23	51:SE:97:GLU:H	1.42	0.82
52:SF:140:ASP:HB3	66:Sc:46:VAL:HA	1.62	0.82
53:SH:8:ILE:HG21	53:SH:28:LEU:HD12	1.62	0.82
64:SX:63:ASN:ND2	64:SX:114:ASP:OD2	2.13	0.82
1:L5:1739:G:N2	1:L5:1790:U:O2	2.13	0.82
1:L5:3688:U:OP2	4:LA:198:ARG:NH1	2.12	0.82
1:L5:4525:C:OP1	5:LB:246:ARG:NH1	2.12	0.82
1:L5:4691:A:OP1	11:LH:71:ARG:NH1	2.12	0.82
1:L5:4935:C:H2'	8:LE:183:ARG:HH21	1.45	0.82
14:LL:167:ARG:O	29:La:98:ALA:HB3	1.80	0.82
20:LR:72:LYS:HE2	20:LR:74:ARG:NH1	1.93	0.82
52:SF:187:SER:HB3	52:SF:190:ILE:HG22	1.61	0.82
69:SC:196:ILE:HG23	69:SC:223:TYR:HB2	1.62	0.82
15:LM:17:PHE:CE1	15:LM:54:CYS:HA	2.15	0.81
47:S2:111:A:O2'	56:SL:69:ARG:NH1	2.12	0.81
47:S2:1059:G:O6	47:S2:1060:A:N6	2.13	0.81
47:S2:1610:G:H1	47:S2:1630:A:H1'	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:72:ALA:HA	48:SA:95:GLY:O	1.79	0.81
48:SA:91:ALA:HA	48:SA:96:ALA:HB3	1.61	0.81
49:SB:105:LEU:HD13	49:SB:213:ARG:HA	1.62	0.81
57:SP:37:TYR:HA	60:SS:88:LYS:HZ1	1.44	0.81
1:L5:1808:C:O2	1:L5:1830:G:N2	2.12	0.81
1:L5:3658:C:OP1	4:LA:242:ARG:NH2	2.13	0.81
9:LF:117:ILE:HG12	9:LF:118:PHE:CD2	2.14	0.81
26:LX:148:ASP:OD1	26:LX:149:VAL:N	2.12	0.81
47:S2:65:C:C2	70:SG:174:PRO:HB3	2.15	0.81
47:S2:386:C:H1'	54:SI:5:ARG:CG	2.09	0.81
47:S2:1171:G:N2	47:S2:1188:A:OP2	2.13	0.81
49:SB:66:VAL:CG2	49:SB:87:ILE:HG22	2.09	0.81
68:Sg:220:ASP:O	68:Sg:224:GLY:N	2.13	0.81
80:Sf:122:PRO:O	80:Sf:126:CYS:HB3	1.79	0.81
1:L5:395:A:H2'	1:L5:396:A:C8	2.16	0.81
1:L5:730:G:H2'	1:L5:731:G:C8	2.14	0.81
1:L5:1428:U:H5"	19:LQ:42:THR:CG2	2.10	0.81
1:L5:2318:G:O6	33:Le:19:LYS:NZ	2.13	0.81
1:L5:2604:C:H2'	1:L5:2605:G:H5'	1.63	0.81
7:LD:273:LEU:HD11	7:LD:277:LYS:HE3	1.61	0.81
18:LP:36:ILE:HD11	18:LP:44:ALA:HB1	1.61	0.81
19:LQ:61:LEU:CD1	19:LQ:65:ARG:HD3	2.09	0.81
28:LZ:83:THR:HG22	28:LZ:85:TYR:H	1.45	0.81
47:S2:744:G:H2'	47:S2:745:C:H5'	1.62	0.81
47:S2:1263:U:C5	47:S2:1264:C:H2'	2.15	0.81
47:S2:1654:G:H1	47:S2:1670:C:H42	1.28	0.81
47:S2:1726:G:O6	47:S2:1808:U:N3	2.12	0.81
48:SA:69:GLU:CG	69:SC:268:GLU:HG3	2.09	0.81
60:SS:85:ASN:H	60:SS:97:GLN:HG3	1.42	0.81
61:ST:13:GLU:O	61:ST:17:ALA:N	2.14	0.81
66:Sc:11:LEU:HB3	66:Sc:55:VAL:HG13	1.62	0.81
68:Sg:158:PRO:HG2	68:Sg:202:PRO:CA	2.11	0.81
76:SY:28:LEU:HD13	76:SY:68:LYS:HG2	1.61	0.81
8:LE:278:THR:HG22	8:LE:281:ILE:HG12	1.62	0.81
10:LG:57:TRP:O	10:LG:62:ARG:NH1	2.13	0.81
51:SE:95:THR:OG1	76:SY:16:ARG:NH1	2.13	0.81
61:ST:18:LEU:HG	61:ST:134:ILE:CD1	2.09	0.81
68:Sg:158:PRO:HG2	68:Sg:202:PRO:HA	1.61	0.81
68:Sg:237:ASN:H	68:Sg:252:THR:HG22	1.46	0.81
1:L5:317:A:H2'	1:L5:318:A:H5'	1.61	0.81
11:LH:93:ARG:HD2	41:Lm:82:LEU:HD11	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:LR:24:LEU:HA	20:LR:50:ILE:HG22	1.59	0.81
50:SD:69:LEU:HA	50:SD:72:VAL:HG23	1.61	0.81
52:SF:96:ALA:HA	52:SF:99:ILE:HG22	1.62	0.81
56:SL:23:VAL:HB	56:SL:26:GLY:HA3	1.62	0.81
60:SS:44:VAL:CG1	60:SS:70:ILE:HG13	2.11	0.81
73:SN:13:GLN:O	78:Sb:20:LYS:NZ	2.12	0.81
1:L5:1552:G:H2'	1:L5:1574:G:N2	1.95	0.81
1:L5:1768:C:C4'	1:L5:1769:G:H5'	2.10	0.81
1:L5:4084:G:O6	4:LA:70:LYS:NZ	2.12	0.81
17:LO:8:VAL:HG23	17:LO:117:ARG:HA	1.62	0.81
17:LO:36:VAL:HG22	17:LO:108:ILE:HG12	1.61	0.81
18:LP:6:LEU:HD23	18:LP:116:HIS:CD2	2.16	0.81
21:LS:79:GLY:HA3	21:LS:132:ILE:HD11	1.63	0.81
47:S2:363:A:N6	47:S2:400:C:O2'	2.11	0.81
70:SG:217:MET:HA	70:SG:220:ALA:HB3	1.61	0.81
1:L5:294:G:H3'	1:L5:294:G:N3	1.96	0.81
1:L5:1741:G:N2	1:L5:1781:U:OP1	2.12	0.81
1:L5:4311:A:O2'	1:L5:4312:U:H5'	1.80	0.81
4:LA:196:TRP:CE3	4:LA:197:PRO:HG3	2.16	0.81
5:LB:112:ASP:HA	5:LB:115:LYS:CD	2.10	0.81
8:LE:50:LEU:HD12	8:LE:51:VAL:HG23	1.61	0.81
21:LS:9:GLU:OE1	21:LS:67:VAL:HB	1.81	0.81
47:S2:449:A:OP1	54:SI:23:LYS:NZ	2.10	0.81
47:S2:1013:U:H4'	47:S2:1129:G:H21	1.44	0.81
48:SA:200:ASP:HA	48:SA:203:PHE:CD2	2.16	0.81
51:SE:36:HIS:CE1	51:SE:85:GLY:HA3	2.16	0.81
52:SF:183:GLY:HA2	52:SF:190:ILE:HG12	1.61	0.81
53:SH:158:LEU:HB2	53:SH:189:PHE:CE1	2.15	0.81
60:SS:74:PRO:HG2	60:SS:84:LEU:HD21	1.62	0.81
61:ST:9:VAL:HG11	61:ST:138:VAL:HB	1.63	0.81
71:SJ:38:ARG:HB2	71:SJ:127:ARG:HH22	1.46	0.81
1:L5:933:G:N2	1:L5:939:G:H2'	1.95	0.81
1:L5:1180:C:H3'	1:L5:1181:C:C5'	2.11	0.81
1:L5:1202:C:N4	1:L5:1203:G:H1'	1.95	0.81
1:L5:1280:C:H42	8:LE:129:GLY:HA2	1.45	0.81
1:L5:2301:G:H2'	1:L5:2302:C:H6	1.46	0.81
1:L5:2389:A:H5"	32:Ld:70:LYS:CE	2.11	0.81
4:LA:210:PRO:HD2	4:LA:235:VAL:HG21	1.60	0.81
10:LG:89:ARG:HA	10:LG:92:ALA:HB3	1.61	0.81
14:LL:203:ALA:O	14:LL:207:VAL:N	2.12	0.81
20:LR:105:LEU:HD23	20:LR:138:LEU:HD23	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:141:A:H4'	47:S2:142:C:C5'	2.10	0.81
47:S2:201:C:H3'	47:S2:202:G:H8	1.44	0.81
48:SA:196:GLU:HG2	48:SA:197:VAL:H	1.46	0.81
52:SF:21:GLY:HA2	52:SF:48:TYR:HD1	1.46	0.81
59:SR:78:ARG:HA	59:SR:81:ARG:HE	1.45	0.81
71:SJ:142:VAL:HG12	71:SJ:144:ILE:H	1.42	0.81
72:SM:64:LEU:O	72:SM:68:LEU:HG	1.81	0.81
1:L5:4266:G:O2'	1:L5:4267:G:N2	2.13	0.81
1:L5:4508:C:H2'	1:L5:4509:U:H6	1.46	0.81
3:L8:150:C:H3'	10:LG:65:ARG:NH2	1.96	0.81
6:LC:298:ILE:HD11	19:LQ:128:LEU:HA	1.61	0.81
9:LF:46:ARG:HA	9:LF:49:LEU:HB3	1.63	0.81
10:LG:81:ASN:ND2	10:LG:237:TRP:O	2.12	0.81
11:LH:86:LEU:HD23	11:LH:188:GLN:HE21	1.45	0.81
18:LP:20:SER:O	18:LP:22:LEU:N	2.12	0.81
35:Lg:20:THR:HG22	35:Lg:34:TYR:CD1	2.15	0.81
47:S2:321:C:H2'	47:S2:322:C:H6	1.46	0.81
47:S2:947:G:H2'	47:S2:948:C:C6	2.16	0.81
47:S2:1298:G:H1'	57:SP:79:HIS:HA	1.62	0.81
1:L5:139:G:C2'	1:L5:140:G:H5'	2.10	0.81
1:L5:2419:C:H2'	1:L5:2420:A:H8	1.46	0.81
1:L5:4043:G:O6	1:L5:4048:A:N6	2.13	0.81
12:LI:52:MET:HE2	12:LI:136:MET:HG2	1.62	0.81
15:LM:47:ARG:HG3	15:LM:70:GLN:HE21	1.46	0.81
47:S2:323:C:H2'	47:S2:329:G:N2	1.96	0.81
47:S2:955:A:N6	47:S2:971:G:O2'	2.13	0.81
47:S2:1412:C:N4	47:S2:1414:A:H1'	1.96	0.81
52:SF:30:ILE:CD1	52:SF:113:VAL:HG11	2.10	0.81
52:SF:127:ARG:HG3	66:Sc:68:LEU:HD23	1.62	0.81
68:Sg:78:ALA:HB3	68:Sg:90:TRP:HB2	1.63	0.81
70:SG:136:LYS:NZ	70:SG:175:LYS:O	2.13	0.81
78:Sb:54:VAL:N	78:Sb:64:CYS:SG	2.53	0.81
1:L5:368:C:C2'	1:L5:369:G:H5'	2.11	0.80
1:L5:3635:A:C2	1:L5:3636:C:H1'	2.16	0.80
19:LQ:53:MET:O	19:LQ:58:ARG:NH1	2.14	0.80
38:Lj:22:CYS:CB	38:Lj:37:CYS:HB3	2.11	0.80
47:S2:1299:A:OP1	57:SP:59:ARG:NH2	2.14	0.80
47:S2:1759:G:H2'	47:S2:1760:G:C8	2.15	0.80
53:SH:9:VAL:CG2	53:SH:28:LEU:HD11	2.10	0.80
70:SG:38:ALA:HB1	70:SG:41:LEU:HD23	1.61	0.80
70:SG:121:ILE:HG21	70:SG:124:LEU:HD12	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:509:A:N7	29:La:82:VAL:HG12	1.95	0.80
1:L5:4906:C:O2	1:L5:4915:G:N2	2.13	0.80
19:LQ:103:LEU:HD12	19:LQ:123:PHE:HE2	1.46	0.80
46:Lz:116:LEU:HD21	46:Lz:124:LEU:HD13	1.61	0.80
47:S2:1036:A:H2'	47:S2:1037:G:H5'	1.63	0.80
47:S2:1137:U:O2'	48:SA:155:ARG:NH1	2.15	0.80
47:S2:1849:G:H1'	47:S2:1850:A:C5'	2.11	0.80
48:SA:106:GLY:O	48:SA:110:ASN:N	2.14	0.80
51:SE:137:PRO:HG2	51:SE:150:PRO:HD2	1.63	0.80
58:SQ:30:GLY:HA2	58:SQ:64:ALA:CA	2.11	0.80
80:Sf:132:MET:SD	80:Sf:139:HIS:HB3	2.21	0.80
1:L5:481:G:OP1	45:Lr:67:ARG:NH1	2.11	0.80
1:L5:1409:C:C5'	1:L5:1411:C:H1'	2.11	0.80
1:L5:4364:G:H2'	1:L5:4365:C:C6	2.15	0.80
1:L5:4861:G:H3'	1:L5:4862:G:C8	2.16	0.80
5:LB:369:ASP:OD2	5:LB:373:LYS:NZ	2.14	0.80
9:LF:34:ARG:O	9:LF:38:ALA:N	2.15	0.80
14:LL:54:PRO:HA	14:LL:55:ILE:HB	1.62	0.80
27:LY:44:VAL:HG22	27:LY:122:LYS:CB	2.11	0.80
47:S2:521:A:OP1	71:SJ:45:ARG:NH1	2.13	0.80
47:S2:1741:U:H3'	47:S2:1742:C:H5"	1.64	0.80
1:L5:756:G:C2'	1:L5:757:G:H5"	2.12	0.80
1:L5:1178:G:N2	1:L5:1183:C:O4'	2.15	0.80
1:L5:1266:G:H5'	1:L5:2112:G:H21	1.45	0.80
1:L5:2484:A:N6	1:L5:2495:U:O2	2.12	0.80
1:L5:2778:G:H4'	26:LX:107:HIS:HE1	1.46	0.80
6:LC:124:ILE:CD1	6:LC:237:ILE:HG13	2.11	0.80
27:LY:34:LEU:HD11	27:LY:47:MET:HG2	1.63	0.80
47:S2:6:G:O2'	47:S2:601:G:N2	2.15	0.80
47:S2:1281:G:N2	47:S2:1316:C:O2	2.14	0.80
47:S2:1349:G:H2'	47:S2:1350:U:H6	1.43	0.80
47:S2:1599:U:H5'	47:S2:1600:G:C8	2.17	0.80
53:SH:121:THR:HG22	53:SH:123:THR:N	1.97	0.80
62:SU:22:ILE:O	62:SU:88:LEU:HA	1.81	0.80
1:L5:171:U:O2	14:LL:135:LYS:NZ	2.14	0.80
1:L5:962:C:O3'	1:L5:2264:C:N4	2.14	0.80
1:L5:2251:G:H4'	1:L5:2252:G:C4'	2.11	0.80
1:L5:2460:A:O2'	16:LN:96:ARG:NH1	2.13	0.80
1:L5:2479:G:N2	1:L5:2499:C:O2	2.14	0.80
1:L5:3746:A:H5"	4:LA:244:GLY:HA3	1.63	0.80
1:L5:4939:C:OP1	8:LE:156:ARG:NH2	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:LL:163:LYS:HD3	29:La:105:ARG:HH22	1.47	0.80
22:LT:17:ARG:CG	22:LT:18:PRO:HD2	2.11	0.80
27:LY:47:MET:SD	27:LY:122:LYS:NZ	2.51	0.80
29:La:82:VAL:CG1	29:La:101:ILE:HG12	2.10	0.80
32:Ld:90:ARG:CD	32:Ld:102:LEU:HD21	2.12	0.80
40:Ll:23:ILE:HD11	40:Ll:38:ASN:N	1.97	0.80
47:S2:71:G:O2'	47:S2:73:C:N4	2.15	0.80
47:S2:1298:G:O2'	47:S2:1299:A:O4'	2.00	0.80
47:S2:1385:G:OP1	50:SD:160:SER:N	2.14	0.80
48:SA:19:LEU:C	59:SR:96:ILE:HD11	2.06	0.80
51:SE:181:CYS:HB2	51:SE:227:VAL:HA	1.63	0.80
62:SU:108:PRO:HG2	62:SU:110:VAL:HG22	1.63	0.80
1:L5:3728:A:OP1	37:Li:74:LYS:NZ	2.15	0.80
1:L5:3921:U:O2	1:L5:4543:G:N2	2.14	0.80
2:L7:87:G:H5"	21:LS:87:ARG:HE	1.45	0.80
5:LB:46:PHE:HE2	5:LB:81:THR:HG23	1.46	0.80
17:LO:166:ILE:HG13	17:LO:169:ARG:HD2	1.63	0.80
47:S2:465:A:H4'	47:S2:466:G:O5'	1.82	0.80
47:S2:994:C:H2'	47:S2:995:G:H5"	1.64	0.80
47:S2:1601:A:H1'	47:S2:1635:C:N4	1.95	0.80
70:SG:67:VAL:HB	70:SG:99:GLY:HA2	1.63	0.80
1:L5:1183:C:H4'	1:L5:1184:A:C5	2.16	0.80
1:L5:3937:C:H2'	1:L5:3938:G:N2	1.96	0.80
1:L5:4252:C:H42	13:LJ:25:CYS:HB3	1.45	0.80
4:LA:117:GLU:OE1	4:LA:121:GLY:N	2.14	0.80
8:LE:208:ILE:CG1	8:LE:209:PRO:HD2	2.10	0.80
10:LG:162:ASP:HB3	10:LG:163:PRO:HD3	1.64	0.80
34:Lf:9:ALA:O	34:Lf:101:ILE:HG22	1.82	0.80
47:S2:69:C:H3'	47:S2:70:G:H8	1.47	0.80
47:S2:946:U:H3	47:S2:980:A:H61	1.29	0.80
59:SR:68:GLY:HA3	59:SR:69:ILE:CG1	2.11	0.80
29:La:37:GLY:HA2	29:La:41:HIS:HB2	1.62	0.80
47:S2:819:G:N2	47:S2:829:C:N3	2.29	0.80
50:SD:7:LYS:HE2	62:SU:84:ILE:CD1	2.11	0.80
52:SF:39:ILE:CD1	52:SF:147:VAL:HG11	2.10	0.80
1:L5:1491:A:H2'	1:L5:1492:G:H8	1.47	0.80
1:L5:2095:A:N7	9:LF:46:ARG:NH2	2.30	0.80
1:L5:3889:G:N7	1:L5:4720:C:H2'	1.97	0.80
1:L5:4582:C:H4'	5:LB:99:LEU:HB2	1.63	0.80
3:L8:44:A:H2'	3:L8:45:C:H6	1.47	0.80
6:LC:218:ILE:HD12	6:LC:229:LEU:CD1	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Lk:53:ALA:O	39:Lk:57:LYS:N	2.15	0.80
47:S2:1597:C:H1'	47:S2:1603:G:H1	1.45	0.80
47:S2:1635:C:H2'	47:S2:1636:G:H5'	1.62	0.80
47:S2:1746:U:OP1	70:SG:31:ARG:NH2	2.15	0.80
58:SQ:31:LEU:CD2	58:SQ:33:LYS:HE3	2.12	0.80
1:L5:2113:G:C2	1:L5:2115:G:H5'	2.17	0.80
1:L5:2388:A:H2'	1:L5:2389:A:H5'	1.64	0.80
7:LD:64:ILE:HD12	7:LD:144:CYS:SG	2.22	0.80
47:S2:165:G:OP2	47:S2:165:G:N2	2.15	0.80
47:S2:1332:A:H2'	50:SD:141:LYS:HZ3	1.47	0.80
48:SA:91:ALA:CB	48:SA:96:ALA:HB3	2.12	0.80
48:SA:125:THR:HG22	48:SA:175:TRP:CZ2	2.17	0.80
50:SD:107:TYR:HA	50:SD:110:LEU:HD12	1.63	0.80
51:SE:104:ASP:OD1	51:SE:107:GLY:N	2.15	0.80
51:SE:198:ARG:HB3	51:SE:208:VAL:HG23	1.62	0.80
52:SF:56:TYR:CE1	52:SF:66:CYS:HB3	2.17	0.80
53:SH:125:VAL:HA	53:SH:128:ALA:HB3	1.63	0.80
54:SI:66:SER:CB	54:SI:73:THR:HG22	2.11	0.80
69:SC:170:TRP:O	75:SW:98:GLN:NE2	2.15	0.80
1:L5:960:A:H5'	1:L5:961:G:O5'	1.81	0.79
1:L5:1268:G:N2	1:L5:1269:G:O2'	2.15	0.79
16:LN:98:LEU:O	16:LN:101:VAL:HG12	1.81	0.79
45:Lr:41:ASN:ND2	45:Lr:44:ILE:HD13	1.97	0.79
47:S2:511:U:H2'	47:S2:512:A:H8	1.46	0.79
47:S2:911:C:H2'	47:S2:912:C:C5	2.16	0.79
47:S2:1590:C:H5"	61:ST:82:ARG:HE	1.47	0.79
53:SH:43:LEU:HD23	53:SH:71:SER:HB3	1.64	0.79
58:SQ:43:GLU:HG2	58:SQ:48:GLN:NE2	1.97	0.79
71:SJ:88:ASP:HB2	71:SJ:91:LYS:HB3	1.62	0.79
1:L5:131:C:N4	1:L5:137:G:O6	2.16	0.79
1:L5:660:A:H2'	1:L5:661:C:C6	2.17	0.79
1:L5:708:G:OP1	34:Lf:46:ARG:NH2	2.15	0.79
6:LC:231:ASN:OD1	6:LC:232:VAL:N	2.15	0.79
11:LH:137:SER:HB2	11:LH:145:ILE:HD12	1.65	0.79
17:LO:102:LEU:CD2	17:LO:104:VAL:HG13	2.11	0.79
24:LV:26:ILE:HG23	24:LV:102:ALA:HA	1.64	0.79
37:Li:50:PHE:HZ	37:Li:93:VAL:HG11	1.46	0.79
47:S2:140:C:O2'	47:S2:141:A:H5'	1.80	0.79
47:S2:678:U:OP2	47:S2:1026:C:N4	2.14	0.79
47:S2:1757:G:N2	47:S2:1758:G:N3	2.29	0.79
58:SQ:27:ARG:HA	58:SQ:66:VAL:HG12	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:SU:23:THR:HB	62:SU:113:GLU:HB2	1.65	0.79
1:L5:1743:A:H1'	7:LD:15:ARG:NH2	1.96	0.79
1:L5:2068:C:OP1	34:Lf:85:ARG:NH2	2.16	0.79
1:L5:2326:G:OP2	33:Le:101:HIS:ND1	2.15	0.79
1:L5:2778:G:H4'	26:LX:107:HIS:CE1	2.16	0.79
5:LB:257:TRP:CD1	5:LB:258:HIS:CD2	2.69	0.79
10:LG:73:ARG:NH1	10:LG:242:LEU:HA	1.97	0.79
33:Le:6:PRO:HA	33:Le:74:PHE:HE1	1.45	0.79
47:S2:593:C:H4'	79:Se:26:LYS:HZ1	1.47	0.79
47:S2:753:C:N4	47:S2:790:C:H3'	1.97	0.79
47:S2:1525:C:C2'	47:S2:1526:G:H5"	2.11	0.79
49:SB:34:LYS:HG2	49:SB:43:ASN:ND2	1.97	0.79
50:SD:13:ALA:O	50:SD:16:ILE:HG22	1.83	0.79
58:SQ:16:LYS:HE3	58:SQ:82:TYR:CD2	2.17	0.79
68:Sg:24:THR:HB	68:Sg:27:PHE:HD2	1.47	0.79
69:SC:178:HIS:HB3	69:SC:200:ARG:NH2	1.97	0.79
1:L5:338:A:H2'	1:L5:339:C:C6	2.17	0.79
1:L5:914:U:H2'	1:L5:915:A:C1'	2.12	0.79
1:L5:938:C:H2'	1:L5:939:G:H8	1.48	0.79
2:L7:59:G:H2'	2:L7:60:G:H8	1.46	0.79
9:LF:71:MET:HA	9:LF:74:MET:HE3	1.65	0.79
20:LR:106:LEU:HB3	20:LR:120:TYR:CE1	2.18	0.79
24:LV:109:LYS:HG3	24:LV:110:GLY:H	1.47	0.79
47:S2:1057:C:H1'	47:S2:1060:A:H2	1.47	0.79
47:S2:1271:C:OP2	80:Sf:92:LYS:NZ	2.15	0.79
47:S2:1608:U:OP1	60:SS:134:GLN:NE2	2.15	0.79
48:SA:109:THR:O	69:SC:89:LYS:NZ	2.15	0.79
1:L5:382:G:O2'	1:L5:407:A:N6	2.15	0.79
1:L5:1307:A:C2'	1:L5:1308:C:H5'	2.11	0.79
1:L5:2482:C:N3	1:L5:2497:C:N4	2.31	0.79
1:L5:4991:U:O2'	1:L5:4992:G:O5'	1.98	0.79
7:LD:146:LEU:HD12	7:LD:163:LEU:HD13	1.65	0.79
10:LG:215:LEU:HD12	10:LG:218:LEU:HD12	1.64	0.79
17:LO:16:LEU:CD1	17:LO:83:THR:HG21	2.10	0.79
39:Lk:37:ARG:NH1	39:Lk:42:LEU:HB2	1.96	0.79
50:SD:98:ALA:HB1	50:SD:171:ALA:HB2	1.64	0.79
67:Sd:29:GLY:O	67:Sd:40:ARG:N	2.15	0.79
68:Sg:217:MET:HE3	68:Sg:219:TRP:HE1	1.47	0.79
1:L5:27:C:O3'	1:L5:60:G:N2	2.15	0.79
1:L5:1408:G:H21	1:L5:1412:G:H22	1.28	0.79
1:L5:2838:G:H5'	5:LB:247:GLY:HA2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4177:C:OP1	16:LN:93:LYS:NZ	2.14	0.79
47:S2:71:G:HO2'	47:S2:73:C:N4	1.81	0.79
47:S2:1285:G:H1'	80:Sf:102:VAL:HG22	1.63	0.79
47:S2:1411:G:H2'	47:S2:1412:C:H4'	1.65	0.79
47:S2:1422:G:N2	47:S2:1425:G:OP2	2.16	0.79
47:S2:1589:A:H2'	47:S2:1590:C:H6	1.46	0.79
48:SA:123:VAL:HG12	48:SA:145:ILE:CG2	2.11	0.79
54:SI:141:ARG:HB3	54:SI:145:ILE:HG13	1.64	0.79
61:ST:128:GLN:HE22	61:ST:131:LEU:HD23	1.47	0.79
68:Sg:64:HIS:CD2	68:Sg:84:ASP:HB2	2.18	0.79
74:SO:72:TYR:HD1	74:SO:75:MET:HE2	1.48	0.79
75:SW:115:GLU:O	75:SW:119:LYS:HD3	1.82	0.79
1:L5:1177:U:H1'	7:LD:282:GLN:CB	2.12	0.79
16:LN:140:LYS:HE3	16:LN:144:ARG:HH22	1.48	0.79
17:LO:93:LYS:O	17:LO:97:ALA:N	2.14	0.79
23:LU:96:LEU:HB3	23:LU:100:LEU:HD13	1.65	0.79
25:LW:102:LYS:HA	25:LW:105:ARG:CZ	2.12	0.79
31:Lc:43:ALA:HA	31:Lc:97:ILE:CD1	2.11	0.79
46:Lz:35:GLN:HB3	46:Lz:167:VAL:HG11	1.62	0.79
46:Lz:162:VAL:HG12	46:Lz:163:LEU:HG	1.63	0.79
47:S2:1065:G:H2'	47:S2:1066:U:C6	2.17	0.79
53:SH:5:SER:HA	53:SH:21:SER:CB	2.06	0.79
56:SL:127:THR:HG21	56:SL:144:LYS:HE2	1.63	0.79
65:Sa:44:ILE:CG2	65:Sa:64:LEU:HD11	2.12	0.79
66:Sc:13:ARG:NH2	66:Sc:35:MET:HG3	1.98	0.79
66:Sc:35:MET:HE1	66:Sc:55:VAL:CG2	2.11	0.79
1:L5:55:G:N3	16:LN:162:ARG:HD3	1.97	0.79
1:L5:678:C:OP1	45:Lr:84:LYS:NZ	2.16	0.79
1:L5:3965:A:H62	1:L5:4049:U:H2'	1.48	0.79
1:L5:4098:A:OP2	1:L5:4099:G:N1	2.15	0.79
1:L5:4670:C:O2'	1:L5:4672:A:OP2	2.01	0.79
1:L5:4674:C:H2'	1:L5:4675:U:C6	2.18	0.79
8:LE:140:LEU:HD12	8:LE:191:GLN:NE2	1.96	0.79
13:LJ:99:PHE:HE2	13:LJ:163:MET:HA	1.46	0.79
16:LN:64:ILE:HD11	16:LN:102:ALA:CB	2.13	0.79
47:S2:156:G:OP1	70:SG:2:LYS:NZ	2.14	0.79
47:S2:1658:G:H2'	47:S2:1659:U:C6	2.17	0.79
47:S2:1669:G:H5"	58:SQ:130:LYS:HB3	1.65	0.79
71:SJ:177:ASN:O	71:SJ:181:GLY:N	2.15	0.79
73:SN:47:PRO:HD2	73:SN:86:GLU:HG3	1.65	0.79
1:L5:721:G:H2'	1:L5:722:G:H8	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1415:G:H2'	1:L5:1416:G:O4'	1.83	0.79
1:L5:2400:G:N2	1:L5:2805:C:O2	2.15	0.79
1:L5:4059:C:C2'	1:L5:4060:U:H5'	2.13	0.79
23:LU:49:VAL:HG21	23:LU:57:GLY:CA	2.13	0.79
47:S2:74:G:H2'	47:S2:75:G:H4'	1.62	0.79
47:S2:91:A:P	47:S2:446:G:H22	2.06	0.79
47:S2:493:A:H1'	47:S2:574:A:H5'	1.64	0.79
47:S2:1707:U:O2'	47:S2:1849:G:N2	2.16	0.79
47:S2:1721:U:C3'	47:S2:1722:G:H5"	2.11	0.79
47:S2:1736:G:H2'	47:S2:1737:G:H8	1.47	0.79
58:SQ:57:LEU:HD21	58:SQ:112:LEU:HD11	1.64	0.79
58:SQ:86:GLN:HG3	58:SQ:119:LEU:O	1.82	0.79
68:Sg:173:LEU:CD2	68:Sg:189:ILE:HA	2.13	0.79
1:L5:1591:U:OP1	5:LB:243:LYS:HG3	1.83	0.79
1:L5:2391:G:N2	1:L5:2826:U:O4	2.15	0.79
3:L8:82:A:H62	3:L8:84:A:H3'	1.46	0.79
8:LE:62:MET:HE3	8:LE:66:LYS:CE	2.13	0.79
10:LG:207:VAL:HG11	10:LG:215:LEU:HD22	1.63	0.79
13:LJ:40:LEU:HA	13:LJ:43:LEU:HB3	1.64	0.79
15:LM:7:VAL:HG22	15:LM:57:LEU:HD21	1.65	0.79
23:LU:24:ASP:CB	23:LU:69:LYS:HG2	2.13	0.79
47:S2:189:U:H1'	47:S2:211:G:N2	1.94	0.79
47:S2:1298:G:N7	57:SP:80:LEU:HD23	1.98	0.79
54:SI:62:VAL:HA	54:SI:77:ARG:HA	1.64	0.79
56:SL:61:PRO:HD3	56:SL:141:ASN:ND2	1.98	0.79
68:Sg:54:ILE:CD1	68:Sg:55:PRO:HD2	2.11	0.79
80:Sf:138:ARG:HD2	80:Sf:147:THR:CG2	2.13	0.79
1:L5:1077:C:O3'	1:L5:1078:A:H4'	1.83	0.78
1:L5:1553:A:OP1	44:Lp:4:ARG:HD2	1.83	0.78
1:L5:2521:G:H5"	35:Lg:25:THR:CG2	2.13	0.78
1:L5:3773:U:O2'	1:L5:3774:A:OP2	2.01	0.78
1:L5:4083:U:C2'	1:L5:4084:G:H5'	2.12	0.78
1:L5:4112:C:C2'	1:L5:4113:U:H5'	2.11	0.78
28:LZ:106:LEU:O	28:LZ:110:ALA:N	2.15	0.78
29:La:117:LEU:CD1	29:La:118:PRO:HD2	2.14	0.78
49:SB:103:MET:HG2	49:SB:215:VAL:CG2	2.13	0.78
1:L5:985:C:O2	1:L5:1069:G:N1	2.16	0.78
1:L5:2399:G:N2	35:Lg:4:ARG:HE	1.82	0.78
7:LD:163:LEU:HD11	7:LD:173:ILE:HG21	1.65	0.78
14:LL:170:THR:HB	14:LL:173:GLU:HG2	1.63	0.78
28:LZ:54:THR:HG22	28:LZ:57:MET:HE3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:996:A:OP1	73:SN:114:ARG:NH1	2.15	0.78
47:S2:1018:U:C5'	73:SN:71:ILE:HD13	2.13	0.78
48:SA:43:SER:HB2	59:SR:123:THR:CG2	2.11	0.78
67:Sd:31:ILE:HG22	67:Sd:38:MET:O	1.83	0.78
69:SC:192:LEU:HB3	69:SC:227:ARG:HB2	1.64	0.78
71:SJ:84:ILE:HG22	71:SJ:86:VAL:HG13	1.64	0.78
75:SW:14:ILE:HG21	75:SW:27:ILE:HD11	1.65	0.78
77:SZ:65:TYR:CE1	77:SZ:68:ILE:HG13	2.18	0.78
1:L5:1620:U:HO2'	1:L5:2450:G:HO2'	1.28	0.78
1:L5:2481:G:H2'	1:L5:2482:C:H5	1.48	0.78
1:L5:4200:G:H22	12:LI:116:ARG:HE	1.30	0.78
12:LI:150:GLU:OE1	12:LI:153:ARG:NH2	2.16	0.78
47:S2:601:G:N2	47:S2:622:C:O2	2.16	0.78
47:S2:950:C:H42	47:S2:976:G:H1	1.30	0.78
47:S2:1414:A:H3'	47:S2:1416:C:H4'	1.65	0.78
63:SV:17:CYS:HB2	63:SV:56:CYS:HB2	1.64	0.78
65:Sa:39:PHE:HE2	65:Sa:41:ILE:HD12	1.47	0.78
68:Sg:258:ILE:CD1	68:Sg:269:GLU:HA	2.12	0.78
72:SM:120:ALA:HA	72:SM:123:VAL:CG2	2.12	0.78
75:SW:14:ILE:CG2	75:SW:27:ILE:HD11	2.12	0.78
76:SY:37:LYS:HG2	76:SY:60:PHE:HE2	1.47	0.78
1:L5:364:G:N2	1:L5:376:A:OP2	2.16	0.78
1:L5:2106:G:H2'	1:L5:2126:G:O6	1.83	0.78
1:L5:3589:G:N2	1:L5:3590:G:N7	2.31	0.78
1:L5:3763:A:H2'	1:L5:3764:U:H5'	1.62	0.78
1:L5:3951:G:N2	1:L5:4061:G:O6	2.15	0.78
1:L5:4293:U:O2'	43:Lo:81:ARG:NH2	2.17	0.78
5:LB:85:VAL:HB	5:LB:165:HIS:NE2	1.98	0.78
6:LC:331:TYR:CE1	9:LF:55:LYS:HD3	2.18	0.78
7:LD:152:ARG:NH1	7:LD:153:THR:O	2.17	0.78
8:LE:164:PHE:CE1	8:LE:173:LEU:HD22	2.18	0.78
16:LN:108:ARG:HH11	16:LN:161:MET:HE1	1.47	0.78
18:LP:48:LEU:HD23	18:LP:92:LEU:HD23	1.65	0.78
20:LR:182:GLU:O	20:LR:185:ILE:HG12	1.83	0.78
44:Lp:67:GLY:HA3	44:Lp:73:THR:HG23	1.63	0.78
49:SB:166:LYS:O	49:SB:170:GLU:HG2	1.82	0.78
52:SF:100:ILE:HD11	52:SF:174:ALA:CB	2.10	0.78
69:SC:142:LYS:HB3	69:SC:154:ALA:HB2	1.66	0.78
77:SZ:99:LEU:HB2	77:SZ:100:VAL:C	2.07	0.78
1:L5:977:C:H5'	8:LE:62:MET:HE2	1.65	0.78
1:L5:2909:C:N3	1:L5:3584:C:N4	2.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:66:LYS:HE2	24:LV:13:LYS:HZ2	1.46	0.78
10:LG:30:PRO:CB	28:LZ:124:THR:HA	2.13	0.78
17:LO:166:ILE:HA	17:LO:169:ARG:HG2	1.63	0.78
19:LQ:167:VAL:HG22	19:LQ:169:SER:H	1.48	0.78
47:S2:152:U:OP2	76:SY:122:LYS:NZ	2.16	0.78
47:S2:500:A:H3'	47:S2:501:C:C6	2.19	0.78
47:S2:616:A:H5"	64:SX:68:LYS:NZ	1.98	0.78
47:S2:880:G:H2'	47:S2:881:G:H5'	1.65	0.78
47:S2:1539:U:OP1	61:ST:45:LEU:N	2.14	0.78
47:S2:1840:U:H2'	47:S2:1841:C:H6	1.47	0.78
51:SE:137:PRO:HG2	51:SE:149:TYR:HA	1.64	0.78
54:SI:113:TYR:HB3	54:SI:121:LEU:HD22	1.64	0.78
58:SQ:96:TYR:CD1	58:SQ:100:VAL:HG21	2.18	0.78
62:SU:99:LYS:HA	62:SU:102:THR:HG23	1.65	0.78
64:SX:124:LYS:HA	64:SX:129:SER:HA	1.65	0.78
72:SM:126:GLU:HA	72:SM:129:LYS:HE3	1.64	0.78
74:SO:103:ASN:HD21	74:SO:142:ARG:HA	1.46	0.78
1:L5:957:G:N2	1:L5:959:G:O6	2.15	0.78
1:L5:1273:G:C5'	8:LE:74:SER:HA	2.14	0.78
1:L5:4345:C:O2	43:Lo:82:MET:HE1	1.82	0.78
3:L8:8:U:H2'	3:L8:9:A:H8	1.47	0.78
34:Lf:88:PHE:CZ	34:Lf:101:ILE:HD11	2.18	0.78
47:S2:321:C:H2'	47:S2:322:C:C6	2.19	0.78
47:S2:582:C:C1'	76:SY:33:ALA:HB2	2.13	0.78
47:S2:587:A:OP2	71:SJ:172:ARG:NH2	2.17	0.78
47:S2:1421:A:N6	47:S2:1427:C:O2	2.17	0.78
51:SE:103:TYR:CD2	51:SE:189:LEU:HD11	2.18	0.78
60:SS:16:LEU:HD23	60:SS:17:ASN:N	1.99	0.78
69:SC:172:ASN:ND2	71:SJ:95:ASP:OD2	2.17	0.78
76:SY:50:THR:HG21	76:SY:75:ILE:CG2	2.11	0.78
1:L5:43:U:H5"	16:LN:85:VAL:HG23	1.65	0.78
1:L5:2389:A:H5"	32:Ld:70:LYS:HE3	1.66	0.78
1:L5:3772:U:H5"	1:L5:3773:U:H5'	1.64	0.78
1:L5:4872:G:C3'	1:L5:4873:G:H5"	2.09	0.78
1:L5:4988:U:H5'	1:L5:5061:A:N7	1.97	0.78
1:L5:5027:C:H1'	1:L5:5028:G:C5'	2.13	0.78
2:L7:30:C:C3'	2:L7:31:G:H5"	2.14	0.78
4:LA:7:GLY:HA2	4:LA:10:LYS:HB2	1.66	0.78
4:LA:57:PRO:HG2	4:LA:78:ALA:HB3	1.66	0.78
14:LL:203:ALA:HB1	14:LL:207:VAL:HG23	1.65	0.78
23:LU:87:THR:HG22	23:LU:102:VAL:HG21	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:LW:82:ILE:O	25:LW:86:SER:OG	2.01	0.78
25:LW:112:ALA:O	25:LW:116:LYS:N	2.15	0.78
39:Lk:49:ASP:CB	39:Lk:52:LYS:HE3	2.12	0.78
47:S2:47:G:C2'	47:S2:48:C:H5'	2.14	0.78
47:S2:71:G:H3'	47:S2:72:C:H5"	1.64	0.78
47:S2:1417:C:OP2	47:S2:1419:C:N4	2.16	0.78
68:Sg:147:HIS:CE1	68:Sg:169:GLY:HA3	2.18	0.78
1:L5:909:A:C2	1:L5:910:G:H1'	2.19	0.78
1:L5:1295:C:O2	1:L5:1296:G:N2	2.17	0.78
1:L5:2007:G:H1'	1:L5:2008:U:C5	2.17	0.78
3:L8:126:C:C2	3:L8:127:U:H1'	2.19	0.78
5:LB:10:ARG:NH1	5:LB:265:SER:O	2.17	0.78
16:LN:159:ARG:HG3	16:LN:164:LEU:HD12	1.66	0.78
38:Lj:27:TYR:HD1	38:Lj:34:CYS:HB2	1.49	0.78
44:Lp:7:LYS:O	44:Lp:27:LYS:NZ	2.17	0.78
47:S2:72:C:OP1	47:S2:73:C:N4	2.17	0.78
47:S2:1170:A:N6	47:S2:1189:A:OP2	2.17	0.78
47:S2:1407:U:H2'	47:S2:1408:U:C6	2.19	0.78
48:SA:50:ASN:HA	59:SR:105:MET:SD	2.24	0.78
53:SH:145:ARG:NE	75:SW:51:GLU:OE2	2.17	0.78
59:SR:44:LYS:HG3	59:SR:47:ARG:HH22	1.49	0.78
1:L5:3706:C:O2'	4:LA:239:ALA:O	2.02	0.78
1:L5:4769:G:H2'	1:L5:4770:U:H5"	1.66	0.78
2:L7:6:C:H5"	7:LD:54:ARG:HH21	1.49	0.78
2:L7:54:A:O2'	13:LJ:155:HIS:NE2	2.16	0.78
5:LB:398:ALA:HA	5:LB:401:GLU:HG2	1.65	0.78
24:LV:120:PRO:HA	24:LV:138:SER:HB2	1.66	0.78
47:S2:1608:U:H2'	47:S2:1609:C:H5'	1.64	0.78
51:SE:191:ARG:HH11	51:SE:245:ARG:HD2	1.46	0.78
53:SH:160:LYS:O	53:SH:163:GLN:HG3	1.84	0.78
56:SL:111:VAL:CG1	56:SL:142:VAL:HG23	2.13	0.78
70:SG:14:LYS:HB3	70:SG:124:LEU:HD21	1.66	0.78
79:Se:39:ASN:HA	79:Se:43:VAL:HG21	1.66	0.78
1:L5:4120:U:H3'	1:L5:4121:G:H5"	1.64	0.78
1:L5:4683:U:OP2	1:L5:4706:G:N1	2.14	0.78
7:LD:119:TYR:OH	7:LD:135:ILE:N	2.14	0.78
9:LF:225:THR:HG23	9:LF:231:GLY:CA	2.13	0.78
47:S2:71:G:HO2'	47:S2:73:C:H41	1.31	0.78
50:SD:108:LYS:CE	50:SD:118:ALA:HA	2.14	0.78
51:SE:87:MET:HB3	51:SE:100:ARG:NH2	1.99	0.78
52:SF:22:LYS:CD	52:SF:23:TRP:HA	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:SF:121:PRO:HG2	52:SF:196:LEU:CD2	2.14	0.78
53:SH:160:LYS:HD3	53:SH:190:PRO:O	1.83	0.78
68:Sg:88:ARG:NH1	68:Sg:100:ARG:HB3	1.97	0.78
70:SG:54:GLY:O	70:SG:110:ASN:ND2	2.16	0.78
70:SG:66:GLY:N	70:SG:100:CYS:SG	2.56	0.78
1:L5:718:C:O2'	1:L5:719:C:H5'	1.84	0.77
1:L5:982:U:H2'	1:L5:983:C:C6	2.19	0.77
1:L5:2268:A:O2'	19:LQ:30:LYS:NZ	2.17	0.77
1:L5:2739:C:C5	4:LA:179:ILE:HG22	2.19	0.77
1:L5:4291:G:O6	1:L5:4318:C:N4	2.16	0.77
5:LB:56:ILE:HG22	5:LB:368:ILE:HD12	1.66	0.77
9:LF:92:VAL:CG2	9:LF:140:ILE:HD13	2.15	0.77
47:S2:155:G:H4'	70:SG:15:LEU:CD1	2.14	0.77
47:S2:1427:C:H3'	47:S2:1428:G:H5"	1.64	0.77
51:SE:180:LEU:HB3	51:SE:194:VAL:HA	1.64	0.77
53:SH:65:PRO:HA	53:SH:97:GLN:HG2	1.66	0.77
58:SQ:132:PHE:CD1	62:SU:77:TRP:HB2	2.19	0.77
61:ST:9:VAL:HG21	61:ST:138:VAL:CG2	2.14	0.77
68:Sg:146:SER:HA	68:Sg:175:LYS:HE2	1.64	0.77
68:Sg:300:ALA:HB2	68:Sg:310:TRP:HZ3	1.50	0.77
72:SM:42:LEU:HD21	72:SM:72:HIS:CD2	2.19	0.77
1:L5:178:C:O2'	1:L5:258:G:N2	2.17	0.77
1:L5:4499:G:H3'	1:L5:4500:U:H5"	1.67	0.77
3:L8:37:A:H4'	3:L8:38:U:C5'	2.14	0.77
5:LB:10:ARG:CZ	5:LB:14:LEU:HD11	2.14	0.77
5:LB:163:ILE:CG1	5:LB:182:GLU:HG2	2.14	0.77
9:LF:184:ILE:HD11	9:LF:193:GLU:HG3	1.65	0.77
15:LM:64:PHE:CE2	15:LM:73:VAL:HG23	2.20	0.77
16:LN:6:TYR:HD1	37:Li:40:VAL:HG13	1.46	0.77
29:La:100:ILE:HD13	29:La:123:ILE:HB	1.65	0.77
47:S2:831:G:N1	47:S2:844:U:O2	2.12	0.77
47:S2:1809:A:H2'	47:S2:1810:U:C6	2.19	0.77
48:SA:206:ASP:HB3	48:SA:208:GLU:HG2	1.64	0.77
73:SN:98:VAL:CG1	73:SN:115:LEU:HD13	2.15	0.77
74:SO:27:VAL:CG2	74:SO:90:ILE:HA	2.13	0.77
77:SZ:62:VAL:HA	77:SZ:65:TYR:CE2	2.19	0.77
1:L5:395:A:H2'	1:L5:396:A:H8	1.48	0.77
1:L5:658:C:H2'	1:L5:659:G:H8	1.50	0.77
1:L5:914:U:H2'	1:L5:915:A:H1'	1.66	0.77
1:L5:1424:G:H1'	30:Lb:29:TYR:HE2	1.48	0.77
1:L5:1811:G:O2'	30:Lb:57:MET:SD	2.39	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4631:G:N1	1:L5:4668:U:O2	2.17	0.77
6:LC:260:LEU:HD23	6:LC:263:LEU:HD12	1.66	0.77
20:LR:23:TRP:CE3	20:LR:51:ILE:HD13	2.19	0.77
25:LW:83:THR:HG23	70:SG:131:ARG:NH2	1.99	0.77
47:S2:819:G:H2'	47:S2:820:U:C6	2.20	0.77
47:S2:1349:G:H1	47:S2:1380:C:H42	1.32	0.77
47:S2:1601:A:O4'	47:S2:1636:G:N2	2.17	0.77
52:SF:29:GLN:HA	52:SF:42:LYS:NZ	2.00	0.77
55:SK:38:LYS:CG	55:SK:40:VAL:HG13	2.14	0.77
68:Sg:198:VAL:CA	68:Sg:209:SER:HB3	2.14	0.77
69:SC:265:PRO:O	69:SC:269:PHE:N	2.18	0.77
1:L5:922:C:OP1	21:LS:74:ARG:NH2	2.17	0.77
1:L5:1252:C:O2	1:L5:1258:G:N1	2.17	0.77
1:L5:1949:U:H4'	11:LH:65:LYS:HD2	1.67	0.77
6:LC:287:THR:HG21	45:Lr:5:LEU:HB2	1.66	0.77
10:LG:82:GLN:N	10:LG:82:GLN:OE1	2.17	0.77
21:LS:132:ILE:HG22	21:LS:133:ALA:O	1.84	0.77
47:S2:1537:A:H5"	61:ST:84:ARG:HH12	1.47	0.77
55:SK:11:ILE:HD13	55:SK:45:VAL:HG11	1.67	0.77
56:SL:111:VAL:HG11	56:SL:142:VAL:HG23	1.67	0.77
68:Sg:259:TRP:HD1	68:Sg:266:ILE:HG22	1.49	0.77
1:L5:2251:G:H4'	1:L5:2252:G:H4'	1.66	0.77
1:L5:4413:C:H4'	12:LI:157:PHE:CD2	2.20	0.77
6:LC:138:MET:HE1	6:LC:145:GLU:HG3	1.66	0.77
16:LN:115:VAL:CG1	16:LN:160:GLU:HB3	2.11	0.77
25:LW:82:ILE:HB	70:SG:130:PRO:HB2	1.66	0.77
36:Lh:73:TYR:HD1	36:Lh:76:LYS:HG3	1.48	0.77
46:Lz:25:ARG:HH21	46:Lz:212:LYS:HB3	1.50	0.77
47:S2:191:A:N6	47:S2:208:G:O2'	2.17	0.77
47:S2:1016:U:C6	73:SN:17:PRO:HG3	2.20	0.77
47:S2:1308:U:O3'	80:Sf:118:ARG:NH1	2.17	0.77
47:S2:1743:G:H2'	47:S2:1744:G:H5'	1.67	0.77
49:SB:224:GLU:HB3	49:SB:227:LYS:HB2	1.67	0.77
68:Sg:107:ASP:HB3	68:Sg:125:ARG:HD2	1.65	0.77
70:SG:48:TYR:CE1	70:SG:115:LYS:HB3	2.20	0.77
72:SM:24:THR:HG22	72:SM:31:LEU:CD1	2.12	0.77
1:L5:682:G:H2'	1:L5:683:C:H5'	1.64	0.77
1:L5:929:A:H2'	1:L5:930:G:C2'	2.14	0.77
1:L5:1271:G:H3'	1:L5:1271:G:N3	1.98	0.77
1:L5:4622:A:H4'	5:LB:13:SER:HB2	1.67	0.77
3:L8:118:C:N4	3:L8:132:G:O6	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LC:224:ILE:HB	6:LC:227:ILE:CG2	2.14	0.77
7:LD:66:TYR:HE2	7:LD:68:ARG:HE	1.33	0.77
7:LD:178:LYS:HE3	7:LD:179:ARG:NH1	1.99	0.77
8:LE:178:PRO:HD2	8:LE:181:LEU:CD1	2.15	0.77
47:S2:813:A:O3'	51:SE:22:LYS:NZ	2.18	0.77
47:S2:947:G:H2'	47:S2:948:C:H6	1.50	0.77
51:SE:248:ILE:HD12	51:SE:249:ALA:N	1.98	0.77
70:SG:130:PRO:CB	70:SG:131:ARG:HG3	2.15	0.77
1:L5:132:G:H3'	1:L5:133:C:H5"	1.66	0.77
1:L5:986:C:H2'	1:L5:987:C:C6	2.19	0.77
1:L5:1681:G:H21	29:La:40:HIS:HB2	1.49	0.77
1:L5:1916:G:OP2	17:LO:25:LYS:NZ	2.18	0.77
1:L5:2704:C:N4	1:L5:2712:G:O6	2.18	0.77
1:L5:4762:A:H1'	21:LS:174:THR:HG21	1.66	0.77
2:L7:6:C:H5"	7:LD:54:ARG:NH2	1.99	0.77
47:S2:462:C:H2'	47:S2:463:C:H5"	1.65	0.77
47:S2:551:U:H2'	47:S2:552:G:C8	2.19	0.77
47:S2:656:G:O2'	69:SC:227:ARG:NH2	2.18	0.77
47:S2:1741:U:OP1	54:SI:42:ARG:NH1	2.18	0.77
56:SL:151:THR:H	56:SL:153:LYS:HZ3	1.33	0.77
57:SP:30:TYR:CD1	57:SP:33:LEU:HD21	2.20	0.77
57:SP:73:PRO:CB	57:SP:74:GLU:HB2	2.15	0.77
68:Sg:248:LEU:HB3	68:Sg:259:TRP:H	1.47	0.77
1:L5:113:A:H2'	1:L5:114:G:O4'	1.84	0.77
1:L5:114:G:OP1	16:LN:49:ARG:NH1	2.17	0.77
1:L5:1338:G:H1	29:La:25:HIS:CD2	2.02	0.77
1:L5:1833:G:N7	22:LT:116:LYS:HG3	1.99	0.77
1:L5:2858:A:H2'	1:L5:2859:G:H5'	1.66	0.77
1:L5:3865:A:N6	1:L5:3880:G:O6	2.18	0.77
1:L5:4654:C:H2'	1:L5:4655:A:H5'	1.67	0.77
14:LL:161:TYR:CG	29:La:105:ARG:HD2	2.19	0.77
15:LM:39:ASP:OD2	15:LM:70:GLN:HG2	1.84	0.77
18:LP:13:LYS:HD3	18:LP:152:GLU:HB3	1.65	0.77
39:Lk:11:PHE:O	39:Lk:14:THR:HG22	1.84	0.77
48:SA:111:GLN:HE21	48:SA:112:ILE:HD11	1.48	0.77
51:SE:71:LYS:HB3	51:SE:76:VAL:HA	1.67	0.77
52:SF:127:ARG:CG	66:Sc:68:LEU:HD23	2.15	0.77
62:SU:32:LEU:O	62:SU:36:CYS:N	2.16	0.77
64:SX:125:VAL:CG1	64:SX:130:LEU:HD13	2.15	0.77
1:L5:418:A:H62	3:L8:16:G:H1'	1.50	0.77
1:L5:450:G:N2	1:L5:452:A:O4'	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2051:C:O2'	17:LO:86:GLY:HA3	1.85	0.77
1:L5:2264:C:O2	45:Lr:112:ARG:NH1	2.17	0.77
1:L5:2613:C:C2'	1:L5:2614:C:H5'	2.13	0.77
1:L5:2699:C:OP1	20:LR:16:ARG:NH1	2.18	0.77
3:L8:127:U:H2'	3:L8:128:C:C5'	2.14	0.77
8:LE:277:LEU:HD12	8:LE:281:ILE:HD11	1.65	0.77
38:Lj:76:HIS:HB3	38:Lj:79:ARG:NH2	1.99	0.77
42:Ln:21:ARG:CD	47:S2:1717:C:O3'	2.26	0.77
47:S2:306:C:H5"	47:S2:307:G:C5	2.20	0.77
47:S2:317:C:H5"	70:SG:183:ARG:NH2	2.00	0.77
47:S2:924:G:H2'	47:S2:925:G:H8	1.50	0.77
64:SX:81:ILE:HD12	64:SX:120:PHE:CD2	2.20	0.77
68:Sg:206:LEU:HA	68:Sg:219:TRP:O	1.85	0.77
70:SG:213:LEU:HA	70:SG:216:ARG:HB3	1.65	0.77
71:SJ:176:LYS:O	71:SJ:180:LYS:N	2.18	0.77
72:SM:21:VAL:HB	72:SM:111:VAL:HG22	1.66	0.77
72:SM:24:THR:CG2	72:SM:31:LEU:HD11	2.14	0.77
1:L5:213:G:H2'	1:L5:214:G:H8	1.48	0.77
1:L5:1249:C:N3	1:L5:1261:G:N1	2.32	0.77
1:L5:1801:A:H2'	1:L5:1802:A:C8	2.20	0.77
1:L5:2350:U:H5"	1:L5:2351:C:H5"	1.67	0.77
1:L5:2693:G:OP2	39:Lk:33:LYS:NZ	2.14	0.77
1:L5:4758:U:H2'	1:L5:4759:C:C5'	2.15	0.77
1:L5:4767:C:N3	1:L5:4867:G:N2	2.30	0.77
1:L5:4770:U:H4'	1:L5:4771:C:C5	2.19	0.77
1:L5:4903:G:H2'	1:L5:4904:G:O4'	1.84	0.77
6:LC:67:TRP:CD1	6:LC:71:ARG:HD2	2.20	0.77
10:LG:150:LYS:HE2	10:LG:177:MET:HA	1.65	0.77
11:LH:23:ARG:HH21	11:LH:39:ASN:HA	1.49	0.77
21:LS:154:LEU:HD13	21:LS:157:ARG:HH22	1.48	0.77
47:S2:816:A:H2'	47:S2:817:G:C5'	2.15	0.77
48:SA:60:LEU:HG	48:SA:159:ILE:HD13	1.67	0.77
68:Sg:108:VAL:HA	68:Sg:125:ARG:H	1.50	0.77
74:SO:54:CYS:SG	74:SO:81:VAL:HG13	2.25	0.77
1:L5:500:G:H5'	1:L5:501:C:N1	2.00	0.76
1:L5:705:G:O6	1:L5:1292:C:N4	2.17	0.76
1:L5:709:C:H2'	1:L5:710:G:H8	1.48	0.76
1:L5:1866:U:O2'	1:L5:1867:A:O5'	2.02	0.76
1:L5:2113:G:N2	1:L5:2115:G:H5'	2.00	0.76
1:L5:3934:G:H2'	1:L5:3935:C:C6	2.20	0.76
1:L5:4770:U:H4'	1:L5:4771:C:H5	1.47	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4937:C:C5'	8:LE:183:ARG:HD2	2.15	0.76
9:LF:197:VAL:HG22	9:LF:198:GLY:H	1.51	0.76
21:LS:81:TRP:CE3	21:LS:128:LYS:HE3	2.20	0.76
27:LY:109:LEU:HD12	27:LY:110:LYS:N	2.00	0.76
32:Ld:87:ARG:HB2	32:Ld:109:VAL:CG2	2.15	0.76
47:S2:1014:G:H2'	47:S2:1015:U:C6	2.20	0.76
47:S2:1618:C:OP1	67:Sd:13:LYS:NZ	2.14	0.76
51:SE:259:LYS:CA	51:SE:262:SER:HB2	2.11	0.76
56:SL:151:THR:OG1	56:SL:153:LYS:NZ	2.17	0.76
60:SS:14:ARG:NH1	60:SS:17:ASN:O	2.18	0.76
60:SS:122:GLY:O	60:SS:126:PHE:N	2.18	0.76
68:Sg:258:ILE:HD13	68:Sg:269:GLU:CA	2.14	0.76
78:Sb:37:CYS:HB3	78:Sb:38:PRO:HD2	1.65	0.76
1:L5:113:A:OP2	1:L5:156:G:N2	2.14	0.76
1:L5:962:C:H4'	1:L5:2264:C:N3	2.00	0.76
1:L5:1251:C:O2'	1:L5:1259:G:N2	2.15	0.76
1:L5:2255:C:H3'	1:L5:2256:C:H4'	1.68	0.76
1:L5:2503:G:N3	1:L5:2505:C:N4	2.33	0.76
1:L5:4762:A:H1'	21:LS:174:THR:CG2	2.15	0.76
10:LG:118:ALA:HA	10:LG:121:LYS:HB2	1.65	0.76
18:LP:4:TYR:CE2	18:LP:16:LYS:HD3	2.21	0.76
25:LW:83:THR:HA	70:SG:131:ARG:CB	2.14	0.76
31:Lc:26:LYS:H	31:Lc:98:ASP:HB3	1.48	0.76
47:S2:795:A:C8	47:S2:797:C:H5"	2.19	0.76
54:SI:193:LYS:HG3	56:SL:32:LYS:HZ1	1.50	0.76
70:SG:48:TYR:OH	70:SG:114:VAL:N	2.18	0.76
76:SY:104:ARG:O	76:SY:107:ARG:HG2	1.84	0.76
1:L5:668:C:C2'	1:L5:669:C:H5"	2.14	0.76
1:L5:1372:A:H2'	1:L5:1373:A:H5'	1.68	0.76
1:L5:1403:G:N1	1:L5:1414:C:O2	2.18	0.76
1:L5:1946:G:O2'	1:L5:1948:G:OP1	2.03	0.76
1:L5:2103:G:H2'	1:L5:2104:G:C8	2.21	0.76
1:L5:2447:U:O2	1:L5:2511:A:N6	2.18	0.76
1:L5:2654:C:H42	1:L5:2680:G:H1	1.32	0.76
1:L5:4703:U:H2'	1:L5:4704:C:H5'	1.68	0.76
1:L5:4863:G:H5'	1:L5:4864:U:C5	2.21	0.76
12:LI:38:ARG:HE	12:LI:41:ALA:HB2	1.49	0.76
19:LQ:63:LEU:HB3	19:LQ:88:ASP:HA	1.66	0.76
21:LS:165:PRO:HG2	21:LS:168:THR:CG2	2.15	0.76
47:S2:65:C:H1'	70:SG:172:LYS:CE	2.15	0.76
47:S2:91:A:OP1	47:S2:446:G:N2	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:818:A:H1'	47:S2:847:A:N6	2.01	0.76
47:S2:840:C:H4'	76:SY:12:PHE:HE2	1.51	0.76
47:S2:886:A:H2'	47:S2:887:U:H5"	1.67	0.76
47:S2:1241:A:H3'	47:S2:1242:U:H5"	1.67	0.76
47:S2:1332:A:H2'	50:SD:141:LYS:NZ	1.99	0.76
47:S2:1350:U:O4	47:S2:1361:G:N2	2.18	0.76
53:SH:98:ARG:HG3	53:SH:125:VAL:HG11	1.66	0.76
55:SK:35:LEU:HD11	55:SK:38:LYS:HB2	1.67	0.76
61:ST:108:GLU:HB2	61:ST:113:VAL:HG12	1.67	0.76
62:SU:19:ARG:H	62:SU:117:ALA:HB2	1.49	0.76
62:SU:33:GLU:HA	62:SU:36:CYS:SG	2.25	0.76
69:SC:180:VAL:HG13	69:SC:181:PRO:HD2	1.67	0.76
1:L5:1631:A:C8	4:LA:199:VAL:HG11	2.20	0.76
1:L5:2472:A:OP2	10:LG:59:ARG:HG3	1.85	0.76
1:L5:4892:A:N6	1:L5:4927:G:O6	2.15	0.76
6:LC:353:LYS:HA	6:LC:356:ALA:HB3	1.68	0.76
32:Ld:33:ILE:HD11	32:Ld:44:ARG:HB3	1.67	0.76
47:S2:437:G:N2	47:S2:1801:A:OP1	2.19	0.76
47:S2:942:G:N3	47:S2:985:G:N2	2.34	0.76
47:S2:1140:G:O2'	47:S2:1141:G:H5'	1.86	0.76
52:SF:97:PHE:CZ	52:SF:112:LEU:HD22	2.19	0.76
60:SS:48:ALA:HB1	60:SS:50:ILE:HG23	1.67	0.76
68:Sg:109:LEU:HD23	68:Sg:110:SER:N	2.01	0.76
1:L5:1389:U:O2'	1:L5:1469:C:O2	2.02	0.76
1:L5:1402:C:O2	1:L5:1415:G:N1	2.17	0.76
1:L5:1767:A:H2'	1:L5:1769:G:H4'	1.66	0.76
1:L5:2338:C:OP1	45:Lr:19:LYS:NZ	2.17	0.76
1:L5:4301:U:H4'	22:LT:54:HIS:NE2	2.00	0.76
6:LC:60:HIS:CE1	6:LC:100:ARG:HD3	2.20	0.76
7:LD:211:LEU:CD1	7:LD:219:TYR:HA	2.14	0.76
8:LE:164:PHE:HE1	8:LE:173:LEU:HD22	1.48	0.76
47:S2:636:C:P	79:Se:21:LYS:HG3	2.25	0.76
49:SB:86:LEU:HD23	49:SB:100:PHE:HA	1.68	0.76
61:ST:18:LEU:HA	61:ST:134:ILE:HD12	1.67	0.76
62:SU:19:ARG:HA	62:SU:92:HIS:HA	1.67	0.76
70:SG:48:TYR:CD1	70:SG:115:LYS:HB3	2.20	0.76
1:L5:185:C:H2'	1:L5:186:G:H5"	1.66	0.76
1:L5:467:U:H3'	1:L5:468:U:H5"	1.66	0.76
1:L5:1577:G:H5'	1:L5:1578:U:H5"	1.67	0.76
8:LE:162:VAL:HG13	8:LE:177:GLY:N	2.01	0.76
8:LE:179:LEU:CD1	8:LE:183:ARG:HA	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:254:ASP:HA	8:LE:257:ILE:CG2	2.15	0.76
12:LI:85:PHE:HE2	12:LI:87:MET:HE2	1.47	0.76
38:Lj:31:LYS:HE3	38:Lj:33:THR:HG23	1.68	0.76
45:Lr:90:LEU:CD1	45:Lr:111:ILE:HG23	2.15	0.76
47:S2:946:U:H2'	47:S2:947:G:C8	2.21	0.76
47:S2:1316:C:H2'	47:S2:1318:G:N7	1.99	0.76
53:SH:148:LEU:HA	75:SW:42:MET:HE3	1.67	0.76
55:SK:79:LEU:HG	55:SK:82:TYR:CE2	2.20	0.76
59:SR:70:SER:HB3	59:SR:73:LEU:HB2	1.68	0.76
59:SR:77:GLU:O	59:SR:81:ARG:N	2.18	0.76
68:Sg:122:SER:CB	68:Sg:129:ILE:HA	2.14	0.76
73:SN:56:ASP:OD1	73:SN:57:SER:N	2.16	0.76
1:L5:704:C:N4	1:L5:705:G:O6	2.19	0.76
1:L5:1269:G:H21	1:L5:1270:A:H61	1.31	0.76
1:L5:1633:G:C6	4:LA:207:VAL:HG21	2.21	0.76
1:L5:3971:G:O2'	1:L5:4050:A:N6	2.19	0.76
2:L7:8:G:OP2	2:L7:10:C:N4	2.18	0.76
9:LF:162:ILE:HD11	9:LF:167:ILE:HG13	1.68	0.76
11:LH:82:LYS:HE2	11:LH:186:THR:HG21	1.66	0.76
18:LP:24:VAL:HG12	18:LP:86:LYS:HE2	1.66	0.76
19:LQ:79:THR:HB	19:LQ:136:THR:CG2	2.10	0.76
21:LS:28:TYR:HD1	22:LT:149:GLU:HB3	1.49	0.76
29:La:19:HIS:ND1	29:La:25:HIS:CD2	2.53	0.76
35:Lg:51:GLY:O	35:Lg:53:LEU:N	2.18	0.76
48:SA:110:ASN:O	48:SA:112:ILE:N	2.18	0.76
50:SD:106:ARG:HG3	50:SD:175:VAL:HG12	1.67	0.76
53:SH:60:ILE:O	53:SH:92:VAL:HA	1.86	0.76
71:SJ:107:GLU:O	71:SJ:116:LYS:NZ	2.18	0.76
72:SM:22:LEU:O	72:SM:26:LEU:HG	1.85	0.76
1:L5:1566:C:H2'	1:L5:1567:U:C6	2.21	0.76
1:L5:1820:C:H5'	7:LD:139:PRO:CB	2.15	0.76
1:L5:3607:U:H2'	1:L5:3608:A:H8	1.51	0.76
1:L5:3661:G:H5'	1:L5:3682:A:H61	1.51	0.76
1:L5:3867:A:H2	1:L5:3880:G:C6	2.03	0.76
2:L7:31:G:H1'	2:L7:47:G:H22	1.48	0.76
8:LE:133:PHE:HA	8:LE:136:HIS:CE1	2.21	0.76
10:LG:88:ASP:OD1	10:LG:91:THR:OG1	2.04	0.76
13:LJ:18:ARG:HD3	13:LJ:133:VAL:HG12	1.68	0.76
33:Le:75:ARG:HB2	33:Le:95:TYR:CD1	2.20	0.76
46:Lz:116:LEU:HD23	46:Lz:120:ILE:HB	1.67	0.76
47:S2:194:C:C2'	47:S2:195:C:H5'	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1156:U:H5'	75:SW:71:LYS:HE2	1.68	0.76
47:S2:1309:C:H5'	80:Sf:131:PHE:HB2	1.68	0.76
47:S2:1721:U:H3'	47:S2:1722:G:C5'	2.09	0.76
48:SA:176:TRP:HB2	48:SA:202:TYR:CE2	2.21	0.76
50:SD:58:VAL:HG23	50:SD:59:LEU:CD1	2.16	0.76
53:SH:116:ARG:NH2	53:SH:121:THR:OG1	2.18	0.76
53:SH:147:LYS:HE3	53:SH:151:SER:CB	2.16	0.76
70:SG:55:GLY:H	70:SG:63:MET:CG	1.98	0.76
74:SO:44:VAL:CG2	74:SO:81:VAL:HG11	2.16	0.76
75:SW:57:ARG:NH1	78:Sb:26:GLN:HG3	2.01	0.76
78:Sb:36:LYS:HB2	78:Sb:78:SER:HB2	1.67	0.76
1:L5:220:C:H42	1:L5:237:G:H1	1.33	0.76
1:L5:987:C:H42	1:L5:1066:G:H22	1.32	0.76
1:L5:1273:G:H1'	8:LE:73:TYR:HB2	1.67	0.76
1:L5:1663:C:N4	1:L5:2286:G:O6	2.18	0.76
1:L5:1766:A:H3'	1:L5:1767:A:H5'	1.68	0.76
1:L5:3634:G:H2'	1:L5:3635:A:H4'	1.66	0.76
2:L7:11:A:O2'	2:L7:12:U:H3'	1.86	0.76
16:LN:68:ARG:NH1	16:LN:124:ASP:O	2.18	0.76
24:LV:70:PRO:CG	47:S2:1724:A:H5'	2.14	0.76
25:LW:96:GLN:HG2	25:LW:101:ARG:HD2	1.68	0.76
46:Lz:67:VAL:HA	46:Lz:68:LEU:HD23	1.68	0.76
47:S2:1516:G:C2	47:S2:1517:G:H1'	2.21	0.76
47:S2:1692:U:H2'	47:S2:1693:G:H5'	1.66	0.76
48:SA:176:TRP:HB2	48:SA:202:TYR:CD2	2.20	0.76
51:SE:259:LYS:O	51:SE:263:GLY:N	2.19	0.76
58:SQ:32:ILE:CG2	58:SQ:60:LYS:HE3	2.15	0.76
61:ST:30:VAL:HG21	61:ST:53:PHE:CE1	2.21	0.76
71:SJ:111:GLN:NE2	71:SJ:127:ARG:HB2	2.00	0.76
76:SY:79:LEU:HD12	76:SY:82:ALA:HB3	1.65	0.76
1:L5:148:C:OP2	10:LG:197:LYS:NZ	2.15	0.76
1:L5:1077:C:H1'	1:L5:1234:G:H22	1.50	0.76
1:L5:1176:C:O2	7:LD:282:GLN:NE2	2.18	0.76
1:L5:2631:U:H1'	23:LU:82:TYR:CD1	2.21	0.76
1:L5:4207:C:OP2	22:LT:4:THR:OG1	2.02	0.76
1:L5:4894:A:N7	1:L5:4895:C:N4	2.33	0.76
7:LD:122:GLN:O	7:LD:248:ARG:NH2	2.19	0.76
13:LJ:18:ARG:HD3	13:LJ:133:VAL:CG1	2.16	0.76
31:Lc:79:ILE:HG12	31:Lc:90:ARG:HG2	1.68	0.76
42:Ln:21:ARG:HD2	47:S2:1717:C:O3'	1.85	0.76
47:S2:1623:A:H3'	47:S2:1623:A:N3	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1677:U:OP2	52:SF:63:LYS:NZ	2.16	0.76
48:SA:126:ASP:OD2	48:SA:129:ALA:N	2.15	0.76
53:SH:133:LEU:HD11	53:SH:177:TYR:HB2	1.67	0.76
59:SR:86:PRO:HG2	59:SR:88:VAL:O	1.85	0.76
70:SG:37:ALA:N	70:SG:49:VAL:HG12	2.00	0.76
71:SJ:38:ARG:HB2	71:SJ:127:ARG:HH12	1.49	0.76
79:Se:39:ASN:HA	79:Se:43:VAL:CG2	2.16	0.76
1:L5:1168:G:N3	1:L5:1168:G:H2'	2.01	0.75
1:L5:1242:G:O6	1:L5:1270:A:N6	2.18	0.75
1:L5:1258:G:H2'	1:L5:1259:G:C8	2.20	0.75
1:L5:1288:G:N7	8:LE:132:PRO:HG3	2.02	0.75
1:L5:1749:A:O2'	12:LI:35:ASP:OD2	2.02	0.75
1:L5:1758:G:N2	1:L5:1773:U:O4	2.20	0.75
1:L5:2115:G:O2'	1:L5:2117:G:O4'	2.04	0.75
1:L5:2327:G:N2	1:L5:2328:G:H1'	2.00	0.75
1:L5:3910:C:O2'	1:L5:4196:G:N2	2.19	0.75
1:L5:3975:C:N4	1:L5:4034:G:OP2	2.19	0.75
6:LC:284:MET:SD	19:LQ:28:LEU:HD21	2.26	0.75
13:LJ:99:PHE:HD2	13:LJ:163:MET:HG2	1.49	0.75
16:LN:38:ARG:HB2	16:LN:62:TYR:CE1	2.21	0.75
25:LW:80:ARG:HG2	70:SG:131:ARG:NH1	2.02	0.75
47:S2:809:A:H3'	47:S2:810:A:H5"	1.67	0.75
47:S2:874:G:H3'	47:S2:875:A:H8	1.51	0.75
47:S2:1518:C:H5"	47:S2:1519:U:H5"	1.67	0.75
53:SH:50:GLU:HA	53:SH:60:ILE:HA	1.67	0.75
55:SK:35:LEU:HD12	55:SK:38:LYS:H	1.49	0.75
57:SP:51:ARG:HA	57:SP:54:HIS:ND1	2.00	0.75
58:SQ:135:PRO:CD	58:SQ:141:TYR:HB2	2.16	0.75
74:SO:35:ALA:HB2	74:SO:112:ALA:HB2	1.67	0.75
77:SZ:68:ILE:CB	77:SZ:109:TYR:HB2	2.16	0.75
1:L5:1182:C:C3'	1:L5:1183:C:H5'	2.17	0.75
1:L5:2252:G:O2'	1:L5:2253:A:H3'	1.86	0.75
1:L5:2341:A:OP2	29:La:4:ARG:NH2	2.15	0.75
1:L5:2767:U:H3'	1:L5:2769:U:C4	2.20	0.75
1:L5:4939:C:OP2	8:LE:219:LYS:NZ	2.17	0.75
3:L8:143:G:H2'	3:L8:144:U:H6	1.50	0.75
7:LD:178:LYS:O	7:LD:179:ARG:NH2	2.17	0.75
15:LM:95:ILE:O	15:LM:97:ALA:N	2.19	0.75
23:LU:26:THR:HA	23:LU:30:GLU:HG2	1.68	0.75
26:LX:78:LYS:HE3	26:LX:100:VAL:C	2.11	0.75
1:L5:1594:C:O2	1:L5:1599:A:N6	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1974:U:H4'	1:L5:1975:G:H2'	1.66	0.75
1:L5:2613:C:H2'	1:L5:2614:C:H5'	1.68	0.75
1:L5:4237:C:H2'	1:L5:4238:G:H8	1.49	0.75
7:LD:223:PHE:HB3	7:LD:226:TYR:CD2	2.22	0.75
9:LF:137:GLU:OE2	9:LF:234:GLY:HA3	1.87	0.75
16:LN:73:ARG:HH21	16:LN:92:LEU:HD21	1.51	0.75
20:LR:102:LEU:HD11	20:LR:127:VAL:HG13	1.68	0.75
21:LS:83:ARG:NH1	21:LS:125:GLN:OE1	2.19	0.75
35:Lg:61:PRO:HA	35:Lg:64:LEU:HD13	1.68	0.75
47:S2:355:G:OP2	56:SL:107:LYS:NZ	2.18	0.75
47:S2:1596:U:O2'	47:S2:1603:G:N2	2.18	0.75
54:SI:106:SER:CB	54:SI:169:GLY:HA2	2.16	0.75
58:SQ:96:TYR:HB3	58:SQ:104:SER:HB3	1.68	0.75
68:Sg:258:ILE:HG23	68:Sg:267:VAL:HG12	1.68	0.75
1:L5:1077:C:O2	1:L5:1233:G:N2	2.16	0.75
1:L5:1461:C:H2'	1:L5:1462:A:H5'	1.68	0.75
1:L5:1491:A:H2'	1:L5:1492:G:C8	2.22	0.75
1:L5:1838:A:O2'	1:L5:1839:U:H5'	1.86	0.75
1:L5:2301:G:H2'	1:L5:2302:C:C6	2.21	0.75
1:L5:2373:C:H4'	32:Ld:64:ILE:CD1	2.16	0.75
1:L5:2700:G:H2'	1:L5:2701:U:O4'	1.86	0.75
1:L5:3610:A:H2'	1:L5:3611:A:C8	2.21	0.75
1:L5:3745:U:O2'	4:LA:243:THR:O	2.05	0.75
1:L5:4901:G:N2	1:L5:4921:C:H1'	2.01	0.75
3:L8:123:U:H3'	3:L8:124:U:O4'	1.86	0.75
21:LS:28:TYR:CD1	22:LT:149:GLU:HB3	2.22	0.75
43:Lo:97:LYS:HE3	43:Lo:99:ARG:HH21	1.50	0.75
46:Lz:111:LEU:CD1	46:Lz:142:GLU:HA	2.17	0.75
47:S2:65:C:N4	70:SG:134:GLY:O	2.19	0.75
47:S2:65:C:O3'	70:SG:172:LYS:NZ	2.15	0.75
47:S2:291:G:H4'	47:S2:292:A:OP1	1.87	0.75
47:S2:687:C:OP2	75:SW:32:LYS:NZ	2.14	0.75
47:S2:1159:G:OP2	64:SX:5:ARG:NH2	2.19	0.75
47:S2:1607:A:C2	47:S2:1608:U:H1'	2.21	0.75
53:SH:12:ASN:OD1	53:SH:13:GLY:N	2.20	0.75
54:SI:110:ARG:NH1	54:SI:121:LEU:O	2.19	0.75
54:SI:173:ALA:HB1	54:SI:189:VAL:HA	1.68	0.75
56:SL:111:VAL:HG21	56:SL:128:VAL:HG21	1.66	0.75
1:L5:2453:A:H62	1:L5:2467:U:H3	1.32	0.75
1:L5:2561:C:O2	1:L5:2567:G:N1	2.19	0.75
1:L5:2590:G:O2'	1:L5:2756:G:N2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4441:A:H3'	1:L5:4442:U:H5"	1.68	0.75
8:LE:195:ILE:HD11	34:Lf:105:LEU:HD23	1.68	0.75
9:LF:69:ILE:O	9:LF:73:ARG:HB2	1.87	0.75
12:LI:136:MET:SD	12:LI:152:LEU:HG	2.26	0.75
45:Lr:35:ARG:NE	45:Lr:37:SER:OG	2.19	0.75
47:S2:343:A:H2'	47:S2:344:U:C6	2.21	0.75
47:S2:924:G:H22	47:S2:1019:C:H1'	1.52	0.75
48:SA:57:LYS:HE3	48:SA:159:ILE:HG23	1.67	0.75
53:SH:137:SER:HB3	53:SH:158:LEU:HD22	1.67	0.75
76:SY:86:GLU:HG3	76:SY:91:LEU:HD11	1.68	0.75
76:SY:118:ARG:HG3	76:SY:120:THR:HG23	1.69	0.75
1:L5:1830:G:H2'	1:L5:1831:G:C8	2.22	0.75
1:L5:2456:G:O6	1:L5:2465:C:N4	2.19	0.75
1:L5:2658:G:OP2	31:Lc:36:LYS:NZ	2.18	0.75
5:LB:288:GLY:HA3	5:LB:330:PHE:CE1	2.22	0.75
35:Lg:3:GLN:NE2	35:Lg:30:ILE:O	2.20	0.75
43:Lo:69:ARG:HH21	43:Lo:80:LYS:HE2	1.51	0.75
47:S2:1144:A:H5'	47:S2:1355:C:N4	2.02	0.75
47:S2:1288:U:O2'	47:S2:1314:U:O4	2.05	0.75
47:S2:1373:C:OP1	59:SR:7:LYS:N	2.20	0.75
48:SA:57:LYS:NZ	63:SV:70:LEU:HD12	2.02	0.75
53:SH:130:LEU:HD23	53:SH:177:TYR:CZ	2.21	0.75
68:Sg:119:GLN:HG3	68:Sg:131:LEU:HG	1.69	0.75
1:L5:450:G:H2'	1:L5:452:A:H4'	1.68	0.75
1:L5:468:U:H2'	1:L5:469:C:C1'	2.17	0.75
1:L5:739:G:N1	1:L5:925:C:O2	2.18	0.75
1:L5:1802:A:C5'	1:L5:1803:G:H5'	2.14	0.75
1:L5:2040:A:H4'	1:L5:2041:A:H5"	1.68	0.75
1:L5:4920:C:H2'	1:L5:4921:C:O4'	1.86	0.75
20:LR:116:ASP:OD1	20:LR:119:MET:N	2.19	0.75
35:Lg:42:PRO:HG2	35:Lg:53:LEU:CD2	2.12	0.75
47:S2:168:C:H2'	47:S2:169:U:H5'	1.68	0.75
47:S2:509:G:H2'	47:S2:510:G:C8	2.22	0.75
47:S2:1722:G:H2'	47:S2:1723:G:C8	2.21	0.75
52:SF:96:ALA:HB2	52:SF:173:LEU:HD11	1.67	0.75
69:SC:106:VAL:HA	69:SC:128:VAL:HG22	1.68	0.75
70:SG:50:VAL:HG12	70:SG:113:ILE:HD13	1.68	0.75
78:Sb:5:LYS:HG2	78:Sb:6:ASP:N	2.01	0.75
1:L5:755:C:H2'	1:L5:756:G:C8	2.22	0.75
1:L5:929:A:H2'	1:L5:930:G:H2'	1.67	0.75
1:L5:1750:G:H1'	12:LI:195:CYS:SG	2.26	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1817:U:C2'	1:L5:1818:G:H5'	2.16	0.75
1:L5:4750:G:H1	34:Lf:52:LYS:HZ3	1.34	0.75
3:L8:117:C:H5'	26:LX:55:ARG:NH2	1.99	0.75
9:LF:80:ASN:CG	22:LT:143:THR:HG22	2.11	0.75
16:LN:6:TYR:CD1	37:Li:40:VAL:HG13	2.22	0.75
22:LT:4:THR:OG1	22:LT:5:LYS:N	2.19	0.75
27:LY:50:ARG:NH1	27:LY:51:LYS:HB3	2.01	0.75
32:Ld:87:ARG:HB2	32:Ld:109:VAL:HG21	1.67	0.75
38:Lj:34:CYS:SG	38:Lj:35:GLY:N	2.59	0.75
47:S2:698:G:N1	47:S2:731:G:H2'	2.00	0.75
47:S2:1102:G:H2'	47:S2:1103:C:C6	2.22	0.75
47:S2:1129:G:OP1	78:Sb:22:LYS:NZ	2.20	0.75
47:S2:1421:A:N6	47:S2:1427:C:H1'	2.01	0.75
50:SD:73:VAL:HG11	50:SD:84:VAL:HG21	1.69	0.75
68:Sg:239:LEU:CG	68:Sg:250:ALA:HB2	2.16	0.75
1:L5:338:A:H2'	1:L5:339:C:H6	1.51	0.75
1:L5:371:A:OP1	38:Lj:25:LYS:NZ	2.20	0.75
1:L5:1188:C:H2'	1:L5:1189:G:H8	1.52	0.75
1:L5:1291:G:H1'	1:L5:4942:C:C5	2.22	0.75
1:L5:3692:A:H62	1:L5:3823:G:H21	1.34	0.75
1:L5:4349:C:H3'	1:L5:4350:C:C5'	2.16	0.75
1:L5:4893:A:N1	1:L5:4894:A:H1'	2.02	0.75
14:LL:161:TYR:CD1	29:La:105:ARG:HD2	2.22	0.75
29:La:11:LEU:HA	29:La:14:HIS:HD2	1.50	0.75
35:Lg:106:VAL:O	35:Lg:110:GLN:N	2.17	0.75
38:Lj:2:THR:HG22	38:Lj:4:GLY:H	1.52	0.75
38:Lj:20:ARG:NH1	38:Lj:39:TYR:OH	2.20	0.75
47:S2:855:G:H2'	47:S2:856:C:H5'	1.68	0.75
47:S2:909:G:H2'	47:S2:910:G:C8	2.21	0.75
49:SB:35:ALA:O	49:SB:42:ARG:NH1	2.20	0.75
52:SF:102:LEU:HD13	77:SZ:110:THR:CG2	2.16	0.75
53:SH:177:TYR:CE2	53:SH:183:LYS:HB2	2.22	0.75
58:SQ:41:MET:HA	58:SQ:43:GLU:HG3	1.69	0.75
61:ST:112:MET:HB3	61:ST:123:LEU:HD22	1.67	0.75
62:SU:26:SER:HB2	62:SU:32:LEU:CD1	2.17	0.75
70:SG:121:ILE:CG2	70:SG:124:LEU:HD12	2.16	0.75
76:SY:7:ILE:CD1	76:SY:43:LYS:HB3	2.17	0.75
80:Sf:121:CYS:HB3	80:Sf:130:VAL:CG1	2.17	0.75
1:L5:1200:G:H2'	1:L5:1200:G:N3	2.00	0.74
1:L5:1561:G:H2'	1:L5:1562:G:H5'	1.68	0.74
1:L5:1883:G:H5'	33:Le:49:PHE:HE1	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3685:C:H5”	4:LA:193:ARG:CZ	2.17	0.74
1:L5:4059:C:H2’	1:L5:4060:U:H5’	1.68	0.74
1:L5:4298:A:H2’	1:L5:4299:U:H6	1.52	0.74
6:LC:177:TRP:CH2	6:LC:181:LYS:HD2	2.22	0.74
22:LT:30:TYR:HA	22:LT:93:ILE:CD1	2.16	0.74
29:La:130:SER:HB3	29:La:133:ALA:CB	2.17	0.74
47:S2:203:G:N1	47:S2:204:G:N3	2.34	0.74
47:S2:509:G:H2’	47:S2:510:G:H8	1.52	0.74
50:SD:202:LYS:HB3	50:SD:203:PRO:HD3	1.67	0.74
53:SH:157:HIS:HB3	53:SH:190:PRO:CG	2.16	0.74
60:SS:33:ILE:HB	60:SS:36:VAL:HG11	1.69	0.74
1:L5:923:C:H2’	1:L5:924:C:C6	2.22	0.74
1:L5:1168:G:N2	1:L5:1193:C:O2	2.19	0.74
1:L5:2311:C:O2	1:L5:2328:G:N2	2.19	0.74
1:L5:2609:G:H2’	1:L5:2610:G:H8	1.51	0.74
1:L5:2700:G:H22	1:L5:2717:G:H1’	1.51	0.74
1:L5:4406:U:C2’	1:L5:4407:G:H5’	2.16	0.74
1:L5:4510:A:C2	1:L5:4592:C:H4’	2.22	0.74
6:LC:331:TYR:HE1	9:LF:55:LYS:HD3	1.52	0.74
11:LH:31:ARG:NH2	11:LH:147:GLU:OE2	2.19	0.74
11:LH:115:ARG:HH12	11:LH:123:ILE:HD13	1.51	0.74
25:LW:101:ARG:HG2	25:LW:105:ARG:HG3	1.67	0.74
27:LY:32:SER:OG	27:LY:33:PRO:HD2	1.88	0.74
47:S2:402:C:H5”	54:SI:16:GLY:HA3	1.69	0.74
47:S2:425:G:H4’	47:S2:427:U:O4	1.86	0.74
47:S2:844:U:H2’	47:S2:845:G:C8	2.22	0.74
47:S2:1016:U:C5	73:SN:17:PRO:HG3	2.21	0.74
47:S2:1597:C:H3’	77:SZ:82:SER:HB2	1.69	0.74
47:S2:1618:C:H4’	57:SP:50:ARG:NH2	2.01	0.74
47:S2:1702:G:O6	47:S2:1836:G:N2	2.14	0.74
48:SA:111:GLN:HG3	48:SA:112:ILE:HD12	1.70	0.74
51:SE:97:GLU:OE2	51:SE:113:ARG:NE	2.19	0.74
51:SE:211:LYS:HE2	51:SE:215:GLY:HA2	1.68	0.74
68:Sg:64:HIS:CE1	68:Sg:84:ASP:HB2	2.22	0.74
68:Sg:129:ILE:HG13	68:Sg:151:VAL:HG11	1.69	0.74
1:L5:712:C:H42	1:L5:956:A:H61	1.34	0.74
2:L7:22:A:N6	2:L7:23:A:N1	2.35	0.74
3:L8:44:A:H2’	3:L8:45:C:C6	2.21	0.74
6:LC:7:LEU:CD2	6:LC:21:ASN:HB3	2.10	0.74
7:LD:115:MET:HE1	7:LD:141:ALA:CA	2.17	0.74
11:LH:165:THR:HG21	11:LH:179:ILE:HD12	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:Lo:104:ILE:HG23	43:Lo:105:GLN:HA	1.68	0.74
47:S2:192:C:H2'	47:S2:193:C:H5'	1.67	0.74
47:S2:552:G:H2'	47:S2:552:G:N3	2.01	0.74
47:S2:1676:U:H2'	47:S2:1677:U:H5'	1.69	0.74
48:SA:55:TRP:NE1	48:SA:59:LEU:HD11	2.01	0.74
58:SQ:31:LEU:HD11	58:SQ:33:LYS:CG	2.17	0.74
58:SQ:44:PRO:HG3	58:SQ:81:ILE:CD1	2.17	0.74
61:ST:100:ALA:O	61:ST:104:LEU:N	2.20	0.74
68:Sg:88:ARG:NH2	68:Sg:97:THR:OG1	2.20	0.74
70:SG:41:LEU:HD11	70:SG:45:TRP:CG	2.22	0.74
76:SY:123:ALA:O	76:SY:127:ALA:N	2.13	0.74
1:L5:1566:C:H2'	1:L5:1567:U:H6	1.53	0.74
1:L5:1972:G:N2	1:L5:2001:G:OP1	2.20	0.74
1:L5:4694:G:H5'	1:L5:4695:C:H5	1.51	0.74
1:L5:4911:A:H5'	5:LB:97:ARG:HH12	1.50	0.74
1:L5:4978:G:H1'	1:L5:4982:A:N6	2.03	0.74
8:LE:277:LEU:HD23	34:Lf:4:ARG:HH21	1.52	0.74
12:LI:109:ASP:CG	12:LI:110:ARG:HA	2.12	0.74
18:LP:4:TYR:HE2	18:LP:16:LYS:HD3	1.53	0.74
47:S2:92:A:H2'	47:S2:446:G:N2	2.02	0.74
47:S2:863:U:O2'	75:SW:78:ARG:NH1	2.20	0.74
47:S2:938:A:C2	47:S2:939:U:H1'	2.22	0.74
47:S2:959:G:O2'	47:S2:1065:G:H4'	1.87	0.74
47:S2:1610:G:H22	47:S2:1630:A:H1'	1.53	0.74
48:SA:200:ASP:OD1	48:SA:205:ARG:NH2	2.19	0.74
53:SH:61:ILE:HG22	53:SH:93:VAL:HG12	1.69	0.74
55:SK:81:ASP:HA	55:SK:85:LEU:HD23	1.68	0.74
59:SR:98:VAL:HG13	59:SR:116:ASN:O	1.87	0.74
71:SJ:73:GLU:HA	71:SJ:76:ALA:HB3	1.68	0.74
1:L5:31:U:H2'	1:L5:32:G:H5'	1.70	0.74
1:L5:132:G:N2	1:L5:137:G:N7	2.35	0.74
1:L5:1273:G:C4'	8:LE:74:SER:HA	2.17	0.74
1:L5:1414:C:H3'	1:L5:1415:G:C5'	2.14	0.74
1:L5:2022:C:H5"	1:L5:2023:C:C5	2.21	0.74
1:L5:2088:A:OP2	19:LQ:37:ARG:NH1	2.21	0.74
1:L5:2484:A:C3'	1:L5:2485:U:H5"	2.15	0.74
5:LB:197:ALA:O	5:LB:201:LEU:HB2	1.86	0.74
7:LD:66:TYR:CZ	7:LD:73:MET:HB3	2.22	0.74
8:LE:140:LEU:HD11	8:LE:144:ILE:HD12	1.70	0.74
10:LG:193:LEU:HD12	10:LG:194:VAL:HG23	1.69	0.74
12:LI:138:ILE:HD12	12:LI:152:LEU:CD1	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:663:C:H42	47:S2:1164:G:H1	1.31	0.74
47:S2:994:C:H2'	47:S2:995:G:C5'	2.17	0.74
47:S2:1337:C:H2'	47:S2:1338:G:C8	2.22	0.74
50:SD:105:LEU:HD13	50:SD:122:VAL:CG2	2.17	0.74
54:SI:67:TRP:CD1	54:SI:70:GLU:H	2.06	0.74
63:SV:70:LEU:HD11	63:SV:83:PHE:CE2	2.22	0.74
64:SX:101:LEU:HD23	64:SX:102:VAL:N	2.02	0.74
66:Sc:9:ILE:HG23	66:Sc:58:LEU:O	1.87	0.74
73:SN:125:LEU:O	73:SN:128:TYR:HB3	1.88	0.74
1:L5:1273:G:H4'	8:LE:74:SER:HA	1.69	0.74
1:L5:1281:G:OP2	8:LE:52:ARG:NH1	2.19	0.74
1:L5:1326:A:OP2	1:L5:4445:U:O2'	2.03	0.74
1:L5:1633:G:H1	4:LA:207:VAL:HG21	1.53	0.74
1:L5:1865:G:N2	1:L5:1870:C:N3	2.36	0.74
2:L7:9:C:O2	2:L7:110:G:N2	2.15	0.74
5:LB:47:LEU:HD11	5:LB:181:MET:SD	2.27	0.74
7:LD:205:ALA:O	7:LD:209:ARG:HG2	1.88	0.74
8:LE:162:VAL:HG11	8:LE:175:VAL:HB	1.70	0.74
9:LF:144:TYR:CD2	9:LF:237:GLU:HG3	2.21	0.74
10:LG:73:ARG:HH12	10:LG:243:GLY:N	1.85	0.74
11:LH:93:ARG:HA	11:LH:143:GLU:HA	1.70	0.74
13:LJ:114:ASP:C	13:LJ:115:LEU:HD12	2.12	0.74
25:LW:64:SER:HA	25:LW:67:ILE:CD1	2.17	0.74
36:Lh:5:LYS:HD3	36:Lh:7:ARG:HG2	1.68	0.74
47:S2:124:U:H5"	51:SE:148:ARG:HH21	1.53	0.74
47:S2:924:G:N2	73:SN:87:ASP:OD2	2.21	0.74
47:S2:927:C:O2	47:S2:1014:G:N2	2.19	0.74
47:S2:1429:G:C2	47:S2:1430:C:H1'	2.23	0.74
49:SB:21:VAL:HG12	49:SB:22:VAL:H	1.53	0.74
50:SD:185:LYS:HD3	50:SD:187:LYS:CE	2.16	0.74
51:SE:221:ARG:HB2	51:SE:224:ASN:ND2	2.03	0.74
60:SS:75:ARG:NH2	60:SS:95:TYR:O	2.20	0.74
76:SY:27:VAL:HB	76:SY:69:THR:HG21	1.69	0.74
1:L5:139:G:H2'	1:L5:140:G:H5'	1.68	0.74
1:L5:644:G:N2	1:L5:645:G:H1'	2.03	0.74
1:L5:2340:C:H1'	6:LC:45:ARG:NH2	2.02	0.74
1:L5:4313:A:H4'	22:LT:71:ALA:HB2	1.69	0.74
1:L5:4984:C:H4'	5:LB:25:HIS:CE1	2.22	0.74
7:LD:132:VAL:CG2	7:LD:172:SER:HA	2.18	0.74
9:LF:65:TYR:CE2	9:LF:69:ILE:HD11	2.23	0.74
11:LH:77:VAL:HA	11:LH:80:MET:CE	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:LI:207:ASP:O	12:LI:211:VAL:HG23	1.88	0.74
13:LJ:113:ILE:HD12	60:SS:14:ARG:HD3	1.68	0.74
32:Ld:22:THR:HG23	32:Ld:122:VAL:CG1	2.17	0.74
47:S2:538:U:H3'	47:S2:539:C:H5"	1.69	0.74
47:S2:546:G:OP2	47:S2:547:G:N2	2.20	0.74
47:S2:1276:A:H2'	55:SK:54:SER:HB2	1.70	0.74
47:S2:1291:A:OP1	67:Sd:5:GLN:NE2	2.18	0.74
47:S2:1612:G:H5"	57:SP:39:ALA:HB2	1.69	0.74
47:S2:1739:C:H1'	47:S2:1796:G:H22	1.51	0.74
58:SQ:47:LEU:CB	58:SQ:50:LYS:HE3	2.17	0.74
72:SM:60:MET:SD	72:SM:63:LYS:HD2	2.27	0.74
1:L5:3969:G:N2	1:L5:4053:A:OP1	2.21	0.74
4:LA:58:LEU:HB3	4:LA:75:LEU:HD21	1.69	0.74
9:LF:101:VAL:HG12	9:LF:139:TYR:CZ	2.22	0.74
33:Le:22:ARG:HD3	33:Le:31:ILE:CG2	2.16	0.74
46:Lz:152:LYS:CD	46:Lz:154:THR:HB	2.16	0.74
47:S2:77:A:H1'	70:SG:176:ILE:HD12	1.70	0.74
47:S2:417:C:H4'	47:S2:418:A:OP1	1.86	0.74
48:SA:87:VAL:HG12	48:SA:98:PRO:CB	2.18	0.74
68:Sg:172:LYS:HE3	68:Sg:194:TYR:HA	1.69	0.74
1:L5:982:U:H1'	8:LE:70:LYS:NZ	2.03	0.74
1:L5:1181:C:H3'	1:L5:1182:C:C4'	2.14	0.74
1:L5:1188:C:H2'	1:L5:1189:G:C8	2.23	0.74
1:L5:1428:U:H5"	19:LQ:42:THR:HG21	1.70	0.74
1:L5:1484:G:H3'	1:L5:1485:C:H5"	1.70	0.74
1:L5:1669:A:C2	1:L5:1852:U:H4'	2.23	0.74
1:L5:1764:G:H1'	1:L5:1769:G:C6	2.23	0.74
1:L5:2107:C:H5"	1:L5:2126:G:C2	2.22	0.74
1:L5:4977:A:H2'	1:L5:4978:G:O4'	1.86	0.74
5:LB:80:GLU:OE1	5:LB:323:TYR:OH	2.05	0.74
6:LC:133:LEU:CD2	45:Lr:6:GLN:HE21	2.00	0.74
12:LI:183:ASP:HA	12:LI:186:ALA:CB	2.18	0.74
25:LW:27:LYS:HD2	25:LW:29:PHE:HZ	1.50	0.74
33:Le:90:MET:HE1	45:Lr:113:ARG:CB	2.13	0.74
47:S2:648:A:H2'	47:S2:649:U:C6	2.23	0.74
47:S2:1016:U:OP2	73:SN:15:ALA:N	2.20	0.74
47:S2:1301:A:O2'	47:S2:1303:C:OP1	2.05	0.74
47:S2:1561:A:C2'	47:S2:1562:C:H5'	2.13	0.74
50:SD:73:VAL:CB	50:SD:84:VAL:HG11	2.16	0.74
50:SD:127:MET:HE3	50:SD:154:ASP:HB3	1.70	0.74
62:SU:46:LYS:HE3	62:SU:93:SER:HB3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:SU:67:LYS:CG	62:SU:78:ASP:HB2	2.18	0.74
72:SM:49:LEU:HD21	72:SM:128:PHE:HD1	1.53	0.74
1:L5:961:G:OP1	1:L5:962:C:N4	2.21	0.74
1:L5:1338:G:H1	29:La:25:HIS:HD2	1.36	0.74
1:L5:1758:G:H2'	1:L5:1759:G:H5"	1.70	0.74
1:L5:1967:A:H2'	1:L5:1967:A:N3	2.02	0.74
1:L5:3842:C:OP1	5:LB:238:LYS:NZ	2.20	0.74
1:L5:4697:U:H4'	41:Lm:104:HIS:CD2	2.23	0.74
8:LE:223:ARG:HB3	8:LE:224:LYS:HG2	1.69	0.74
9:LF:216:PRO:HA	9:LF:247:MET:HG2	1.70	0.74
15:LM:64:PHE:CZ	15:LM:73:VAL:HG23	2.23	0.74
23:LU:96:LEU:HB3	23:LU:100:LEU:HD22	1.70	0.74
46:Lz:111:LEU:HD13	46:Lz:142:GLU:HA	1.70	0.74
46:Lz:203:ALA:HB1	46:Lz:215:ARG:CB	2.18	0.74
47:S2:1389:C:H41	47:S2:1480:A:H61	1.34	0.74
47:S2:1623:A:H3'	47:S2:1624:U:H5"	1.69	0.74
47:S2:1667:U:H2'	47:S2:1668:U:C6	2.22	0.74
51:SE:206:ASP:HB2	51:SE:222:LEU:CD1	2.18	0.74
64:SX:115:ILE:HG23	64:SX:116:PRO:HD2	1.70	0.74
68:Sg:120:ILE:HB	68:Sg:132:TRP:CB	2.17	0.74
71:SJ:63:LEU:HD21	71:SJ:67:ASP:HB2	1.67	0.74
1:L5:1257:A:N6	1:L5:1258:G:N3	2.35	0.73
1:L5:1622:U:O2	1:L5:1627:G:O2'	2.05	0.73
1:L5:4080:C:H2'	1:L5:4081:G:H8	1.53	0.73
10:LG:30:PRO:CG	28:LZ:124:THR:HA	2.18	0.73
13:LJ:22:LEU:HD12	13:LJ:72:CYS:CB	2.15	0.73
25:LW:64:SER:HA	25:LW:67:ILE:HD13	1.70	0.73
45:Lr:54:ALA:HB2	45:Lr:61:VAL:HG23	1.68	0.73
47:S2:81:U:H2'	47:S2:82:G:O4'	1.87	0.73
47:S2:494:C:H41	47:S2:509:G:H21	1.34	0.73
47:S2:672:A:H3'	47:S2:673:G:H5"	1.69	0.73
47:S2:694:G:N1	47:S2:739:C:OP1	2.20	0.73
47:S2:1114:U:OP2	47:S2:1114:U:H3'	1.88	0.73
47:S2:1533:A:P	52:SF:164:ARG:HH12	2.11	0.73
47:S2:1601:A:H4'	47:S2:1602:U:H5	1.53	0.73
54:SI:110:ARG:HA	54:SI:121:LEU:HD23	1.69	0.73
57:SP:81:ARG:CG	57:SP:96:VAL:HG13	2.17	0.73
66:Sc:33:GLU:HG2	66:Sc:34:PHE:H	1.51	0.73
66:Sc:35:MET:CE	66:Sc:55:VAL:HG22	2.15	0.73
68:Sg:130:LYS:HB2	68:Sg:141:THR:HA	1.69	0.73
70:SG:55:GLY:O	70:SG:63:MET:HG2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1638:A:N6	1:L5:2794:C:OP2	2.20	0.73
1:L5:2656:U:H2'	1:L5:2657:G:O4'	1.87	0.73
1:L5:3693:U:O3'	44:Lp:21:SER:OG	2.04	0.73
1:L5:3799:A:N6	1:L5:3800:A:N1	2.35	0.73
1:L5:4210:U:H2'	1:L5:4211:C:O4'	1.88	0.73
8:LE:87:LYS:HE2	8:LE:106:VAL:HG21	1.69	0.73
9:LF:179:LEU:HB3	9:LF:184:ILE:HB	1.70	0.73
26:LX:78:LYS:HD2	26:LX:99:ILE:CG2	2.18	0.73
47:S2:310:C:C2'	47:S2:311:C:H5'	2.18	0.73
47:S2:1059:G:N2	47:S2:1829:G:OP1	2.21	0.73
47:S2:1317:C:H5"	47:S2:1318:G:H8	1.52	0.73
47:S2:1325:G:C4'	47:S2:1510:G:H5"	2.18	0.73
47:S2:1702:G:H1	47:S2:1836:G:H1	1.36	0.73
47:S2:1831:A:H1'	47:S2:1852:C:OP1	1.87	0.73
56:SL:23:VAL:HB	56:SL:26:GLY:CA	2.17	0.73
62:SU:26:SER:OG	62:SU:110:VAL:HA	1.87	0.73
65:Sa:22:ARG:NH1	65:Sa:27:ALA:O	2.16	0.73
1:L5:503:C:H5"	1:L5:504:G:OP2	1.87	0.73
1:L5:1202:C:H3'	1:L5:1203:G:H4'	1.69	0.73
1:L5:1439:C:O2	1:L5:2108:G:N2	2.20	0.73
1:L5:2502:G:O2'	1:L5:2503:G:H5"	1.88	0.73
1:L5:2536:A:H5'	39:Lk:42:LEU:HD13	1.69	0.73
1:L5:2541:G:C2'	1:L5:2542:G:H5'	2.18	0.73
1:L5:4085:A:C5'	26:LX:44:PRO:HB2	2.18	0.73
1:L5:4414:A:H5"	12:LI:154:ARG:NH1	2.03	0.73
1:L5:4872:G:H3'	1:L5:4873:G:C5'	2.09	0.73
3:L8:96:C:H5"	36:Lh:66:LYS:HE3	1.70	0.73
3:L8:104:A:OP2	38:Lj:42:LYS:NZ	2.20	0.73
5:LB:389:MET:CG	5:LB:392:LEU:HD11	2.14	0.73
46:Lz:85:MET:HB2	46:Lz:89:ALA:HB3	1.70	0.73
47:S2:291:G:N2	47:S2:293:C:OP2	2.21	0.73
47:S2:1648:G:H5'	58:SQ:125:ARG:HB2	1.69	0.73
48:SA:54:THR:HG22	48:SA:162:PRO:HG2	1.69	0.73
48:SA:84:GLN:HB3	48:SA:100:ALA:HB1	1.71	0.73
51:SE:55:ALA:HB1	51:SE:60:GLU:HB2	1.68	0.73
64:SX:132:ALA:HB1	64:SX:138:LYS:CG	2.17	0.73
70:SG:217:MET:O	70:SG:221:LYS:N	2.19	0.73
75:SW:106:THR:HB	75:SW:121:THR:HG21	1.69	0.73
1:L5:277:G:N2	1:L5:278:G:N7	2.34	0.73
1:L5:462:G:N2	1:L5:694:C:N3	2.36	0.73
1:L5:2393:C:H2'	1:L5:2394:G:H5'	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2628:U:H2'	1:L5:2629:C:H5'	1.71	0.73
1:L5:2903:G:O3'	1:L5:2905:C:N4	2.21	0.73
1:L5:3765:G:N2	1:L5:3767:C:OP1	2.20	0.73
1:L5:3827:G:O2'	1:L5:3829:G:OP2	2.06	0.73
1:L5:4450:U:O2'	1:L5:4451:G:H5'	1.88	0.73
1:L5:4924:C:H2'	1:L5:4925:U:H5'	1.70	0.73
3:L8:63:U:O2'	36:Lh:52:LYS:NZ	2.18	0.73
10:LG:120:LYS:CE	10:LG:125:LYS:HG2	2.13	0.73
14:LL:54:PRO:CB	14:LL:97:SER:HB2	2.18	0.73
34:Lf:10:ILE:HD11	34:Lf:98:GLY:C	2.12	0.73
45:Lr:31:ASN:CG	45:Lr:34:ALA:HA	2.13	0.73
47:S2:1281:G:N1	47:S2:1315:U:O4	2.20	0.73
47:S2:1604:G:H2'	47:S2:1605:G:H5'	1.69	0.73
51:SE:250:GLU:N	51:SE:250:GLU:OE1	2.21	0.73
57:SP:17:TYR:HA	60:SS:91:LYS:HG3	1.70	0.73
59:SR:108:LEU:C	59:SR:109:LEU:HD12	2.13	0.73
60:SS:39:ARG:HA	60:SS:42:HIS:CD2	2.23	0.73
62:SU:69:PRO:O	67:Sd:41:GLN:NE2	2.20	0.73
71:SJ:75:ASN:O	71:SJ:79:ARG:HG3	1.88	0.73
76:SY:18:LEU:O	76:SY:20:ARG:N	2.18	0.73
1:L5:516:C:N4	1:L5:644:G:O6	2.22	0.73
1:L5:2577:C:H2'	1:L5:2578:G:H5'	1.68	0.73
1:L5:2762:G:H1'	1:L5:2763:U:O4'	1.88	0.73
1:L5:4741:C:H2'	1:L5:4742:G:H8	1.52	0.73
10:LG:259:LYS:HA	10:LG:262:ALA:CB	2.15	0.73
47:S2:323:C:H2'	47:S2:329:G:H21	1.52	0.73
47:S2:416:U:H2'	47:S2:417:C:C5'	2.17	0.73
50:SD:7:LYS:HE2	62:SU:84:ILE:HD13	1.71	0.73
78:Sb:37:CYS:HB3	78:Sb:38:PRO:CD	2.18	0.73
1:L5:283:G:H1'	37:Li:82:ARG:HH12	1.53	0.73
1:L5:701:G:H2'	1:L5:702:U:O4'	1.88	0.73
1:L5:1082:C:H3'	1:L5:1083:U:C5	2.24	0.73
1:L5:2562:G:H21	1:L5:2564:G:H3'	1.54	0.73
1:L5:4050:A:H3'	1:L5:4051:C:C5'	2.19	0.73
6:LC:150:LEU:HB3	6:LC:151:PRO:HD3	1.70	0.73
10:LG:136:LEU:HD13	10:LG:202:VAL:CG2	2.17	0.73
18:LP:15:CYS:SG	18:LP:150:LEU:HB2	2.28	0.73
44:Lp:22:LEU:HA	44:Lp:25:MET:HG2	1.69	0.73
47:S2:75:G:H1'	70:SG:159:ARG:CZ	2.18	0.73
47:S2:1614:A:H2'	47:S2:1615:U:O4'	1.88	0.73
48:SA:43:SER:CB	59:SR:123:THR:HG22	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:SB:136:ARG:NE	49:SB:218:LEU:HD11	2.01	0.73
50:SD:192:TRP:O	50:SD:202:LYS:HD2	1.88	0.73
55:SK:11:ILE:HD13	55:SK:45:VAL:CG1	2.18	0.73
56:SL:96:ILE:CD1	64:SX:10:ALA:HB1	2.17	0.73
59:SR:106:LEU:O	59:SR:110:ASP:N	2.22	0.73
62:SU:19:ARG:CA	62:SU:92:HIS:HA	2.18	0.73
70:SG:130:PRO:HB2	70:SG:131:ARG:HG3	1.71	0.73
76:SY:86:GLU:CG	76:SY:91:LEU:HD11	2.18	0.73
1:L5:362:A:N3	3:L8:53:G:O2'	2.22	0.73
1:L5:1300:G:N2	1:L5:2315:G:OP1	2.20	0.73
1:L5:4755:G:N2	1:L5:4879:C:O2	2.22	0.73
1:L5:4935:C:H2'	8:LE:183:ARG:NH2	2.03	0.73
3:L8:65:A:O2'	36:Lh:10:ARG:NH2	2.21	0.73
7:LD:88:VAL:HG13	7:LD:240:TYR:HE1	1.54	0.73
21:LS:147:ASP:HB3	21:LS:150:ILE:CG1	2.19	0.73
27:LY:56:GLN:CG	27:LY:67:ILE:HD12	2.19	0.73
46:Lz:120:ILE:CG2	46:Lz:121:PRO:HD3	2.18	0.73
46:Lz:204:LEU:HD21	46:Lz:206:ILE:HD13	1.71	0.73
47:S2:1415:C:H42	47:S2:1432:U:H3	1.37	0.73
47:S2:1566:G:H2'	47:S2:1567:G:C5'	2.14	0.73
48:SA:203:PHE:CE2	59:SR:91:LEU:HD11	2.24	0.73
51:SE:38:LEU:HA	51:SE:41:CYS:SG	2.28	0.73
75:SW:11:LEU:HD21	75:SW:37:PHE:HE2	1.53	0.73
1:L5:227:A:H2'	1:L5:228:C:H5'	1.70	0.73
1:L5:2464:C:O2'	1:L5:2465:C:O5'	2.07	0.73
1:L5:2631:U:C5'	1:L5:2632:U:H5'	2.18	0.73
1:L5:3912:U:H2'	1:L5:3913:G:H5'	1.69	0.73
1:L5:4479:A:OP1	1:L5:4610:A:O2'	2.06	0.73
1:L5:4532:U:OP2	1:L5:4554:G:N2	2.20	0.73
4:LA:32:VAL:HG12	4:LA:163:ARG:HH12	1.54	0.73
6:LC:122:TYR:HE2	6:LC:280:PRO:HB3	1.53	0.73
7:LD:204:VAL:O	7:LD:208:MET:N	2.21	0.73
13:LJ:54:ARG:HH21	13:LJ:55:TYR:HE2	1.37	0.73
13:LJ:158:SER:O	13:LJ:161:GLU:HG2	1.88	0.73
16:LN:191:ALA:O	16:LN:195:ARG:HG2	1.89	0.73
20:LR:185:ILE:HG13	20:LR:186:LYS:HD2	1.71	0.73
25:LW:7:SER:OG	25:LW:30:GLN:N	2.21	0.73
47:S2:1420:G:H4'	61:ST:3:GLY:HA3	1.70	0.73
47:S2:1445:U:O4	47:S2:1446:A:N6	2.22	0.73
47:S2:1748:G:O6	47:S2:1786:U:N3	2.17	0.73
50:SD:25:LEU:HB3	50:SD:34:TYR:CE1	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:SG:117:GLY:HA3	70:SG:121:ILE:HD11	1.69	0.73
73:SN:22:VAL:HG11	73:SN:66:VAL:HG22	1.71	0.73
1:L5:75:G:H3'	14:LL:74:ARG:HD2	1.71	0.73
1:L5:454:U:H3	1:L5:702:U:H2'	1.54	0.73
1:L5:930:G:H4'	1:L5:931:C:O5'	1.88	0.73
1:L5:1446:C:H2'	1:L5:1447:C:C5'	2.19	0.73
1:L5:1738:A:N6	1:L5:1790:U:O4	2.20	0.73
1:L5:1970:A:H2'	1:L5:2016:C:C5	2.23	0.73
1:L5:2340:C:H4'	6:LC:42:THR:OG1	1.89	0.73
1:L5:3784:A:O2'	1:L5:3785:A:H3'	1.89	0.73
1:L5:3895:G:O6	1:L5:4564:A:N6	2.19	0.73
1:L5:4889:G:H1	1:L5:4930:C:H42	1.37	0.73
6:LC:26:ALA:CB	6:LC:266:THR:HG22	2.17	0.73
6:LC:330:PRO:HG3	9:LF:47:ARG:NH2	2.03	0.73
10:LG:113:ARG:CA	10:LG:116:ALA:HB3	2.15	0.73
10:LG:158:ALA:HB2	10:LG:190:LEU:HD22	1.71	0.73
11:LH:115:ARG:O	11:LH:117:PHE:N	2.21	0.73
21:LS:15:ARG:HH11	21:LS:25:PRO:HG2	1.54	0.73
21:LS:51:LEU:O	21:LS:52:LYS:HD2	1.89	0.73
29:La:24:LYS:HD2	29:La:24:LYS:N	2.03	0.73
42:Ln:11:ARG:HG2	42:Ln:11:ARG:NH1	1.98	0.73
47:S2:40:A:H2'	47:S2:486:A:N7	2.04	0.73
47:S2:690:G:H3'	47:S2:690:G:N3	2.03	0.73
47:S2:691:G:N2	53:SH:181:THR:HA	1.97	0.73
47:S2:1283:C:C6	72:SM:102:LYS:HD3	2.21	0.73
47:S2:1375:G:H2'	47:S2:1376:A:C8	2.23	0.73
47:S2:1413:G:H2'	47:S2:1414:A:H4'	1.71	0.73
47:S2:1565:C:N4	47:S2:1570:G:O6	2.20	0.73
47:S2:1661:A:OP2	67:Sd:32:ARG:NH1	2.22	0.73
52:SF:28:VAL:HG22	52:SF:107:ASN:ND2	2.04	0.73
53:SH:51:ILE:O	53:SH:58:LYS:HB2	1.89	0.73
60:SS:39:ARG:HA	60:SS:42:HIS:HD2	1.52	0.73
70:SG:3:LEU:HD13	70:SG:111:LEU:HD13	1.71	0.73
1:L5:1396:G:N7	29:La:110:LYS:NZ	2.30	0.73
1:L5:2604:C:O2	1:L5:2736:G:N2	2.22	0.73
15:LM:82:ILE:O	15:LM:86:TRP:N	2.18	0.73
47:S2:309:G:H2'	47:S2:310:C:C6	2.24	0.73
47:S2:634:A:H2'	47:S2:635:G:H8	1.54	0.73
47:S2:1630:A:O5'	60:SS:37:GLY:HA3	1.87	0.73
49:SB:33:VAL:HA	49:SB:96:CYS:SG	2.29	0.73
49:SB:62:LEU:HD12	49:SB:65:ARG:HD2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:SH:9:VAL:CG1	53:SH:44:ASN:HA	2.19	0.73
53:SH:79:LEU:HD12	53:SH:82:GLU:CG	2.17	0.73
61:ST:28:LEU:HD21	61:ST:53:PHE:HE1	1.54	0.73
68:Sg:236:ILE:HA	68:Sg:252:THR:HB	1.69	0.73
70:SG:5:ILE:CG1	70:SG:111:LEU:HD22	2.18	0.73
71:SJ:29:LEU:HD21	79:Se:38:TYR:HB2	1.70	0.73
76:SY:52:PRO:HA	76:SY:55:ILE:HD13	1.71	0.73
1:L5:175:C:H2'	1:L5:176:G:C8	2.23	0.72
1:L5:1407:C:O2'	1:L5:1409:C:OP1	2.04	0.72
1:L5:1484:G:C3'	1:L5:1485:C:H5"	2.19	0.72
1:L5:1699:A:N6	1:L5:2095:A:O2'	2.22	0.72
1:L5:2761:U:H5'	1:L5:2762:G:N2	2.04	0.72
1:L5:4727:A:H5'	5:LB:129:ALA:HA	1.71	0.72
10:LG:159:HIS:HD2	10:LG:185:LYS:HA	1.54	0.72
13:LJ:99:PHE:CE2	13:LJ:163:MET:HA	2.23	0.72
14:LL:47:ALA:HB1	14:LL:48:PRO:CD	2.16	0.72
23:LU:88:LYS:HD2	23:LU:97:ARG:CZ	2.19	0.72
32:Ld:24:GLU:OE2	32:Ld:109:VAL:HG11	1.89	0.72
44:Lp:38:THR:HA	44:Lp:45:THR:HG22	1.70	0.72
47:S2:76:U:H5	70:SG:159:ARG:HH22	1.33	0.72
47:S2:151:C:OP1	76:SY:120:THR:HB	1.88	0.72
47:S2:191:A:H2'	47:S2:192:C:C6	2.24	0.72
47:S2:678:U:H2'	47:S2:679:A:C8	2.20	0.72
47:S2:1285:G:H5"	72:SM:35:ILE:CG2	2.16	0.72
47:S2:1818:A:H2'	47:S2:1819:A:H5"	1.70	0.72
51:SE:207:VAL:HG22	51:SE:221:ARG:HD3	1.71	0.72
54:SI:174:CYS:H	54:SI:190:LEU:HG	1.54	0.72
55:SK:77:GLN:HA	55:SK:80:ARG:HG2	1.71	0.72
60:SS:111:LEU:HD12	60:SS:114:LEU:HD12	1.71	0.72
61:ST:34:VAL:HG23	61:ST:35:ASP:H	1.54	0.72
61:ST:101:ARG:HA	61:ST:104:LEU:CD1	2.19	0.72
68:Sg:88:ARG:HD2	68:Sg:100:ARG:HB2	1.70	0.72
72:SM:40:LYS:CD	72:SM:42:LEU:HD12	2.18	0.72
77:SZ:88:LEU:HB3	77:SZ:109:TYR:CE2	2.22	0.72
1:L5:1962:A:C5'	1:L5:2024:G:H22	2.02	0.72
1:L5:2416:G:N2	1:L5:2429:A:N1	2.36	0.72
1:L5:2644:G:N2	1:L5:2691:U:O2	2.22	0.72
1:L5:2740:U:O2'	1:L5:2742:G:N2	2.21	0.72
1:L5:3912:U:C2'	1:L5:3913:G:H5'	2.19	0.72
6:LC:289:LEU:O	6:LC:293:LEU:N	2.21	0.72
7:LD:123:VAL:HG12	7:LD:248:ARG:CZ	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:LG:136:LEU:HD22	10:LG:202:VAL:HG22	1.69	0.72
13:LJ:113:ILE:HD12	60:SS:13:LEU:HD21	1.71	0.72
15:LM:31:ILE:HG12	21:LS:75:VAL:CG1	2.19	0.72
18:LP:57:CYS:SG	18:LP:73:ALA:HA	2.28	0.72
20:LR:106:LEU:HB3	20:LR:120:TYR:HE1	1.52	0.72
21:LS:99:ASP:OD1	21:LS:100:LEU:N	2.23	0.72
30:Lb:12:GLN:HB3	30:Lb:16:TRP:CH2	2.23	0.72
46:Lz:39:LYS:HD2	46:Lz:202:ARG:HH22	1.55	0.72
47:S2:1263:U:H6	47:S2:1264:C:H5'	1.53	0.72
47:S2:1276:A:H62	47:S2:1322:G:H1'	1.52	0.72
47:S2:1279:C:C2	47:S2:1280:G:H1'	2.24	0.72
47:S2:1811:C:OP1	64:SX:37:LYS:NZ	2.22	0.72
47:S2:1865:C:C2	65:Sa:5:ARG:HB2	2.24	0.72
48:SA:196:GLU:HG2	48:SA:197:VAL:N	2.03	0.72
48:SA:215:GLN:O	48:SA:219:GLU:N	2.21	0.72
49:SB:33:VAL:O	49:SB:43:ASN:ND2	2.22	0.72
53:SH:154:ILE:HB	53:SH:185:VAL:CG1	2.19	0.72
62:SU:67:LYS:HG3	62:SU:78:ASP:HB2	1.71	0.72
64:SX:77:ASN:OD1	64:SX:78:GLY:N	2.22	0.72
66:Sc:14:VAL:CG1	66:Sc:32:VAL:HG12	2.16	0.72
66:Sc:14:VAL:HG13	66:Sc:56:LEU:HD12	1.70	0.72
68:Sg:44:LYS:HB2	68:Sg:54:ILE:CG2	2.19	0.72
1:L5:1660:U:C2	29:La:12:ARG:HD2	2.23	0.72
1:L5:2090:U:H1'	6:LC:307:LYS:HE2	1.72	0.72
1:L5:2654:C:N4	1:L5:2680:G:H1	1.86	0.72
1:L5:2695:A:H4'	1:L5:2696:A:O5'	1.88	0.72
15:LM:64:PHE:HE1	15:LM:76:ALA:HB3	1.53	0.72
24:LV:32:THR:HG21	24:LV:105:ILE:HD12	1.70	0.72
31:Lc:52:CYS:SG	31:Lc:53:PRO:HD2	2.29	0.72
47:S2:333:G:OP2	70:SG:190:ARG:NH2	2.22	0.72
52:SF:75:SER:HB3	52:SF:151:ILE:CG2	2.18	0.72
53:SH:138:GLU:OE2	73:SN:21:SER:OG	2.06	0.72
56:SL:79:LYS:C	56:SL:80:MET:HE2	2.13	0.72
57:SP:64:LYS:HE2	57:SP:71:GLU:HG3	1.69	0.72
63:SV:64:GLU:OE2	78:Sb:2:PRO:HA	1.89	0.72
65:Sa:64:LEU:HD12	65:Sa:65:PRO:CD	2.19	0.72
70:SG:98:ARG:HH11	70:SG:99:GLY:H	1.37	0.72
72:SM:24:THR:HA	72:SM:116:LYS:CB	2.19	0.72
74:SO:30:VAL:HG12	74:SO:94:HIS:CB	2.09	0.72
76:SY:28:LEU:CD1	76:SY:68:LYS:HG2	2.19	0.72
1:L5:1967:A:O2'	1:L5:1968:G:O4'	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2907:G:H1'	1:L5:3589:G:N2	2.03	0.72
1:L5:4325:A:N3	7:LD:36:LEU:HB3	2.04	0.72
6:LC:149:GLU:HG2	45:Lr:72:LYS:HG2	1.70	0.72
7:LD:236:MET:O	7:LD:239:MET:HG2	1.89	0.72
13:LJ:160:GLU:HA	13:LJ:163:MET:CE	2.19	0.72
23:LU:24:ASP:HA	23:LU:69:LYS:HA	1.72	0.72
24:LV:90:ARG:HH22	24:LV:96:LEU:HD13	1.55	0.72
33:Le:90:MET:CG	45:Lr:33:LYS:HA	2.18	0.72
45:Lr:28:GLU:HG3	45:Lr:42:GLY:HA3	1.71	0.72
46:Lz:117:ILE:HG23	46:Lz:118:LYS:HG3	1.70	0.72
47:S2:380:G:OP1	54:SI:56:ARG:NH2	2.14	0.72
47:S2:1102:G:H2'	47:S2:1103:C:H6	1.52	0.72
47:S2:1449:G:O2'	47:S2:1450:G:H5'	1.90	0.72
51:SE:55:ALA:HB1	51:SE:60:GLU:CB	2.19	0.72
52:SF:114:ASN:O	52:SF:118:ASN:ND2	2.23	0.72
58:SQ:52:LEU:HD13	58:SQ:56:LEU:HD13	1.69	0.72
71:SJ:83:ARG:HD3	71:SJ:150:ARG:NH2	2.04	0.72
73:SN:2:GLY:HA3	73:SN:9:LYS:N	2.04	0.72
1:L5:403:G:H2'	1:L5:404:U:C6	2.24	0.72
1:L5:404:U:O2'	27:LY:87:ARG:NH1	2.21	0.72
1:L5:447:C:H42	1:L5:1299:G:H1	1.37	0.72
1:L5:1434:G:O6	1:L5:1450:C:N4	2.16	0.72
1:L5:1912:G:H2'	1:L5:1912:G:N3	2.04	0.72
1:L5:1986:U:H3	1:L5:2007:G:N2	1.87	0.72
1:L5:2455:G:N2	1:L5:2471:G:N7	2.37	0.72
1:L5:2716:C:C2'	1:L5:2717:G:H5'	2.19	0.72
1:L5:4258:C:H2'	1:L5:4259:C:C6	2.24	0.72
1:L5:5059:C:H2'	1:L5:5060:A:O4'	1.89	0.72
2:L7:34:C:H2'	2:L7:35:U:H6	1.54	0.72
5:LB:87:VAL:HG21	5:LB:110:ILE:CD1	2.19	0.72
5:LB:220:ILE:HG13	5:LB:278:THR:HG23	1.70	0.72
8:LE:108:LYS:HD2	8:LE:111:LYS:HD3	1.71	0.72
15:LM:126:GLU:O	15:LM:130:LEU:N	2.22	0.72
22:LT:108:ARG:O	22:LT:112:ASN:N	2.22	0.72
28:LZ:26:VAL:HG21	28:LZ:42:LEU:HD22	1.70	0.72
36:Lh:14:LYS:O	36:Lh:18:LEU:HG	1.90	0.72
46:Lz:95:LYS:CD	46:Lz:126:PRO:HB2	2.19	0.72
47:S2:150:A:H62	47:S2:168:C:H42	1.37	0.72
47:S2:337:C:H2'	47:S2:338:G:H5"	1.72	0.72
47:S2:855:G:C2'	47:S2:856:C:H5'	2.19	0.72
47:S2:1358:U:H5'	69:SC:114:LYS:HD3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1532:C:H4'	47:S2:1604:G:H21	1.55	0.72
48:SA:91:ALA:CA	48:SA:96:ALA:HB3	2.18	0.72
49:SB:145:LYS:NZ	59:SR:132:ARG:O	2.22	0.72
50:SD:213:PRO:CB	59:SR:19:LYS:HD2	2.19	0.72
59:SR:104:GLU:HA	59:SR:107:LYS:HG3	1.70	0.72
61:ST:113:VAL:HG23	61:ST:121:ARG:HD3	1.70	0.72
68:Sg:22:ALA:HB1	68:Sg:70:VAL:HG13	1.70	0.72
70:SG:219:GLU:HA	70:SG:222:GLU:HB3	1.72	0.72
78:Sb:23:ARG:HD2	78:Sb:27:SER:OG	1.89	0.72
1:L5:1512:G:OP1	29:La:7:LYS:NZ	2.23	0.72
1:L5:2258:C:H5'	1:L5:2259:G:OP1	1.89	0.72
1:L5:2480:G:N1	1:L5:2481:G:H1'	2.05	0.72
1:L5:2529:A:O2'	1:L5:2530:U:H5"	1.90	0.72
1:L5:2721:G:C2'	1:L5:2722:G:H5'	2.19	0.72
1:L5:3712:A:H4'	1:L5:3713:U:OP2	1.90	0.72
5:LB:206:PRO:HD2	5:LB:209:GLN:CD	2.15	0.72
11:LH:41:ILE:HG21	11:LH:73:ILE:HD11	1.72	0.72
18:LP:114:ILE:HA	18:LP:150:LEU:CD2	2.19	0.72
24:LV:16:ILE:HD12	24:LV:57:VAL:CG1	2.20	0.72
35:Lg:8:ARG:HH21	35:Lg:31:VAL:HG21	1.55	0.72
39:Lk:49:ASP:HB3	39:Lk:52:LYS:CG	2.19	0.72
47:S2:209:A:H2'	47:S2:210:U:H5'	1.69	0.72
47:S2:471:G:H4'	47:S2:472:C:OP1	1.87	0.72
47:S2:1091:C:OP1	73:SN:9:LYS:NZ	2.23	0.72
47:S2:1129:G:H5"	78:Sb:22:LYS:NZ	2.03	0.72
48:SA:77:ILE:CG2	48:SA:124:VAL:HG22	2.19	0.72
48:SA:99:ILE:HD11	48:SA:117:ARG:HH11	1.55	0.72
51:SE:221:ARG:HB2	51:SE:224:ASN:HD22	1.53	0.72
52:SF:39:ILE:HG13	52:SF:147:VAL:HG21	1.69	0.72
58:SQ:10:VAL:N	58:SQ:25:CYS:HB2	2.03	0.72
58:SQ:81:ILE:HA	58:SQ:84:ILE:HD12	1.69	0.72
68:Sg:297:THR:HA	68:Sg:310:TRP:O	1.90	0.72
70:SG:38:ALA:HB1	70:SG:41:LEU:CD2	2.19	0.72
76:SY:45:ALA:CB	76:SY:52:PRO:HB3	2.20	0.72
1:L5:1251:C:H1'	1:L5:1259:G:H1	1.55	0.72
1:L5:1369:C:H3'	1:L5:1370:G:H5'	1.72	0.72
1:L5:1413:C:C4	1:L5:1414:C:H1'	2.24	0.72
1:L5:2089:G:OP2	6:LC:294:LYS:NZ	2.20	0.72
1:L5:2253:A:H2'	1:L5:2254:G:H5"	1.70	0.72
1:L5:2412:A:H5'	1:L5:2413:U:OP2	1.89	0.72
1:L5:4212:A:N1	22:LT:3:ASN:ND2	2.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4403:U:C2'	1:L5:4404:U:H5'	2.19	0.72
7:LD:106:ALA:CB	7:LD:169:GLY:HA3	2.18	0.72
15:LM:120:ASN:O	15:LM:124:LYS:N	2.16	0.72
29:La:75:LEU:HB3	29:La:114:LYS:H	1.55	0.72
34:Lf:11:PHE:CD2	34:Lf:97:ILE:HA	2.23	0.72
46:Lz:25:ARG:HE	46:Lz:212:LYS:HD3	1.55	0.72
47:S2:786:G:C5'	70:SG:234:LEU:HB3	2.14	0.72
47:S2:1849:G:H1'	47:S2:1850:A:H5'	1.71	0.72
52:SF:194:ASP:HA	52:SF:197:GLU:CG	2.18	0.72
58:SQ:40:GLU:O	58:SQ:48:GLN:NE2	2.17	0.72
58:SQ:43:GLU:HG2	58:SQ:48:GLN:CD	2.13	0.72
69:SC:81:ILE:HG23	69:SC:86:LEU:HB2	1.70	0.72
72:SM:53:ALA:HA	72:SM:82:ASN:HD21	1.54	0.72
79:Se:35:ARG:O	79:Se:39:ASN:ND2	2.23	0.72
1:L5:1098:G:H2'	1:L5:1099:C:O4'	1.89	0.72
1:L5:1272:C:O2'	8:LE:72:LYS:HB3	1.89	0.72
1:L5:1281:G:P	8:LE:52:ARG:HH11	2.13	0.72
1:L5:3910:C:O2	1:L5:4396:A:N6	2.23	0.72
2:L7:33:U:H2'	2:L7:34:C:H5'	1.72	0.72
5:LB:17:LEU:O	5:LB:19:ARG:N	2.22	0.72
6:LC:24:LEU:CD1	6:LC:25:PRO:HD2	2.17	0.72
12:LI:80:CYS:HB3	12:LI:144:ASN:HD21	1.53	0.72
45:Lr:16:PHE:HB3	45:Lr:28:GLU:HB3	1.71	0.72
46:Lz:40:ASN:ND2	46:Lz:196:LYS:O	2.22	0.72
47:S2:73:C:H4'	47:S2:74:G:OP1	1.90	0.72
47:S2:912:C:O3'	47:S2:913:A:H3'	1.89	0.72
47:S2:1115:U:O2'	47:S2:1117:C:OP2	2.07	0.72
47:S2:1313:A:H3'	55:SK:8:ARG:HH12	1.55	0.72
47:S2:1466:G:OP1	59:SR:5:ARG:NH2	2.23	0.72
47:S2:1570:G:HO2'	47:S2:1614:A:HO2'	1.33	0.72
47:S2:1745:A:O3'	70:SG:31:ARG:NH1	2.22	0.72
51:SE:179:ASN:OD1	51:SE:230:LYS:NZ	2.22	0.72
57:SP:98:ASN:HB2	57:SP:99:GLY:HA3	1.70	0.72
59:SR:104:GLU:OE1	59:SR:104:GLU:N	2.19	0.72
70:SG:228:ILE:CD1	70:SG:231:ARG:HD2	2.16	0.72
72:SM:124:ILE:HA	72:SM:127:TYR:CE2	2.24	0.72
1:L5:996:G:O2'	1:L5:1048:G:OP2	2.08	0.72
1:L5:1089:G:N2	1:L5:1207:C:O2	2.21	0.72
1:L5:1332:C:H5"	33:Le:29:VAL:HG23	1.72	0.72
1:L5:1764:G:H1'	1:L5:1769:G:N1	2.04	0.72
1:L5:1975:G:C5	1:L5:1984:A:H1'	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2540:C:H2'	1:L5:2541:G:C8	2.24	0.72
1:L5:3638:G:C6	1:L5:3651:A:H2	2.08	0.72
1:L5:4037:C:N4	1:L5:4051:C:OP1	2.22	0.72
1:L5:4741:C:H2'	1:L5:4742:G:C8	2.25	0.72
1:L5:4749:C:C2'	1:L5:4750:G:H5"	2.18	0.72
2:L7:45:U:H2'	2:L7:46:C:O4'	1.89	0.72
4:LA:117:GLU:O	4:LA:162:ASN:ND2	2.22	0.72
10:LG:47:PRO:HG2	10:LG:49:ARG:HH21	1.54	0.72
11:LH:128:MET:HE1	11:LH:161:ILE:HG21	1.71	0.72
17:LO:110:PRO:HA	17:LO:113:ASP:HB3	1.72	0.72
23:LU:21:PHE:CE1	23:LU:80:LYS:HB2	2.24	0.72
28:LZ:92:ASP:OD2	28:LZ:95:VAL:HG23	1.90	0.72
36:Lh:96:ASN:OD1	36:Lh:99:GLU:HG3	1.90	0.72
47:S2:894:G:C2'	47:S2:895:G:H5"	2.19	0.72
47:S2:977:C:C2'	47:S2:978:G:H5"	2.19	0.72
47:S2:1284:A:O2'	72:SM:107:SER:OG	2.07	0.72
47:S2:1405:A:C2	47:S2:1406:G:H1'	2.23	0.72
47:S2:1414:A:H61	47:S2:1419:C:H42	1.36	0.72
48:SA:179:ALA:HA	48:SA:182:VAL:HG22	1.72	0.72
49:SB:144:LYS:HA	49:SB:208:HIS:HD2	1.55	0.72
50:SD:73:VAL:HB	50:SD:84:VAL:CG1	2.17	0.72
53:SH:28:LEU:O	53:SH:31:GLU:HG2	1.90	0.72
53:SH:145:ARG:O	53:SH:152:ARG:HA	1.90	0.72
58:SQ:21:ALA:CB	58:SQ:72:VAL:HG12	2.18	0.72
58:SQ:38:PRO:HB2	58:SQ:41:MET:CB	2.18	0.72
70:SG:55:GLY:H	70:SG:63:MET:HG2	1.54	0.72
72:SM:69:LEU:CD1	72:SM:74:ILE:HD13	2.20	0.72
74:SO:96:LYS:HA	74:SO:130:GLU:O	1.89	0.72
77:SZ:70:PRO:HA	77:SZ:88:LEU:CD1	2.19	0.72
1:L5:688:U:OP1	8:LE:108:LYS:HD3	1.90	0.72
1:L5:722:G:OP1	1:L5:935:A:N6	2.22	0.72
1:L5:1086:C:H2'	1:L5:1087:A:C8	2.25	0.72
1:L5:1291:G:H1'	1:L5:4942:C:H5	1.54	0.72
1:L5:1764:G:C2'	1:L5:1765:A:H5"	2.20	0.72
1:L5:2376:A:H2'	1:L5:2377:C:H6	1.54	0.72
1:L5:2439:G:H22	1:L5:2539:C:H1'	1.53	0.72
1:L5:2546:G:H3'	1:L5:2547:G:C5'	2.19	0.72
1:L5:3761:C:N4	47:S2:1710:C:H4'	2.05	0.72
4:LA:70:LYS:HG2	4:LA:71:LYS:H	1.55	0.72
8:LE:176:THR:CB	8:LE:186:LEU:HD23	2.19	0.72
29:La:19:HIS:ND1	29:La:25:HIS:HD2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:17:VAL:HG21	46:Lz:180:VAL:HA	1.71	0.72
47:S2:593:C:H4'	79:Se:26:LYS:NZ	2.04	0.72
47:S2:928:G:H1	47:S2:1013:U:H3	1.38	0.72
47:S2:1520:G:C5'	60:SS:136:THR:HG22	2.19	0.72
47:S2:1591:C:H4'	52:SF:85:LYS:HE2	1.70	0.72
47:S2:1755:C:O2'	47:S2:1778:C:N3	2.22	0.72
48:SA:10:MET:CE	48:SA:15:VAL:HG12	2.19	0.72
49:SB:32:ASP:OD1	49:SB:46:LYS:NZ	2.22	0.72
50:SD:107:TYR:HA	50:SD:110:LEU:CB	2.18	0.72
68:Sg:143:GLN:HG2	68:Sg:144:ASP:H	1.54	0.72
68:Sg:215:GLN:HB3	68:Sg:229:THR:CG2	2.19	0.72
69:SC:264:SER:C	69:SC:266:TYR:H	1.97	0.72
1:L5:498:C:O2'	1:L5:501:C:N4	2.23	0.71
1:L5:513:U:H3	1:L5:516:C:H42	1.35	0.71
1:L5:963:G:H1'	1:L5:2252:G:H1	1.53	0.71
1:L5:989:U:O2'	1:L5:1065:G:N2	2.23	0.71
1:L5:1280:C:H2'	1:L5:1281:G:C3'	2.16	0.71
1:L5:2479:G:H2'	1:L5:2480:G:C8	2.25	0.71
1:L5:3753:G:O2'	1:L5:3754:G:H5'	1.90	0.71
1:L5:4080:C:H2'	1:L5:4081:G:C8	2.24	0.71
1:L5:4344:U:H2'	1:L5:4345:C:C6	2.25	0.71
5:LB:71:GLU:HG3	25:LW:1:MET:N	2.05	0.71
7:LD:180:PHE:HB3	7:LD:181:PRO:HD2	1.70	0.71
17:LO:36:VAL:CG2	17:LO:108:ILE:HG12	2.18	0.71
31:Lc:81:LEU:HD12	31:Lc:84:ALA:HB3	1.70	0.71
34:Lf:50:VAL:HG21	34:Lf:102:ARG:HH21	1.54	0.71
37:Li:66:ASP:HA	37:Li:69:ALA:HB3	1.70	0.71
39:Lk:28:ASN:OD1	39:Lk:31:ASN:N	2.17	0.71
45:Lr:90:LEU:HD11	45:Lr:111:ILE:CG2	2.19	0.71
47:S2:123:G:O6	47:S2:339:A:N6	2.23	0.71
47:S2:389:A:H2'	47:S2:390:C:H6	1.54	0.71
47:S2:1094:C:H2'	47:S2:1095:U:H6	1.54	0.71
47:S2:1592:C:H5'	52:SF:87:LEU:HD21	1.71	0.71
51:SE:139:LEU:HD23	51:SE:150:PRO:CB	2.19	0.71
52:SF:179:ASN:HB3	52:SF:187:SER:OG	1.90	0.71
58:SQ:33:LYS:NZ	58:SQ:36:GLY:HA2	2.05	0.71
61:ST:113:VAL:HG21	61:ST:121:ARG:HD3	1.72	0.71
70:SG:162:LEU:HD22	70:SG:170:ARG:CD	2.14	0.71
1:L5:184:U:O2'	1:L5:254:G:N2	2.23	0.71
1:L5:973:G:O2'	9:LF:43:ARG:NH1	2.23	0.71
1:L5:4626:A:H5'	5:LB:53:MET:HE3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4763:U:O2'	11:LH:23:ARG:NH1	2.23	0.71
3:L8:151:G:OP2	10:LG:65:ARG:NE	2.19	0.71
5:LB:90:VAL:HG12	5:LB:161:ARG:O	1.90	0.71
5:LB:257:TRP:CD1	5:LB:258:HIS:HD2	2.06	0.71
8:LE:133:PHE:O	8:LE:138:ARG:NH2	2.23	0.71
13:LJ:85:LYS:HB3	13:LJ:115:LEU:HD22	1.71	0.71
18:LP:24:VAL:HG13	18:LP:90:PHE:CE2	2.26	0.71
24:LV:13:LYS:HE2	24:LV:124:GLU:HG2	1.70	0.71
45:Lr:41:ASN:HD21	45:Lr:44:ILE:HD13	1.54	0.71
47:S2:953:C:H2'	47:S2:954:U:O4'	1.89	0.71
47:S2:1073:U:H2'	47:S2:1074:C:H6	1.56	0.71
47:S2:1395:C:H1'	47:S2:1474:A:C5	2.24	0.71
49:SB:41:ILE:CG2	49:SB:74:LEU:HA	2.20	0.71
51:SE:180:LEU:CD2	51:SE:231:GLY:HA2	2.20	0.71
52:SF:32:ASP:OD2	52:SF:117:ILE:HG13	1.90	0.71
56:SL:38:LYS:NZ	56:SL:61:PRO:O	2.21	0.71
58:SQ:16:LYS:HG3	58:SQ:79:ALA:HB1	1.71	0.71
66:Sc:8:PRO:HB2	66:Sc:10:LYS:NZ	2.04	0.71
68:Sg:22:ALA:CB	68:Sg:70:VAL:HA	2.18	0.71
68:Sg:261:LEU:O	68:Sg:263:GLY:N	2.22	0.71
1:L5:518:G:N1	1:L5:643:C:H2'	2.05	0.71
1:L5:993:G:O6	1:L5:1050:C:H2'	1.89	0.71
1:L5:2760:G:H4'	1:L5:2761:U:C5'	2.20	0.71
1:L5:4039:G:H21	1:L5:4050:A:H2	1.38	0.71
1:L5:4948:C:O2'	1:L5:4949:G:OP1	2.07	0.71
5:LB:89:ILE:HD11	5:LB:153:MET:HE1	1.72	0.71
7:LD:36:LEU:HD12	7:LD:37:VAL:N	2.05	0.71
8:LE:44:CYS:SG	8:LE:46:ARG:NH2	2.63	0.71
9:LF:85:ALA:HA	22:LT:138:ALA:CB	2.19	0.71
23:LU:106:SER:OG	23:LU:109:SER:OG	2.08	0.71
29:La:125:LYS:HB3	29:La:147:VAL:CG2	2.20	0.71
47:S2:164:A:OP1	70:SG:82:SER:OG	2.08	0.71
47:S2:925:G:H2'	47:S2:926:A:H8	1.55	0.71
47:S2:1309:C:C5	72:SM:39:ALA:HB2	2.25	0.71
47:S2:1627:C:H4'	61:ST:41:LYS:HB3	1.72	0.71
47:S2:1693:G:H2'	47:S2:1694:U:H6	1.54	0.71
51:SE:184:THR:N	51:SE:224:ASN:O	2.19	0.71
62:SU:60:THR:HG22	62:SU:83:ARG:HD3	1.71	0.71
68:Sg:42:MET:O	68:Sg:56:GLN:N	2.16	0.71
71:SJ:37:LEU:HD11	71:SJ:106:LEU:HD23	1.72	0.71
1:L5:368:C:H2'	1:L5:369:G:H5'	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1620:U:O2'	1:L5:1621:A:H5'	1.91	0.71
1:L5:1758:G:H1'	1:L5:1775:A:H2	1.55	0.71
1:L5:2489:C:H4'	1:L5:2491:C:N3	2.05	0.71
1:L5:2521:G:H5"	35:Lg:25:THR:HG21	1.73	0.71
1:L5:3969:G:H1	1:L5:4052:C:H3'	1.55	0.71
1:L5:4093:G:H2'	1:L5:4094:G:C4	2.25	0.71
1:L5:4498:U:H2'	1:L5:4500:U:H5"	1.72	0.71
1:L5:4649:G:H2'	1:L5:4650:G:O4'	1.90	0.71
1:L5:4740:G:N1	1:L5:4960:G:H1'	2.04	0.71
9:LF:227:PHE:HA	9:LF:231:GLY:O	1.90	0.71
15:LM:97:ALA:HB1	17:LO:200:GLY:O	1.90	0.71
17:LO:51:LYS:NZ	17:LO:144:GLU:HB3	2.05	0.71
17:LO:80:PHE:HA	17:LO:83:THR:HG22	1.73	0.71
18:LP:4:TYR:CE2	18:LP:16:LYS:HB2	2.25	0.71
20:LR:14:VAL:HG23	20:LR:15:LEU:HD12	1.72	0.71
24:LV:49:LEU:HG	24:LV:50:ASN:ND2	2.04	0.71
39:Lk:49:ASP:HB3	39:Lk:52:LYS:HE3	1.71	0.71
46:Lz:206:ILE:HG21	46:Lz:212:LYS:O	1.90	0.71
47:S2:691:G:C3'	47:S2:692:G:H5"	2.18	0.71
47:S2:950:C:N4	47:S2:976:G:H1	1.89	0.71
47:S2:1304:U:OP1	80:Sf:95:ARG:N	2.18	0.71
47:S2:1535:U:O2'	52:SF:88:MET:SD	2.48	0.71
47:S2:1644:C:H4'	58:SQ:140:ARG:HB2	1.71	0.71
47:S2:1731:A:N6	47:S2:1803:U:O4	2.18	0.71
48:SA:15:VAL:HG23	48:SA:16:LEU:HD12	1.72	0.71
49:SB:30:TRP:CE2	74:SO:19:PRO:HD3	2.25	0.71
68:Sg:236:ILE:HA	68:Sg:252:THR:CG2	2.20	0.71
70:SG:233:ARG:HA	70:SG:236:SER:HB3	1.70	0.71
75:SW:11:LEU:HD21	75:SW:37:PHE:CE2	2.25	0.71
1:L5:711:A:O2'	1:L5:712:C:H5'	1.89	0.71
1:L5:956:A:H3'	1:L5:957:G:C8	2.26	0.71
1:L5:1668:A:H2'	1:L5:1669:A:H5'	1.72	0.71
1:L5:1912:G:O6	1:L5:2051:C:N4	2.23	0.71
1:L5:4731:G:N2	1:L5:4731:G:OP1	2.24	0.71
1:L5:5021:C:H2'	1:L5:5022:U:C4'	2.21	0.71
3:L8:103:A:H3'	3:L8:104:A:H5"	1.73	0.71
27:LY:2:LYS:CD	27:LY:7:VAL:HG23	2.13	0.71
31:Lc:35:LEU:HB3	31:Lc:39:ARG:NH2	2.04	0.71
47:S2:126:G:N2	70:SG:195:LYS:HB3	2.04	0.71
47:S2:1297:U:H1'	47:S2:1301:A:C2	2.26	0.71
48:SA:77:ILE:HG21	48:SA:124:VAL:HG22	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:87:MET:HE2	51:SE:236:ILE:HD13	1.73	0.71
53:SH:136:PRO:HG2	53:SH:166:VAL:CG2	2.21	0.71
55:SK:60:GLU:OE1	55:SK:69:TRP:NE1	2.24	0.71
65:Sa:102:ARG:HB2	65:Sa:103:PRO:HD2	1.71	0.71
1:L5:452:A:H2	1:L5:1294:A:H2'	1.56	0.71
1:L5:1307:A:H2'	1:L5:1308:C:H5'	1.70	0.71
1:L5:1503:A:H4'	1:L5:1504:G:H5'	1.73	0.71
1:L5:1629:G:N7	4:LA:9:ARG:NH2	2.39	0.71
1:L5:1971:C:OP2	1:L5:2016:C:N4	2.23	0.71
1:L5:1972:G:OP2	1:L5:2001:G:N1	2.23	0.71
1:L5:3653:A:C5'	4:LA:179:ILE:HD11	2.20	0.71
1:L5:4486:C:H2'	1:L5:4487:A:H5'	1.73	0.71
1:L5:4539:U:H2'	1:L5:4540:C:H5'	1.72	0.71
5:LB:141:ASP:HA	5:LB:144:LYS:NZ	2.06	0.71
6:LC:11:TYR:HA	6:LC:17:SER:HA	1.72	0.71
16:LN:124:ASP:OD2	16:LN:126:THR:N	2.22	0.71
23:LU:41:GLN:HA	23:LU:44:GLN:HB2	1.73	0.71
27:LY:43:ASN:HB3	27:LY:126:ARG:CD	2.19	0.71
47:S2:67:C:H4'	47:S2:68:A:N7	2.05	0.71
47:S2:339:A:H5"	47:S2:340:C:C6	2.26	0.71
54:SI:141:ARG:HB3	54:SI:145:ILE:CG1	2.20	0.71
54:SI:193:LYS:HG3	56:SL:32:LYS:NZ	2.04	0.71
68:Sg:22:ALA:HB2	68:Sg:70:VAL:HG22	1.72	0.71
68:Sg:42:MET:HB3	68:Sg:56:GLN:HB3	1.72	0.71
75:SW:88:LYS:HA	75:SW:91:ASN:OD1	1.90	0.71
1:L5:41:C:H42	1:L5:91:G:H1	1.39	0.71
1:L5:374:G:H2'	1:L5:375:G:H5'	1.72	0.71
1:L5:736:C:H3'	1:L5:737:C:H5"	1.73	0.71
1:L5:2305:U:C4	33:Le:106:LYS:HD3	2.25	0.71
1:L5:2775:C:H2'	1:L5:2776:G:C8	2.24	0.71
1:L5:4132:C:H2'	1:L5:4133:C:H6	1.53	0.71
1:L5:4200:G:N2	12:LI:116:ARG:HE	1.87	0.71
5:LB:321:VAL:O	5:LB:323:TYR:N	2.22	0.71
7:LD:205:ALA:HA	7:LD:208:MET:HB3	1.72	0.71
8:LE:132:PRO:HG2	8:LE:135:GLN:OE1	1.91	0.71
9:LF:118:PHE:CE1	9:LF:216:PRO:HD3	2.25	0.71
10:LG:59:ARG:HG2	10:LG:62:ARG:NH2	2.05	0.71
13:LJ:10:ASN:OD1	13:LJ:11:PRO:HD3	1.91	0.71
47:S2:677:G:N1	47:S2:1027:A:OP2	2.24	0.71
47:S2:1314:U:C1'	55:SK:3:MET:HE1	2.19	0.71
47:S2:1610:G:N1	47:S2:1630:A:H1'	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1709:G:O2'	47:S2:1710:C:H5'	1.91	0.71
47:S2:1784:G:H2'	47:S2:1785:C:H5'	1.71	0.71
49:SB:30:TRP:CB	74:SO:19:PRO:HB3	2.20	0.71
50:SD:197:LYS:O	50:SD:198:ILE:HG23	1.91	0.71
55:SK:22:VAL:HA	55:SK:68:TYR:CD1	2.26	0.71
70:SG:5:ILE:CD1	70:SG:111:LEU:HD22	2.20	0.71
70:SG:69:THR:O	70:SG:99:GLY:HA3	1.91	0.71
1:L5:961:G:O6	1:L5:969:C:H5"	1.91	0.71
1:L5:1370:G:H4'	1:L5:1371:A:H5'	1.73	0.71
1:L5:4745:G:H22	1:L5:4955:A:H2	1.38	0.71
5:LB:140:GLU:O	5:LB:144:LYS:NZ	2.23	0.71
9:LF:95:ILE:O	9:LF:223:LYS:HD2	1.91	0.71
14:LL:142:GLU:O	14:LL:146:LEU:HB2	1.91	0.71
17:LO:168:TYR:CE2	17:LO:172:LYS:HD2	2.26	0.71
34:Lf:50:VAL:CA	34:Lf:69:VAL:HG12	2.20	0.71
36:Lh:3:LYS:HB3	36:Lh:4:ILE:CA	2.07	0.71
47:S2:306:C:H5"	47:S2:307:G:C6	2.26	0.71
47:S2:744:G:O2'	53:SH:107:LYS:NZ	2.16	0.71
47:S2:1207:G:O2'	47:S2:1208:A:OP2	2.09	0.71
47:S2:1281:G:H5"	72:SM:101:ARG:HA	1.71	0.71
47:S2:1421:A:N6	47:S2:1426:U:O4	2.24	0.71
47:S2:1651:A:H62	47:S2:1674:G:H21	1.37	0.71
54:SI:66:SER:HB2	54:SI:73:THR:HG22	1.71	0.71
58:SQ:33:LYS:HZ3	58:SQ:36:GLY:HA2	1.54	0.71
58:SQ:57:LEU:HD21	58:SQ:112:LEU:CD1	2.21	0.71
68:Sg:31:ILE:HG23	68:Sg:43:TRP:HB2	1.71	0.71
69:SC:180:VAL:CG1	69:SC:181:PRO:HD2	2.20	0.71
1:L5:281:U:C2'	1:L5:282:C:H5'	2.20	0.71
1:L5:988:C:H3'	1:L5:989:U:H5"	1.71	0.71
1:L5:1078:A:H5'	1:L5:1079:C:OP2	1.90	0.71
1:L5:1308:C:H2'	1:L5:1309:C:C6	2.26	0.71
1:L5:1534:A:OP1	38:Lj:30:GLN:NE2	2.22	0.71
1:L5:1929:A:C8	1:L5:1932:A:H1'	2.26	0.71
1:L5:3939:G:H2'	1:L5:3940:U:H5'	1.73	0.71
1:L5:4888:U:H2'	1:L5:4889:G:C8	2.25	0.71
4:LA:114:CYS:SG	4:LA:165:VAL:HG13	2.30	0.71
4:LA:120:PRO:HA	4:LA:162:ASN:HB3	1.73	0.71
6:LC:218:ILE:HA	6:LC:229:LEU:CD1	2.20	0.71
13:LJ:34:THR:O	13:LJ:38:LYS:HG2	1.90	0.71
18:LP:18:ARG:HA	18:LP:94:MET:HE3	1.72	0.71
20:LR:103:ARG:NH1	20:LR:124:TYR:OH	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Le:118:LEU:HD22	33:Le:120:ILE:CD1	2.21	0.71
47:S2:62:G:H2'	47:S2:63:U:H5'	1.73	0.71
47:S2:1385:G:H2'	47:S2:1386:A:H8	1.55	0.71
47:S2:1597:C:O5'	77:SZ:85:ARG:NH1	2.23	0.71
48:SA:180:ARG:HH11	48:SA:184:ARG:NH2	1.88	0.71
66:Sc:11:LEU:HB3	66:Sc:55:VAL:CG1	2.20	0.71
68:Sg:216:ALA:C	68:Sg:229:THR:HG23	2.16	0.71
78:Sb:31:TYR:HE1	78:Sb:33:MET:HG3	1.56	0.71
1:L5:916:C:H2'	1:L5:917:A:H5'	1.71	0.71
1:L5:1178:G:H21	1:L5:1184:A:N6	1.89	0.71
1:L5:1778:C:C2'	1:L5:1779:U:H5'	2.20	0.71
1:L5:1838:A:OP2	9:LF:202:LYS:NZ	2.19	0.71
1:L5:1895:G:H2'	1:L5:1896:A:O4'	1.90	0.71
1:L5:1986:U:H3'	1:L5:2008:U:O4	1.91	0.71
1:L5:2479:G:O6	1:L5:2499:C:N4	2.21	0.71
1:L5:2653:C:OP1	35:Lg:54:ARG:NH2	2.20	0.71
1:L5:4320:G:N3	1:L5:4328:G:N2	2.38	0.71
1:L5:4368:G:H21	43:Lo:82:MET:HE1	1.54	0.71
1:L5:4414:A:OP1	12:LI:154:ARG:NH1	2.23	0.71
4:LA:29:LEU:HA	4:LA:76:PHE:CE1	2.26	0.71
4:LA:174:ARG:HA	44:Lp:69:TRP:CH2	2.26	0.71
5:LB:304:SER:HB3	5:LB:309:LEU:HA	1.71	0.71
6:LC:284:MET:CE	19:LQ:124:ASP:HB3	2.20	0.71
13:LJ:113:ILE:HD11	60:SS:14:ARG:HD3	1.72	0.71
13:LJ:153:ALA:HB2	13:LJ:156:ARG:HG2	1.73	0.71
14:LL:168:VAL:HG12	29:La:96:GLY:HA3	1.73	0.71
16:LN:153:LYS:HB2	16:LN:154:PRO:HD2	1.73	0.71
46:Lz:207:LYS:NZ	46:Lz:213:PRO:HB3	2.06	0.71
47:S2:181:A:H1'	47:S2:182:C:C6	2.26	0.71
47:S2:551:U:H2'	47:S2:552:G:H8	1.53	0.71
47:S2:1260:A:H2'	47:S2:1261:C:C6	2.26	0.71
47:S2:1589:A:H2'	47:S2:1590:C:C6	2.26	0.71
50:SD:69:LEU:HA	50:SD:72:VAL:CG2	2.21	0.71
52:SF:102:LEU:CD1	77:SZ:110:THR:HG21	2.20	0.71
58:SQ:12:VAL:HG11	58:SQ:90:LYS:C	2.16	0.71
69:SC:187:ARG:CD	69:SC:192:LEU:HD12	2.20	0.71
69:SC:227:ARG:HG3	69:SC:228:GLY:N	2.05	0.71
70:SG:20:ASP:HB3	70:SG:21:GLU:OE1	1.91	0.71
77:SZ:46:ASN:O	77:SZ:47:LEU:HD12	1.91	0.71
80:Sf:118:ARG:NH1	80:Sf:134:SER:HB3	2.06	0.71
80:Sf:141:CYS:HB2	80:Sf:145:CYS:CA	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:290:U:O2	1:L5:298:G:N1	2.24	0.70
1:L5:1443:A:N1	1:L5:1444:G:N2	2.39	0.70
1:L5:3938:G:OP2	16:LN:24:ARG:NE	2.20	0.70
1:L5:4048:A:OP1	1:L5:4048:A:H4'	1.90	0.70
1:L5:4461:C:O2'	1:L5:4462:C:H5'	1.91	0.70
1:L5:4674:C:H2'	1:L5:4675:U:H6	1.54	0.70
1:L5:5013:C:H4'	1:L5:5014:A:OP2	1.89	0.70
2:L7:11:A:H4'	2:L7:13:A:N7	2.06	0.70
2:L7:99:G:OP2	21:LS:55:LYS:NZ	2.23	0.70
3:L8:43:A:H4'	38:Lj:22:CYS:O	1.91	0.70
6:LC:24:LEU:HD11	6:LC:28:PHE:HD2	1.55	0.70
6:LC:205:ARG:NH1	6:LC:228:THR:HG21	2.05	0.70
7:LD:37:VAL:CG1	7:LD:67:ALA:HB2	2.21	0.70
9:LF:236:ARG:NH2	9:LF:243:LEU:HD13	2.05	0.70
10:LG:96:LEU:HB2	10:LG:99:ALA:HB3	1.73	0.70
13:LJ:8:LYS:O	13:LJ:11:PRO:HD2	1.91	0.70
18:LP:30:ARG:NH2	18:LP:31:GLU:HG2	2.05	0.70
19:LQ:35:LEU:O	19:LQ:39:THR:HG22	1.91	0.70
20:LR:184:ILE:O	20:LR:188:LEU:N	2.24	0.70
23:LU:66:SER:O	23:LU:68:SER:N	2.23	0.70
24:LV:19:GLY:C	24:LV:20:LEU:HD12	2.16	0.70
24:LV:26:ILE:CG2	24:LV:103:GLY:H	2.02	0.70
46:Lz:203:ALA:HB1	46:Lz:215:ARG:CG	2.21	0.70
47:S2:811:A:H2'	47:S2:812:A:O4'	1.91	0.70
47:S2:989:C:O2	47:S2:1001:A:N6	2.24	0.70
47:S2:1275:G:O2'	47:S2:1322:G:N2	2.19	0.70
48:SA:141:ASN:ND2	63:SV:29:HIS:O	2.24	0.70
50:SD:123:LEU:HD11	50:SD:127:MET:CE	2.21	0.70
57:SP:94:VAL:HB	57:SP:96:VAL:HG23	1.73	0.70
68:Sg:167:SER:HB2	68:Sg:175:LYS:H	1.56	0.70
72:SM:126:GLU:HA	72:SM:129:LYS:CE	2.21	0.70
76:SY:37:LYS:HG2	76:SY:60:PHE:CE2	2.24	0.70
80:Sf:126:CYS:O	80:Sf:130:VAL:HG21	1.89	0.70
1:L5:312:G:H2'	1:L5:313:U:H6	1.55	0.70
1:L5:953:C:H2'	1:L5:954:C:C6	2.26	0.70
1:L5:1343:A:O2'	14:LL:10:LEU:HD21	1.91	0.70
1:L5:1767:A:H2'	1:L5:1769:G:O4'	1.90	0.70
1:L5:1866:U:O2'	1:L5:1867:A:O4'	2.09	0.70
1:L5:2107:C:H5"	1:L5:2126:G:N1	2.06	0.70
1:L5:2367:A:H1'	1:L5:2798:A:C2	2.26	0.70
1:L5:2564:G:H2'	1:L5:2565:A:O4'	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4509:U:H5”	24:LV:44:GLY:CA	2.21	0.70
6:LC:209:ILE:CG1	6:LC:227:ILE:HD11	2.19	0.70
8:LE:62:MET:HG3	8:LE:66:LYS:HE3	1.73	0.70
11:LH:13:PRO:O	11:LH:16:VAL:HG22	1.91	0.70
13:LJ:50:PHE:HB2	13:LJ:67:LYS:NZ	2.05	0.70
24:LV:13:LYS:HG2	24:LV:128:LEU:HD21	1.73	0.70
47:S2:538:U:C2	47:S2:540:U:H5’	2.26	0.70
51:SE:11:ARG:NH1	51:SE:21:ASP:OD1	2.22	0.70
53:SH:19:PHE:O	53:SH:23:ILE:HG12	1.90	0.70
57:SP:37:TYR:HA	60:SS:88:LYS:NZ	2.04	0.70
58:SQ:30:GLY:CA	58:SQ:64:ALA:HA	2.16	0.70
58:SQ:81:ILE:HA	58:SQ:84:ILE:HB	1.73	0.70
59:SR:41:ILE:HD11	59:SR:47:ARG:CB	2.20	0.70
59:SR:78:ARG:HA	59:SR:81:ARG:CG	2.21	0.70
62:SU:18:HIS:C	62:SU:92:HIS:HA	2.16	0.70
67:Sd:33:LYS:HE2	67:Sd:34:TYR:CE1	2.25	0.70
68:Sg:297:THR:HG23	68:Sg:311:GLN:NE2	2.05	0.70
74:SO:29:GLY:O	74:SO:93:LEU:HB2	1.91	0.70
1:L5:1684:A:O2’	1:L5:1685:G:H5’	1.91	0.70
1:L5:1774:C:H2’	1:L5:1775:A:H5”	1.73	0.70
1:L5:1830:G:H2’	1:L5:1831:G:H8	1.56	0.70
1:L5:2081:C:H4’	19:LQ:11:ARG:HB3	1.74	0.70
1:L5:3775:A:H5’	1:L5:3776:G:OP2	1.91	0.70
1:L5:4565:C:OP1	17:LO:68:ARG:NH1	2.21	0.70
5:LB:251:VAL:HG21	5:LB:267:ALA:HB3	1.73	0.70
9:LF:94:ARG:HA	9:LF:140:ILE:HG22	1.74	0.70
9:LF:196:THR:O	9:LF:197:VAL:HG12	1.91	0.70
9:LF:209:TRP:CD1	9:LF:210:PRO:HD2	2.26	0.70
19:LQ:157:GLY:O	19:LQ:188:ASN:ND2	2.24	0.70
20:LR:168:GLU:HA	20:LR:171:LYS:HG2	1.72	0.70
24:LV:48:ARG:HG2	24:LV:49:LEU:N	2.04	0.70
35:Lg:15:THR:HG22	35:Lg:16:ALA:H	1.56	0.70
39:Lk:68:GLU:C	39:Lk:69:LEU:HD12	2.16	0.70
47:S2:555:A:H3’	47:S2:556:U:C5’	2.22	0.70
47:S2:690:G:H2’	47:S2:691:G:C5’	2.21	0.70
47:S2:795:A:C2’	47:S2:796:G:H5’	2.20	0.70
47:S2:1279:C:C3’	47:S2:1280:G:H4’	2.21	0.70
47:S2:1325:G:H4’	47:S2:1510:G:H5”	1.73	0.70
47:S2:1636:G:H1’	52:SF:164:ARG:NH1	2.06	0.70
47:S2:1783:C:H4’	47:S2:1784:G:OP1	1.90	0.70
51:SE:11:ARG:NH2	51:SE:24:THR:O	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:15:PRO:CD	51:SE:18:TRP:HZ3	2.04	0.70
51:SE:87:MET:HB3	51:SE:100:ARG:CZ	2.19	0.70
51:SE:180:LEU:HD21	51:SE:231:GLY:HA2	1.72	0.70
60:SS:11:HIS:HA	60:SS:12:ILE:CB	2.20	0.70
60:SS:18:THR:O	60:SS:20:ILE:HD12	1.90	0.70
60:SS:20:ILE:HG12	60:SS:33:ILE:HG13	1.72	0.70
61:ST:42:HIS:NE2	61:ST:81:GLY:O	2.24	0.70
65:Sa:28:ARG:HD3	65:Sa:74:CYS:SG	2.31	0.70
68:Sg:127:LYS:HA	68:Sg:151:VAL:CG2	2.19	0.70
70:SG:160:LYS:HB3	70:SG:172:LYS:CB	2.21	0.70
77:SZ:50:PHE:CD1	77:SZ:55:TYR:HB2	2.26	0.70
79:Se:45:VAL:HG22	79:Se:46:VAL:H	1.55	0.70
1:L5:1217:G:H2'	1:L5:1218:G:C2	2.26	0.70
1:L5:1814:C:H4'	1:L5:1815:G:C8	2.26	0.70
1:L5:2436:U:H5	26:LX:130:PRO:HD3	1.56	0.70
1:L5:2695:A:H5'	1:L5:2696:A:C8	2.26	0.70
1:L5:3770:U:H2'	1:L5:3771:C:H5'	1.72	0.70
1:L5:4724:A:H4'	5:LB:102:PHE:O	1.91	0.70
4:LA:57:PRO:HG2	4:LA:78:ALA:CB	2.21	0.70
13:LJ:95:ARG:HH12	13:LJ:97:ASN:HD21	1.38	0.70
15:LM:104:MET:O	15:LM:109:ARG:NH2	2.24	0.70
34:Lf:72:GLY:HA3	34:Lf:88:PHE:CD1	2.27	0.70
47:S2:67:C:C6	70:SG:170:ARG:HD2	2.25	0.70
47:S2:113:G:N2	47:S2:292:A:H1'	2.06	0.70
47:S2:178:C:C3'	47:S2:313:A:H61	1.99	0.70
47:S2:443:U:H2'	47:S2:444:G:H5'	1.72	0.70
47:S2:1429:G:H2'	47:S2:1430:C:O4'	1.92	0.70
47:S2:1858:G:O2'	47:S2:1859:A:H5'	1.90	0.70
48:SA:79:SER:HB2	48:SA:130:ASP:OD1	1.90	0.70
49:SB:111:CYS:HB2	65:Sa:68:TYR:HD2	1.55	0.70
50:SD:103:GLU:OE1	50:SD:106:ARG:NH2	2.24	0.70
52:SF:101:HIS:O	52:SF:105:GLY:N	2.25	0.70
72:SM:90:GLY:HA3	72:SM:98:GLY:HA2	1.72	0.70
74:SO:43:HIS:CD2	74:SO:55:ARG:HD3	2.26	0.70
75:SW:57:ARG:CZ	78:Sb:26:GLN:HG3	2.22	0.70
76:SY:27:VAL:HG11	76:SY:35:VAL:HG11	1.72	0.70
1:L5:1437:C:H1'	1:L5:2097:U:H5	1.55	0.70
1:L5:2245:G:H3'	1:L5:2245:G:N3	2.07	0.70
1:L5:2901:G:H22	1:L5:3597:G:H1	1.39	0.70
1:L5:4770:U:N3	1:L5:4863:G:N7	2.39	0.70
4:LA:101:VAL:HG22	4:LA:165:VAL:HB	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:63:TYR:CE1	8:LE:68:MET:HB3	2.27	0.70
10:LG:39:PHE:CD1	10:LG:47:PRO:HD3	2.27	0.70
10:LG:63:LEU:HD13	16:LN:32:GLN:HG3	1.73	0.70
16:LN:159:ARG:CG	16:LN:164:LEU:HB2	2.21	0.70
35:Lg:15:THR:HG22	35:Lg:16:ALA:N	2.07	0.70
47:S2:523:A:OP2	71:SJ:38:ARG:NH1	2.21	0.70
47:S2:903:A:H2	47:S2:904:A:H5"	1.55	0.70
47:S2:1097:G:H4'	48:SA:32:PHE:CE2	2.26	0.70
47:S2:1260:A:H2'	47:S2:1261:C:H6	1.57	0.70
47:S2:1520:G:H5"	60:SS:136:THR:HG22	1.72	0.70
47:S2:1711:U:H2'	47:S2:1712:A:C8	2.22	0.70
50:SD:47:GLU:CG	50:SD:85:GLU:HG3	2.21	0.70
51:SE:124:CYS:HA	51:SE:142:HIS:HE1	1.57	0.70
53:SH:76:GLN:O	53:SH:80:VAL:HG13	1.91	0.70
68:Sg:114:SER:OG	68:Sg:118:ARG:N	2.24	0.70
1:L5:2298:U:O2'	1:L5:2299:G:H5'	1.92	0.70
22:LT:17:ARG:HG2	22:LT:18:PRO:HD2	1.74	0.70
34:Lf:11:PHE:HE1	34:Lf:26:ALA:HB1	1.57	0.70
47:S2:77:A:OP1	70:SG:154:ARG:NH1	2.20	0.70
47:S2:114:G:H1'	47:S2:383:G:O4'	1.92	0.70
47:S2:320:G:H1	47:S2:331:C:H42	1.37	0.70
47:S2:1013:U:H2'	47:S2:1014:G:H5'	1.74	0.70
47:S2:1395:C:H2'	47:S2:1396:A:H5"	1.73	0.70
47:S2:1453:C:H1'	47:S2:1455:A:C5'	2.22	0.70
47:S2:1516:G:H2'	47:S2:1517:G:O4'	1.91	0.70
47:S2:1667:U:H2'	47:S2:1668:U:H6	1.55	0.70
47:S2:1849:G:H1'	47:S2:1850:A:O5'	1.90	0.70
49:SB:125:VAL:HG21	49:SB:173:THR:OG1	1.91	0.70
52:SF:101:HIS:CE1	52:SF:105:GLY:HA2	2.26	0.70
53:SH:20:GLU:HG3	53:SH:48:ALA:HB3	1.73	0.70
72:SM:96:ARG:HG3	72:SM:99:ASN:HA	1.73	0.70
1:L5:747:A:O2'	1:L5:748:G:OP2	2.09	0.70
1:L5:1398:A:OP1	29:La:136:LYS:NZ	2.23	0.70
1:L5:2760:G:H1'	1:L5:2761:U:OP2	1.92	0.70
1:L5:3786:U:OP1	1:L5:4550:G:O2'	2.09	0.70
1:L5:3848:U:H2'	1:L5:3849:A:H8	1.56	0.70
1:L5:4362:A:H2'	1:L5:4363:A:H8	1.55	0.70
6:LC:124:ILE:HD13	6:LC:237:ILE:HG13	1.72	0.70
13:LJ:128:LEU:HD13	13:LJ:130:PHE:CE1	2.27	0.70
25:LW:110:ARG:NH1	25:LW:114:GLU:OE1	2.24	0.70
29:La:73:VAL:HB	29:La:108:TYR:CG	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:Lb:69:ALA:O	30:Lb:72:ILE:HG22	1.91	0.70
46:Lz:126:PRO:HA	46:Lz:130:LYS:HB3	1.72	0.70
47:S2:92:A:H4'	47:S2:93:U:OP2	1.92	0.70
47:S2:748:C:H4'	47:S2:796:G:H1	1.52	0.70
48:SA:5:LEU:HD21	63:SV:41:LYS:HA	1.73	0.70
56:SL:17:PHE:CZ	56:SL:19:ASN:HB2	2.26	0.70
57:SP:17:TYR:HD1	60:SS:91:LYS:HG3	1.57	0.70
69:SC:165:VAL:HG22	69:SC:244:ILE:HD13	1.73	0.70
76:SY:55:ILE:CA	76:SY:75:ILE:HG12	2.19	0.70
1:L5:55:G:OP1	38:Lj:43:ARG:NH2	2.22	0.70
1:L5:751:G:H3'	1:L5:751:G:N3	2.07	0.70
1:L5:1238:A:H4'	1:L5:1239:C:OP2	1.91	0.70
1:L5:4377:G:O6	29:La:42:ARG:NH2	2.24	0.70
3:L8:67:U:O4	3:L8:91:A:N6	2.19	0.70
12:LI:38:ARG:CG	12:LI:41:ALA:HB2	2.22	0.70
12:LI:181:PHE:HE1	12:LI:197:VAL:HG21	1.55	0.70
14:LL:65:ARG:HD2	14:LL:66:TYR:CE2	2.26	0.70
16:LN:22:LEU:HB3	16:LN:26:ARG:HH12	1.56	0.70
17:LO:36:VAL:HG21	17:LO:108:ILE:HG23	1.72	0.70
22:LT:118:GLU:HB2	22:LT:122:LYS:CE	2.22	0.70
26:LX:106:LYS:CE	26:LX:124:VAL:HG23	2.21	0.70
47:S2:617:G:H4'	64:SX:88:ASP:HA	1.73	0.70
47:S2:927:C:H2'	47:S2:928:G:H8	1.56	0.70
47:S2:1274:G:H3'	47:S2:1274:G:OP2	1.92	0.70
52:SF:69:VAL:HG22	52:SF:112:LEU:HD21	1.73	0.70
60:SS:20:ILE:HG12	60:SS:33:ILE:CG1	2.22	0.70
66:Sc:52:GLU:HG3	66:Sc:53:GLY:H	1.56	0.70
1:L5:512:U:H3	1:L5:647:G:H1	1.38	0.70
1:L5:989:U:O2'	1:L5:990:C:O4'	2.09	0.70
1:L5:1986:U:H5"	1:L5:2008:U:H3	1.57	0.70
1:L5:3692:A:N6	1:L5:3823:G:H21	1.89	0.70
1:L5:4861:G:H3'	1:L5:4862:G:N7	2.06	0.70
1:L5:4945:G:N2	34:Lf:68:ARG:HA	2.06	0.70
12:LI:150:GLU:HA	12:LI:153:ARG:HG2	1.74	0.70
14:LL:31:ARG:HA	14:LL:34:ARG:HG2	1.72	0.70
31:Lc:43:ALA:HA	31:Lc:97:ILE:HD13	1.72	0.70
32:Ld:36:VAL:HG23	32:Ld:41:ARG:HG2	1.73	0.70
43:Lo:71:GLU:HG3	43:Lo:78:ARG:HD2	1.74	0.70
44:Lp:30:GLU:O	44:Lp:34:HIS:ND1	2.24	0.70
47:S2:171:A:N6	47:S2:173:A:N3	2.39	0.70
47:S2:617:G:N2	47:S2:632:C:O4'	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1429:G:OP1	58:SQ:69:ARG:NH2	2.25	0.70
48:SA:79:SER:O	48:SA:84:GLN:NE2	2.25	0.70
49:SB:149:GLN:NE2	49:SB:153:THR:O	2.24	0.70
57:SP:20:VAL:HG13	57:SP:24:GLN:CG	2.22	0.70
62:SU:66:ARG:NH2	62:SU:75:LYS:HA	2.07	0.70
66:Sc:13:ARG:HA	66:Sc:54:ASP:O	1.90	0.70
68:Sg:44:LYS:HB2	68:Sg:54:ILE:HG23	1.74	0.70
72:SM:49:LEU:HD21	72:SM:128:PHE:CD1	2.27	0.70
76:SY:27:VAL:CG2	76:SY:35:VAL:HG21	2.20	0.70
1:L5:1586:G:H2'	1:L5:1587:G:H5'	1.72	0.70
5:LB:291:TYR:C	5:LB:292:LEU:HD12	2.16	0.70
6:LC:124:ILE:HG21	6:LC:264:TYR:OH	1.90	0.70
11:LH:28:LYS:HG2	11:LH:33:THR:CB	2.21	0.70
11:LH:137:SER:HB3	11:LH:143:GLU:O	1.92	0.70
14:LL:8:MET:CE	19:LQ:166:TYR:HB3	2.22	0.70
27:LY:56:GLN:HG3	27:LY:67:ILE:HD12	1.73	0.70
27:LY:118:ILE:HG23	27:LY:119:LEU:HD12	1.72	0.70
47:S2:589:G:H4'	47:S2:590:A:C8	2.27	0.70
47:S2:647:U:H2'	47:S2:648:A:H8	1.56	0.70
47:S2:1547:C:O2	47:S2:1670:C:H1'	1.91	0.70
48:SA:30:LEU:HD21	48:SA:35:GLU:CA	2.21	0.70
48:SA:76:VAL:HG22	48:SA:123:VAL:CG2	2.21	0.70
49:SB:40:ASN:HB3	49:SB:75:GLN:HG2	1.73	0.70
49:SB:71:LEU:HG	49:SB:74:LEU:HD23	1.74	0.70
49:SB:127:VAL:HG12	49:SB:173:THR:HG23	1.74	0.70
52:SF:101:HIS:ND1	52:SF:105:GLY:HA2	2.07	0.70
53:SH:76:GLN:HA	53:SH:79:LEU:HB3	1.72	0.70
53:SH:157:HIS:HA	53:SH:188:GLU:O	1.91	0.70
54:SI:27:TYR:CE1	54:SI:28:GLU:HG2	2.27	0.70
58:SQ:47:LEU:HD22	58:SQ:50:LYS:CE	2.22	0.70
58:SQ:108:ILE:O	58:SQ:112:LEU:HG	1.92	0.70
62:SU:39:LEU:CD1	62:SU:89:ILE:HD13	2.22	0.70
71:SJ:169:ARG:HH12	71:SJ:175:ARG:HH21	1.40	0.70
1:L5:491:G:N2	1:L5:663:G:N3	2.39	0.69
1:L5:746:A:O2'	1:L5:747:A:OP2	2.09	0.69
1:L5:961:G:N7	8:LE:123:ARG:NE	2.36	0.69
1:L5:1197:C:N4	1:L5:1198:G:O6	2.25	0.69
1:L5:1660:U:O2	29:La:12:ARG:HD2	1.90	0.69
1:L5:4143:G:N2	1:L5:4145:C:O2'	2.25	0.69
2:L7:6:C:OP1	7:LD:54:ARG:NE	2.19	0.69
5:LB:59:GLU:HB2	5:LB:366:LYS:HE2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LC:299:GLN:HA	6:LC:302:LEU:HD12	1.74	0.69
6:LC:333:LYS:HE3	8:LE:54:ILE:CG1	2.19	0.69
8:LE:95:PRO:N	8:LE:96:VAL:HA	2.06	0.69
11:LH:23:ARG:NH2	11:LH:39:ASN:HA	2.07	0.69
12:LI:60:LEU:O	12:LI:126:VAL:HG23	1.92	0.69
13:LJ:112:HIS:HB3	13:LJ:125:ILE:HA	1.73	0.69
14:LL:168:VAL:HG12	29:La:96:GLY:CA	2.22	0.69
19:LQ:85:THR:CG2	19:LQ:104:ARG:HD3	2.22	0.69
31:Lc:31:TYR:CE1	31:Lc:60:ILE:HD11	2.27	0.69
31:Lc:59:GLU:HG2	31:Lc:63:TYR:HE1	1.57	0.69
47:S2:681:U:H5"	64:SX:8:ARG:O	1.91	0.69
47:S2:750:C:H3'	47:S2:751:G:H4'	1.74	0.69
47:S2:949:G:H2'	47:S2:950:C:C6	2.27	0.69
47:S2:1046:U:H1'	74:SO:140:THR:CG2	2.22	0.69
47:S2:1164:G:O2'	47:S2:1165:G:H5'	1.91	0.69
47:S2:1525:C:H2'	47:S2:1526:G:C5'	2.17	0.69
47:S2:1637:A:O4'	47:S2:1638:G:N2	2.24	0.69
47:S2:1757:G:H2'	47:S2:1758:G:C5'	2.14	0.69
50:SD:195:THR:HA	50:SD:199:GLY:CA	2.22	0.69
52:SF:188:TYR:CE1	52:SF:192:LYS:HD3	2.26	0.69
53:SH:107:LYS:O	53:SH:113:LYS:NZ	2.18	0.69
53:SH:163:GLN:HG2	53:SH:189:PHE:CE2	2.27	0.69
54:SI:43:ILE:HA	54:SI:57:ALA:HA	1.73	0.69
57:SP:39:ALA:O	57:SP:42:ARG:HG2	1.92	0.69
60:SS:44:VAL:HG11	60:SS:70:ILE:HG13	1.74	0.69
68:Sg:20:GLN:HB3	68:Sg:69:VAL:HG12	1.72	0.69
68:Sg:87:LEU:HD21	68:Sg:120:ILE:HD13	1.72	0.69
70:SG:44:GLU:HG2	70:SG:122:PRO:CD	2.22	0.69
72:SM:75:ASN:HA	72:SM:76:LEU:HB2	1.74	0.69
73:SN:84:LEU:HD12	73:SN:135:LEU:HD21	1.74	0.69
75:SW:42:MET:HG3	75:SW:47:ILE:HG13	1.73	0.69
76:SY:27:VAL:HG11	76:SY:35:VAL:HG21	1.74	0.69
1:L5:300:A:H2'	1:L5:301:G:C8	2.26	0.69
1:L5:504:G:H21	1:L5:655:C:H1'	1.56	0.69
1:L5:721:G:H2'	1:L5:722:G:C8	2.26	0.69
1:L5:1534:A:C2	38:Lj:11:ARG:HB3	2.27	0.69
1:L5:1907:A:N6	1:L5:1908:A:N1	2.41	0.69
1:L5:3707:U:H2'	1:L5:3708:C:C6	2.27	0.69
3:L8:21:C:OP1	6:LC:195:LYS:HD2	1.91	0.69
5:LB:89:ILE:HD12	5:LB:90:VAL:N	2.07	0.69
5:LB:92:TYR:OH	5:LB:182:GLU:OE1	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:87:LYS:CE	8:LE:106:VAL:HG21	2.21	0.69
8:LE:115:TYR:CZ	45:Lr:119:ARG:HD2	2.27	0.69
12:LI:60:LEU:O	12:LI:60:LEU:HD12	1.92	0.69
18:LP:113:VAL:HG11	18:LP:153:LYS:HD3	1.74	0.69
25:LW:4:GLU:OE2	25:LW:30:GLN:NE2	2.25	0.69
28:LZ:5:MET:O	28:LZ:28:ASN:ND2	2.22	0.69
32:Ld:94:GLU:OE2	32:Ld:101:LYS:HD2	1.91	0.69
39:Lk:49:ASP:HB3	39:Lk:52:LYS:CD	2.22	0.69
40:Ll:27:ILE:HD12	40:Ll:30:LYS:CD	2.22	0.69
41:Lm:77:ILE:CG2	41:Lm:78:ILE:H	2.02	0.69
46:Lz:179:LEU:HA	46:Lz:182:ASN:HB2	1.72	0.69
47:S2:440:G:H1	47:S2:453:C:H42	1.39	0.69
47:S2:1344:A:N3	47:S2:1345:G:H1'	2.06	0.69
47:S2:1422:G:C2'	47:S2:1423:C:H5"	2.20	0.69
47:S2:1471:C:H2'	47:S2:1472:C:C6	2.27	0.69
48:SA:172:GLY:HA2	48:SA:175:TRP:CD1	2.23	0.69
49:SB:197:ILE:HD11	49:SB:210:VAL:HG11	1.73	0.69
50:SD:45:ARG:HA	50:SD:83:SER:HA	1.74	0.69
50:SD:93:THR:CB	50:SD:96:LEU:HD13	2.21	0.69
50:SD:106:ARG:O	50:SD:110:LEU:HG	1.92	0.69
58:SQ:38:PRO:HG3	61:ST:8:ASP:CA	2.21	0.69
58:SQ:54:PRO:O	58:SQ:57:LEU:HB3	1.92	0.69
64:SX:53:GLU:CG	64:SX:55:VAL:HG13	2.21	0.69
68:Sg:239:LEU:HG	68:Sg:250:ALA:HB2	1.73	0.69
68:Sg:245:ARG:HD3	68:Sg:247:TRP:CZ2	2.27	0.69
80:Sf:108:VAL:HG22	80:Sf:114:ILE:HG12	1.74	0.69
1:L5:258:G:H2'	1:L5:259:C:N1	2.07	0.69
1:L5:397:G:C2'	1:L5:398:A:H5'	2.23	0.69
1:L5:473:C:H2'	1:L5:474:C:H6	1.56	0.69
1:L5:480:C:H42	1:L5:674:G:H1	1.38	0.69
1:L5:964:A:N6	1:L5:2252:G:O4'	2.26	0.69
1:L5:1756:U:C5	1:L5:1758:G:H4'	2.27	0.69
1:L5:1905:U:O2	9:LF:215:SER:OG	2.09	0.69
1:L5:3973:G:H22	1:L5:4050:A:H2'	1.56	0.69
3:L8:154:G:H5"	10:LG:89:ARG:HH22	1.55	0.69
5:LB:293:ILE:HA	5:LB:297:LYS:HB3	1.74	0.69
14:LL:129:ARG:NH2	36:Lh:115:PRO:HB2	2.07	0.69
15:LM:130:LEU:CD2	17:LO:177:LEU:HD22	2.22	0.69
18:LP:32:THR:CG2	18:LP:58:VAL:HG11	2.21	0.69
19:LQ:86:ILE:HG12	19:LQ:105:VAL:HG22	1.73	0.69
28:LZ:9:LYS:HA	28:LZ:86:SER:OG	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:Li:102:ALA:HB3	46:Lz:10:LEU:CD2	2.23	0.69
47:S2:192:C:OP1	54:SI:140:LYS:HE2	1.92	0.69
47:S2:1314:U:H2'	47:S2:1315:U:H4'	1.74	0.69
51:SE:72:ILE:CD1	51:SE:90:ILE:HG12	2.22	0.69
53:SH:64:VAL:O	53:SH:96:ALA:HA	1.91	0.69
58:SQ:78:VAL:HG13	58:SQ:81:ILE:HD12	1.74	0.69
59:SR:80:ARG:HG3	59:SR:84:TYR:HE2	1.57	0.69
68:Sg:119:GLN:NE2	68:Sg:131:LEU:HA	2.08	0.69
68:Sg:122:SER:HB2	68:Sg:129:ILE:CA	2.22	0.69
68:Sg:156:PHE:CE1	68:Sg:165:ILE:HG22	2.28	0.69
68:Sg:165:ILE:CD1	68:Sg:177:TRP:HB2	2.22	0.69
68:Sg:206:LEU:HD13	68:Sg:218:LEU:HD23	1.74	0.69
72:SM:123:VAL:HG23	72:SM:124:ILE:HG23	1.74	0.69
76:SY:57:VAL:HG12	76:SY:73:GLY:HA3	1.72	0.69
80:Sf:141:CYS:C	80:Sf:145:CYS:HA	2.17	0.69
1:L5:1289:C:H2'	1:L5:1290:G:O4'	1.93	0.69
1:L5:1506:G:O2'	6:LC:116:ASN:ND2	2.25	0.69
1:L5:2608:G:N2	1:L5:2732:G:N3	2.40	0.69
1:L5:2838:G:C5'	5:LB:247:GLY:HA2	2.21	0.69
1:L5:4403:U:H2'	1:L5:4404:U:H5'	1.73	0.69
1:L5:5065:U:H1'	18:LP:75:GLN:NE2	2.08	0.69
5:LB:220:ILE:HG13	5:LB:278:THR:CG2	2.22	0.69
5:LB:293:ILE:O	5:LB:297:LYS:HA	1.92	0.69
10:LG:259:LYS:O	10:LG:263:THR:N	2.18	0.69
16:LN:75:VAL:CG2	16:LN:76:PRO:HD2	2.22	0.69
18:LP:114:ILE:HG12	18:LP:150:LEU:HD21	1.75	0.69
24:LV:27:ASN:ND2	24:LV:100:ASP:OD2	2.25	0.69
29:La:130:SER:HB3	29:La:133:ALA:HB3	1.72	0.69
36:Lh:53:SER:HA	36:Lh:56:ARG:NH2	2.07	0.69
46:Lz:31:THR:HA	46:Lz:171:HIS:HD2	1.57	0.69
47:S2:1007:C:H2'	73:SN:101:HIS:HD2	1.55	0.69
47:S2:1331:C:O4'	47:S2:1489:A:O2'	2.10	0.69
47:S2:1553:C:H4'	47:S2:1554:C:C5	2.27	0.69
54:SI:173:ALA:CB	54:SI:189:VAL:HA	2.22	0.69
59:SR:99:ASP:HB2	59:SR:100:PRO:HD2	1.73	0.69
60:SS:34:LYS:CB	60:SS:100:ALA:HA	2.22	0.69
61:ST:124:THR:O	61:ST:128:GLN:N	2.26	0.69
66:Sc:8:PRO:HB2	66:Sc:10:LYS:HZ2	1.57	0.69
69:SC:104:ASP:HA	69:SC:130:ILE:CD1	2.23	0.69
1:L5:23:C:OP2	38:Lj:46:LYS:HE2	1.92	0.69
1:L5:62:A:OP1	16:LN:172:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:151:G:O6	10:LG:141:ASN:N	2.25	0.69
1:L5:748:G:N7	1:L5:918:G:O2'	2.25	0.69
1:L5:1068:G:H2'	1:L5:1069:G:H8	1.57	0.69
1:L5:1426:G:N1	1:L5:1458:C:OP2	2.19	0.69
1:L5:2319:C:OP1	33:Le:62:SER:N	2.22	0.69
1:L5:2350:U:H5"	1:L5:2351:C:C5'	2.23	0.69
1:L5:4139:G:H2'	1:L5:4140:C:H5"	1.73	0.69
1:L5:4313:A:H4'	22:LT:71:ALA:CB	2.21	0.69
1:L5:4478:G:N2	1:L5:4608:G:O2'	2.26	0.69
3:L8:96:C:H5"	36:Lh:66:LYS:CE	2.22	0.69
5:LB:285:TYR:HD1	5:LB:363:ILE:HD13	1.57	0.69
6:LC:158:VAL:HA	6:LC:161:TYR:CE2	2.27	0.69
10:LG:165:GLU:HA	10:LG:168:VAL:CG2	2.21	0.69
11:LH:92:MET:SD	11:LH:181:VAL:HG22	2.32	0.69
14:LL:29:PRO:HD3	16:LN:202:ARG:NH1	2.08	0.69
15:LM:36:ALA:HB2	15:LM:52:PHE:CZ	2.27	0.69
19:LQ:70:MET:CE	19:LQ:80:ALA:HB2	2.22	0.69
43:Lo:21:HIS:CD2	43:Lo:72:CYS:HA	2.28	0.69
47:S2:118:C:H2'	47:S2:119:U:H5'	1.74	0.69
47:S2:222:U:H5"	56:SL:17:PHE:CD1	2.27	0.69
47:S2:697:G:H5"	47:S2:734:C:O2	1.92	0.69
47:S2:941:C:O3'	49:SB:136:ARG:NH2	2.25	0.69
47:S2:1074:C:O2'	47:S2:1075:C:H5'	1.92	0.69
47:S2:1314:U:C2'	47:S2:1315:U:H5'	2.22	0.69
47:S2:1452:A:H5'	47:S2:1453:C:C5	2.27	0.69
47:S2:1505:U:O2'	47:S2:1508:A:N3	2.24	0.69
47:S2:1516:G:O2'	60:SS:152:LYS:O	2.11	0.69
47:S2:1618:C:H3'	47:S2:1619:A:H8	1.56	0.69
48:SA:12:GLU:O	48:SA:15:VAL:HG22	1.93	0.69
49:SB:31:TYR:CD1	49:SB:94:LYS:HA	2.25	0.69
49:SB:119:THR:HG22	49:SB:120:MET:N	2.05	0.69
55:SK:60:GLU:HB3	55:SK:69:TRP:CD1	2.28	0.69
71:SJ:88:ASP:HB2	71:SJ:91:LYS:CB	2.22	0.69
72:SM:90:GLY:CA	72:SM:93:LYS:HD3	2.20	0.69
1:L5:993:G:C6	1:L5:1050:C:H2'	2.27	0.69
1:L5:1402:C:N4	1:L5:1403:G:N7	2.41	0.69
1:L5:1988:G:H5"	1:L5:1989:G:C4	2.28	0.69
1:L5:2823:G:O2'	1:L5:2824:C:H5'	1.91	0.69
1:L5:3616:U:H5'	1:L5:3617:G:C2	2.26	0.69
1:L5:3661:G:O4'	1:L5:3682:A:N6	2.26	0.69
1:L5:4155:C:H2'	1:L5:4156:G:O4'	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:53:U:OP1	13:LJ:8:LYS:NZ	2.25	0.69
3:L8:9:A:O2'	3:L8:10:G:H5'	1.93	0.69
14:LL:76:PHE:HB3	14:LL:81:LEU:CD1	2.23	0.69
15:LM:78:GLN:HA	15:LM:81:ASP:HB2	1.73	0.69
19:LQ:15:ARG:NH1	19:LQ:54:SER:HB3	2.06	0.69
30:Lb:12:GLN:HB3	30:Lb:16:TRP:CZ3	2.27	0.69
47:S2:807:G:O2'	47:S2:808:A:H5'	1.92	0.69
47:S2:1205:C:O2'	47:S2:1834:A:N6	2.26	0.69
47:S2:1286:G:P	72:SM:36:ARG:HD3	2.33	0.69
47:S2:1298:G:H4'	57:SP:78:THR:HG22	1.73	0.69
47:S2:1509:U:O2'	47:S2:1510:G:H5'	1.92	0.69
47:S2:1745:A:H8	70:SG:65:GLN:HG2	1.58	0.69
48:SA:198:MET:HG3	59:SR:89:SER:HB3	1.72	0.69
50:SD:75:LYS:NZ	55:SK:20:VAL:O	2.22	0.69
52:SF:92:ILE:HG22	52:SF:173:LEU:CD2	2.22	0.69
53:SH:169:LYS:O	53:SH:172:THR:HG22	1.93	0.69
58:SQ:61:GLU:OE2	58:SQ:62:ARG:NH1	2.25	0.69
59:SR:44:LYS:HG3	59:SR:47:ARG:NH2	2.07	0.69
60:SS:55:ARG:HE	77:SZ:83:LEU:HD11	1.57	0.69
60:SS:60:THR:OG1	60:SS:63:GLU:OE1	2.08	0.69
67:Sd:15:GLY:O	67:Sd:19:ARG:NH1	2.25	0.69
68:Sg:286:CYS:HB2	68:Sg:302:TYR:CE1	2.28	0.69
73:SN:84:LEU:HD12	73:SN:85:PRO:HD2	1.73	0.69
73:SN:142:GLU:HB2	73:SN:145:THR:OG1	1.93	0.69
77:SZ:91:LEU:O	77:SZ:95:GLY:HA3	1.92	0.69
1:L5:1321:G:H2'	1:L5:3876:A:N7	2.07	0.69
1:L5:1965:G:C2'	1:L5:1966:C:H5"	2.23	0.69
1:L5:1986:U:O2'	1:L5:2003:G:H5'	1.93	0.69
1:L5:2263:A:H5'	45:Lr:105:ASP:HB2	1.74	0.69
4:LA:32:VAL:CG1	4:LA:163:ARG:HH12	2.06	0.69
5:LB:58:ARG:HG2	5:LB:59:GLU:O	1.91	0.69
7:LD:59:ASP:OD1	7:LD:80:ALA:HB3	1.92	0.69
9:LF:52:GLU:O	9:LF:56:HIS:N	2.26	0.69
11:LH:116:ASN:OD1	11:LH:119:GLY:HA2	1.92	0.69
14:LL:126:LEU:HB3	14:LL:138:ASP:HB2	1.73	0.69
23:LU:19:LEU:HB2	23:LU:74:SER:OG	1.93	0.69
33:Le:67:LYS:HE2	33:Le:68:HIS:CE1	2.27	0.69
39:Lk:60:LEU:HD12	39:Lk:60:LEU:O	1.92	0.69
47:S2:538:U:H3'	47:S2:539:C:H5'	1.74	0.69
47:S2:1070:A:H2'	47:S2:1071:G:H5'	1.73	0.69
47:S2:1754:G:O6	47:S2:1779:G:H1'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:SJ:122:SER:OG	71:SJ:125:HIS:N	2.21	0.69
76:SY:107:ARG:HA	76:SY:110:ARG:HB3	1.72	0.69
1:L5:164:G:H2'	1:L5:165:A:C8	2.27	0.69
1:L5:279:A:O2'	1:L5:280:G:OP2	2.10	0.69
1:L5:498:C:H4'	1:L5:499:G:C5'	2.22	0.69
1:L5:650:C:H2'	1:L5:651:C:C6	2.28	0.69
1:L5:697:G:H2'	1:L5:698:G:O4'	1.93	0.69
1:L5:742:G:O6	1:L5:922:C:N4	2.22	0.69
1:L5:1750:G:H1	1:L5:1780:A:H61	1.40	0.69
1:L5:1762:C:H1'	1:L5:1763:C:H5	1.58	0.69
1:L5:1883:G:H5'	33:Le:49:PHE:CE1	2.27	0.69
1:L5:2555:G:H3'	1:L5:2556:G:H5"	1.73	0.69
1:L5:2664:G:H2'	1:L5:2665:U:H5'	1.75	0.69
1:L5:2736:G:OP1	44:Lp:48:LYS:NZ	2.26	0.69
1:L5:3614:G:O2'	1:L5:3615:G:OP1	2.10	0.69
1:L5:3845:A:O2'	1:L5:4668:U:O2'	2.08	0.69
1:L5:4093:G:H2'	1:L5:4094:G:C8	2.27	0.69
1:L5:4122:G:H22	35:Lg:98:GLU:CD	2.01	0.69
1:L5:4341:C:C2	81:L5:5101:3HE:H11	2.27	0.69
1:L5:4381:A:H2'	1:L5:4382:G:C5'	2.23	0.69
1:L5:4444:C:O2'	1:L5:4445:U:H5'	1.93	0.69
1:L5:4530:U:H2'	1:L5:4531:U:C6	2.28	0.69
1:L5:4594:U:H2'	1:L5:4595:G:H8	1.57	0.69
1:L5:4660:G:O2'	1:L5:4661:G:H5'	1.93	0.69
1:L5:4950:U:H1'	1:L5:4952:G:OP2	1.92	0.69
2:L7:104:C:C2'	2:L7:105:C:H5'	2.22	0.69
3:L8:95:A:OP1	38:Lj:81:GLY:N	2.25	0.69
5:LB:293:ILE:HG23	5:LB:294:LYS:H	1.56	0.69
7:LD:106:ALA:HB1	7:LD:169:GLY:HA3	1.72	0.69
7:LD:211:LEU:HD13	7:LD:219:TYR:CA	2.21	0.69
8:LE:140:LEU:HA	8:LE:191:GLN:NE2	2.07	0.69
10:LG:79:ALA:O	10:LG:82:GLN:NE2	2.19	0.69
10:LG:176:LYS:HG3	37:Li:43:MET:CE	2.20	0.69
10:LG:250:ILE:O	10:LG:254:GLU:N	2.25	0.69
11:LH:133:ALA:HB3	11:LH:147:GLU:CB	2.21	0.69
15:LM:31:ILE:HB	15:LM:35:ARG:O	1.92	0.69
15:LM:39:ASP:OD1	15:LM:40:GLY:N	2.26	0.69
17:LO:14:HIS:CD2	17:LO:19:LEU:HD11	2.27	0.69
25:LW:74:ARG:HD3	47:S2:1748:G:OP2	1.93	0.69
25:LW:102:LYS:HA	25:LW:105:ARG:NH2	2.06	0.69
29:La:73:VAL:HB	29:La:108:TYR:CD1	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:16:G:H2'	47:S2:17:C:C6	2.28	0.69
47:S2:71:G:H5"	47:S2:72:C:C5	2.28	0.69
47:S2:188:C:H3'	47:S2:189:U:C6	2.28	0.69
47:S2:438:G:H5"	47:S2:438:G:N3	2.07	0.69
47:S2:628:A:H61	50:SD:141:LYS:NZ	1.91	0.69
47:S2:688:U:OP1	53:SH:121:THR:HG23	1.92	0.69
47:S2:753:C:H5	47:S2:790:C:H5"	1.58	0.69
47:S2:818:A:H1'	47:S2:847:A:H62	1.58	0.69
47:S2:1098:C:H2'	47:S2:1099:G:H8	1.56	0.69
47:S2:1269:G:C2	47:S2:1270:G:H1'	2.27	0.69
47:S2:1279:C:N4	47:S2:1318:G:H22	1.89	0.69
47:S2:1421:A:C4'	61:ST:2:PRO:HB2	2.21	0.69
47:S2:1459:G:N2	47:S2:1467:C:N3	2.41	0.69
47:S2:1588:A:H2	47:S2:1654:G:H1'	1.57	0.69
47:S2:1603:G:O2'	47:S2:1604:G:H5'	1.93	0.69
48:SA:35:GLU:O	48:SA:38:ILE:HG22	1.92	0.69
49:SB:49:VAL:CG2	49:SB:58:ALA:HB1	2.22	0.69
50:SD:185:LYS:CD	50:SD:187:LYS:HE2	2.21	0.69
52:SF:48:TYR:HB3	58:SQ:49:TYR:CE2	2.27	0.69
53:SH:105:THR:OG1	53:SH:107:LYS:HE3	1.92	0.69
57:SP:58:LYS:HE3	57:SP:61:ARG:HH12	1.57	0.69
57:SP:85:ILE:HD13	60:SS:117:ILE:CD1	2.22	0.69
68:Sg:169:GLY:H	68:Sg:195:LEU:HD12	1.56	0.69
70:SG:145:PHE:HB3	70:SG:148:SER:HB2	1.74	0.69
71:SJ:16:PRO:HD3	71:SJ:44:TRP:CH2	2.28	0.69
71:SJ:114:VAL:HA	71:SJ:119:LEU:HD12	1.75	0.69
75:SW:111:MET:HB3	75:SW:115:GLU:HB2	1.73	0.69
76:SY:20:ARG:HB3	76:SY:76:TYR:CD1	2.28	0.69
78:Sb:36:LYS:HE3	78:Sb:80:ARG:NH2	2.07	0.69
1:L5:98:A:H4'	16:LN:195:ARG:HH21	1.56	0.69
1:L5:726:G:H5"	9:LF:73:ARG:NH2	2.08	0.69
1:L5:746:A:N6	1:L5:915:A:H3'	2.03	0.69
1:L5:1171:G:O6	1:L5:1189:G:N1	2.26	0.69
1:L5:1339:U:OP1	29:La:8:THR:OG1	2.10	0.69
1:L5:1770:A:H2'	1:L5:1771:U:C6	2.26	0.69
1:L5:3873:G:N2	1:L5:3883:U:O2	2.26	0.69
1:L5:4509:U:H2'	1:L5:4510:A:C5'	2.22	0.69
2:L7:94:C:OP1	21:LS:46:TYR:OH	2.08	0.69
9:LF:102:SER:HB2	9:LF:103:PRO:HD2	1.75	0.69
33:Le:90:MET:HG2	45:Lr:33:LYS:CA	2.21	0.69
36:Lh:21:LEU:CD2	36:Lh:25:LYS:HD2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Lj:60:GLY:HA2	38:Lj:64:MET:CE	2.22	0.69
47:S2:163:U:OP1	70:SG:84:TYR:HA	1.93	0.69
47:S2:327:G:H1'	47:S2:328:U:C4'	2.23	0.69
47:S2:327:G:H1'	47:S2:328:U:H4'	1.73	0.69
47:S2:1404:U:H4'	47:S2:1405:A:OP2	1.91	0.69
47:S2:1407:U:H2'	47:S2:1408:U:N1	2.08	0.69
47:S2:1421:A:H4'	61:ST:2:PRO:CB	2.21	0.69
49:SB:182:LYS:HD3	49:SB:231:LEU:HA	1.75	0.69
51:SE:28:ALA:HB1	51:SE:29:PRO:HD2	1.75	0.69
54:SI:65:PHE:CD2	54:SI:104:ILE:HG21	2.28	0.69
58:SQ:93:VAL:HG22	58:SQ:108:ILE:HD13	1.74	0.69
60:SS:14:ARG:CB	60:SS:20:ILE:H	2.05	0.69
61:ST:73:GLY:HA2	61:ST:76:THR:HG22	1.75	0.69
68:Sg:196:ASN:HD22	68:Sg:236:ILE:HG22	1.58	0.69
70:SG:5:ILE:HG12	70:SG:111:LEU:HB2	1.73	0.69
72:SM:20:GLU:HG2	72:SM:124:ILE:HG12	1.74	0.69
73:SN:64:ARG:O	73:SN:68:GLY:HA2	1.92	0.69
1:L5:1215:C:H2'	1:L5:1216:C:C5'	2.22	0.69
1:L5:1413:C:H2'	1:L5:1414:C:C4'	2.23	0.69
1:L5:2094:G:H2'	1:L5:2095:A:C8	2.27	0.69
1:L5:2604:C:C2'	1:L5:2605:G:H5'	2.22	0.69
1:L5:3616:U:H5'	1:L5:3617:G:N2	2.07	0.69
1:L5:4289:U:O2'	1:L5:4290:U:H5'	1.92	0.69
1:L5:4871:C:H3'	15:LM:91:TRP:CZ3	2.27	0.69
1:L5:4988:U:O5'	1:L5:4989:U:N3	2.26	0.69
5:LB:219:VAL:O	5:LB:278:THR:HG23	1.93	0.69
7:LD:52:ILE:HD11	7:LD:63:GLN:NE2	2.06	0.69
14:LL:179:PHE:HB3	29:La:134:GLU:OE2	1.93	0.69
27:LY:24:HIS:CE1	27:LY:25:ILE:HG13	2.28	0.69
43:Lo:101:GLY:HA2	43:Lo:102:GLN:HB2	1.75	0.69
47:S2:70:G:H21	47:S2:79:A:H62	1.39	0.69
47:S2:388:U:H2'	47:S2:389:A:H8	1.56	0.69
47:S2:458:A:N6	47:S2:470:G:O6	2.26	0.69
47:S2:1421:A:H5'	61:ST:2:PRO:HB2	1.75	0.69
47:S2:1488:C:H2'	47:S2:1488:C:OP2	1.93	0.69
47:S2:1759:G:N2	47:S2:1773:C:OP1	2.25	0.69
48:SA:176:TRP:CZ3	48:SA:199:PRO:HG3	2.27	0.69
50:SD:106:ARG:O	50:SD:110:LEU:N	2.25	0.69
60:SS:4:VAL:HG13	77:SZ:50:PHE:CE1	2.28	0.69
60:SS:38:ARG:O	60:SS:42:HIS:NE2	2.26	0.69
63:SV:15:ARG:NH2	69:SC:84:PHE:HA	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:SW:106:THR:OG1	75:SW:111:MET:HE2	1.91	0.69
76:SY:45:ALA:HB2	76:SY:52:PRO:HB3	1.75	0.69
1:L5:75:G:O6	14:LL:103:ARG:NH1	2.26	0.68
1:L5:261:G:H2'	1:L5:262:G:H5'	1.74	0.68
1:L5:2669:C:O2'	1:L5:2670:C:O5'	2.10	0.68
1:L5:4200:G:H1'	12:LI:111:LEU:HD23	1.75	0.68
1:L5:4603:C:H42	1:L5:4608:G:H1	1.38	0.68
4:LA:131:GLY:H	4:LA:169:VAL:HG13	1.58	0.68
5:LB:223:THR:O	5:LB:274:TYR:HA	1.93	0.68
7:LD:191:ASN:OD1	7:LD:194:VAL:HB	1.92	0.68
10:LG:191:GLY:O	10:LG:195:HIS:N	2.25	0.68
13:LJ:141:ILE:O	13:LJ:144:LYS:HE3	1.92	0.68
14:LL:79:GLU:HG2	14:LL:82:ARG:NH2	2.08	0.68
15:LM:100:ARG:HD3	17:LO:198:THR:O	1.93	0.68
17:LO:49:ARG:NH1	17:LO:53:LYS:HD2	2.08	0.68
29:La:110:LYS:HG3	29:La:128:PHE:O	1.93	0.68
30:Lb:35:VAL:CG2	30:Lb:40:LEU:HD12	2.23	0.68
33:Le:5:ARG:HE	33:Le:6:PRO:HD2	1.58	0.68
39:Lk:28:ASN:ND2	39:Lk:31:ASN:OD1	2.25	0.68
45:Lr:41:ASN:HB3	45:Lr:45:HIS:HE1	1.58	0.68
46:Lz:68:LEU:O	46:Lz:84:HIS:ND1	2.24	0.68
47:S2:63:U:H2'	47:S2:64:A:C5'	2.21	0.68
47:S2:902:G:N3	47:S2:903:A:H1'	2.08	0.68
47:S2:1700:C:N4	47:S2:1836:G:O6	2.26	0.68
48:SA:30:LEU:HD21	48:SA:35:GLU:HA	1.75	0.68
53:SH:9:VAL:HG13	53:SH:44:ASN:OD1	1.93	0.68
58:SQ:135:PRO:HD2	58:SQ:141:TYR:HB2	1.74	0.68
61:ST:115:LYS:CA	61:ST:121:ARG:HB3	2.22	0.68
77:SZ:65:TYR:CZ	77:SZ:68:ILE:HG13	2.27	0.68
79:Se:24:LYS:HD3	79:Se:27:LYS:HZ3	1.58	0.68
1:L5:499:G:H3'	1:L5:500:G:H5"	1.74	0.68
1:L5:974:C:O2	6:LC:323:ARG:HD2	1.93	0.68
1:L5:1068:G:H2'	1:L5:1069:G:C8	2.27	0.68
1:L5:1208:G:H2'	1:L5:1209:U:H5'	1.74	0.68
1:L5:1448:G:O2'	1:L5:1449:C:H5'	1.93	0.68
1:L5:1502:G:H22	29:La:77:LYS:NZ	1.92	0.68
1:L5:1544:G:O6	1:L5:1615:C:N4	2.26	0.68
1:L5:1682:A:N3	29:La:43:ILE:HD12	2.07	0.68
1:L5:1873:A:OP1	30:Lb:7:HIS:N	2.26	0.68
1:L5:2073:C:C2'	1:L5:2074:C:H5'	2.23	0.68
1:L5:2250:C:N4	1:L5:2253:A:N7	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2889:G:OP1	20:LR:75:HIS:HB3	1.92	0.68
1:L5:3855:C:OP1	18:LP:82:ARG:NE	2.25	0.68
1:L5:4756:C:OP1	17:LO:115:LYS:NZ	2.27	0.68
1:L5:4939:C:H5"	8:LE:219:LYS:NZ	2.07	0.68
5:LB:87:VAL:HG21	5:LB:110:ILE:HG13	1.75	0.68
8:LE:182:ASN:ND2	8:LE:271:LEU:O	2.25	0.68
11:LH:165:THR:HG21	11:LH:179:ILE:CD1	2.23	0.68
13:LJ:32:ARG:HG3	13:LJ:35:ARG:HH11	1.58	0.68
15:LM:31:ILE:HG12	21:LS:75:VAL:HG11	1.75	0.68
15:LM:40:GLY:HA3	15:LM:43:THR:HG22	1.75	0.68
15:LM:47:ARG:HB2	21:LS:73:LEU:HD21	1.75	0.68
15:LM:122:ILE:HD13	17:LO:189:ILE:CD1	2.23	0.68
18:LP:33:ALA:O	18:LP:36:ILE:HG22	1.92	0.68
24:LV:69:LYS:O	24:LV:73:ARG:HG3	1.93	0.68
25:LW:104:GLN:O	25:LW:107:GLN:HG2	1.93	0.68
39:Lk:33:LYS:HA	39:Lk:45:LEU:O	1.93	0.68
45:Lr:41:ASN:HB3	45:Lr:45:HIS:CE1	2.28	0.68
47:S2:155:G:H4'	70:SG:15:LEU:HD13	1.75	0.68
47:S2:1601:A:H4'	47:S2:1602:U:C5	2.29	0.68
47:S2:1791:A:C2	70:SG:68:LEU:HD22	2.28	0.68
48:SA:68:ILE:HG23	48:SA:120:ARG:NH1	2.08	0.68
48:SA:208:GLU:HG3	48:SA:209:GLU:HG3	1.75	0.68
49:SB:119:THR:HB	49:SB:143:THR:HG23	1.76	0.68
61:ST:4:VAL:HG22	61:ST:5:THR:N	2.05	0.68
64:SX:53:GLU:HB3	64:SX:71:ARG:HB3	1.75	0.68
69:SC:146:GLU:HB2	69:SC:149:THR:HB	1.75	0.68
70:SG:64:LYS:NZ	70:SG:82:SER:H	1.91	0.68
78:Sb:31:TYR:CE1	78:Sb:33:MET:HG3	2.28	0.68
1:L5:177:G:C2'	1:L5:178:C:H5'	2.23	0.68
1:L5:1662:C:O2'	1:L5:2320:G:H1'	1.93	0.68
1:L5:1668:A:C2'	1:L5:1669:A:H5'	2.23	0.68
1:L5:2291:G:H1'	1:L5:2345:G:H22	1.59	0.68
1:L5:2470:C:H4'	1:L5:2471:G:OP1	1.92	0.68
1:L5:4441:A:C3'	1:L5:4442:U:H5"	2.23	0.68
4:LA:245:ARG:HG2	4:LA:246:LEU:N	2.07	0.68
5:LB:398:ALA:CA	5:LB:401:GLU:HG2	2.24	0.68
8:LE:91:THR:CA	8:LE:109:LEU:HD12	2.20	0.68
11:LH:89:ARG:CD	11:LH:91:LYS:HE3	2.20	0.68
23:LU:96:LEU:HD22	23:LU:100:LEU:CD1	2.23	0.68
25:LW:105:ARG:HD2	70:SG:149:LYS:CD	2.23	0.68
27:LY:71:VAL:HG12	27:LY:81:TYR:C	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:LZ:42:LEU:HD23	28:LZ:43:VAL:N	2.09	0.68
31:Lc:38:ILE:HD11	31:Lc:46:VAL:HG21	1.75	0.68
43:Lo:74:GLU:HG2	43:Lo:75:PRO:HD2	1.74	0.68
45:Lr:98:ARG:HH22	45:Lr:99:LYS:HE3	1.58	0.68
47:S2:1274:G:N2	55:SK:43:LEU:HD22	2.08	0.68
47:S2:1310:U:OP2	80:Sf:130:VAL:HA	1.93	0.68
47:S2:1421:A:H4'	61:ST:2:PRO:C	2.18	0.68
47:S2:1529:C:H5'	47:S2:1666:C:OP1	1.94	0.68
47:S2:1692:U:C2'	47:S2:1693:G:H5'	2.23	0.68
47:S2:1739:C:H1'	47:S2:1796:G:N2	2.09	0.68
51:SE:153:LEU:HD13	70:SG:216:ARG:CZ	2.23	0.68
62:SU:99:LYS:HA	62:SU:102:THR:CG2	2.23	0.68
68:Sg:79:LEU:HD11	68:Sg:113:PHE:CB	2.23	0.68
75:SW:106:THR:HG22	75:SW:122:GLY:O	1.93	0.68
1:L5:174:C:H42	1:L5:262:G:H1	1.41	0.68
1:L5:259:C:H2'	1:L5:260:C:C5'	2.22	0.68
1:L5:2388:A:C2'	1:L5:2389:A:H5'	2.22	0.68
1:L5:2444:U:H5"	1:L5:2445:C:OP2	1.92	0.68
1:L5:4279:A:H5'	1:L5:4281:A:H1'	1.75	0.68
1:L5:4767:C:O2'	1:L5:4874:A:N6	2.26	0.68
5:LB:293:ILE:O	5:LB:294:LYS:HB2	1.92	0.68
5:LB:398:ALA:O	5:LB:402:GLY:N	2.26	0.68
6:LC:189:MET:HG2	6:LC:201:ARG:NH1	2.08	0.68
7:LD:196:ARG:HA	7:LD:199:ILE:HD12	1.74	0.68
12:LI:9:TYR:HB3	12:LI:97:ILE:HD13	1.76	0.68
13:LJ:40:LEU:CD2	13:LJ:43:LEU:HD23	2.16	0.68
18:LP:50:ASP:OD1	18:LP:55:LYS:HB2	1.93	0.68
24:LV:121:VAL:N	24:LV:138:SER:O	2.23	0.68
32:Ld:108:TYR:HE2	32:Ld:110:PRO:HB3	1.59	0.68
43:Lo:72:CYS:O	43:Lo:78:ARG:HD3	1.93	0.68
45:Lr:47:LYS:HD3	45:Lr:102:TYR:CE1	2.28	0.68
47:S2:616:A:H62	47:S2:625:G:H21	1.42	0.68
47:S2:976:G:H2'	47:S2:977:C:C6	2.28	0.68
48:SA:87:VAL:HG12	48:SA:98:PRO:HB2	1.74	0.68
49:SB:119:THR:HB	49:SB:143:THR:CG2	2.23	0.68
52:SF:140:ASP:CB	66:Sc:46:VAL:HG12	2.22	0.68
55:SK:50:GLN:O	55:SK:54:SER:N	2.26	0.68
61:ST:33:TRP:HB2	61:ST:36:THR:HG22	1.74	0.68
62:SU:63:ILE:HD12	67:Sd:52:PHE:CE2	2.29	0.68
63:SV:71:ARG:HA	63:SV:74:LYS:CG	2.23	0.68
67:Sd:36:LEU:HD21	67:Sd:43:PHE:CD1	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:24:THR:CB	68:Sg:27:PHE:HB2	2.23	0.68
68:Sg:64:HIS:NE2	68:Sg:84:ASP:HB2	2.08	0.68
68:Sg:87:LEU:HD21	68:Sg:120:ILE:CD1	2.23	0.68
68:Sg:88:ARG:HH11	68:Sg:100:ARG:CB	2.05	0.68
75:SW:65:LEU:O	75:SW:67:GLY:N	2.24	0.68
1:L5:1437:C:H1'	1:L5:2097:U:C5	2.28	0.68
1:L5:1748:U:H3	1:L5:1782:U:H3	1.39	0.68
1:L5:1878:G:H2'	1:L5:1879:C:H6	1.58	0.68
1:L5:2040:A:H4'	1:L5:2041:A:C5'	2.22	0.68
1:L5:4499:G:H5"	1:L5:4500:U:OP2	1.93	0.68
1:L5:4654:C:C2'	1:L5:4655:A:H5'	2.23	0.68
1:L5:4704:C:H4'	11:LH:129:ARG:NH2	2.09	0.68
1:L5:4861:G:OP1	17:LO:169:ARG:NH1	2.26	0.68
2:L7:42:A:H1'	13:LJ:75:ARG:NH2	2.09	0.68
3:L8:64:U:H2'	3:L8:65:A:H8	1.57	0.68
8:LE:278:THR:CG2	8:LE:281:ILE:HG12	2.24	0.68
10:LG:120:LYS:HE3	10:LG:125:LYS:CG	2.18	0.68
12:LI:109:ASP:OD1	12:LI:110:ARG:HA	1.93	0.68
14:LL:128:PRO:CB	14:LL:134:PRO:HD3	2.21	0.68
15:LM:17:PHE:HA	15:LM:21:ALA:HB2	1.76	0.68
22:LT:70:HIS:O	22:LT:93:ILE:HG23	1.92	0.68
41:Lm:77:ILE:HG23	41:Lm:78:ILE:N	2.03	0.68
46:Lz:116:LEU:HD23	46:Lz:116:LEU:O	1.93	0.68
47:S2:124:U:H5"	51:SE:148:ARG:NH2	2.09	0.68
47:S2:128:U:H5'	47:S2:215:G:C4	2.28	0.68
47:S2:474:G:N2	47:S2:507:G:O2'	2.26	0.68
47:S2:878:G:H1'	47:S2:909:G:O6	1.94	0.68
47:S2:1176:G:H2'	47:S2:1177:U:C6	2.29	0.68
47:S2:1520:G:OP1	60:SS:136:THR:N	2.25	0.68
47:S2:1549:U:H2'	47:S2:1550:G:H8	1.58	0.68
47:S2:1779:G:H2'	47:S2:1780:G:C8	2.28	0.68
50:SD:73:VAL:HG21	50:SD:84:VAL:HG21	1.76	0.68
51:SE:170:THR:HG22	51:SE:171:ASP:N	2.08	0.68
62:SU:39:LEU:HD12	62:SU:89:ILE:HD13	1.76	0.68
68:Sg:125:ARG:HD3	68:Sg:150:TRP:CE3	2.28	0.68
70:SG:67:VAL:CB	70:SG:99:GLY:HA2	2.24	0.68
1:L5:149:A:OP1	1:L5:150:U:O2'	2.10	0.68
1:L5:473:C:H2'	1:L5:474:C:C6	2.28	0.68
1:L5:1278:C:H3'	1:L5:1279:A:O4'	1.94	0.68
1:L5:2631:U:H5"	1:L5:2632:U:C5'	2.22	0.68
1:L5:2700:G:N2	1:L5:2717:G:O2'	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2720:C:H3'	1:L5:2721:G:H5"	1.76	0.68
1:L5:3845:A:OP1	5:LB:249:ARG:NH2	2.19	0.68
1:L5:4095:G:N2	1:L5:4114:C:O4'	2.26	0.68
1:L5:4120:U:C5	35:Lg:97:ILE:HD13	2.28	0.68
1:L5:4299:U:H2'	1:L5:4300:U:C6	2.28	0.68
1:L5:4548:A:H3'	1:L5:4548:A:N3	2.08	0.68
7:LD:123:VAL:HA	7:LD:248:ARG:NH2	2.08	0.68
14:LL:70:VAL:HG12	14:LL:159:ASN:HB3	1.75	0.68
14:LL:170:THR:HG22	14:LL:172:GLU:H	1.57	0.68
16:LN:91:GLN:O	16:LN:93:LYS:NZ	2.25	0.68
17:LO:102:LEU:HD21	17:LO:104:VAL:CG1	2.13	0.68
18:LP:134:GLY:O	18:LP:136:ILE:N	2.27	0.68
33:Le:105:SER:HB2	33:Le:128:ARG:HG3	1.73	0.68
47:S2:753:C:C6	47:S2:791:C:H4'	2.29	0.68
47:S2:941:C:O2'	47:S2:942:G:H5'	1.94	0.68
47:S2:986:G:N2	74:SO:135:ILE:HG21	2.09	0.68
47:S2:1283:C:H2'	47:S2:1286:G:O2'	1.94	0.68
47:S2:1592:C:H5'	52:SF:87:LEU:HD23	1.75	0.68
48:SA:63:ARG:CA	48:SA:185:MET:HE1	2.23	0.68
49:SB:71:LEU:HD12	49:SB:84:PHE:HE2	1.58	0.68
50:SD:53:THR:HG21	50:SD:94:ARG:HG2	1.76	0.68
54:SI:61:ASP:O	54:SI:78:ILE:N	2.26	0.68
58:SQ:13:PHE:HB3	58:SQ:22:VAL:CG2	2.23	0.68
58:SQ:31:LEU:O	58:SQ:67:ASP:HA	1.94	0.68
64:SX:81:ILE:HD12	64:SX:120:PHE:CE2	2.28	0.68
68:Sg:20:GLN:HG2	68:Sg:69:VAL:N	2.07	0.68
68:Sg:129:ILE:O	68:Sg:142:VAL:HG23	1.93	0.68
69:SC:60:TRP:CE2	69:SC:92:GLU:HG3	2.29	0.68
72:SM:49:LEU:HD11	72:SM:128:PHE:CG	2.28	0.68
75:SW:56:HIS:O	75:SW:57:ARG:HG3	1.93	0.68
78:Sb:5:LYS:HG2	78:Sb:6:ASP:H	1.59	0.68
1:L5:178:C:O2	1:L5:258:G:N1	2.27	0.68
1:L5:305:A:O2'	1:L5:306:A:O4'	2.10	0.68
1:L5:1690:C:C5	19:LQ:13:VAL:HG11	2.29	0.68
1:L5:1987:C:H2'	1:L5:1989:G:N1	2.08	0.68
1:L5:2030:A:H2'	1:L5:2031:C:C6	2.28	0.68
1:L5:2614:C:H1'	1:L5:2726:G:N2	2.08	0.68
1:L5:3661:G:C4	4:LA:150:LEU:HD23	2.29	0.68
1:L5:4097:G:C5'	35:Lg:115:LYS:HG2	2.23	0.68
1:L5:4121:G:N7	44:Lp:62:LYS:HE2	2.07	0.68
1:L5:4758:U:C2'	1:L5:4759:C:H5'	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:LH:4:ILE:HD11	21:LS:152:PHE:CB	2.21	0.68
13:LJ:167:GLN:O	13:LJ:171:ASP:HA	1.93	0.68
14:LL:37:LYS:O	14:LL:41:ALA:N	2.22	0.68
15:LM:126:GLU:HA	15:LM:129:LYS:HB2	1.74	0.68
37:Li:34:THR:HG22	37:Li:36:HIS:N	2.04	0.68
40:Ll:21:ARG:HG3	40:Ll:22:PRO:HD2	1.76	0.68
47:S2:587:A:H5"	47:S2:592:C:H42	1.58	0.68
47:S2:1145:A:N7	47:S2:1146:C:H1'	2.09	0.68
47:S2:1218:C:H42	47:S2:1680:G:H1	1.41	0.68
47:S2:1596:U:H5"	47:S2:1597:C:OP2	1.91	0.68
49:SB:79:VAL:HG11	49:SB:82:ARG:HB2	1.75	0.68
54:SI:76:THR:HG22	54:SI:108:PRO:HG2	1.76	0.68
54:SI:132:GLU:O	54:SI:135:GLU:HG2	1.92	0.68
54:SI:162:LEU:HG	54:SI:166:PHE:HE2	1.57	0.68
57:SP:90:VAL:HG12	57:SP:106:GLU:O	1.94	0.68
62:SU:23:THR:HB	62:SU:113:GLU:CG	2.23	0.68
68:Sg:146:SER:HA	68:Sg:175:LYS:CE	2.24	0.68
68:Sg:253:GLY:HA2	68:Sg:285:GLN:HB2	1.76	0.68
70:SG:63:MET:HA	70:SG:98:ARG:HB3	1.75	0.68
73:SN:129:TYR:HB3	73:SN:134:VAL:CG2	2.23	0.68
1:L5:283:G:H1'	37:Li:82:ARG:NH1	2.09	0.68
1:L5:1419:G:O6	29:La:119:LYS:NZ	2.19	0.68
1:L5:1720:C:H2'	1:L5:1721:G:O4'	1.94	0.68
1:L5:1731:C:O2'	1:L5:1732:C:H5'	1.93	0.68
1:L5:2091:C:H5'	1:L5:2259:G:C5	2.28	0.68
1:L5:2575:U:H3	1:L5:2589:C:N4	1.91	0.68
1:L5:4138:C:N4	1:L5:4146:G:O6	2.14	0.68
1:L5:4424:A:H2'	1:L5:4425:G:O4'	1.94	0.68
1:L5:4981:G:O6	5:LB:21:ARG:NH2	2.21	0.68
4:LA:58:LEU:HD13	4:LA:75:LEU:HD21	1.74	0.68
6:LC:122:TYR:CE2	6:LC:280:PRO:HB3	2.28	0.68
9:LF:101:VAL:HA	9:LF:139:TYR:OH	1.93	0.68
21:LS:34:ALA:HB3	21:LS:40:ALA:CB	2.23	0.68
21:LS:174:THR:HG23	21:LS:175:PHE:N	2.06	0.68
32:Ld:44:ARG:O	32:Ld:48:GLU:HG2	1.94	0.68
47:S2:506:G:N2	47:S2:508:A:N1	2.41	0.68
47:S2:1473:G:N2	47:S2:1475:G:OP2	2.26	0.68
47:S2:1566:G:OP2	61:ST:102:ARG:NH1	2.27	0.68
47:S2:1598:G:H5"	77:SZ:82:SER:CB	2.23	0.68
51:SE:95:THR:HA	76:SY:16:ARG:HD2	1.76	0.68
53:SH:98:ARG:HG3	53:SH:125:VAL:HG13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:SP:88:GLU:OE1	57:SP:89:MET:HG2	1.94	0.68
60:SS:46:ARG:O	60:SS:49:ASP:N	2.26	0.68
68:Sg:12:LYS:NZ	68:Sg:305:ASN:O	2.26	0.68
71:SJ:163:SER:O	71:SJ:167:GLY:N	2.24	0.68
72:SM:17:ALA:O	72:SM:18:LEU:HD12	1.93	0.68
77:SZ:97:ILE:HD13	77:SZ:111:ARG:O	1.94	0.68
78:Sb:35:VAL:HA	78:Sb:79:PHE:HA	1.75	0.68
1:L5:185:C:H2'	1:L5:186:G:C5'	2.24	0.68
1:L5:278:G:N2	16:LN:50:ARG:O	2.27	0.68
1:L5:686:A:C4	8:LE:95:PRO:HG3	2.28	0.68
1:L5:726:G:H5"	9:LF:73:ARG:HH21	1.59	0.68
1:L5:970:G:P	1:L5:970:G:H21	2.16	0.68
1:L5:970:G:C4'	1:L5:971:U:H5'	2.18	0.68
1:L5:1099:C:N4	1:L5:1195:G:O6	2.27	0.68
1:L5:1499:C:O2'	29:La:114:LYS:NZ	2.20	0.68
1:L5:1969:G:H21	1:L5:1999:A:H2	1.40	0.68
1:L5:4105:A:N3	1:L5:4106:G:N2	2.42	0.68
1:L5:4945:G:C2	34:Lf:68:ARG:HA	2.28	0.68
12:LI:26:VAL:HG22	12:LI:122:PRO:HB2	1.75	0.68
14:LL:64:VAL:HA	14:LL:67:HIS:HD2	1.58	0.68
14:LL:128:PRO:HB3	14:LL:134:PRO:CG	2.23	0.68
22:LT:17:ARG:HG3	22:LT:18:PRO:HD2	1.75	0.68
29:La:75:LEU:CB	29:La:113:GLY:HA2	2.24	0.68
47:S2:1240:A:H61	47:S2:1516:G:H1'	1.59	0.68
47:S2:1511:U:O2'	47:S2:1512:C:H5'	1.93	0.68
47:S2:1664:A:H2'	47:S2:1665:G:C5'	2.24	0.68
49:SB:65:ARG:HG2	74:SO:50:LYS:CE	2.24	0.68
57:SP:64:LYS:CD	57:SP:73:PRO:HG3	2.24	0.68
61:ST:35:ASP:OD1	61:ST:46:ALA:HB1	1.93	0.68
63:SV:79:VAL:O	63:SV:80:SER:OG	2.12	0.68
68:Sg:119:GLN:CG	68:Sg:131:LEU:HG	2.23	0.68
68:Sg:199:THR:CG2	68:Sg:240:CYS:HA	2.23	0.68
69:SC:102:LEU:CD1	69:SC:159:LYS:HE3	2.24	0.68
69:SC:102:LEU:HD23	69:SC:132:ASP:HB3	1.76	0.68
69:SC:106:VAL:HG12	69:SC:128:VAL:CG2	2.23	0.68
77:SZ:68:ILE:HD12	77:SZ:110:THR:HA	1.75	0.68
1:L5:294:G:H4'	43:Lo:43:ARG:NH2	2.08	0.68
1:L5:711:A:OP1	8:LE:139:LYS:NZ	2.23	0.68
1:L5:1964:A:H2'	1:L5:1965:G:C5'	2.23	0.68
1:L5:2855:G:N2	1:L5:2858:A:H61	1.92	0.68
1:L5:2904:U:N3	1:L5:3592:G:H4'	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4038:C:N4	1:L5:4051:C:OP2	2.26	0.68
1:L5:4298:A:H2'	1:L5:4299:U:C6	2.29	0.68
1:L5:4313:A:O2'	22:LT:71:ALA:HB3	1.94	0.68
2:L7:82:G:H2'	2:L7:83:A:C8	2.29	0.68
6:LC:224:ILE:HB	6:LC:227:ILE:HG22	1.75	0.68
7:LD:198:HIS:HA	7:LD:203:ASN:OD1	1.94	0.68
8:LE:150:LEU:HD12	8:LE:175:VAL:CG1	2.24	0.68
12:LI:4:ARG:HD2	12:LI:9:TYR:OH	1.94	0.68
13:LJ:15:LEU:HD12	13:LJ:15:LEU:O	1.93	0.68
47:S2:68:A:H2'	47:S2:69:C:O4'	1.93	0.68
47:S2:79:A:C2	47:S2:80:G:H1'	2.29	0.68
47:S2:220:U:H2'	47:S2:221:A:H8	1.59	0.68
47:S2:572:U:OP1	76:SY:59:GLY:N	2.27	0.68
47:S2:582:C:H2'	47:S2:583:C:C4'	2.24	0.68
47:S2:1403:C:N4	47:S2:1436:C:OP1	2.27	0.68
47:S2:1495:G:H4'	67:Sd:26:ASN:ND2	2.09	0.68
47:S2:1652:G:C2'	47:S2:1653:U:H5'	2.23	0.68
49:SB:140:VAL:HG11	49:SB:213:ARG:HD3	1.75	0.68
49:SB:190:PRO:O	49:SB:192:SER:N	2.26	0.68
52:SF:21:GLY:HA3	52:SF:47:LYS:O	1.92	0.68
55:SK:19:GLY:HA2	55:SK:71:LEU:CD1	2.23	0.68
57:SP:85:ILE:HD11	57:SP:105:VAL:HG13	1.76	0.68
60:SS:6:PRO:CB	60:SS:58:GLU:HG2	2.22	0.68
60:SS:16:LEU:HD23	60:SS:17:ASN:H	1.58	0.68
60:SS:82:TRP:CH2	60:SS:83:PHE:HE1	2.11	0.68
60:SS:107:LEU:CD1	60:SS:108:ARG:HG3	2.24	0.68
61:ST:112:MET:HB3	61:ST:123:LEU:CD2	2.24	0.68
64:SX:54:LYS:HD2	64:SX:91:LEU:HD11	1.76	0.68
64:SX:58:GLU:HG3	64:SX:65:ALA:O	1.94	0.68
68:Sg:217:MET:CE	68:Sg:219:TRP:HE1	2.07	0.68
72:SM:20:GLU:HG3	72:SM:120:ALA:HB2	1.75	0.68
1:L5:230:G:N2	1:L5:231:U:H1'	2.08	0.67
1:L5:261:G:C2'	1:L5:262:G:H5'	2.24	0.67
1:L5:985:C:H2'	1:L5:986:C:C5	2.29	0.67
1:L5:1387:A:H4'	1:L5:1388:A:OP1	1.94	0.67
1:L5:1968:G:H2'	1:L5:1968:G:N3	2.08	0.67
1:L5:3960:A:N6	1:L5:4044:U:OP1	2.26	0.67
1:L5:4101:C:H1'	1:L5:4109:G:H1	1.57	0.67
1:L5:4473:A:P	41:Lm:102:ARG:HH21	2.17	0.67
1:L5:4937:C:H4'	1:L5:4938:A:OP2	1.93	0.67
5:LB:212:GLY:N	5:LB:215:GLU:OE2	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:92:VAL:HG21	9:LF:140:ILE:HD13	1.76	0.67
12:LI:73:ASN:HA	12:LI:87:MET:HE1	1.76	0.67
18:LP:122:ALA:HB3	18:LP:143:PRO:HG2	1.73	0.67
23:LU:91:LEU:HD22	23:LU:100:LEU:HD22	1.76	0.67
35:Lg:83:CYS:O	35:Lg:87:VAL:HG23	1.94	0.67
40:Ll:27:ILE:HD12	40:Ll:30:LYS:HD3	1.75	0.67
47:S2:56:G:O2'	47:S2:57:U:H5'	1.94	0.67
47:S2:420:G:H21	47:S2:660:C:H41	1.42	0.67
47:S2:786:G:C8	70:SG:235:SER:HA	2.28	0.67
47:S2:1129:G:H5"	78:Sb:22:LYS:HZ1	1.59	0.67
47:S2:1741:U:H2'	47:S2:1742:C:O4'	1.94	0.67
56:SL:5:GLN:NE2	56:SL:11:GLN:HB2	2.06	0.67
56:SL:82:MET:SD	56:SL:85:THR:HG23	2.34	0.67
57:SP:106:GLU:HB2	60:SS:116:LYS:NZ	2.08	0.67
58:SQ:53:GLU:O	58:SQ:57:LEU:N	2.26	0.67
58:SQ:80:GLN:O	58:SQ:84:ILE:N	2.24	0.67
68:Sg:41:ILE:HD13	68:Sg:58:ALA:HA	1.76	0.67
68:Sg:77:PHE:CA	68:Sg:89:LEU:HD11	2.24	0.67
68:Sg:216:ALA:N	68:Sg:230:LEU:O	2.27	0.67
72:SM:123:VAL:HG23	72:SM:124:ILE:N	2.08	0.67
74:SO:92:ALA:HA	74:SO:125:LYS:O	1.94	0.67
80:Sf:135:HIS:CD2	80:Sf:138:ARG:HB2	2.28	0.67
1:L5:1077:C:H5"	1:L5:1078:A:OP2	1.93	0.67
1:L5:1805:A:N1	30:Lb:26:SER:OG	2.26	0.67
1:L5:2083:C:H3'	1:L5:2084:C:C5'	2.24	0.67
1:L5:2311:C:N4	1:L5:2327:G:O6	2.27	0.67
1:L5:2325:C:OP1	33:Le:101:HIS:N	2.21	0.67
1:L5:4243:C:H42	1:L5:4267:G:H1	1.42	0.67
1:L5:4459:U:H5'	5:LB:10:ARG:HG3	1.76	0.67
8:LE:223:ARG:HB3	8:LE:224:LYS:HG3	1.75	0.67
12:LI:11:TYR:O	12:LI:59:GLN:NE2	2.27	0.67
12:LI:184:MET:HA	12:LI:187:LYS:HG2	1.76	0.67
16:LN:114:ARG:HG2	16:LN:137:PRO:HD3	1.75	0.67
19:LQ:158:THR:O	19:LQ:161:SER:HB3	1.93	0.67
25:LW:27:LYS:HD2	25:LW:29:PHE:CZ	2.29	0.67
34:Lf:45:LYS:HD2	34:Lf:105:LEU:HA	1.76	0.67
47:S2:191:A:C5'	54:SI:140:LYS:HG2	2.24	0.67
47:S2:1271:C:O2	47:S2:1272:C:O2'	2.05	0.67
47:S2:1308:U:H2'	47:S2:1309:C:O4'	1.93	0.67
47:S2:1693:G:H2'	47:S2:1694:U:C6	2.29	0.67
57:SP:98:ASN:H	57:SP:99:GLY:C	2.01	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:SS:14:ARG:HB3	60:SS:20:ILE:H	1.58	0.67
60:SS:62:ASP:CA	60:SS:65:GLU:HG2	2.24	0.67
60:SS:74:PRO:HG2	60:SS:84:LEU:CD2	2.24	0.67
68:Sg:135:LEU:CD1	68:Sg:137:VAL:HG23	2.25	0.67
72:SM:52:GLN:CG	72:SM:78:LYS:HB2	2.24	0.67
74:SO:75:MET:HG3	74:SO:118:ALA:HB2	1.76	0.67
74:SO:101:GLY:HA3	74:SO:134:PRO:HD2	1.76	0.67
80:Sf:118:ARG:CZ	80:Sf:134:SER:HB3	2.24	0.67
1:L5:465:G:C2	1:L5:466:A:H1'	2.29	0.67
1:L5:700:G:C2'	1:L5:701:G:H5'	2.24	0.67
1:L5:981:C:H41	8:LE:74:SER:N	1.92	0.67
1:L5:1366:G:O2'	1:L5:1368:A:OP2	2.11	0.67
1:L5:1833:G:H8	22:LT:116:LYS:HE2	1.59	0.67
1:L5:1920:C:C3'	1:L5:1921:C:H5"	2.22	0.67
1:L5:2903:G:O2'	1:L5:3591:C:N4	2.26	0.67
1:L5:3965:A:N6	1:L5:4049:U:H2'	2.08	0.67
1:L5:4340:U:H2'	1:L5:4341:C:H5'	1.75	0.67
1:L5:4415:A:O3'	12:LI:74:LYS:NZ	2.26	0.67
1:L5:4773:C:N3	1:L5:4862:G:N2	2.42	0.67
1:L5:5022:U:H3	1:L5:5025:C:C1'	2.08	0.67
5:LB:44:THR:HG22	5:LB:349:LYS:HD3	1.76	0.67
6:LC:209:ILE:CD1	6:LC:251:ILE:HB	2.23	0.67
14:LL:12:PRO:HB2	14:LL:14:PHE:CD2	2.30	0.67
24:LV:37:LEU:HD23	24:LV:65:VAL:HG12	1.75	0.67
47:S2:197:U:H2'	47:S2:202:G:N2	2.09	0.67
47:S2:386:C:H1'	54:SI:5:ARG:HG3	1.75	0.67
47:S2:1102:G:N2	47:S2:1131:G:N3	2.42	0.67
47:S2:1680:G:H4'	66:Sc:20:ARG:NE	2.09	0.67
48:SA:193:HIS:CG	48:SA:194:PRO:HD2	2.29	0.67
49:SB:27:LYS:HG2	49:SB:51:ARG:NH1	2.08	0.67
50:SD:7:LYS:NZ	62:SU:85:HIS:O	2.28	0.67
50:SD:135:GLU:OE2	50:SD:157:MET:HG2	1.95	0.67
52:SF:39:ILE:HG23	52:SF:68:ILE:HG21	1.76	0.67
58:SQ:116:ASP:O	58:SQ:119:LEU:HG	1.95	0.67
60:SS:88:LYS:H	60:SS:95:TYR:HA	1.59	0.67
60:SS:120:HIS:O	60:SS:124:ARG:HG2	1.93	0.67
74:SO:103:ASN:ND2	74:SO:142:ARG:HA	2.09	0.67
75:SW:7:LEU:HD21	75:SW:126:LEU:HD21	1.76	0.67
76:SY:52:PRO:HA	76:SY:55:ILE:CD1	2.24	0.67
1:L5:460:C:H2'	1:L5:461:G:C8	2.29	0.67
1:L5:2577:C:C2'	1:L5:2578:G:H5'	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2601:A:N6	1:L5:2744:A:OP2	2.26	0.67
1:L5:2768:C:O2'	35:Lg:69:LYS:HD3	1.95	0.67
1:L5:3922:G:OP2	1:L5:4183:G:N2	2.26	0.67
1:L5:3965:A:N6	1:L5:4048:A:O2'	2.27	0.67
1:L5:4097:G:H5"	35:Lg:115:LYS:HG2	1.77	0.67
1:L5:4126:C:H5"	1:L5:4127:A:H5"	1.75	0.67
1:L5:4883:C:N4	1:L5:4947:U:O2'	2.28	0.67
1:L5:4886:C:H41	8:LE:272:ARG:HH22	1.41	0.67
1:L5:5039:U:H3'	1:L5:5040:U:H5"	1.77	0.67
8:LE:162:VAL:HG13	8:LE:177:GLY:H	1.58	0.67
9:LF:82:TYR:HD1	22:LT:140:PHE:CD1	2.13	0.67
12:LI:169:LYS:HG3	12:LI:170:LYS:HD2	1.76	0.67
13:LJ:95:ARG:HG2	13:LJ:175:LEU:CD1	2.24	0.67
14:LL:55:ILE:HG21	14:LL:96:ILE:HA	1.76	0.67
14:LL:169:ILE:HG22	14:LL:174:LYS:HG3	1.76	0.67
19:LQ:106:THR:HG22	19:LQ:108:ARG:H	1.58	0.67
27:LY:4:ASN:HB3	27:LY:7:VAL:HG22	1.75	0.67
44:Lp:64:VAL:HG11	44:Lp:71:TYR:HE1	1.59	0.67
47:S2:1175:G:N2	47:S2:1176:G:H1'	2.09	0.67
47:S2:1467:C:C5'	59:SR:1:MET:HA	2.23	0.67
47:S2:1530:U:H1'	61:ST:87:VAL:CG2	2.25	0.67
47:S2:1834:A:H5'	47:S2:1836:G:C8	2.29	0.67
50:SD:7:LYS:HE3	62:SU:25:THR:HB	1.77	0.67
51:SE:87:MET:SD	51:SE:100:ARG:NH2	2.62	0.67
58:SQ:14:GLY:HA2	58:SQ:90:LYS:NZ	2.09	0.67
58:SQ:15:ARG:HG2	58:SQ:19:ALA:O	1.94	0.67
62:SU:24:LEU:CB	62:SU:87:ARG:HB2	2.18	0.67
68:Sg:44:LYS:HD3	68:Sg:54:ILE:CG2	2.24	0.67
72:SM:86:GLY:HA2	72:SM:106:CYS:HB2	1.76	0.67
1:L5:1308:C:H2'	1:L5:1309:C:H6	1.58	0.67
1:L5:1691:G:H5"	19:LQ:13:VAL:CG1	2.25	0.67
1:L5:1795:A:N3	2:L7:79:U:O2'	2.27	0.67
1:L5:1850:A:N3	1:L5:2283:G:O2'	2.26	0.67
2:L7:48:G:C2'	2:L7:49:A:H5'	2.24	0.67
4:LA:112:ILE:CG2	4:LA:135:THR:HG22	2.24	0.67
7:LD:129:GLU:HB2	7:LD:177:THR:HG21	1.75	0.67
7:LD:129:GLU:CB	7:LD:177:THR:HG21	2.25	0.67
10:LG:29:ASN:HB3	10:LG:32:PHE:HD2	1.60	0.67
36:Lh:21:LEU:O	36:Lh:25:LYS:HG3	1.95	0.67
47:S2:323:C:N3	47:S2:329:G:H2'	2.09	0.67
47:S2:1225:U:C2'	47:S2:1226:G:H5'	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1398:G:H1'	68:Sg:63:SER:HB2	1.75	0.67
47:S2:1402:A:H4'	62:SU:51:LYS:HE3	1.77	0.67
47:S2:1659:U:OP2	47:S2:1660:C:N4	2.28	0.67
47:S2:1704:C:H1'	47:S2:1832:A:N1	2.10	0.67
48:SA:184:ARG:HG2	48:SA:189:ILE:CD1	2.24	0.67
49:SB:164:ILE:HG13	49:SB:204:ILE:HG21	1.76	0.67
58:SQ:57:LEU:HD23	58:SQ:58:LEU:N	2.09	0.67
61:ST:39:LEU:HB2	61:ST:43:LYS:HD2	1.76	0.67
72:SM:31:LEU:HA	72:SM:112:LYS:CE	2.25	0.67
72:SM:49:LEU:CD2	72:SM:128:PHE:HB2	2.25	0.67
73:SN:2:GLY:HA3	73:SN:9:LYS:CA	2.25	0.67
73:SN:98:VAL:HG11	73:SN:115:LEU:HD13	1.75	0.67
74:SO:92:ALA:HB2	74:SO:125:LYS:HB2	1.75	0.67
1:L5:1:C:H4'	1:L5:2:G:H5'	1.76	0.67
1:L5:20:U:OP2	3:L8:36:G:N2	2.28	0.67
1:L5:75:G:N2	1:L5:326:C:OP1	2.24	0.67
1:L5:1280:C:N4	8:LE:129:GLY:HA2	2.10	0.67
1:L5:2051:C:H5	1:L5:2052:G:C4	2.13	0.67
1:L5:2611:A:C5'	1:L5:2688:G:H4'	2.19	0.67
1:L5:2711:G:H5"	1:L5:2712:G:H5"	1.76	0.67
1:L5:3858:C:OP1	18:LP:86:LYS:NZ	2.22	0.67
1:L5:4220:A:OP2	22:LT:2:THR:OG1	2.10	0.67
1:L5:4766:C:O2'	1:L5:4767:C:H5'	1.94	0.67
1:L5:4911:A:H5'	5:LB:97:ARG:NH1	2.10	0.67
3:L8:111:U:H5	40:Ll:7:PHE:CD2	2.13	0.67
9:LF:137:GLU:N	9:LF:138:PRO:HD2	2.10	0.67
10:LG:49:ARG:O	10:LG:51:LEU:HG	1.95	0.67
10:LG:176:LYS:CG	37:Li:43:MET:HE1	2.22	0.67
44:Lp:46:LYS:HD2	44:Lp:59:SER:HB3	1.76	0.67
47:S2:194:C:N4	47:S2:205:G:O6	2.28	0.67
47:S2:302:A:H1'	54:SI:73:THR:OG1	1.94	0.67
47:S2:902:G:H2'	47:S2:903:A:C4'	2.25	0.67
47:S2:1226:G:N1	47:S2:1639:G:OP2	2.28	0.67
47:S2:1606:G:O2'	47:S2:1607:A:O4'	2.13	0.67
47:S2:1648:G:O6	58:SQ:16:LYS:NZ	2.27	0.67
48:SA:184:ARG:HG2	48:SA:189:ILE:HD11	1.75	0.67
49:SB:36:PRO:HA	49:SB:232:HIS:CD2	2.24	0.67
59:SR:17:ILE:HD11	59:SR:57:LEU:HD21	1.76	0.67
66:Sc:15:THR:OG1	66:Sc:31:ARG:HB3	1.94	0.67
68:Sg:47:ARG:NH1	68:Sg:309:VAL:HG11	2.09	0.67
70:SG:23:LYS:CA	70:SG:41:LEU:HA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:SZ:91:LEU:HB2	77:SZ:95:GLY:CA	2.24	0.67
1:L5:19:G:H2'	1:L5:20:U:C6	2.30	0.67
1:L5:133:C:H41	36:Lh:74:LYS:HD2	1.59	0.67
1:L5:318:A:H2	1:L5:4360:U:C2	2.12	0.67
1:L5:688:U:H2'	1:L5:689:U:O4'	1.93	0.67
1:L5:1692:C:O3'	19:LQ:143:ARG:NH1	2.27	0.67
1:L5:4118:U:C4	4:LA:95:GLN:HG2	2.29	0.67
1:L5:4237:C:H2'	1:L5:4238:G:C8	2.30	0.67
10:LG:165:GLU:N	10:LG:168:VAL:HG13	2.09	0.67
11:LH:5:LEU:HG	11:LH:7:ASN:OD1	1.95	0.67
14:LL:140:SER:O	14:LL:143:GLU:HB3	1.94	0.67
18:LP:3:ARG:NH2	18:LP:7:ASP:OD1	2.23	0.67
20:LR:10:LEU:HD11	20:LR:38:ARG:HG3	1.75	0.67
36:Lh:53:SER:HA	36:Lh:56:ARG:HH21	1.60	0.67
47:S2:807:G:N2	47:S2:808:A:N3	2.43	0.67
47:S2:870:A:H4'	47:S2:871:U:H3'	1.76	0.67
47:S2:1348:G:H1	47:S2:1381:G:H22	1.40	0.67
47:S2:1803:U:O2'	47:S2:1804:U:H5'	1.94	0.67
48:SA:111:GLN:HA	48:SA:116:PHE:CD1	2.29	0.67
48:SA:154:LEU:HD22	48:SA:157:VAL:HG21	1.77	0.67
49:SB:72:ALA:HA	49:SB:79:VAL:O	1.94	0.67
50:SD:127:MET:CE	50:SD:154:ASP:HB3	2.25	0.67
50:SD:205:PRO:HA	59:SR:42:PRO:HG2	1.76	0.67
53:SH:160:LYS:HE2	53:SH:192:PHE:CA	2.24	0.67
54:SI:67:TRP:HD1	54:SI:70:GLU:H	1.40	0.67
54:SI:147:LYS:O	54:SI:151:GLU:HG2	1.94	0.67
56:SL:90:ARG:HD3	56:SL:109:MET:HE3	1.77	0.67
58:SQ:12:VAL:HB	58:SQ:91:ALA:CB	2.24	0.67
60:SS:129:LEU:HD23	60:SS:130:ARG:O	1.93	0.67
68:Sg:194:TYR:CD2	68:Sg:212:LYS:HB2	2.30	0.67
69:SC:191:VAL:HG11	69:SC:236:PHE:HD1	1.60	0.67
70:SG:148:SER:HB3	70:SG:149:LYS:CB	2.18	0.67
73:SN:92:ILE:HA	73:SN:95:ALA:HB3	1.76	0.67
1:L5:28:C:OP1	16:LN:190:ALA:HB2	1.94	0.67
1:L5:176:G:N2	1:L5:177:G:H1'	2.09	0.67
1:L5:281:U:O2'	1:L5:282:C:H5'	1.94	0.67
1:L5:438:G:N2	34:Lf:23:GLU:OE2	2.28	0.67
1:L5:1684:A:C2'	1:L5:1685:G:H5'	2.25	0.67
1:L5:1869:G:H3'	1:L5:1870:C:C5'	2.24	0.67
1:L5:1869:G:H3'	1:L5:1870:C:H5'	1.77	0.67
1:L5:2385:U:OP1	20:LR:5:ARG:NH1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3767:C:O2'	1:L5:3768:U:OP1	2.12	0.67
2:L7:8:G:OP1	7:LD:33:ARG:NH2	2.28	0.67
2:L7:89:G:H2'	2:L7:90:A:H8	1.60	0.67
21:LS:95:ARG:NH2	21:LS:97:TYR:OH	2.28	0.67
24:LV:17:SER:HB3	24:LV:86:LYS:HZ2	1.59	0.67
27:LY:56:GLN:HB3	27:LY:105:VAL:CG1	2.23	0.67
31:Lc:18:LEU:HD11	31:Lc:22:MET:HE2	1.74	0.67
31:Lc:20:LEU:HD21	73:SN:44:GLY:HA3	1.75	0.67
39:Lk:31:ASN:CB	39:Lk:48:THR:HG22	2.24	0.67
46:Lz:37:SER:HB2	46:Lz:205:TYR:CE2	2.30	0.67
47:S2:422:U:OP1	56:SL:98:LYS:NZ	2.23	0.67
47:S2:538:U:H2'	47:S2:540:U:H5"	1.76	0.67
47:S2:1304:U:H4'	80:Sf:93:HIS:CD2	2.30	0.67
51:SE:90:ILE:HD12	51:SE:101:LEU:CD1	2.23	0.67
52:SF:74:ASN:CA	52:SF:77:MET:HE3	2.23	0.67
53:SH:163:GLN:HG2	53:SH:189:PHE:CD2	2.29	0.67
54:SI:93:THR:HG23	54:SI:95:THR:H	1.60	0.67
63:SV:5:ALA:HB3	63:SV:7:GLU:OE1	1.94	0.67
66:Sc:34:PHE:HE2	66:Sc:40:ARG:HG2	1.60	0.67
68:Sg:11:LEU:O	68:Sg:11:LEU:HD12	1.94	0.67
72:SM:15:ASN:OD1	72:SM:16:THR:N	2.28	0.67
1:L5:207:G:O2'	1:L5:232:G:N2	2.27	0.67
1:L5:380:U:O4	3:L8:20:A:N6	2.19	0.67
1:L5:729:G:H5'	1:L5:730:G:H5'	1.76	0.67
1:L5:1314:C:O2'	1:L5:1315:C:OP2	2.11	0.67
1:L5:1372:A:C2'	1:L5:1373:A:H5'	2.25	0.67
1:L5:1818:G:OP2	1:L5:1818:G:N2	2.27	0.67
7:LD:59:ASP:OD1	7:LD:60:ILE:N	2.28	0.67
7:LD:123:VAL:HG12	7:LD:248:ARG:NH1	2.09	0.67
11:LH:88:PHE:O	11:LH:187:VAL:HG23	1.95	0.67
14:LL:128:PRO:HB3	14:LL:134:PRO:HG3	1.76	0.67
21:LS:147:ASP:OD1	21:LS:148:SER:N	2.28	0.67
47:S2:106:C:OP1	47:S2:431:G:O2'	2.12	0.67
47:S2:194:C:H2'	47:S2:195:C:O4'	1.94	0.67
47:S2:1309:C:N4	72:SM:38:ALA:HB3	2.10	0.67
47:S2:1421:A:N1	47:S2:1427:C:O2'	2.25	0.67
47:S2:1623:A:H2'	47:S2:1624:U:C4'	2.25	0.67
52:SF:74:ASN:HA	52:SF:77:MET:CE	2.23	0.67
52:SF:179:ASN:HB3	52:SF:187:SER:CB	2.25	0.67
53:SH:10:LYS:HD3	53:SH:17:ASP:OD2	1.94	0.67
55:SK:9:ILE:HA	55:SK:12:TYR:CD2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:SP:22:LEU:HD12	57:SP:23:ASP:N	2.10	0.67
57:SP:64:LYS:CE	57:SP:71:GLU:HG3	2.24	0.67
58:SQ:23:ALA:HB2	58:SQ:70:VAL:HA	1.77	0.67
64:SX:128:VAL:HG23	64:SX:138:LYS:HE2	1.76	0.67
72:SM:48:HIS:CE1	72:SM:50:CYS:HA	2.29	0.67
73:SN:4:MET:HE3	73:SN:124:ARG:HD3	1.77	0.67
74:SO:57:THR:O	74:SO:60:MET:HG2	1.94	0.67
1:L5:967:C:H1'	1:L5:968:C:C5	2.30	0.67
1:L5:2029:A:H2'	1:L5:2030:A:H8	1.60	0.67
1:L5:3801:U:O2'	1:L5:3802:U:O5'	2.13	0.67
1:L5:4292:A:O2'	43:Lo:8:ARG:NH2	2.28	0.67
2:L7:60:G:H2'	2:L7:61:G:H8	1.58	0.67
13:LJ:160:GLU:HA	13:LJ:163:MET:HE3	1.76	0.67
15:LM:95:ILE:HG22	15:LM:96:GLU:N	2.07	0.67
16:LN:75:VAL:HG23	16:LN:76:PRO:HD2	1.76	0.67
17:LO:16:LEU:HD11	17:LO:83:THR:CG2	2.16	0.67
18:LP:30:ARG:HH21	18:LP:31:GLU:HG2	1.59	0.67
47:S2:361:U:H5"	47:S2:362:C:H5'	1.77	0.67
47:S2:694:G:O6	47:S2:738:C:O2'	2.11	0.67
47:S2:888:U:H1'	47:S2:889:U:C4	2.30	0.67
47:S2:1225:U:H2'	47:S2:1226:G:H5'	1.77	0.67
47:S2:1512:C:H4'	67:Sd:8:TRP:CD1	2.30	0.67
47:S2:1542:C:C3'	61:ST:62:ARG:HH12	2.06	0.67
47:S2:1597:C:H1'	47:S2:1603:G:N1	2.10	0.67
48:SA:111:GLN:CG	48:SA:112:ILE:HD12	2.25	0.67
51:SE:42:LEU:HD21	51:SE:46:ILE:HD11	1.76	0.67
58:SQ:23:ALA:CB	58:SQ:70:VAL:HA	2.25	0.67
62:SU:51:LYS:N	62:SU:90:ASP:OD1	2.17	0.67
68:Sg:8:ARG:NH1	68:Sg:311:GLN:HB2	2.10	0.67
68:Sg:31:ILE:CG2	68:Sg:43:TRP:HB2	2.25	0.67
68:Sg:33:SER:O	68:Sg:41:ILE:N	2.27	0.67
70:SG:76:LEU:HD21	70:SG:92:ARG:CD	2.25	0.67
71:SJ:97:ILE:O	71:SJ:100:LEU:HD13	1.95	0.67
73:SN:84:LEU:HD12	73:SN:85:PRO:CD	2.25	0.67
1:L5:116:G:OP2	16:LN:2:GLY:N	2.28	0.66
1:L5:257:C:N4	1:L5:258:G:O6	2.28	0.66
1:L5:964:A:H3'	1:L5:964:A:N3	2.10	0.66
1:L5:1075:G:N2	1:L5:1236:C:O2	2.28	0.66
1:L5:1696:C:H1'	1:L5:1697:G:C2'	2.24	0.66
1:L5:2291:G:H1'	1:L5:2345:G:N2	2.10	0.66
1:L5:2313:A:O2'	1:L5:2314:G:H5'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2590:G:O2'	1:L5:2755:A:N6	2.28	0.66
1:L5:2614:C:H1'	1:L5:2726:G:H22	1.60	0.66
1:L5:3618:C:H5'	1:L5:3619:G:OP1	1.94	0.66
1:L5:4924:C:C2'	1:L5:4925:U:H5'	2.24	0.66
3:L8:84:A:OP1	3:L8:86:U:N3	2.27	0.66
5:LB:232:THR:OG1	5:LB:249:ARG:HB3	1.95	0.66
6:LC:33:ARG:NE	19:LQ:22:ASP:OD1	2.24	0.66
6:LC:264:TYR:O	6:LC:271:ALA:HB2	1.95	0.66
6:LC:267:TRP:NE1	6:LC:280:PRO:O	2.20	0.66
6:LC:299:GLN:HA	6:LC:302:LEU:CD1	2.25	0.66
11:LH:82:LYS:CE	11:LH:186:THR:HG21	2.25	0.66
35:Lg:42:PRO:HD2	35:Lg:56:VAL:HG21	1.76	0.66
46:Lz:31:THR:HA	46:Lz:171:HIS:CD2	2.30	0.66
47:S2:200:G:H2'	47:S2:200:G:N3	2.10	0.66
47:S2:348:A:O2'	47:S2:349:A:H5'	1.96	0.66
47:S2:374:G:H1'	56:SL:83:GLN:NE2	2.10	0.66
47:S2:1159:G:C2'	47:S2:1160:U:H5'	2.25	0.66
47:S2:1337:C:H2'	47:S2:1338:G:H8	1.57	0.66
47:S2:1745:A:C8	70:SG:65:GLN:HG2	2.30	0.66
49:SB:90:ASP:HB2	49:SB:97:LEU:HB2	1.76	0.66
53:SH:10:LYS:HZ1	53:SH:20:GLU:CD	2.03	0.66
59:SR:58:MET:O	59:SR:61:ILE:HG12	1.95	0.66
62:SU:55:ARG:HG2	62:SU:87:ARG:CD	2.26	0.66
62:SU:66:ARG:NH2	62:SU:75:LYS:HG2	2.08	0.66
63:SV:30:ALA:HB3	63:SV:57:GLY:HA3	1.76	0.66
64:SX:94:ILE:HG13	64:SX:125:VAL:HG21	1.76	0.66
66:Sc:11:LEU:HD13	66:Sc:55:VAL:HG11	1.75	0.66
1:L5:135:G:N7	36:Lh:97:LYS:HB2	2.10	0.66
1:L5:193:G:H2'	1:L5:194:C:H6	1.60	0.66
1:L5:1267:C:N4	1:L5:2121:C:H2'	2.09	0.66
1:L5:1886:G:O2'	1:L5:1909:G:O2'	1.97	0.66
1:L5:1902:G:H2'	1:L5:1903:G:H8	1.59	0.66
1:L5:2360:A:O2'	1:L5:2361:G:OP2	2.14	0.66
1:L5:2471:G:H4'	10:LG:59:ARG:HD2	1.77	0.66
1:L5:3941:G:H22	1:L5:4073:A:H1'	1.59	0.66
1:L5:4108:G:C2'	1:L5:4109:G:H5'	2.22	0.66
1:L5:4767:C:HO2'	1:L5:4874:A:N6	1.93	0.66
5:LB:136:LYS:HD2	5:LB:145:GLN:HB3	1.76	0.66
15:LM:123:ILE:HG21	17:LO:178:ARG:CD	2.24	0.66
18:LP:24:VAL:CG1	18:LP:86:LYS:HE2	2.26	0.66
18:LP:32:THR:HA	18:LP:58:VAL:CG1	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:LY:34:LEU:HD23	27:LY:38:LEU:CD1	2.25	0.66
27:LY:109:LEU:HD12	27:LY:110:LYS:H	1.60	0.66
28:LZ:72:VAL:HG22	28:LZ:111:ARG:HD3	1.76	0.66
33:Le:78:LEU:HD12	33:Le:98:GLU:O	1.96	0.66
47:S2:1269:G:H3'	47:S2:1270:G:H5"	1.77	0.66
47:S2:1612:G:H1'	60:SS:87:GLN:NE2	2.11	0.66
47:S2:1649:U:OP1	58:SQ:128:GLU:HG2	1.95	0.66
51:SE:71:LYS:HD3	51:SE:74:GLY:C	2.21	0.66
51:SE:198:ARG:HH11	51:SE:222:LEU:HD23	1.58	0.66
52:SF:136:ARG:O	52:SF:203:ASN:ND2	2.19	0.66
52:SF:171:GLU:OE2	52:SF:175:ASP:HB3	1.95	0.66
53:SH:177:TYR:CE1	53:SH:181:THR:HG21	2.29	0.66
54:SI:106:SER:HB2	54:SI:169:GLY:HA2	1.75	0.66
55:SK:32:HIS:ND1	55:SK:33:PRO:HD2	2.10	0.66
58:SQ:50:LYS:CA	58:SQ:53:GLU:HG3	2.22	0.66
59:SR:29:HIS:O	59:SR:32:LYS:HB3	1.95	0.66
59:SR:126:MET:HG2	59:SR:128:PHE:HD1	1.59	0.66
69:SC:242:ASP:OD1	69:SC:246:LYS:HB2	1.96	0.66
70:SG:218:LYS:O	70:SG:222:GLU:N	2.26	0.66
75:SW:70:ASN:HB2	75:SW:130:PHE:O	1.95	0.66
76:SY:36:PRO:HD2	76:SY:39:GLU:OE2	1.94	0.66
1:L5:467:U:H2'	1:L5:468:U:H4'	1.78	0.66
1:L5:724:C:OP2	6:LC:350:ARG:NH2	2.28	0.66
1:L5:963:G:H1'	1:L5:2252:G:N1	2.09	0.66
1:L5:1199:G:H2'	1:L5:1200:G:H8	1.59	0.66
1:L5:1333:A:H2'	1:L5:1334:A:C8	2.25	0.66
1:L5:1970:A:O2'	1:L5:2017:A:N7	2.25	0.66
1:L5:2406:G:H1'	1:L5:2791:C:H5'	1.77	0.66
1:L5:2484:A:N1	1:L5:2495:U:H2'	2.10	0.66
1:L5:2672:C:O2'	1:L5:2673:G:N2	2.28	0.66
1:L5:3590:G:H3'	1:L5:3591:C:C5'	2.23	0.66
1:L5:3932:U:O2'	1:L5:3933:G:H5'	1.94	0.66
1:L5:4238:G:O6	1:L5:4286:C:N4	2.20	0.66
1:L5:4582:C:H2'	1:L5:4583:C:O4'	1.96	0.66
5:LB:189:THR:HG23	5:LB:192:GLU:H	1.61	0.66
9:LF:147:LEU:HA	9:LF:150:VAL:HG22	1.76	0.66
13:LJ:19:LYS:HG2	13:LJ:133:VAL:HB	1.77	0.66
16:LN:120:TRP:HZ2	16:LN:123:GLU:HB2	1.61	0.66
25:LW:82:ILE:HG22	25:LW:84:GLY:N	2.10	0.66
33:Le:74:PHE:CD2	33:Le:96:CYS:HB3	2.30	0.66
33:Le:108:ARG:HA	33:Le:111:ILE:CG2	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Lr:32:LEU:HA	45:Lr:113:ARG:HH21	1.58	0.66
46:Lz:86:ASP:CG	46:Lz:87:ILE:H	2.02	0.66
47:S2:795:A:H8	47:S2:796:G:H3'	1.60	0.66
47:S2:1725:U:C3'	47:S2:1726:G:H5"	2.24	0.66
49:SB:39:PHE:CB	49:SB:74:LEU:HD11	2.26	0.66
49:SB:164:ILE:CG1	49:SB:204:ILE:HG21	2.25	0.66
50:SD:41:VAL:HA	50:SD:46:THR:HB	1.77	0.66
52:SF:142:SER:OG	66:Sc:49:PRO:O	2.10	0.66
53:SH:24:SER:CA	53:SH:27:LEU:HD13	2.25	0.66
53:SH:144:ILE:CG2	75:SW:52:ILE:HD11	2.25	0.66
57:SP:84:ILE:HG23	57:SP:85:ILE:HG22	1.75	0.66
63:SV:66:ASP:OD1	63:SV:67:ASP:N	2.29	0.66
68:Sg:219:TRP:HZ3	68:Sg:226:HIS:HA	1.58	0.66
72:SM:18:LEU:HB2	72:SM:84:LYS:NZ	2.09	0.66
1:L5:346:G:OP1	27:LY:8:THR:OG1	2.12	0.66
1:L5:718:C:C2'	1:L5:719:C:H5'	2.25	0.66
1:L5:923:C:H2'	1:L5:924:C:H6	1.60	0.66
1:L5:1214:C:H3'	1:L5:1215:C:H5'	1.76	0.66
1:L5:2062:C:O2'	1:L5:2063:G:H5'	1.94	0.66
1:L5:2118:G:O2'	1:L5:2119:C:OP1	2.13	0.66
1:L5:2553:A:OP1	1:L5:2764:A:N6	2.28	0.66
1:L5:3967:G:N2	1:L5:4056:A:O2'	2.29	0.66
1:L5:3972:A:N1	46:Lz:105:LYS:HE3	2.10	0.66
1:L5:4103:C:H1'	1:L5:4106:G:H1	1.59	0.66
1:L5:4703:U:C2'	1:L5:4704:C:H5'	2.25	0.66
1:L5:5062:G:H21	1:L5:5063:G:H1'	1.58	0.66
10:LG:137:ARG:CG	10:LG:146:LEU:HD11	2.24	0.66
11:LH:48:LEU:HD23	11:LH:54:ARG:HB2	1.76	0.66
11:LH:111:LEU:HD23	11:LH:112:VAL:N	2.11	0.66
13:LJ:22:LEU:CD1	13:LJ:72:CYS:HB3	2.20	0.66
14:LL:178:ALA:HB1	29:La:146:LEU:CD1	2.25	0.66
21:LS:127:MET:CB	22:LT:153:PRO:HG2	2.25	0.66
23:LU:49:VAL:HG21	23:LU:57:GLY:N	2.10	0.66
28:LZ:89:ILE:HG23	28:LZ:91:LEU:CD1	2.26	0.66
44:Lp:91:ASP:OD1	44:Lp:92:GLN:N	2.26	0.66
46:Lz:23:ARG:HG3	46:Lz:212:LYS:HZ3	1.59	0.66
46:Lz:53:VAL:HG12	46:Lz:157:PHE:HE1	1.60	0.66
47:S2:1226:G:H1'	47:S2:1640:A:N6	2.10	0.66
47:S2:1299:A:C2	47:S2:1301:A:H5"	2.30	0.66
47:S2:1654:G:N3	47:S2:1671:G:N2	2.44	0.66
48:SA:30:LEU:HD11	48:SA:34:MET:C	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:SB:140:VAL:CG1	49:SB:213:ARG:HD3	2.25	0.66
50:SD:97:CYS:SG	50:SD:100:ALA:HB2	2.36	0.66
52:SF:92:ILE:HG22	52:SF:173:LEU:HD21	1.77	0.66
53:SH:83:LEU:CD2	53:SH:87:PHE:HB3	2.26	0.66
57:SP:30:TYR:O	57:SP:33:LEU:HG	1.94	0.66
58:SQ:71:ARG:HD2	58:SQ:73:LYS:NZ	2.11	0.66
61:ST:124:THR:HG23	61:ST:127:GLY:N	2.08	0.66
68:Sg:108:VAL:HG23	68:Sg:124:SER:CB	2.25	0.66
71:SJ:38:ARG:HB2	71:SJ:127:ARG:NH2	2.09	0.66
77:SZ:70:PRO:HA	77:SZ:88:LEU:HD11	1.78	0.66
77:SZ:70:PRO:HG2	77:SZ:107:VAL:HB	1.76	0.66
1:L5:216:C:H2'	1:L5:217:C:C5'	2.25	0.66
1:L5:469:C:O2'	1:L5:470:A:H5'	1.95	0.66
1:L5:1077:C:H1'	1:L5:1234:G:N2	2.09	0.66
1:L5:1267:C:N4	1:L5:2122:G:OP2	2.28	0.66
1:L5:1267:C:O3'	1:L5:1268:G:H2'	1.96	0.66
1:L5:1366:G:N1	6:LC:218:ILE:HG12	2.10	0.66
1:L5:1933:G:H2'	1:L5:1934:A:C8	2.30	0.66
1:L5:2059:C:O2	21:LS:118:ARG:NH1	2.27	0.66
1:L5:2550:G:N1	1:L5:2767:U:O4	2.27	0.66
1:L5:2759:G:O2'	1:L5:2760:G:H5'	1.96	0.66
1:L5:3593:C:H2'	1:L5:3595:U:C4	2.30	0.66
1:L5:4151:G:O2'	1:L5:4152:G:H5'	1.95	0.66
2:L7:21:G:H1	2:L7:57:C:N4	1.90	0.66
5:LB:168:MET:CG	5:LB:178:ALA:HA	2.24	0.66
7:LD:121:GLY:HA3	7:LD:168:ASP:O	1.94	0.66
10:LG:118:ALA:O	10:LG:122:ALA:N	2.28	0.66
13:LJ:9:GLU:O	13:LJ:13:ARG:HB3	1.94	0.66
21:LS:15:ARG:HB3	21:LS:27:LEU:CD2	2.24	0.66
21:LS:34:ALA:HB1	21:LS:39:VAL:HG13	1.76	0.66
27:LY:58:VAL:HG12	27:LY:59:ARG:N	2.09	0.66
28:LZ:46:ILE:HA	28:LZ:70:SER:HA	1.76	0.66
29:La:31:GLY:HA3	29:La:35:ALA:HB3	1.76	0.66
37:Li:70:LEU:HD22	37:Li:87:ARG:HH11	1.60	0.66
47:S2:493:A:H2'	47:S2:494:C:H5'	1.78	0.66
47:S2:581:U:OP1	76:SY:65:GLY:N	2.21	0.66
47:S2:665:G:O6	47:S2:1162:C:N4	2.14	0.66
47:S2:900:C:H3'	47:S2:901:G:H8	1.61	0.66
47:S2:1402:A:H5'	62:SU:51:LYS:HZ2	1.60	0.66
47:S2:1403:C:OP1	62:SU:51:LYS:NZ	2.23	0.66
49:SB:32:ASP:N	49:SB:94:LYS:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:45:ARG:HG3	50:SD:83:SER:C	2.20	0.66
53:SH:51:ILE:HG23	53:SH:179:LYS:HZ2	1.60	0.66
53:SH:122:LEU:HB2	53:SH:126:HIS:CE1	2.29	0.66
55:SK:58:VAL:HG21	55:SK:69:TRP:HB3	1.78	0.66
58:SQ:14:GLY:HA2	58:SQ:90:LYS:HZ3	1.60	0.66
60:SS:123:LEU:HA	60:SS:126:PHE:HB3	1.78	0.66
68:Sg:252:THR:HG21	68:Sg:257:LYS:NZ	2.09	0.66
78:Sb:23:ARG:NH1	78:Sb:27:SER:OG	2.28	0.66
1:L5:191:G:C2'	1:L5:192:G:H5'	2.24	0.66
1:L5:1190:C:H5"	1:L5:1191:C:OP2	1.96	0.66
1:L5:1766:A:H3'	1:L5:1767:A:C5'	2.25	0.66
1:L5:1839:U:O2'	1:L5:1840:G:H5'	1.96	0.66
1:L5:1903:G:O2'	1:L5:1904:G:H5'	1.95	0.66
1:L5:2066:C:H1'	34:Lf:80:ASN:ND2	2.10	0.66
1:L5:2521:G:H2'	1:L5:2522:G:C8	2.25	0.66
1:L5:3717:A:H2'	1:L5:3718:A:C8	2.30	0.66
1:L5:4082:G:N2	1:L5:4165:C:O2	2.29	0.66
8:LE:141:ARG:HH12	34:Lf:110:ILE:HD12	1.61	0.66
11:LH:6:SER:HB2	11:LH:59:LYS:HB3	1.76	0.66
12:LI:41:ALA:HB1	12:LI:45:GLU:OE1	1.95	0.66
23:LU:23:LEU:HD22	23:LU:70:ILE:HD13	1.77	0.66
23:LU:23:LEU:HB3	23:LU:70:ILE:HB	1.76	0.66
23:LU:25:CYS:C	23:LU:28:PRO:HD2	2.21	0.66
23:LU:64:GLU:HB3	23:LU:71:THR:HB	1.76	0.66
27:LY:56:GLN:HG3	27:LY:67:ILE:CD1	2.26	0.66
47:S2:121:U:H2'	47:S2:122:G:H5'	1.77	0.66
47:S2:126:G:H22	70:SG:195:LYS:HB3	1.60	0.66
47:S2:373:G:H21	56:SL:83:GLN:NE2	1.94	0.66
47:S2:398:A:C4'	47:S2:399:C:H5'	2.26	0.66
47:S2:751:G:H21	47:S2:752:G:C1'	2.08	0.66
47:S2:1421:A:O2'	61:ST:2:PRO:O	2.11	0.66
52:SF:30:ILE:HG13	52:SF:32:ASP:H	1.59	0.66
53:SH:144:ILE:CG1	53:SH:154:ILE:HG12	2.26	0.66
61:ST:39:LEU:HD22	61:ST:43:LYS:HZ2	1.60	0.66
62:SU:24:LEU:CD2	62:SU:32:LEU:HG	2.25	0.66
68:Sg:110:SER:O	68:Sg:123:GLY:HA3	1.95	0.66
71:SJ:78:LEU:HD21	71:SJ:92:MET:HA	1.76	0.66
72:SM:31:LEU:HA	72:SM:112:LYS:HE2	1.77	0.66
77:SZ:48:VAL:O	77:SZ:49:LEU:HG	1.95	0.66
77:SZ:69:THR:OG1	77:SZ:72:VAL:HB	1.96	0.66
1:L5:973:G:O2'	6:LC:327:LYS:NZ	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:989:U:H2'	1:L5:990:C:C6	2.31	0.66
1:L5:1497:A:C2	19:LQ:165:PRO:HG2	2.30	0.66
1:L5:2253:A:O2'	1:L5:2254:G:O3'	2.13	0.66
1:L5:2316:G:O2'	1:L5:2317:C:H5'	1.95	0.66
1:L5:2392:C:OP1	1:L5:4654:C:O2'	2.14	0.66
1:L5:3852:A:H2'	1:L5:3853:U:H5'	1.78	0.66
1:L5:4129:G:H4'	10:LG:34:LYS:HB3	1.78	0.66
1:L5:4482:U:O2'	1:L5:4483:C:H5'	1.96	0.66
1:L5:5018:C:OP1	54:SI:92:ARG:HG3	1.95	0.66
7:LD:278:ASP:HA	7:LD:281:ALA:HB3	1.76	0.66
9:LF:112:LEU:C	9:LF:113:ARG:HG2	2.20	0.66
10:LG:159:HIS:CE1	10:LG:160:ASP:HB3	2.30	0.66
11:LH:67:LEU:O	11:LH:70:VAL:HG12	1.96	0.66
16:LN:152:THR:CG2	36:Lh:95:LEU:HD11	2.26	0.66
25:LW:83:THR:HG23	70:SG:131:ARG:CZ	2.25	0.66
26:LX:94:ASN:ND2	26:LX:140:LEU:HB2	2.10	0.66
28:LZ:57:MET:HB3	28:LZ:61:LYS:HD3	1.75	0.66
47:S2:305:U:H5	54:SI:184:ARG:HH21	1.42	0.66
47:S2:453:C:H2'	47:S2:454:U:H5'	1.77	0.66
47:S2:1163:C:H2'	47:S2:1164:G:N7	2.11	0.66
47:S2:1818:A:H2'	47:S2:1819:A:C5'	2.26	0.66
49:SB:136:ARG:CZ	49:SB:218:LEU:HD21	2.26	0.66
51:SE:100:ARG:H	51:SE:114:ILE:CD1	2.09	0.66
54:SI:165:GLN:NE2	54:SI:171:LEU:HA	2.11	0.66
58:SQ:96:TYR:HA	58:SQ:100:VAL:CG2	2.25	0.66
60:SS:33:ILE:HB	60:SS:36:VAL:CG1	2.25	0.66
68:Sg:4:GLN:NE2	68:Sg:313:THR:O	2.25	0.66
68:Sg:114:SER:CB	68:Sg:118:ARG:H	2.09	0.66
68:Sg:258:ILE:CG2	68:Sg:267:VAL:HG12	2.25	0.66
1:L5:37:U:H4'	29:La:32:ARG:HD2	1.77	0.66
1:L5:50:C:O2'	1:L5:51:A:H5'	1.95	0.66
1:L5:123:C:H2'	1:L5:124:C:H6	1.60	0.66
1:L5:1072:C:H3'	1:L5:1072:C:OP2	1.96	0.66
1:L5:1272:C:OP2	8:LE:72:LYS:HE2	1.95	0.66
1:L5:1691:G:H4'	1:L5:1691:G:OP1	1.94	0.66
1:L5:2055:G:O2'	1:L5:2056:G:OP2	2.10	0.66
1:L5:2299:G:OP1	6:LC:204:ARG:NH2	2.29	0.66
1:L5:3748:A:H2'	1:L5:3749:C:H6	1.59	0.66
1:L5:3772:U:H2'	1:L5:3775:A:C2	2.31	0.66
1:L5:3796:U:H2'	1:L5:3797:C:C6	2.31	0.66
1:L5:3941:G:N2	1:L5:4073:A:H1'	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:174:LEU:CD2	8:LE:212:LEU:HD23	2.25	0.66
12:LI:100:ASN:OD1	12:LI:101:LYS:N	2.28	0.66
15:LM:39:ASP:HB2	15:LM:47:ARG:HG2	1.76	0.66
23:LU:56:LEU:HD22	23:LU:61:VAL:HG21	1.77	0.66
24:LV:19:GLY:O	24:LV:20:LEU:HD12	1.95	0.66
28:LZ:54:THR:CG2	28:LZ:57:MET:HG3	2.26	0.66
35:Lg:61:PRO:O	35:Lg:64:LEU:HB2	1.96	0.66
35:Lg:69:LYS:HE3	35:Lg:73:HIS:NE2	2.11	0.66
38:Lj:52:LYS:HD3	38:Lj:55:ARG:NH1	2.10	0.66
47:S2:84:A:H4'	76:SY:124:ASN:ND2	2.10	0.66
47:S2:94:G:HO2'	47:S2:508:A:HO2'	1.38	0.66
47:S2:896:U:H4'	47:S2:897:U:OP1	1.95	0.66
47:S2:1414:A:H4'	47:S2:1415:C:OP1	1.95	0.66
47:S2:1678:A:H2'	47:S2:1679:A:H5'	1.78	0.66
49:SB:103:MET:CG	49:SB:215:VAL:HG22	2.18	0.66
51:SE:36:HIS:NE2	51:SE:85:GLY:HA3	2.10	0.66
53:SH:9:VAL:HG21	53:SH:28:LEU:HD11	1.77	0.66
53:SH:51:ILE:CD1	53:SH:61:ILE:HG12	2.26	0.66
54:SI:59:ARG:C	54:SI:60:LEU:HD12	2.21	0.66
62:SU:20:ILE:HG23	62:SU:115:THR:H	1.61	0.66
70:SG:219:GLU:O	70:SG:223:LYS:HG3	1.96	0.66
73:SN:35:GLU:O	73:SN:39:LYS:N	2.28	0.66
74:SO:41:PHE:CD1	74:SO:57:THR:HG22	2.30	0.66
76:SY:18:LEU:C	76:SY:20:ARG:H	2.04	0.66
76:SY:27:VAL:CG2	76:SY:40:ILE:HD12	2.26	0.66
1:L5:258:G:H2'	1:L5:259:C:C6	2.31	0.66
1:L5:458:C:H2'	1:L5:459:C:C6	2.28	0.66
1:L5:1256:G:C4	1:L5:1257:A:H1'	2.30	0.66
1:L5:1879:C:O2'	1:L5:1891:A:N3	2.26	0.66
1:L5:1898:C:C4	1:L5:2279:A:H1'	2.31	0.66
1:L5:2721:G:H2'	1:L5:2722:G:H5'	1.78	0.66
1:L5:3667:C:OP1	4:LA:231:ALA:HA	1.95	0.66
1:L5:3706:C:H2'	1:L5:3707:U:C6	2.30	0.66
1:L5:3973:G:N2	1:L5:4050:A:H2'	2.11	0.66
1:L5:4087:G:N7	4:LA:67:TYR:OH	2.24	0.66
1:L5:4727:A:C5'	5:LB:129:ALA:HA	2.26	0.66
2:L7:96:U:H2'	2:L7:97:G:H5"	1.78	0.66
4:LA:42:LYS:HG3	4:LA:89:TYR:CE1	2.31	0.66
9:LF:93:ILE:HD13	9:LF:247:MET:CE	2.26	0.66
9:LF:112:LEU:HG	9:LF:114:LEU:CD1	2.25	0.66
9:LF:153:LEU:HD11	9:LF:244:ILE:HD11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:LO:51:LYS:HZ3	17:LO:144:GLU:HB3	1.61	0.66
19:LQ:96:PRO:O	19:LQ:98:LEU:HG	1.96	0.66
28:LZ:53:VAL:HG21	28:LZ:62:ILE:CD1	2.26	0.66
29:La:21:ARG:HH22	33:Le:41:ILE:HG23	1.60	0.66
31:Lc:61:GLU:O	31:Lc:65:MET:HG3	1.96	0.66
47:S2:31:U:O2'	47:S2:643:A:N1	2.27	0.66
47:S2:47:G:H2'	47:S2:48:C:H5'	1.78	0.66
47:S2:77:A:N3	70:SG:154:ARG:HG3	2.11	0.66
47:S2:405:G:H2'	47:S2:406:U:O4'	1.96	0.66
47:S2:932:G:O2'	47:S2:934:G:OP2	2.12	0.66
47:S2:950:C:H42	47:S2:976:G:H22	1.44	0.66
47:S2:1429:G:N2	47:S2:1430:C:H1'	2.11	0.66
47:S2:1453:C:H1'	47:S2:1455:A:H5'	1.78	0.66
47:S2:1459:G:H1	47:S2:1467:C:H42	1.43	0.66
48:SA:111:GLN:HA	48:SA:116:PHE:CG	2.30	0.66
49:SB:21:VAL:HG12	49:SB:22:VAL:N	2.11	0.66
50:SD:106:ARG:HG2	50:SD:110:LEU:HG	1.78	0.66
52:SF:76:MET:HE1	52:SF:158:ALA:CB	2.25	0.66
60:SS:80:PRO:HG2	60:SS:83:PHE:CZ	2.30	0.66
61:ST:11:GLN:NE2	61:ST:62:ARG:HD2	2.11	0.66
61:ST:70:ALA:HB1	61:ST:74:SER:CB	2.25	0.66
61:ST:73:GLY:O	61:ST:76:THR:HG22	1.96	0.66
62:SU:24:LEU:HD21	62:SU:32:LEU:HG	1.78	0.66
68:Sg:168:CYS:HB2	68:Sg:195:LEU:HB3	1.78	0.66
70:SG:190:ARG:HA	70:SG:193:ALA:CB	2.23	0.66
77:SZ:91:LEU:HB2	77:SZ:95:GLY:HA2	1.78	0.66
1:L5:2:G:H2'	1:L5:3:C:C6	2.31	0.66
1:L5:681:G:H2'	1:L5:682:G:O4'	1.94	0.66
1:L5:977:C:H5'	8:LE:62:MET:HE1	1.77	0.66
1:L5:1543:G:O2'	1:L5:1544:G:H5'	1.96	0.66
1:L5:1809:C:N4	1:L5:1829:G:O6	2.16	0.66
1:L5:2113:G:N1	1:L5:2115:G:H5'	2.10	0.66
1:L5:2273:G:O2'	1:L5:2274:C:H5'	1.96	0.66
1:L5:2707:U:OP1	1:L5:2708:U:H5'	1.96	0.66
1:L5:3933:G:O2'	1:L5:3934:G:H5'	1.96	0.66
1:L5:4168:G:C2'	1:L5:4169:G:H5'	2.24	0.66
1:L5:4303:C:O2'	1:L5:4304:A:H2'	1.96	0.66
1:L5:4340:U:C2'	1:L5:4341:C:H5'	2.26	0.66
5:LB:39:LYS:HB2	5:LB:187:GLY:HA2	1.78	0.66
7:LD:68:ARG:N	7:LD:72:ASP:OD1	2.29	0.66
16:LN:179:LYS:HB2	16:LN:180:PHE:CE2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:LZ:9:LYS:HA	28:LZ:86:SER:CB	2.26	0.66
34:Lf:50:VAL:HG12	34:Lf:69:VAL:CG1	2.26	0.66
47:S2:65:C:C2	70:SG:133:LEU:HD23	2.30	0.66
47:S2:313:A:P	47:S2:313:A:H3'	2.36	0.66
47:S2:692:G:N2	47:S2:738:C:O2'	2.29	0.66
47:S2:809:A:C3'	47:S2:810:A:H5"	2.25	0.66
47:S2:1491:G:H1'	62:SU:72:GLU:HG2	1.78	0.66
47:S2:1553:C:O2	47:S2:1555:U:O2'	2.08	0.66
47:S2:1607:A:H2'	47:S2:1607:A:N3	2.10	0.66
47:S2:1823:A:H1'	47:S2:1824:A:H3'	1.77	0.66
51:SE:51:ARG:O	51:SE:53:LYS:HG3	1.96	0.66
51:SE:139:LEU:CD2	51:SE:150:PRO:HB3	2.24	0.66
51:SE:248:ILE:CD1	51:SE:249:ALA:H	2.08	0.66
52:SF:125:SER:CB	52:SF:135:ARG:HD2	2.23	0.66
61:ST:128:GLN:NE2	61:ST:131:LEU:HD23	2.11	0.66
70:SG:162:LEU:HB2	70:SG:170:ARG:CG	2.26	0.66
73:SN:129:TYR:CD1	73:SN:134:VAL:HG21	2.30	0.66
75:SW:37:PHE:O	75:SW:40:VAL:HG22	1.95	0.66
76:SY:50:THR:HG21	76:SY:75:ILE:HG22	1.78	0.66
1:L5:75:G:H4'	1:L5:76:A:OP1	1.95	0.65
1:L5:450:G:H2'	1:L5:450:G:N3	2.10	0.65
1:L5:986:C:H42	1:L5:1068:G:H22	1.43	0.65
1:L5:1244:G:O2'	1:L5:1245:C:O5'	2.14	0.65
1:L5:1461:C:OP1	19:LQ:144:LYS:NZ	2.23	0.65
1:L5:1931:C:O2'	1:L5:1932:A:OP1	2.11	0.65
1:L5:2290:C:H2'	1:L5:2291:G:O4'	1.96	0.65
1:L5:4342:C:N4	1:L5:4370:G:O6	2.19	0.65
1:L5:4459:U:O2'	5:LB:265:SER:OG	2.13	0.65
1:L5:4685:U:H2'	1:L5:4686:G:C8	2.30	0.65
6:LC:209:ILE:HD11	6:LC:251:ILE:HD12	1.77	0.65
6:LC:340:ILE:HD13	8:LE:51:VAL:CG2	2.25	0.65
13:LJ:33:LEU:HD11	13:LJ:70:VAL:HG13	1.78	0.65
20:LR:152:LYS:O	20:LR:156:ALA:N	2.26	0.65
27:LY:42:TYR:CD1	27:LY:119:LEU:HD23	2.31	0.65
47:S2:806:U:H2'	47:S2:807:G:C8	2.32	0.65
47:S2:1055:A:H2'	47:S2:1056:U:H6	1.61	0.65
47:S2:1317:C:H3'	47:S2:1318:G:C5'	2.26	0.65
47:S2:1383:A:H4'	50:SD:156:LEU:HG	1.76	0.65
47:S2:1610:G:N2	47:S2:1630:A:H1'	2.10	0.65
47:S2:1683:C:H2'	47:S2:1684:C:H6	1.60	0.65
47:S2:1867:U:H4'	47:S2:1868:U:O5'	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:SI:82:VAL:HG23	54:SI:103:LEU:HD13	1.76	0.65
55:SK:32:HIS:HB2	55:SK:42:ASN:CB	2.24	0.65
58:SQ:12:VAL:CG2	58:SQ:91:ALA:HA	2.25	0.65
59:SR:100:PRO:HA	59:SR:103:LYS:CB	2.26	0.65
60:SS:64:VAL:O	60:SS:68:ILE:HG23	1.96	0.65
64:SX:53:GLU:HG2	64:SX:55:VAL:HG13	1.77	0.65
68:Sg:111:VAL:HG23	68:Sg:123:GLY:N	2.11	0.65
70:SG:5:ILE:HG12	70:SG:111:LEU:CD2	2.26	0.65
76:SY:54:VAL:HG12	76:SY:79:LEU:CD1	2.24	0.65
77:SZ:65:TYR:HE1	77:SZ:68:ILE:HA	1.61	0.65
78:Sb:36:LYS:HD2	78:Sb:43:ILE:HG22	1.79	0.65
1:L5:289:C:H2'	1:L5:290:U:H5'	1.78	0.65
1:L5:1601:A:H61	1:L5:4555:U:H3	1.43	0.65
1:L5:4291:G:OP2	43:Lo:10:THR:HG22	1.95	0.65
1:L5:4697:U:H4'	41:Lm:104:HIS:NE2	2.12	0.65
5:LB:46:PHE:CE2	5:LB:81:THR:HG23	2.29	0.65
6:LC:60:HIS:HD1	6:LC:92:PHE:HE1	1.43	0.65
6:LC:205:ARG:HB3	6:LC:248:ARG:HH12	1.60	0.65
11:LH:86:LEU:CD2	11:LH:188:GLN:HE21	2.09	0.65
11:LH:176:LEU:HD12	11:LH:176:LEU:O	1.96	0.65
13:LJ:113:ILE:HG23	13:LJ:125:ILE:HG22	1.77	0.65
15:LM:70:GLN:CA	15:LM:73:VAL:HG12	2.24	0.65
17:LO:186:GLU:HA	17:LO:189:ILE:CG2	2.26	0.65
18:LP:119:VAL:HG12	18:LP:146:ILE:CD1	2.26	0.65
20:LR:53:LYS:CG	20:LR:54:PRO:HD2	2.25	0.65
24:LV:82:ILE:HG22	24:LV:125:CYS:SG	2.36	0.65
32:Ld:28:ASN:HD22	32:Ld:31:LYS:HE3	1.61	0.65
34:Lf:16:ARG:HB3	34:Lf:21:GLN:HG3	1.78	0.65
47:S2:322:C:N4	47:S2:329:G:O6	2.29	0.65
47:S2:1515:G:C2'	47:S2:1516:G:H5'	2.23	0.65
47:S2:1588:A:C2	47:S2:1654:G:H1'	2.31	0.65
48:SA:148:CYS:SG	48:SA:160:ALA:HB1	2.36	0.65
48:SA:198:MET:HG3	48:SA:199:PRO:HD2	1.78	0.65
52:SF:96:ALA:HA	52:SF:99:ILE:CG2	2.25	0.65
53:SH:127:ASP:OD1	53:SH:128:ALA:N	2.29	0.65
68:Sg:294:ASP:OD2	68:Sg:297:THR:OG1	2.14	0.65
72:SM:58:GLU:HB2	72:SM:61:TYR:CE1	2.31	0.65
73:SN:38:TYR:OH	73:SN:77:SER:OG	2.09	0.65
1:L5:96:U:H2'	1:L5:97:G:H5'	1.75	0.65
1:L5:1351:G:OP1	6:LC:33:ARG:NH1	2.27	0.65
1:L5:1837:A:H2'	1:L5:1838:A:C8	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1904:G:O2'	1:L5:1905:U:H5'	1.96	0.65
1:L5:2392:C:O2'	1:L5:2393:C:H5'	1.96	0.65
1:L5:2541:G:O2'	1:L5:2542:G:H5'	1.96	0.65
1:L5:2786:C:H5"	1:L5:2787:A:C5'	2.26	0.65
1:L5:3748:A:H5"	4:LA:243:THR:OG1	1.95	0.65
1:L5:4323:A:H2	7:LD:146:LEU:HD22	1.60	0.65
1:L5:4893:A:C6	1:L5:4894:A:H1'	2.30	0.65
2:L7:82:G:H2'	2:L7:83:A:H8	1.61	0.65
3:L8:121:G:H2'	3:L8:122:G:C8	2.31	0.65
8:LE:287:VAL:CG1	15:LM:105:THR:HA	2.26	0.65
21:LS:79:GLY:HA3	21:LS:132:ILE:CD1	2.26	0.65
25:LW:83:THR:N	70:SG:131:ARG:HE	1.95	0.65
25:LW:86:SER:HB2	25:LW:89:ASP:HB2	1.78	0.65
26:LX:60:TYR:CD2	36:Lh:78:TYR:HB3	2.31	0.65
28:LZ:106:LEU:HA	28:LZ:109:LYS:HB3	1.76	0.65
31:Lc:80:GLU:O	31:Lc:83:THR:HG22	1.97	0.65
36:Lh:34:ALA:O	36:Lh:39:GLY:N	2.30	0.65
42:Ln:1:MET:HE1	42:Ln:9:ARG:NH1	2.12	0.65
43:Lo:8:ARG:HG2	43:Lo:10:THR:HG23	1.77	0.65
46:Lz:25:ARG:NH2	46:Lz:212:LYS:HB3	2.10	0.65
47:S2:171:A:C6	47:S2:173:A:H1'	2.31	0.65
47:S2:634:A:OP1	79:Se:13:ARG:NH1	2.29	0.65
47:S2:1590:C:H5"	61:ST:82:ARG:NE	2.12	0.65
47:S2:1776:G:C2'	47:S2:1777:G:H5'	2.26	0.65
48:SA:80:ARG:O	48:SA:84:GLN:HG3	1.95	0.65
50:SD:198:ILE:CG1	50:SD:200:PRO:HD2	2.25	0.65
56:SL:9:ALA:O	56:SL:11:GLN:NE2	2.29	0.65
57:SP:64:LYS:HG3	57:SP:73:PRO:HB3	1.78	0.65
60:SS:44:VAL:HG13	60:SS:70:ILE:HG13	1.77	0.65
63:SV:68:SER:O	63:SV:72:LEU:HG	1.96	0.65
68:Sg:12:LYS:O	68:Sg:14:HIS:N	2.28	0.65
68:Sg:88:ARG:HD2	68:Sg:100:ARG:CB	2.25	0.65
68:Sg:296:GLN:O	68:Sg:311:GLN:HA	1.96	0.65
74:SO:13:GLN:HB3	74:SO:14:VAL:CG2	2.26	0.65
75:SW:95:PRO:HD3	75:SW:130:PHE:CG	2.31	0.65
1:L5:107:G:O2'	1:L5:108:A:H5"	1.96	0.65
1:L5:470:A:H2	1:L5:687:U:H1'	1.62	0.65
1:L5:752:G:O6	1:L5:911:U:N3	2.16	0.65
1:L5:982:U:H4'	1:L5:982:U:OP1	1.94	0.65
1:L5:1381:U:H2'	1:L5:1382:G:H5'	1.79	0.65
1:L5:1402:C:H1'	1:L5:1416:G:N2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1409:C:H5'	1:L5:1411:C:O2	1.96	0.65
1:L5:1495:G:C2'	1:L5:1496:G:H5'	2.25	0.65
1:L5:1762:C:O2	1:L5:1763:C:N4	2.24	0.65
1:L5:2264:C:H2'	1:L5:2265:G:N7	2.11	0.65
1:L5:2382:A:H2'	1:L5:2382:A:N3	2.11	0.65
1:L5:3590:G:N3	1:L5:3590:G:H2'	2.11	0.65
1:L5:3761:C:H42	47:S2:1710:C:H4'	1.61	0.65
1:L5:4091:G:H1	1:L5:4158:C:H42	1.43	0.65
1:L5:4689:U:H5"	11:LH:151:ILE:HD11	1.79	0.65
1:L5:4731:G:H1'	1:L5:4732:G:OP2	1.96	0.65
6:LC:171:LEU:HD12	6:LC:177:TRP:HB2	1.78	0.65
7:LD:157:ASN:OD1	7:LD:159:VAL:HG12	1.96	0.65
8:LE:155:GLY:O	8:LE:158:ARG:HG3	1.95	0.65
16:LN:98:LEU:HD23	16:LN:128:LYS:HD3	1.77	0.65
23:LU:25:CYS:HB2	23:LU:28:PRO:HG2	1.78	0.65
25:LW:52:THR:O	25:LW:56:ARG:HG2	1.96	0.65
47:S2:878:G:H1'	47:S2:909:G:C6	2.31	0.65
47:S2:1096:G:OP1	75:SW:20:ARG:NH2	2.25	0.65
47:S2:1490:G:H1'	62:SU:72:GLU:OE2	1.96	0.65
50:SD:175:VAL:HG22	50:SD:182:LEU:H	1.61	0.65
51:SE:137:PRO:CG	51:SE:150:PRO:HD2	2.25	0.65
54:SI:80:ASP:OD1	54:SI:81:VAL:N	2.29	0.65
57:SP:38:SER:OG	57:SP:42:ARG:HB3	1.96	0.65
60:SS:39:ARG:HD2	61:ST:38:LYS:CE	2.23	0.65
75:SW:92:ASN:O	75:SW:93:LEU:HD12	1.96	0.65
1:L5:202:C:H2'	1:L5:203:U:C6	2.28	0.65
1:L5:1779:U:H2'	1:L5:1780:A:C8	2.31	0.65
1:L5:1943:A:H2'	1:L5:1944:A:H5'	1.78	0.65
1:L5:2091:C:H5'	1:L5:2259:G:C6	2.30	0.65
1:L5:4193:C:H5	1:L5:4194:U:C4	2.14	0.65
1:L5:4396:A:O2'	1:L5:4397:A:H5'	1.96	0.65
1:L5:4433:G:H5"	12:LI:7:ARG:NH2	2.12	0.65
1:L5:4732:G:N7	1:L5:4733:C:N4	2.44	0.65
4:LA:112:ILE:HG22	4:LA:135:THR:CG2	2.26	0.65
12:LI:85:PHE:HA	12:LI:140:THR:CG2	2.25	0.65
24:LV:106:VAL:HG13	24:LV:111:GLU:O	1.95	0.65
25:LW:93:LYS:HD2	70:SG:146:ASN:HB2	1.79	0.65
27:LY:101:PRO:O	27:LY:104:VAL:HG22	1.97	0.65
28:LZ:57:MET:CB	28:LZ:61:LYS:HD3	2.27	0.65
33:Le:37:LYS:HE2	33:Le:55:MET:HE1	1.78	0.65
45:Lr:45:HIS:HB2	45:Lr:48:THR:OG1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:136:SER:H	46:Lz:139:THR:HG22	1.62	0.65
47:S2:601:G:O6	47:S2:621:C:N4	2.28	0.65
47:S2:1319:U:H2'	47:S2:1320:G:C8	2.32	0.65
47:S2:1568:C:O2'	47:S2:1569:A:O4'	2.14	0.65
51:SE:42:LEU:O	51:SE:84:ALA:N	2.30	0.65
51:SE:112:HIS:NE2	51:SE:237:SER:O	2.28	0.65
52:SF:22:LYS:HD2	52:SF:23:TRP:HA	1.79	0.65
52:SF:92:ILE:CG2	52:SF:170:ALA:HA	2.24	0.65
58:SQ:16:LYS:HG2	58:SQ:82:TYR:HD2	1.59	0.65
58:SQ:103:ALA:O	58:SQ:106:LYS:HG2	1.97	0.65
61:ST:28:LEU:HD21	61:ST:53:PHE:CE1	2.31	0.65
68:Sg:16:GLY:HA3	68:Sg:35:SER:CB	2.27	0.65
68:Sg:29:ASP:CA	68:Sg:45:LEU:HD23	2.25	0.65
68:Sg:72:SER:HB2	68:Sg:77:PHE:CB	2.22	0.65
68:Sg:120:ILE:O	68:Sg:132:TRP:HB2	1.95	0.65
71:SJ:137:VAL:O	71:SJ:139:LYS:N	2.30	0.65
1:L5:193:G:H2'	1:L5:194:C:C6	2.31	0.65
1:L5:330:G:O2'	1:L5:331:G:H5'	1.97	0.65
1:L5:499:G:H2'	1:L5:500:G:C4'	2.06	0.65
1:L5:669:C:H2'	1:L5:670:G:C8	2.31	0.65
1:L5:991:C:H3'	1:L5:992:C:H5'	1.78	0.65
1:L5:1236:C:H2'	1:L5:1238:A:N7	2.12	0.65
1:L5:1278:C:H3'	1:L5:1279:A:H4'	1.79	0.65
1:L5:1389:U:O2'	1:L5:1390:G:H5'	1.96	0.65
1:L5:2626:U:C5	23:LU:92:LYS:HG2	2.31	0.65
1:L5:2656:U:H5"	28:LZ:38:TYR:CB	2.26	0.65
1:L5:2853:C:H2'	1:L5:2854:G:H5'	1.77	0.65
1:L5:3802:U:H3	1:L5:4503:A:H2	1.44	0.65
2:L7:12:U:OP2	2:L7:67:C:O2'	2.13	0.65
8:LE:112:MET:HE2	45:Lr:94:ARG:NH2	2.11	0.65
10:LG:144:THR:HG21	16:LN:3:ALA:HB2	1.79	0.65
11:LH:27:VAL:CG1	11:LH:84:VAL:HG21	2.26	0.65
18:LP:31:GLU:OE2	18:LP:63:TYR:N	2.20	0.65
21:LS:147:ASP:HB3	21:LS:150:ILE:CD1	2.27	0.65
23:LU:41:GLN:O	23:LU:44:GLN:HB3	1.96	0.65
27:LY:118:ILE:HG13	27:LY:122:LYS:HE3	1.78	0.65
28:LZ:90:PRO:O	28:LZ:117:LYS:HE2	1.95	0.65
47:S2:71:G:H5"	47:S2:72:C:H5	1.61	0.65
47:S2:94:G:O2'	47:S2:508:A:O2'	2.14	0.65
47:S2:170:A:O2'	47:S2:171:A:H5'	1.95	0.65
47:S2:191:A:H2'	47:S2:192:C:H6	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:335:G:H2'	47:S2:336:A:H5'	1.78	0.65
47:S2:1380:C:H2'	47:S2:1381:G:O4'	1.96	0.65
47:S2:1450:G:H2'	47:S2:1451:G:C8	2.31	0.65
47:S2:1845:A:H2'	47:S2:1846:G:H8	1.61	0.65
51:SE:71:LYS:CB	51:SE:76:VAL:HA	2.27	0.65
51:SE:159:THR:HG21	51:SE:227:VAL:N	2.12	0.65
53:SH:20:GLU:HA	53:SH:23:ILE:CG1	2.27	0.65
58:SQ:109:LYS:HA	58:SQ:112:LEU:HB2	1.78	0.65
62:SU:35:VAL:O	62:SU:38:ASP:HB3	1.97	0.65
66:Sc:11:LEU:HD13	66:Sc:55:VAL:CG1	2.27	0.65
69:SC:60:TRP:CD2	69:SC:92:GLU:HG3	2.32	0.65
69:SC:182:CYS:CB	75:SW:96:SER:HB3	2.27	0.65
71:SJ:104:ASP:O	71:SJ:107:GLU:HB3	1.97	0.65
1:L5:112:C:H5'	1:L5:156:G:N1	2.12	0.65
1:L5:202:C:O2'	1:L5:203:U:H5'	1.97	0.65
1:L5:353:A:H4'	1:L5:355:A:N7	2.12	0.65
1:L5:1208:G:C6	1:L5:1209:U:H5	2.14	0.65
1:L5:1333:A:O2'	3:L8:17:A:O2'	2.15	0.65
1:L5:1448:G:C2'	1:L5:1449:C:H5'	2.26	0.65
1:L5:1679:A:O2'	1:L5:1680:G:H5'	1.97	0.65
1:L5:2562:G:H1'	1:L5:2565:A:N7	2.12	0.65
1:L5:2613:C:N4	1:L5:2726:G:O6	2.29	0.65
1:L5:2643:G:H2'	1:L5:2644:G:H8	1.60	0.65
1:L5:2751:G:H2'	1:L5:2752:G:H8	1.61	0.65
1:L5:2753:G:H5'	28:LZ:135:ARG:HH12	1.62	0.65
1:L5:2809:G:O2'	1:L5:4644:G:OP1	2.14	0.65
1:L5:3811:G:H4'	1:L5:3812:C:OP2	1.97	0.65
8:LE:277:LEU:CD1	8:LE:281:ILE:HD11	2.27	0.65
9:LF:220:MET:O	9:LF:222:LYS:N	2.28	0.65
14:LL:188:ASN:OD1	14:LL:195:ARG:NH2	2.29	0.65
16:LN:6:TYR:CE1	37:Li:40:VAL:HG22	2.31	0.65
24:LV:90:ARG:HB2	24:LV:94:VAL:CG2	2.26	0.65
25:LW:70:LYS:O	47:S2:1783:C:N4	2.27	0.65
34:Lf:46:ARG:HD2	34:Lf:106:TYR:HD2	1.61	0.65
44:Lp:46:LYS:O	44:Lp:57:CYS:HA	1.96	0.65
47:S2:152:U:C1'	47:S2:167:G:H22	2.09	0.65
47:S2:690:G:H2'	47:S2:691:G:H5"	1.78	0.65
47:S2:746:C:OP1	47:S2:796:G:N1	2.30	0.65
47:S2:1285:G:H3'	47:S2:1286:G:H5'	1.78	0.65
47:S2:1522:A:H4'	60:SS:143:GLY:N	2.11	0.65
47:S2:1622:U:O4	60:SS:152:LYS:HD3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1624:U:H2'	47:S2:1625:U:O4'	1.97	0.65
47:S2:1681:U:O2	47:S2:1683:C:N4	2.29	0.65
47:S2:1719:A:H5'	47:S2:1720:U:OP2	1.97	0.65
47:S2:1736:G:O6	47:S2:1799:G:N2	2.30	0.65
51:SE:72:ILE:HD12	51:SE:90:ILE:HG12	1.78	0.65
53:SH:50:GLU:HG2	53:SH:60:ILE:HG13	1.79	0.65
56:SL:77:VAL:HG13	56:SL:80:MET:CE	2.26	0.65
62:SU:23:THR:HB	62:SU:113:GLU:CB	2.26	0.65
62:SU:48:LEU:HB3	62:SU:49:LYS:HA	1.78	0.65
68:Sg:38:LYS:HA	68:Sg:66:VAL:HG23	1.78	0.65
68:Sg:248:LEU:HD21	68:Sg:257:LYS:CD	2.26	0.65
69:SC:123:ARG:HG2	69:SC:143:CYS:SG	2.37	0.65
71:SJ:38:ARG:HB2	71:SJ:127:ARG:NH1	2.11	0.65
71:SJ:171:GLY:HA2	71:SJ:175:ARG:HG3	1.79	0.65
72:SM:111:VAL:HG12	72:SM:111:VAL:O	1.96	0.65
76:SY:27:VAL:HB	76:SY:69:THR:CG2	2.26	0.65
1:L5:669:C:H2'	1:L5:670:G:H8	1.62	0.65
1:L5:1204:C:H3'	1:L5:1204:C:OP2	1.97	0.65
1:L5:1442:C:H2'	1:L5:1443:A:N7	2.11	0.65
1:L5:2565:A:H5'	1:L5:2566:G:OP2	1.97	0.65
1:L5:2793:G:H21	38:Lj:5:THR:HG21	1.60	0.65
1:L5:3894:A:H4'	1:L5:4979:A:C2	2.32	0.65
1:L5:4988:U:OP2	1:L5:5061:A:N6	2.22	0.65
3:L8:149:G:OP1	26:LX:41:ARG:NH2	2.29	0.65
9:LF:179:LEU:CD2	9:LF:184:ILE:HG21	2.26	0.65
12:LI:107:GLY:HA2	12:LI:113:THR:OG1	1.96	0.65
18:LP:96:LYS:O	18:LP:99:GLU:N	2.29	0.65
27:LY:67:ILE:HG21	27:LY:107:THR:HG21	1.79	0.65
33:Le:22:ARG:HD3	33:Le:31:ILE:HG22	1.77	0.65
37:Li:42:ASP:OD1	37:Li:43:MET:N	2.29	0.65
45:Lr:32:LEU:HD23	45:Lr:110:ALA:HA	1.79	0.65
45:Lr:41:ASN:CG	45:Lr:44:ILE:HD13	2.22	0.65
47:S2:557:U:H2'	47:S2:558:G:C8	2.31	0.65
47:S2:1660:C:O2'	47:S2:1663:A:N7	2.30	0.65
48:SA:46:ILE:HG22	48:SA:47:TYR:O	1.95	0.65
51:SE:136:ILE:HG13	51:SE:138:HIS:CE1	2.32	0.65
56:SL:127:THR:CG2	56:SL:144:LYS:HB3	2.26	0.65
57:SP:103:ASN:OD1	57:SP:104:GLN:N	2.30	0.65
60:SS:24:ARG:HB3	60:SS:29:ALA:HB2	1.78	0.65
61:ST:112:MET:HE3	61:ST:123:LEU:HD13	1.79	0.65
62:SU:66:ARG:HH22	62:SU:75:LYS:HA	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:8:ARG:O	68:Sg:309:VAL:HG22	1.97	0.65
70:SG:220:ALA:HA	70:SG:223:LYS:CB	2.19	0.65
1:L5:65:A:H1'	16:LN:176:LYS:CE	2.27	0.65
1:L5:106:A:H2'	1:L5:107:G:O4'	1.96	0.65
1:L5:643:C:H6	1:L5:643:C:H3'	1.61	0.65
1:L5:1551:C:H41	1:L5:1552:G:H21	1.43	0.65
1:L5:1767:A:C2'	1:L5:1769:G:H4'	2.27	0.65
1:L5:2264:C:H2'	1:L5:2265:G:C8	2.31	0.65
1:L5:2264:C:OP2	45:Lr:40:TYR:OH	2.15	0.65
1:L5:2905:C:O2'	1:L5:2907:G:H5'	1.96	0.65
1:L5:4151:G:H2'	1:L5:4152:G:H8	1.61	0.65
1:L5:4407:G:H1'	1:L5:4438:U:O2	1.97	0.65
1:L5:4742:G:N2	1:L5:4959:U:O4'	2.29	0.65
1:L5:4909:A:H3'	5:LB:156:TYR:CE1	2.31	0.65
1:L5:4974:C:H4'	5:LB:174:ARG:NH1	2.12	0.65
3:L8:80:A:H3'	3:L8:80:A:N3	2.12	0.65
5:LB:261:ARG:HE	17:LO:64:THR:CB	2.09	0.65
8:LE:138:ARG:HD3	8:LE:170:SER:C	2.22	0.65
9:LF:96:ARG:HD2	9:LF:139:TYR:CE1	2.32	0.65
9:LF:192:HIS:O	9:LF:196:THR:HG22	1.96	0.65
13:LJ:13:ARG:HG3	13:LJ:136:ARG:NE	2.12	0.65
20:LR:15:LEU:HD23	20:LR:52:ARG:CB	2.27	0.65
25:LW:82:ILE:O	25:LW:83:THR:OG1	2.14	0.65
27:LY:51:LYS:CE	27:LY:72:GLN:HA	2.24	0.65
47:S2:440:G:OP1	54:SI:24:LYS:NZ	2.23	0.65
47:S2:525:A:O5'	79:Se:28:LYS:NZ	2.25	0.65
47:S2:571:U:OP1	76:SY:37:LYS:NZ	2.28	0.65
47:S2:672:A:C2	47:S2:1162:C:H1'	2.32	0.65
47:S2:809:A:H2'	47:S2:810:A:O4'	1.97	0.65
47:S2:1317:C:C5'	47:S2:1318:G:H5"	2.27	0.65
47:S2:1402:A:H5'	62:SU:51:LYS:NZ	2.12	0.65
47:S2:1810:U:H2'	47:S2:1811:C:C6	2.32	0.65
48:SA:77:ILE:HD13	48:SA:133:PRO:HG3	1.78	0.65
50:SD:36:GLY:O	50:SD:51:LEU:HB2	1.97	0.65
50:SD:50:ILE:HG22	50:SD:52:ALA:H	1.62	0.65
51:SE:52:LEU:HB3	51:SE:54:TYR:CE2	2.32	0.65
52:SF:48:TYR:HD2	58:SQ:53:GLU:HG2	1.61	0.65
58:SQ:57:LEU:CD2	58:SQ:58:LEU:HG	2.27	0.65
60:SS:7:GLU:O	77:SZ:49:LEU:HD22	1.97	0.65
69:SC:199:PRO:HG2	71:SJ:58:ARG:HH21	1.62	0.65
72:SM:49:LEU:HD11	72:SM:128:PHE:CD1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:133:C:N4	36:Lh:74:LYS:HD2	2.12	0.65
1:L5:450:G:H21	1:L5:452:A:C4'	2.10	0.65
1:L5:977:C:O2'	8:LE:45:SER:HA	1.97	0.65
1:L5:1937:C:H3'	1:L5:1938:C:H5"	1.79	0.65
1:L5:2760:G:H4'	1:L5:2761:U:H5'	1.79	0.65
2:L7:24:C:H5'	2:L7:25:G:OP2	1.97	0.65
2:L7:32:A:N6	2:L7:41:G:H1'	2.11	0.65
3:L8:122:G:H3'	3:L8:123:U:O4'	1.97	0.65
8:LE:96:VAL:HG21	8:LE:105:ARG:HH11	1.62	0.65
9:LF:127:LYS:HA	9:LF:130:ILE:HG12	1.80	0.65
10:LG:143:VAL:HA	10:LG:146:LEU:HD12	1.79	0.65
13:LJ:22:LEU:HD13	13:LJ:40:LEU:CD2	2.16	0.65
22:LT:126:VAL:HG22	22:LT:127:GLN:N	2.06	0.65
25:LW:101:ARG:CG	25:LW:105:ARG:HH11	2.10	0.65
33:Le:114:ARG:HH11	33:Le:117:GLN:HE21	1.45	0.65
37:Li:53:TYR:CE1	37:Li:54:GLU:HG3	2.32	0.65
39:Lk:7:GLU:N	39:Lk:7:GLU:OE1	2.30	0.65
47:S2:337:C:H2'	47:S2:338:G:C4'	2.26	0.65
47:S2:464:A:H5'	47:S2:465:A:C8	2.32	0.65
47:S2:683:G:O2'	75:SW:4:MET:SD	2.49	0.65
47:S2:1009:A:OP1	73:SN:94:LYS:NZ	2.30	0.65
47:S2:1058:A:H5"	47:S2:1059:G:OP2	1.97	0.65
47:S2:1094:C:H2'	47:S2:1095:U:C6	2.31	0.65
47:S2:1145:A:C8	47:S2:1146:C:H1'	2.32	0.65
47:S2:1561:A:H2'	47:S2:1562:C:C5'	2.19	0.65
50:SD:65:ARG:O	50:SD:68:GLU:HB3	1.96	0.65
59:SR:100:PRO:O	59:SR:103:LYS:HB3	1.97	0.65
68:Sg:173:LEU:HD23	68:Sg:189:ILE:HA	1.79	0.65
69:SC:170:TRP:CH2	69:SC:199:PRO:HG3	2.32	0.65
1:L5:112:C:C2'	1:L5:113:A:H5'	2.25	0.64
1:L5:1286:C:H2'	1:L5:1287:G:H8	1.60	0.64
1:L5:1986:U:H3	1:L5:2007:G:H21	1.44	0.64
1:L5:4201:G:H2'	1:L5:4201:G:N3	2.12	0.64
1:L5:4473:A:H4'	41:Lm:122:ARG:HH22	1.60	0.64
1:L5:4539:U:C2'	1:L5:4540:C:H5'	2.28	0.64
1:L5:4577:U:O2'	1:L5:4578:G:H5'	1.97	0.64
1:L5:4891:G:H1	1:L5:4928:C:H42	1.45	0.64
12:LI:91:LEU:HD21	12:LI:127:ALA:HB3	1.79	0.64
13:LJ:51:SER:CB	13:LJ:69:ALA:HB3	2.24	0.64
28:LZ:3:LYS:HE2	31:Lc:40:GLN:HG2	1.79	0.64
32:Ld:26:THR:HB	32:Ld:85:ARG:HH11	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:310:C:O2'	47:S2:311:C:H5'	1.97	0.64
47:S2:1113:A:H5'	47:S2:1114:U:OP2	1.97	0.64
47:S2:1634:A:H2'	47:S2:1635:C:O4'	1.98	0.64
52:SF:170:ALA:O	52:SF:173:LEU:HG	1.97	0.64
54:SI:177:SER:HB2	54:SI:182:CYS:SG	2.36	0.64
58:SQ:57:LEU:HD11	58:SQ:112:LEU:HD13	1.78	0.64
61:ST:72:VAL:HB	61:ST:104:LEU:HD11	1.79	0.64
68:Sg:20:GLN:HB2	68:Sg:67:SER:O	1.97	0.64
69:SC:183:LYS:HD3	69:SC:194:ARG:HH21	1.61	0.64
70:SG:23:LYS:HB3	70:SG:41:LEU:HA	1.77	0.64
71:SJ:63:LEU:HD21	71:SJ:67:ASP:CB	2.27	0.64
74:SO:34:PHE:CD1	74:SO:98:ARG:HD3	2.32	0.64
1:L5:123:C:H2'	1:L5:124:C:C6	2.33	0.64
1:L5:213:G:H2'	1:L5:214:G:C8	2.31	0.64
1:L5:253:G:H2'	1:L5:254:G:H5'	1.79	0.64
1:L5:708:G:H1	1:L5:1289:C:H42	1.46	0.64
1:L5:1205:G:H2'	1:L5:1206:C:O4'	1.97	0.64
1:L5:1692:C:H5'	19:LQ:53:MET:HE2	1.80	0.64
1:L5:1801:A:H2'	1:L5:1802:A:H8	1.62	0.64
1:L5:1912:G:H5"	1:L5:1913:C:OP2	1.96	0.64
1:L5:2255:C:C3'	1:L5:2256:C:H4'	2.27	0.64
1:L5:2761:U:H5'	1:L5:2762:G:C2	2.32	0.64
1:L5:4203:A:N6	1:L5:4221:C:O2	2.30	0.64
1:L5:4244:A:C2	1:L5:4245:G:H1'	2.32	0.64
1:L5:4329:G:H3'	1:L5:4329:G:N3	2.12	0.64
1:L5:4345:C:O2	1:L5:4368:G:N2	2.31	0.64
1:L5:4356:G:O2'	1:L5:4357:G:H5'	1.97	0.64
2:L7:89:G:H2'	2:L7:90:A:C8	2.32	0.64
4:LA:84:THR:HG21	44:Lp:63:THR:HG22	1.78	0.64
6:LC:264:TYR:C	6:LC:271:ALA:HB2	2.22	0.64
10:LG:98:LEU:HD12	10:LG:101:LYS:HB3	1.77	0.64
12:LI:182:GLU:O	12:LI:186:ALA:N	2.30	0.64
14:LL:57:PRO:O	14:LL:73:GLY:N	2.30	0.64
19:LQ:97:LYS:HG2	19:LQ:116:ALA:O	1.97	0.64
21:LS:82:LEU:O	21:LS:82:LEU:HD12	1.97	0.64
24:LV:28:CYS:SG	24:LV:34:ALA:HB3	2.37	0.64
24:LV:90:ARG:HH22	24:LV:96:LEU:CD1	2.10	0.64
47:S2:1189:A:H2'	47:S2:1190:A:H8	1.63	0.64
47:S2:1411:G:C2'	47:S2:1412:C:H4'	2.28	0.64
47:S2:1467:C:H2'	47:S2:1468:C:O4'	1.96	0.64
47:S2:1605:G:O2'	47:S2:1633:A:N6	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:SB:167:LYS:O	49:SB:171:ILE:HD12	1.97	0.64
54:SI:123:ARG:NH1	54:SI:125:LYS:HA	2.11	0.64
55:SK:19:GLY:CA	55:SK:71:LEU:HD13	2.24	0.64
56:SL:49:GLU:OE1	56:SL:116:CYS:HA	1.97	0.64
58:SQ:31:LEU:HD21	58:SQ:33:LYS:CG	2.28	0.64
60:SS:46:ARG:NH1	60:SS:49:ASP:OD1	2.30	0.64
60:SS:86:ARG:HG2	60:SS:89:ASP:HA	1.79	0.64
62:SU:56:MET:SD	62:SU:86:LYS:HD2	2.36	0.64
62:SU:66:ARG:HH22	62:SU:75:LYS:CG	2.11	0.64
68:Sg:106:LYS:HD3	68:Sg:127:LYS:HZ3	1.62	0.64
68:Sg:290:ALA:HB3	68:Sg:299:PHE:HD2	1.62	0.64
70:SG:41:LEU:HD11	70:SG:45:TRP:CD2	2.32	0.64
71:SJ:169:ARG:NH1	71:SJ:175:ARG:HH21	1.95	0.64
1:L5:1398:A:OP2	29:La:114:LYS:HG3	1.97	0.64
1:L5:1538:U:C4'	1:L5:1629:G:H5'	2.27	0.64
1:L5:1823:G:H2'	1:L5:1825:A:C8	2.33	0.64
1:L5:2679:G:C2'	1:L5:2680:G:H5'	2.27	0.64
1:L5:4054:C:H2'	46:Lz:164:CYS:SG	2.36	0.64
1:L5:4757:C:H5'	1:L5:4758:U:OP2	1.96	0.64
1:L5:5025:C:C5	1:L5:5026:U:H1'	2.32	0.64
4:LA:196:TRP:O	4:LA:198:ARG:N	2.28	0.64
6:LC:60:HIS:HE1	6:LC:100:ARG:HH11	1.44	0.64
6:LC:152:LEU:CD2	6:LC:174:LEU:HD13	2.25	0.64
6:LC:337:ARG:NH1	8:LE:58:SER:HA	2.12	0.64
12:LI:148:VAL:O	12:LI:152:LEU:HD13	1.97	0.64
22:LT:94:GLU:OE1	22:LT:94:GLU:N	2.22	0.64
27:LY:44:VAL:CG2	27:LY:122:LYS:HB2	2.18	0.64
28:LZ:76:ASN:OD1	28:LZ:77:TYR:N	2.31	0.64
45:Lr:82:ILE:CD1	45:Lr:96:MET:HE1	2.25	0.64
47:S2:386:C:O2	54:SI:5:ARG:HD2	1.97	0.64
47:S2:555:A:H3'	47:S2:556:U:H5"	1.78	0.64
47:S2:955:A:N1	47:S2:968:U:O2'	2.20	0.64
47:S2:1851:A:C8	47:S2:1852:C:H1'	2.32	0.64
48:SA:210:ILE:CD1	48:SA:211:GLU:HG2	2.28	0.64
50:SD:73:VAL:HG13	50:SD:77:PHE:CD2	2.33	0.64
57:SP:55:SER:O	57:SP:59:ARG:N	2.30	0.64
60:SS:84:LEU:HD23	60:SS:97:GLN:H	1.62	0.64
61:ST:28:LEU:HG	61:ST:30:VAL:HG13	1.79	0.64
65:Sa:27:ALA:HB2	74:SO:142:ARG:HH12	1.62	0.64
68:Sg:165:ILE:HD11	68:Sg:177:TRP:CB	2.27	0.64
73:SN:16:LEU:HD11	73:SN:65:PHE:CZ	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:203:U:H2'	1:L5:204:U:H5'	1.80	0.64
1:L5:350:C:OP1	1:L5:2294:G:O2'	2.14	0.64
1:L5:461:G:H5'	1:L5:462:G:OP2	1.98	0.64
1:L5:509:A:O2'	14:LL:163:LYS:HG2	1.98	0.64
1:L5:1286:C:H2'	1:L5:1287:G:C8	2.32	0.64
1:L5:1470:G:H1'	1:L5:1495:G:H21	1.62	0.64
1:L5:1759:G:N1	1:L5:1774:C:H1'	2.11	0.64
1:L5:2463:G:O2'	1:L5:2464:C:H5'	1.97	0.64
1:L5:2503:G:H1'	1:L5:2505:C:H42	1.63	0.64
1:L5:2674:A:N6	44:Lp:42:CYS:HA	2.13	0.64
1:L5:3773:U:O5'	1:L5:3774:A:H5"	1.96	0.64
1:L5:4612:C:O2'	1:L5:4613:C:H5'	1.98	0.64
1:L5:4746:C:O2	1:L5:4954:G:N2	2.16	0.64
1:L5:4937:C:C1'	8:LE:185:PRO:HG2	2.28	0.64
1:L5:4955:A:N1	1:L5:4956:A:N6	2.44	0.64
1:L5:4986:G:H1'	5:LB:174:ARG:HH21	1.62	0.64
1:L5:5061:A:H4'	1:L5:5062:G:OP1	1.97	0.64
5:LB:229:LYS:HG3	5:LB:272:LYS:HD3	1.79	0.64
6:LC:291:ARG:O	6:LC:295:SER:OG	2.07	0.64
7:LD:83:LEU:N	7:LD:84:PRO:HD2	2.12	0.64
8:LE:179:LEU:HD12	8:LE:183:ARG:HA	1.79	0.64
9:LF:36:LYS:O	9:LF:40:LYS:HG2	1.97	0.64
9:LF:216:PRO:CA	9:LF:247:MET:HG2	2.27	0.64
10:LG:115:LEU:O	10:LG:119:GLU:HG2	1.97	0.64
10:LG:159:HIS:NE2	10:LG:185:LYS:HA	2.11	0.64
13:LJ:38:LYS:HA	13:LJ:41:GLU:HB2	1.79	0.64
20:LR:157:ASP:OD1	20:LR:158:GLN:N	2.30	0.64
25:LW:31:PHE:CE1	25:LW:37:GLU:HA	2.32	0.64
32:Ld:59:THR:HG21	32:Ld:102:LEU:O	1.98	0.64
33:Le:43:ASN:O	33:Le:47:ARG:HD3	1.98	0.64
34:Lf:65:ASN:OD1	34:Lf:66:LYS:N	2.30	0.64
38:Lj:22:CYS:HB2	38:Lj:37:CYS:HB3	1.78	0.64
46:Lz:52:THR:HG21	46:Lz:138:LEU:O	1.98	0.64
46:Lz:126:PRO:CA	46:Lz:130:LYS:HB3	2.26	0.64
47:S2:193:C:C2	47:S2:194:C:H1'	2.32	0.64
47:S2:815:U:C2'	47:S2:816:A:H5'	2.28	0.64
47:S2:1310:U:O2'	80:Sf:142:GLY:O	2.16	0.64
47:S2:1439:A:H2'	47:S2:1440:C:C6	2.33	0.64
47:S2:1551:U:O3'	47:S2:1552:G:H3'	1.96	0.64
47:S2:1571:G:H2'	47:S2:1572:C:C6	2.33	0.64
47:S2:1594:A:N7	77:SZ:104:ARG:HD3	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:180:ARG:O	48:SA:184:ARG:HG3	1.97	0.64
48:SA:207:PRO:HA	48:SA:210:ILE:CG1	2.25	0.64
50:SD:107:TYR:HA	50:SD:110:LEU:CD1	2.27	0.64
50:SD:213:PRO:HD3	59:SR:19:LYS:HE3	1.79	0.64
50:SD:217:ILE:HG22	50:SD:218:LEU:HD13	1.80	0.64
52:SF:144:LEU:HG	52:SF:148:ASN:ND2	2.12	0.64
52:SF:194:ASP:OD1	52:SF:195:GLU:N	2.30	0.64
54:SI:165:GLN:CD	54:SI:171:LEU:HA	2.23	0.64
57:SP:58:LYS:HE3	57:SP:61:ARG:NH1	2.12	0.64
64:SX:105:PHE:HD2	64:SX:112:VAL:HB	1.61	0.64
66:Sc:32:VAL:HG22	66:Sc:42:ILE:O	1.97	0.64
68:Sg:8:ARG:HH12	68:Sg:311:GLN:HB2	1.61	0.64
70:SG:128:THR:HB	70:SG:130:PRO:HD3	1.78	0.64
71:SJ:37:LEU:CD2	71:SJ:43:VAL:HG22	2.27	0.64
76:SY:111:LYS:O	76:SY:115:LYS:N	2.25	0.64
1:L5:948:C:O2'	1:L5:949:G:H5'	1.97	0.64
1:L5:1266:G:O2'	1:L5:2111:G:H4'	1.97	0.64
1:L5:1397:A:C8	29:La:114:LYS:HD2	2.32	0.64
1:L5:3609:G:O2'	1:L5:3610:A:H5'	1.96	0.64
1:L5:3698:G:H1'	1:L5:3778:U:O2	1.98	0.64
1:L5:4731:G:H5'	1:L5:4732:G:N1	2.13	0.64
1:L5:4763:U:C2'	11:LH:23:ARG:HH11	2.11	0.64
3:L8:30:U:H2'	3:L8:31:G:C8	2.32	0.64
3:L8:111:U:H2'	3:L8:111:U:O2	1.96	0.64
3:L8:140:C:H2'	3:L8:141:C:C6	2.32	0.64
8:LE:206:VAL:HA	8:LE:256:GLN:HE21	1.60	0.64
9:LF:105:VAL:HG11	9:LF:139:TYR:CE2	2.33	0.64
17:LO:37:ARG:HD2	17:LO:108:ILE:HD11	1.80	0.64
18:LP:94:MET:HE1	18:LP:147:GLU:HA	1.79	0.64
22:LT:118:GLU:HB2	22:LT:122:LYS:HD2	1.79	0.64
27:LY:47:MET:HE2	27:LY:119:LEU:HD11	1.80	0.64
47:S2:114:G:O2'	47:S2:382:C:O2'	2.05	0.64
47:S2:413:G:OP1	47:S2:813:A:N6	2.30	0.64
47:S2:1519:U:H3'	47:S2:1520:G:C8	2.32	0.64
47:S2:1784:G:C2'	47:S2:1785:C:H5'	2.27	0.64
48:SA:203:PHE:CB	48:SA:205:ARG:HH12	2.10	0.64
49:SB:30:TRP:HA	49:SB:47:THR:O	1.97	0.64
50:SD:73:VAL:HA	50:SD:77:PHE:HD2	1.61	0.64
52:SF:126:THR:O	52:SF:137:GLN:N	2.29	0.64
53:SH:122:LEU:HD13	53:SH:126:HIS:ND1	2.12	0.64
57:SP:36:LEU:HG	57:SP:37:TYR:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:17:TRP:CZ3	68:Sg:19:THR:HG22	2.33	0.64
68:Sg:21:ILE:HA	68:Sg:32:LEU:CD1	2.22	0.64
71:SJ:120:ALA:HB3	71:SJ:126:ALA:HA	1.77	0.64
76:SY:129:LYS:HA	76:SY:132:LYS:CG	2.28	0.64
78:Sb:50:ALA:HB3	78:Sb:71:ALA:CB	2.28	0.64
1:L5:43:U:OP1	16:LN:85:VAL:HG23	1.98	0.64
1:L5:280:G:H5"	16:LN:14:LYS:NZ	2.13	0.64
1:L5:283:G:H2'	1:L5:284:G:H8	1.61	0.64
1:L5:1253:G:N1	1:L5:1256:G:OP1	2.31	0.64
1:L5:1497:A:O2'	19:LQ:164:LYS:NZ	2.31	0.64
1:L5:1839:U:C3'	1:L5:1840:G:H21	2.05	0.64
1:L5:1990:A:C2'	1:L5:1991:A:H5'	2.28	0.64
1:L5:2060:G:C2	21:LS:115:ALA:HB2	2.33	0.64
1:L5:2396:A:H4'	1:L5:2397:G:OP2	1.97	0.64
1:L5:2888:G:O2'	1:L5:2889:G:H5'	1.98	0.64
1:L5:4324:A:H2'	1:L5:4325:A:C8	2.32	0.64
1:L5:4626:A:C5	1:L5:4668:U:H5	2.16	0.64
3:L8:2:G:OP2	3:L8:2:G:N2	2.24	0.64
6:LC:8:ILE:HG13	6:LC:22:VAL:O	1.97	0.64
6:LC:141:GLY:C	6:LC:204:ARG:HH12	2.05	0.64
6:LC:361:LEU:CD1	6:LC:364:LYS:HD2	2.28	0.64
14:LL:56:ARG:HB3	14:LL:73:GLY:O	1.97	0.64
21:LS:80:ILE:HG21	21:LS:126:ILE:HG12	1.80	0.64
24:LV:84:GLN:NE2	24:LV:86:LYS:O	2.30	0.64
36:Lh:64:THR:HA	36:Lh:67:GLU:HB3	1.78	0.64
41:Lm:97:ARG:HD2	41:Lm:120:ASN:HB3	1.79	0.64
46:Lz:206:ILE:HG21	46:Lz:212:LYS:C	2.22	0.64
47:S2:94:G:HO2'	47:S2:95:G:H5'	1.61	0.64
47:S2:292:A:O2'	47:S2:293:C:OP2	2.15	0.64
47:S2:1016:U:H2'	47:S2:1016:U:O2	1.96	0.64
47:S2:1055:A:H2'	47:S2:1056:U:C6	2.33	0.64
48:SA:16:LEU:HD23	59:SR:93:GLN:HB3	1.79	0.64
56:SL:68:ILE:CD1	56:SL:143:LEU:HD11	2.28	0.64
57:SP:81:ARG:HD3	57:SP:96:VAL:HG13	1.78	0.64
61:ST:103:VAL:HG13	61:ST:107:LEU:CD1	2.28	0.64
68:Sg:119:GLN:HE21	68:Sg:131:LEU:HA	1.62	0.64
68:Sg:256:ILE:HD12	68:Sg:270:LEU:HD22	1.77	0.64
68:Sg:270:LEU:HD23	68:Sg:271:LYS:N	2.12	0.64
69:SC:68:ARG:HG2	69:SC:273:LEU:HD11	1.79	0.64
69:SC:203:GLY:N	69:SC:221:ASP:OD1	2.24	0.64
1:L5:665:C:H2'	1:L5:667:A:H62	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2028:C:O2'	1:L5:2029:A:H5'	1.97	0.64
1:L5:2765:A:H2'	1:L5:2766:A:H5'	1.79	0.64
1:L5:3766:A:H5"	47:S2:1849:G:O6	1.97	0.64
1:L5:4060:U:O2'	1:L5:4061:G:O5'	2.14	0.64
1:L5:4325:A:C2	7:LD:36:LEU:HB3	2.32	0.64
1:L5:4693:C:O2'	1:L5:4694:G:O5'	2.15	0.64
6:LC:279:LEU:HG	6:LC:280:PRO:HD2	1.79	0.64
7:LD:49:TYR:CD1	7:LD:66:TYR:HB3	2.24	0.64
8:LE:129:GLY:O	8:LE:130:LYS:HB2	1.96	0.64
16:LN:47:LYS:HA	16:LN:50:ARG:HH11	1.62	0.64
16:LN:120:TRP:HA	16:LN:130:PHE:CD1	2.33	0.64
18:LP:113:VAL:HG11	18:LP:153:LYS:CE	2.27	0.64
19:LQ:100:VAL:O	19:LQ:121:LEU:N	2.27	0.64
21:LS:11:LYS:HB2	21:LS:67:VAL:CG2	2.28	0.64
27:LY:4:ASN:ND2	27:LY:7:VAL:HG13	2.12	0.64
35:Lg:74:VAL:HG12	35:Lg:80:GLY:N	2.12	0.64
43:Lo:104:ILE:CG2	43:Lo:105:GLN:HA	2.27	0.64
44:Lp:38:THR:CA	44:Lp:45:THR:HG22	2.26	0.64
47:S2:337:C:H2'	47:S2:338:G:C5'	2.28	0.64
47:S2:532:C:N4	47:S2:552:G:O6	2.30	0.64
47:S2:582:C:OP1	76:SY:66:GLY:HA2	1.97	0.64
47:S2:1313:A:H5"	55:SK:3:MET:O	1.96	0.64
47:S2:1487:A:O2'	69:SC:118:ALA:HB1	1.98	0.64
47:S2:1655:C:P	61:ST:92:PHE:H	2.20	0.64
47:S2:1698:C:O2'	47:S2:1699:A:OP1	2.13	0.64
47:S2:1853:C:H2'	47:S2:1854:U:C6	2.33	0.64
48:SA:16:LEU:HD23	59:SR:93:GLN:CB	2.28	0.64
48:SA:18:PHE:HD2	48:SA:51:LEU:HD23	1.63	0.64
48:SA:56:GLU:OE2	63:SV:79:VAL:HA	1.97	0.64
49:SB:28:LYS:HD3	49:SB:48:LEU:HD11	1.80	0.64
56:SL:111:VAL:HG11	56:SL:142:VAL:CG2	2.28	0.64
58:SQ:31:LEU:HD23	58:SQ:67:ASP:OD2	1.97	0.64
61:ST:34:VAL:HG23	61:ST:35:ASP:N	2.11	0.64
62:SU:19:ARG:N	62:SU:92:HIS:HA	2.13	0.64
62:SU:61:LEU:HD12	62:SU:82:MET:CG	2.21	0.64
69:SC:210:PRO:HD3	69:SC:236:PHE:CE2	2.32	0.64
71:SJ:16:PRO:HG2	71:SJ:24:ARG:NH1	2.13	0.64
77:SZ:69:THR:HG22	77:SZ:108:ILE:HG12	1.78	0.64
80:Sf:127:GLY:HA3	80:Sf:130:VAL:CG2	2.28	0.64
1:L5:227:A:C2'	1:L5:228:C:H5'	2.27	0.64
1:L5:495:C:C2'	1:L5:496:G:H5'	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1483:C:O2'	1:L5:1484:G:O5'	2.15	0.64
1:L5:1890:G:N2	1:L5:1939:A:H61	1.96	0.64
1:L5:2499:C:H2'	1:L5:2500:U:C6	2.33	0.64
1:L5:3973:G:H22	1:L5:4037:C:H41	1.46	0.64
1:L5:4105:A:H4'	1:L5:4106:G:C5'	2.26	0.64
1:L5:4395:U:O2'	1:L5:4447:C:N4	2.30	0.64
1:L5:4752:U:OP1	34:Lf:8:LYS:HE3	1.97	0.64
1:L5:5041:G:C6	5:LB:389:MET:HG3	2.32	0.64
5:LB:299:ILE:HG21	5:LB:313:SER:HB2	1.80	0.64
8:LE:288:PHE:HE1	15:LM:106:ASP:HB2	1.63	0.64
13:LJ:109:ILE:HG22	13:LJ:128:LEU:O	1.97	0.64
14:LL:104:ASN:HB3	14:LL:110:LEU:HD12	1.80	0.64
15:LM:61:ILE:CD1	15:LM:63:LYS:HE2	2.28	0.64
16:LN:149:GLN:O	16:LN:152:THR:HG22	1.98	0.64
20:LR:97:ARG:O	20:LR:101:ILE:HG13	1.98	0.64
28:LZ:83:THR:HG22	28:LZ:85:TYR:N	2.13	0.64
32:Ld:37:GLY:O	32:Ld:41:ARG:HG3	1.97	0.64
47:S2:336:A:H2'	47:S2:337:C:C6	2.33	0.64
47:S2:658:U:C4	64:SX:24:ASP:HB2	2.32	0.64
47:S2:1164:G:C2'	47:S2:1165:G:H5'	2.28	0.64
47:S2:1271:C:H2'	47:S2:1272:C:C4'	2.28	0.64
47:S2:1409:A:OP1	58:SQ:24:HIS:N	2.30	0.64
48:SA:4:ALA:HB2	63:SV:80:SER:CB	2.28	0.64
48:SA:206:ASP:O	48:SA:210:ILE:HG23	1.98	0.64
50:SD:26:THR:HG21	50:SD:173:ARG:HH12	1.61	0.64
52:SF:204:ARG:NH2	66:Sc:63:ARG:HA	2.12	0.64
62:SU:46:LYS:NZ	62:SU:93:SER:OG	2.28	0.64
63:SV:25:GLY:O	69:SC:85:SER:OG	2.14	0.64
69:SC:270:THR:CA	69:SC:273:LEU:HB3	2.11	0.64
70:SG:19:ASP:CB	70:SG:22:ARG:HH12	2.08	0.64
73:SN:11:LEU:O	73:SN:11:LEU:HD12	1.98	0.64
77:SZ:98:LYS:HD3	77:SZ:110:THR:OG1	1.98	0.64
80:Sf:121:CYS:SG	80:Sf:122:PRO:HD2	2.38	0.64
1:L5:369:G:N2	1:L5:372:A:OP2	2.31	0.64
1:L5:1260:G:N2	1:L5:1261:G:H1'	2.12	0.64
1:L5:2083:C:H3'	1:L5:2084:C:H5"	1.80	0.64
1:L5:3708:C:O2	1:L5:3742:G:N2	2.21	0.64
1:L5:4101:C:O2'	1:L5:4109:G:N2	2.30	0.64
1:L5:4424:A:OP2	41:Lm:97:ARG:NH2	2.30	0.64
1:L5:4681:A:H2'	1:L5:4682:U:O4'	1.96	0.64
3:L8:37:A:H2'	3:L8:37:A:N3	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:48:ILE:CG2	4:LA:57:PRO:HB2	2.28	0.64
9:LF:225:THR:OG1	9:LF:229:GLU:OE1	2.15	0.64
13:LJ:15:LEU:HD11	13:LJ:165:TRP:CD1	2.33	0.64
13:LJ:87:LEU:HD21	13:LJ:166:PHE:HE1	1.62	0.64
18:LP:51:VAL:HG21	18:LP:58:VAL:CG2	2.28	0.64
21:LS:69:GLU:HG2	21:LS:72:PRO:HA	1.80	0.64
22:LT:118:GLU:HB2	22:LT:122:LYS:HE2	1.80	0.64
33:Le:77:PHE:HB2	45:Lr:23:GLN:HE22	1.62	0.64
47:S2:11:A:C2'	47:S2:12:U:H5'	2.28	0.64
47:S2:111:A:H5'	56:SL:70:GLY:HA2	1.80	0.64
47:S2:879:C:H2'	47:S2:880:G:H21	1.60	0.64
47:S2:1218:C:O2'	47:S2:1219:C:H5'	1.98	0.64
47:S2:1305:C:O2'	47:S2:1306:U:OP1	2.09	0.64
47:S2:1422:G:H1'	47:S2:1424:G:C8	2.33	0.64
47:S2:1476:A:C2'	47:S2:1477:U:H5'	2.28	0.64
47:S2:1544:C:H2'	47:S2:1545:A:C5'	2.22	0.64
49:SB:144:LYS:H	49:SB:207:LEU:HA	1.62	0.64
53:SH:6:ALA:CB	53:SH:25:GLN:HB3	2.28	0.64
54:SI:173:ALA:HA	54:SI:190:LEU:HG	1.80	0.64
62:SU:19:ARG:HA	62:SU:91:LEU:C	2.22	0.64
62:SU:54:VAL:HG21	62:SU:88:LEU:HD11	1.79	0.64
65:Sa:40:VAL:CG2	65:Sa:69:VAL:HB	2.27	0.64
65:Sa:51:ARG:O	65:Sa:54:SER:OG	2.15	0.64
68:Sg:236:ILE:HA	68:Sg:252:THR:CB	2.28	0.64
71:SJ:94:LEU:HD12	71:SJ:97:ILE:CD1	2.17	0.64
71:SJ:128:VAL:O	71:SJ:132:GLN:HG2	1.96	0.64
80:Sf:141:CYS:HB2	80:Sf:145:CYS:HA	1.79	0.64
80:Sf:141:CYS:O	80:Sf:145:CYS:HA	1.98	0.64
1:L5:318:A:H2'	1:L5:319:A:C8	2.24	0.64
1:L5:1085:C:N4	1:L5:1212:G:O6	2.31	0.64
1:L5:1846:G:O2'	1:L5:1847:C:H5'	1.98	0.64
1:L5:2054:U:OP1	17:LO:18:ARG:NH2	2.27	0.64
1:L5:2073:C:H2'	1:L5:2074:C:H5'	1.80	0.64
1:L5:2489:C:H4'	1:L5:2491:C:C4	2.33	0.64
1:L5:2845:A:H2'	1:L5:2845:A:N3	2.12	0.64
1:L5:2903:G:H4'	1:L5:3591:C:N4	2.13	0.64
1:L5:3971:G:H2'	1:L5:3972:A:C4'	2.28	0.64
1:L5:4085:A:H5'	26:LX:44:PRO:HB2	1.78	0.64
1:L5:4401:G:H1	1:L5:4442:U:H3	1.44	0.64
1:L5:4769:G:C2'	1:L5:4770:U:H5"	2.28	0.64
1:L5:4989:U:C6	1:L5:4991:U:H1'	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:156:LYS:HD3	4:LA:158:ILE:HD11	1.80	0.64
5:LB:303:ALA:HB1	5:LB:368:ILE:CG2	2.27	0.64
9:LF:28:LEU:O	9:LF:31:LYS:HB3	1.98	0.64
10:LG:61:ILE:O	10:LG:64:GLN:HG2	1.98	0.64
10:LG:150:LYS:HE2	10:LG:177:MET:CA	2.28	0.64
11:LH:8:GLN:HB3	11:LH:57:VAL:CG2	2.28	0.64
12:LI:15:LYS:HG2	12:LI:16:PRO:HD2	1.79	0.64
16:LN:42:PRO:HG3	16:LN:61:ILE:HG12	1.79	0.64
21:LS:166:ARG:HG3	21:LS:167:PHE:CD2	2.32	0.64
26:LX:92:ASP:OD1	26:LX:93:ASN:N	2.31	0.64
27:LY:56:GLN:CB	27:LY:67:ILE:HD12	2.28	0.64
28:LZ:73:LYS:HG2	28:LZ:74:VAL:N	2.13	0.64
32:Ld:57:MET:SD	32:Ld:90:ARG:HD3	2.37	0.64
47:S2:106:C:H4'	47:S2:410:G:N2	2.13	0.64
47:S2:306:C:H2'	47:S2:307:G:C2	2.33	0.64
47:S2:1490:G:OP1	47:S2:1490:G:H3'	1.97	0.64
47:S2:1567:G:O2'	61:ST:37:VAL:HG21	1.98	0.64
49:SB:104:ASP:OD1	49:SB:214:LYS:HG3	1.98	0.64
51:SE:181:CYS:SG	51:SE:195:ILE:HD11	2.38	0.64
51:SE:206:ASP:HB2	51:SE:222:LEU:HD13	1.80	0.64
62:SU:24:LEU:N	62:SU:87:ARG:O	2.29	0.64
69:SC:209:VAL:HB	69:SC:210:PRO:HD3	1.79	0.64
70:SG:44:GLU:HB3	70:SG:121:ILE:HG13	1.80	0.64
70:SG:222:GLU:O	70:SG:226:GLU:N	2.31	0.64
77:SZ:60:LYS:O	77:SZ:63:PRO:HD2	1.98	0.64
80:Sf:121:CYS:HB3	80:Sf:130:VAL:HG12	1.78	0.64
1:L5:475:G:H2'	1:L5:476:G:C8	2.27	0.63
1:L5:729:G:C3'	1:L5:730:G:H5'	2.28	0.63
1:L5:1338:G:H22	29:La:25:HIS:HE2	1.46	0.63
1:L5:1422:G:O2'	1:L5:1423:U:H5'	1.99	0.63
1:L5:1663:C:O2'	1:L5:1664:U:H5'	1.96	0.63
1:L5:3966:A:C2'	1:L5:3967:G:H5'	2.27	0.63
1:L5:4600:G:H1'	1:L5:4601:U:OP2	1.98	0.63
1:L5:4882:U:O4	15:LM:113:MET:HG3	1.98	0.63
3:L8:43:A:H62	38:Lj:65:ARG:HH22	1.46	0.63
8:LE:163:VAL:HG11	8:LE:257:ILE:HD11	1.78	0.63
10:LG:230:TYR:OH	37:Li:46:GLU:OE2	2.15	0.63
20:LR:78:ILE:HD12	20:LR:81:ARG:CD	2.25	0.63
21:LS:85:ASP:HA	21:LS:90:THR:HA	1.81	0.63
27:LY:74:TYR:HB3	27:LY:79:VAL:CG1	2.28	0.63
47:S2:1333:U:O2'	47:S2:1334:G:H5'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1612:G:H5”	57:SP:39:ALA:CB	2.29	0.63
49:SB:28:LYS:CG	49:SB:48:LEU:HD11	2.28	0.63
49:SB:36:PRO:HB3	49:SB:231:LEU:HD21	1.78	0.63
49:SB:79:VAL:HG13	49:SB:81:PHE:CE2	2.33	0.63
49:SB:171:ILE:O	49:SB:175:GLU:HG2	1.97	0.63
50:SD:107:TYR:CA	50:SD:110:LEU:HD12	2.28	0.63
51:SE:181:CYS:SG	51:SE:227:VAL:HG22	2.39	0.63
54:SI:99:ASN:HA	54:SI:174:CYS:SG	2.38	0.63
58:SQ:80:GLN:O	58:SQ:84:ILE:HG13	1.98	0.63
60:SS:14:ARG:HA	60:SS:20:ILE:O	1.98	0.63
68:Sg:4:GLN:O	68:Sg:312:VAL:HA	1.98	0.63
68:Sg:247:TRP:HZ3	68:Sg:312:VAL:HG21	1.63	0.63
72:SM:52:GLN:HG2	72:SM:78:LYS:HB2	1.81	0.63
80:Sf:135:HIS:HB3	80:Sf:138:ARG:O	1.96	0.63
1:L5:749:G:H2’	1:L5:750:U:C6	2.34	0.63
1:L5:961:G:O2’	1:L5:962:C:OP2	2.14	0.63
1:L5:1189:G:N2	1:L5:1190:C:O2	2.31	0.63
1:L5:1252:C:H1’	1:L5:1258:G:H22	1.62	0.63
1:L5:1408:G:H1’	1:L5:1412:G:C6	2.32	0.63
1:L5:1963:C:H2’	1:L5:1964:A:C1’	2.28	0.63
1:L5:2303:C:O2’	1:L5:2332:A:N1	2.28	0.63
1:L5:2468:U:O4	1:L5:2506:G:H2’	1.97	0.63
1:L5:3748:A:H2’	1:L5:3749:C:C6	2.32	0.63
1:L5:4985:U:OP1	5:LB:175:GLN:NE2	2.31	0.63
2:L7:59:G:H2’	2:L7:60:G:C8	2.32	0.63
3:L8:132:G:O2’	3:L8:133:G:H5’	1.98	0.63
5:LB:76:VAL:HA	5:LB:334:LYS:O	1.98	0.63
8:LE:208:ILE:CD1	8:LE:209:PRO:HD2	2.28	0.63
9:LF:69:ILE:HG23	9:LF:73:ARG:HH21	1.63	0.63
10:LG:137:ARG:HG3	10:LG:146:LEU:CD1	2.26	0.63
12:LI:54:SER:HA	12:LI:163:GLN:CG	2.29	0.63
13:LJ:134:LEU:HD11	13:LJ:157:ILE:HD13	1.78	0.63
17:LO:74:ARG:HD3	17:LO:145:VAL:O	1.97	0.63
23:LU:78:PHE:CE2	23:LU:83:LEU:HD11	2.33	0.63
30:Lb:43:MET:CE	30:Lb:47:LYS:HD2	2.27	0.63
33:Le:20:PHE:CD2	33:Le:56:PRO:HG3	2.33	0.63
36:Lh:5:LYS:HD3	36:Lh:7:ARG:CG	2.29	0.63
36:Lh:40:ALA:O	36:Lh:43:LYS:N	2.31	0.63
43:Lo:36:GLN:HA	43:Lo:39:ARG:HE	1.63	0.63
47:S2:67:C:H5’	70:SG:162:LEU:HD21	1.80	0.63
47:S2:201:C:H3’	47:S2:202:G:C8	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:753:C:C5	47:S2:790:C:H5"	2.33	0.63
47:S2:1316:C:O2'	47:S2:1317:C:O5'	2.09	0.63
47:S2:1549:U:H2'	47:S2:1550:G:C8	2.33	0.63
47:S2:1617:G:C3'	47:S2:1618:C:H5"	2.28	0.63
47:S2:1648:G:O2'	47:S2:1674:G:O6	2.16	0.63
48:SA:55:TRP:O	48:SA:59:LEU:HG	1.98	0.63
48:SA:66:VAL:HG21	48:SA:185:MET:CB	2.27	0.63
49:SB:187:LYS:HE2	49:SB:193:ILE:HD11	1.80	0.63
50:SD:7:LYS:NZ	62:SU:25:THR:HB	2.13	0.63
51:SE:139:LEU:HD11	51:SE:147:ILE:CD1	2.28	0.63
51:SE:180:LEU:HD12	51:SE:180:LEU:O	1.98	0.63
53:SH:23:ILE:C	53:SH:27:LEU:HD13	2.23	0.63
57:SP:81:ARG:CD	57:SP:96:VAL:HG13	2.27	0.63
59:SR:80:ARG:HA	59:SR:84:TYR:CE2	2.33	0.63
61:ST:49:ASP:OD1	61:ST:50:GLU:N	2.31	0.63
61:ST:112:MET:CE	61:ST:123:LEU:HD13	2.29	0.63
64:SX:94:ILE:CG1	64:SX:125:VAL:HG21	2.29	0.63
65:Sa:43:ASN:ND2	65:Sa:66:LYS:HE2	2.13	0.63
68:Sg:127:LYS:HZ2	68:Sg:150:TRP:NE1	1.96	0.63
1:L5:929:A:N3	1:L5:930:G:H3'	2.13	0.63
1:L5:1552:G:H2'	1:L5:1574:G:H22	1.62	0.63
1:L5:1810:G:O2'	1:L5:1811:G:H5'	1.98	0.63
1:L5:2843:U:H2'	1:L5:2844:A:O4'	1.98	0.63
1:L5:3757:G:H2'	1:L5:3758:U:C5	2.33	0.63
1:L5:3784:A:O2'	1:L5:3785:A:H5'	1.98	0.63
1:L5:4077:A:H2'	1:L5:4078:C:O4'	1.98	0.63
1:L5:4735:G:O2'	1:L5:4736:C:H5'	1.98	0.63
1:L5:4886:C:C2'	1:L5:4887:C:H5'	2.28	0.63
1:L5:4932:U:H2'	1:L5:4933:C:C2	2.33	0.63
6:LC:279:LEU:CD2	6:LC:280:PRO:HD2	2.28	0.63
10:LG:211:ASP:HB2	10:LG:214:ALA:HB3	1.78	0.63
12:LI:43:VAL:HG13	12:LI:194:GLY:O	1.98	0.63
16:LN:159:ARG:HG3	16:LN:164:LEU:HB2	1.78	0.63
16:LN:184:ILE:HG23	16:LN:194:ARG:HH11	1.64	0.63
29:La:98:ALA:HB1	29:La:123:ILE:CD1	2.28	0.63
33:Le:38:PRO:HG2	33:Le:45:VAL:CG1	2.29	0.63
34:Lf:9:ALA:HB3	34:Lf:101:ILE:CG2	2.28	0.63
34:Lf:33:VAL:CG1	34:Lf:42:TYR:HE2	2.11	0.63
46:Lz:152:LYS:HD3	46:Lz:154:THR:HB	1.80	0.63
47:S2:161:U:H5"	76:SY:116:LYS:NZ	2.14	0.63
47:S2:672:A:H3'	47:S2:673:G:C5'	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:899:U:H3'	47:S2:899:U:OP2	1.98	0.63
47:S2:1266:C:O2	47:S2:1517:G:N2	2.30	0.63
47:S2:1613:G:O6	47:S2:1614:A:N6	2.31	0.63
48:SA:210:ILE:HD12	48:SA:211:GLU:HG2	1.80	0.63
50:SD:73:VAL:CG1	50:SD:84:VAL:HG11	2.29	0.63
51:SE:175:PHE:HD1	51:SE:227:VAL:HG21	1.63	0.63
52:SF:97:PHE:HB3	52:SF:108:PRO:HG3	1.80	0.63
58:SQ:109:LYS:CE	58:SQ:120:LEU:HD22	2.28	0.63
63:SV:59:ILE:CG2	63:SV:64:GLU:HB3	2.23	0.63
70:SG:160:LYS:HE2	70:SG:172:LYS:CG	2.28	0.63
71:SJ:31:LEU:O	71:SJ:35:TYR:HB2	1.98	0.63
72:SM:67:ALA:CB	80:Sf:112:GLY:HA2	2.27	0.63
1:L5:110:C:OP2	14:LL:89:LYS:NZ	2.32	0.63
1:L5:312:G:H2'	1:L5:313:U:C6	2.32	0.63
1:L5:426:A:O2'	1:L5:427:A:H5'	1.97	0.63
1:L5:1332:C:H5"	33:Le:29:VAL:CG2	2.29	0.63
1:L5:3906:A:C1'	1:L5:4448:G:H1'	2.28	0.63
1:L5:4687:A:H2	1:L5:4688:C:C2	2.16	0.63
1:L5:4950:U:O2	1:L5:4952:G:H1'	1.97	0.63
1:L5:5048:A:OP1	32:Ld:31:LYS:HD2	1.98	0.63
3:L8:141:C:OP1	16:LN:62:TYR:OH	2.15	0.63
4:LA:178:PRO:HG2	44:Lp:26:VAL:CG1	2.29	0.63
6:LC:47:ASN:ND2	6:LC:113:ARG:O	2.30	0.63
6:LC:54:VAL:HG21	6:LC:101:MET:SD	2.39	0.63
6:LC:340:ILE:CD1	8:LE:51:VAL:HG21	2.29	0.63
11:LH:132:VAL:HG22	11:LH:154:VAL:HG22	1.80	0.63
11:LH:146:LEU:HD12	11:LH:146:LEU:O	1.98	0.63
13:LJ:119:TYR:O	60:SS:12:ILE:HD11	1.97	0.63
13:LJ:164:ARG:HA	13:LJ:167:GLN:HG2	1.80	0.63
14:LL:162:LYS:O	29:La:105:ARG:NH1	2.32	0.63
15:LM:27:ILE:CA	15:LM:38:VAL:HG23	2.28	0.63
15:LM:49:ALA:HB2	21:LS:100:LEU:HD11	1.78	0.63
17:LO:151:ALA:O	17:LO:155:THR:HG23	1.97	0.63
20:LR:17:CYS:HB3	20:LR:52:ARG:NH2	2.13	0.63
32:Ld:108:TYR:CE2	32:Ld:110:PRO:HB3	2.33	0.63
41:Lm:101:ALA:HB1	41:Lm:112:LYS:HZ1	1.62	0.63
45:Lr:97:ILE:HG23	45:Lr:102:TYR:O	1.98	0.63
46:Lz:49:PHE:HE1	46:Lz:193:LEU:HD13	1.63	0.63
47:S2:161:U:O2'	70:SG:87:ARG:NH2	2.30	0.63
47:S2:1823:A:OP1	47:S2:1824:A:N6	2.30	0.63
47:S2:1841:C:C2	47:S2:1859:A:H2	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:198:ARG:HH11	51:SE:222:LEU:CD2	2.11	0.63
52:SF:187:SER:HB3	52:SF:190:ILE:CG2	2.28	0.63
57:SP:60:LEU:HA	57:SP:63:ALA:HB2	1.80	0.63
59:SR:90:ALA:C	59:SR:91:LEU:HD12	2.24	0.63
68:Sg:32:LEU:HD22	68:Sg:69:VAL:HG22	1.79	0.63
68:Sg:83:TRP:O	68:Sg:108:VAL:N	2.23	0.63
69:SC:201:GLY:N	69:SC:221:ASP:OD2	2.31	0.63
70:SG:3:LEU:HD13	70:SG:111:LEU:CD1	2.28	0.63
72:SM:20:GLU:O	72:SM:24:THR:OG1	2.08	0.63
72:SM:21:VAL:HG13	72:SM:22:LEU:HD12	1.80	0.63
74:SO:43:HIS:O	74:SO:45:THR:HG23	1.98	0.63
76:SY:29:HIS:ND1	76:SY:29:HIS:O	2.31	0.63
1:L5:23:C:H5”	1:L5:24:G:OP2	1.98	0.63
1:L5:203:U:C2’	1:L5:204:U:H5’	2.28	0.63
1:L5:1850:A:OP2	14:LL:5:ARG:NH1	2.31	0.63
1:L5:2404:A:H61	1:L5:2787:A:N6	1.96	0.63
1:L5:2485:U:H1’	1:L5:2486:G:C5	2.33	0.63
1:L5:4093:G:H2’	1:L5:4094:G:C5	2.34	0.63
1:L5:4093:G:H3’	1:L5:4093:G:N3	2.13	0.63
1:L5:4411:G:O2’	1:L5:4412:C:H5’	1.99	0.63
4:LA:70:LYS:HG2	4:LA:71:LYS:N	2.12	0.63
5:LB:85:VAL:HG12	5:LB:86:VAL:O	1.98	0.63
7:LD:37:VAL:HG22	7:LD:50:ARG:NH1	2.14	0.63
7:LD:67:ALA:HB1	22:LT:31:MET:HE1	1.81	0.63
9:LF:144:TYR:N	9:LF:237:GLU:O	2.32	0.63
10:LG:230:TYR:CE2	10:LG:234:ARG:HD3	2.33	0.63
12:LI:36:LEU:HD11	12:LI:69:ARG:HD2	1.81	0.63
13:LJ:53:ALA:CB	13:LJ:66:GLU:H	2.09	0.63
23:LU:88:LYS:HD2	23:LU:97:ARG:NH2	2.14	0.63
24:LV:26:ILE:HG21	24:LV:103:GLY:N	2.04	0.63
28:LZ:54:THR:HG22	28:LZ:57:MET:CG	2.26	0.63
46:Lz:95:LYS:HD2	46:Lz:126:PRO:HB2	1.80	0.63
47:S2:126:G:N2	47:S2:126:G:OP2	2.30	0.63
47:S2:1673:U:H2’	47:S2:1674:G:O4’	1.98	0.63
48:SA:57:LYS:O	48:SA:61:ALA:N	2.30	0.63
48:SA:82:THR:HG22	48:SA:204:TYR:CD2	2.34	0.63
52:SF:173:LEU:HD12	52:SF:174:ALA:N	2.13	0.63
53:SH:128:ALA:O	53:SH:131:GLU:HB3	1.98	0.63
60:SS:27:ALA:HB1	60:SS:42:HIS:CE1	2.33	0.63
69:SC:104:ASP:HA	69:SC:130:ILE:HD13	1.79	0.63
70:SG:38:ALA:N	70:SG:48:TYR:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:SM:60:MET:HB3	72:SM:64:LEU:CD1	2.27	0.63
74:SO:93:LEU:HD12	74:SO:93:LEU:O	1.98	0.63
76:SY:91:LEU:HG	76:SY:96:LEU:HG	1.81	0.63
1:L5:31:U:C2'	1:L5:32:G:H5'	2.29	0.63
1:L5:694:C:H3'	1:L5:695:G:C5'	2.24	0.63
1:L5:1266:G:H5'	1:L5:2112:G:N2	2.14	0.63
1:L5:2006:U:OP1	1:L5:2007:G:N1	2.32	0.63
1:L5:2060:G:N2	21:LS:115:ALA:HB2	2.14	0.63
1:L5:2091:C:N4	9:LF:36:LYS:HE2	2.07	0.63
1:L5:2296:G:OP2	6:LC:190:ARG:NH1	2.27	0.63
1:L5:2484:A:N6	1:L5:2486:G:H1	1.96	0.63
1:L5:3678:G:P	4:LA:193:ARG:HH21	2.21	0.63
1:L5:4127:A:C2	10:LG:37:LYS:HG2	2.34	0.63
1:L5:4368:G:H21	43:Lo:82:MET:CE	2.12	0.63
1:L5:4765:G:N2	1:L5:4869:U:H3	1.86	0.63
1:L5:4911:A:OP1	5:LB:97:ARG:NH1	2.31	0.63
3:L8:142:U:H2'	3:L8:143:G:H5'	1.80	0.63
6:LC:334:THR:HA	6:LC:337:ARG:HG2	1.79	0.63
14:LL:57:PRO:HG2	14:LL:73:GLY:HA3	1.80	0.63
16:LN:68:ARG:NH2	16:LN:123:GLU:OE2	2.19	0.63
19:LQ:89:ASP:CG	19:LQ:91:ARG:HH11	2.07	0.63
21:LS:78:PHE:O	21:LS:96:GLU:HB2	1.99	0.63
28:LZ:89:ILE:CD1	28:LZ:121:ARG:HD3	2.27	0.63
32:Ld:33:ILE:O	32:Ld:36:VAL:HG22	1.99	0.63
32:Ld:72:VAL:HG12	32:Ld:84:ILE:HD11	1.80	0.63
37:Li:50:PHE:CZ	37:Li:93:VAL:HG11	2.33	0.63
47:S2:47:G:O2'	47:S2:48:C:H5'	1.99	0.63
47:S2:150:A:N6	47:S2:168:C:H42	1.95	0.63
47:S2:224:A:H5"	47:S2:225:G:OP2	1.98	0.63
47:S2:389:A:H2'	47:S2:390:C:C6	2.33	0.63
47:S2:896:U:H5'	47:S2:897:U:OP2	1.99	0.63
47:S2:1271:C:O2'	47:S2:1272:C:OP1	2.16	0.63
47:S2:1397:U:OP1	68:Sg:38:LYS:NZ	2.31	0.63
47:S2:1406:G:H2'	47:S2:1407:U:C1'	2.28	0.63
48:SA:7:VAL:CG2	63:SV:42:VAL:HA	2.28	0.63
48:SA:205:ARG:HB2	48:SA:210:ILE:HG22	1.78	0.63
50:SD:41:VAL:HG23	50:SD:46:THR:CG2	2.26	0.63
51:SE:73:ASP:OD2	51:SE:145:ARG:NH2	2.32	0.63
51:SE:97:GLU:HG3	51:SE:99:PHE:CD1	2.34	0.63
53:SH:170:VAL:HG21	53:SH:187:PHE:HB2	1.80	0.63
55:SK:24:LYS:HG3	55:SK:26:ASP:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:44:PRO:HD2	58:SQ:48:GLN:OE1	1.98	0.63
62:SU:31:SER:HB2	62:SU:110:VAL:HG13	1.81	0.63
62:SU:55:ARG:HG2	62:SU:87:ARG:NE	2.14	0.63
65:Sa:18:VAL:HG11	65:Sa:33:ASP:CG	2.23	0.63
68:Sg:18:VAL:HA	68:Sg:34:ALA:O	1.98	0.63
70:SG:5:ILE:HG12	70:SG:111:LEU:CB	2.29	0.63
70:SG:209:TYR:CE1	70:SG:213:LEU:HD11	2.33	0.63
70:SG:216:ARG:O	70:SG:223:LYS:NZ	2.31	0.63
73:SN:23:PRO:HB2	73:SN:25:TRP:CD2	2.33	0.63
74:SO:83:GLN:HA	74:SO:86:LYS:CG	2.25	0.63
1:L5:355:A:C2'	1:L5:356:G:H5'	2.29	0.63
1:L5:729:G:H3'	1:L5:730:G:H5'	1.81	0.63
1:L5:996:G:C8	1:L5:1047:C:H2'	2.33	0.63
1:L5:1474:C:H2'	1:L5:1475:G:O4'	1.98	0.63
1:L5:1773:U:H3'	1:L5:1774:C:C6	2.34	0.63
1:L5:2257:C:OP2	1:L5:2257:C:H2'	1.99	0.63
1:L5:2480:G:H2'	1:L5:2481:G:O4'	1.99	0.63
1:L5:2639:U:H1'	35:Lg:26:PRO:HB3	1.79	0.63
1:L5:2702:C:H2'	1:L5:2703:G:C5'	2.24	0.63
1:L5:3606:U:N3	1:L5:3607:U:O4	2.32	0.63
1:L5:4708:A:N3	1:L5:4708:A:H2'	2.13	0.63
1:L5:4762:A:O2'	21:LS:174:THR:HG21	1.99	0.63
9:LF:226:HIS:ND1	9:LF:228:VAL:HG22	2.14	0.63
14:LL:31:ARG:O	14:LL:34:ARG:HG2	1.99	0.63
15:LM:8:GLU:H	15:LM:11:ARG:HG3	1.63	0.63
19:LQ:101:CYS:HA	19:LQ:121:LEU:O	1.99	0.63
23:LU:101:ARG:HB2	23:LU:115:PHE:CE1	2.34	0.63
27:LY:54:GLU:OE1	27:LY:107:THR:OG1	2.17	0.63
46:Lz:35:GLN:CB	46:Lz:167:VAL:HG11	2.29	0.63
47:S2:293:C:O2'	47:S2:294:U:H3'	1.99	0.63
47:S2:580:U:H2'	47:S2:581:U:O4'	1.99	0.63
47:S2:637:U:O2	79:Se:56:ASN:ND2	2.31	0.63
47:S2:808:A:O2'	47:S2:809:A:H5'	1.98	0.63
47:S2:941:C:H2'	47:S2:942:G:O4'	1.98	0.63
47:S2:1540:G:H2'	47:S2:1541:G:C8	2.34	0.63
47:S2:1540:G:H2'	47:S2:1541:G:H8	1.64	0.63
49:SB:140:VAL:CG1	49:SB:213:ARG:HB2	2.27	0.63
49:SB:197:ILE:HD11	49:SB:210:VAL:CG1	2.29	0.63
50:SD:135:GLU:CD	50:SD:157:MET:HG2	2.23	0.63
51:SE:136:ILE:CD1	51:SE:148:ARG:HE	2.12	0.63
51:SE:159:THR:CG2	51:SE:227:VAL:HB	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:183:VAL:HG12	51:SE:225:ILE:HD13	1.81	0.63
53:SH:130:LEU:HD23	53:SH:177:TYR:CE1	2.34	0.63
54:SI:82:VAL:CG2	54:SI:103:LEU:HD13	2.29	0.63
54:SI:114:GLU:HG2	54:SI:119:LEU:O	1.99	0.63
58:SQ:106:LYS:O	58:SQ:110:ASP:HB2	1.98	0.63
61:ST:104:LEU:O	61:ST:113:VAL:HG21	1.99	0.63
62:SU:19:ARG:HA	62:SU:92:HIS:CA	2.29	0.63
62:SU:26:SER:HG	62:SU:110:VAL:HA	1.62	0.63
63:SV:70:LEU:O	63:SV:70:LEU:HD23	1.99	0.63
65:Sa:21:ILE:N	65:Sa:30:VAL:O	2.28	0.63
68:Sg:109:LEU:CD2	68:Sg:110:SER:H	2.12	0.63
71:SJ:48:PHE:CE2	71:SJ:52:LYS:HE2	2.34	0.63
75:SW:6:VAL:HG11	75:SW:29:PRO:HB2	1.79	0.63
1:L5:1:C:C4'	1:L5:2:G:H5'	2.29	0.63
1:L5:191:G:O2'	1:L5:192:G:H5'	1.99	0.63
1:L5:453:G:N3	1:L5:453:G:H2'	2.14	0.63
1:L5:1208:G:C2'	1:L5:1209:U:H5'	2.28	0.63
1:L5:1322:A:H1'	1:L5:1324:A:OP2	1.99	0.63
1:L5:1442:C:N3	1:L5:2103:G:N1	2.42	0.63
1:L5:1463:C:C2'	1:L5:1464:C:H5'	2.28	0.63
1:L5:2327:G:C2	1:L5:2328:G:H1'	2.34	0.63
1:L5:4307:A:H4'	19:LQ:186:TYR:CD2	2.33	0.63
1:L5:4342:C:O3'	43:Lo:37:GLY:HA3	1.99	0.63
1:L5:4489:G:N2	1:L5:4708:A:H1'	2.14	0.63
1:L5:4989:U:O2'	1:L5:4991:U:O4'	2.17	0.63
5:LB:232:THR:OG1	5:LB:249:ARG:O	2.17	0.63
7:LD:159:VAL:HG13	7:LD:160:PHE:N	2.14	0.63
10:LG:261:LEU:O	10:LG:265:LEU:HB2	1.98	0.63
12:LI:57:TYR:OH	12:LI:128:ARG:NH2	2.29	0.63
14:LL:169:ILE:HG23	14:LL:173:GLU:HG3	1.79	0.63
17:LO:157:GLU:OE1	17:LO:160:ARG:HD3	1.98	0.63
34:Lf:30:ILE:O	34:Lf:33:VAL:HG22	1.98	0.63
45:Lr:52:GLU:HB2	45:Lr:53:PRO:CD	2.25	0.63
47:S2:338:G:C2'	47:S2:339:A:H5'	2.29	0.63
47:S2:969:U:H4'	47:S2:970:G:H5'	1.81	0.63
47:S2:1314:U:H2'	47:S2:1315:U:H5'	1.80	0.63
47:S2:1372:U:OP2	47:S2:1385:G:N2	2.29	0.63
47:S2:1405:A:H2'	47:S2:1406:G:O4'	1.97	0.63
47:S2:1414:A:H61	47:S2:1419:C:N4	1.97	0.63
47:S2:1419:C:O2'	47:S2:1420:G:O5'	2.16	0.63
47:S2:1450:G:H2'	47:S2:1451:G:O4'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1478:U:H2'	47:S2:1479:G:H8	1.64	0.63
50:SD:175:VAL:O	50:SD:181:VAL:HG23	1.99	0.63
53:SH:138:GLU:OE1	73:SN:19:ARG:HD2	1.99	0.63
54:SI:79:ILE:HG23	54:SI:80:ASP:N	2.13	0.63
54:SI:165:GLN:HG3	54:SI:171:LEU:CD2	2.19	0.63
55:SK:84:HIS:NE2	72:SM:116:LYS:O	2.31	0.63
61:ST:71:GLY:CA	61:ST:120:GLY:HA2	2.29	0.63
62:SU:48:LEU:HB3	62:SU:49:LYS:CA	2.28	0.63
68:Sg:24:THR:OG1	68:Sg:27:PHE:HB2	1.97	0.63
70:SG:38:ALA:O	70:SG:41:LEU:HG	1.98	0.63
77:SZ:63:PRO:HB2	77:SZ:112:ASN:ND2	2.10	0.63
1:L5:1427:A:H2	19:LQ:138:LEU:HD22	1.61	0.63
1:L5:1825:A:H2'	1:L5:1826:G:H8	1.64	0.63
1:L5:1878:G:H2'	1:L5:1879:C:C6	2.34	0.63
1:L5:3707:U:H2'	1:L5:3708:C:H6	1.63	0.63
1:L5:4911:A:C5'	5:LB:97:ARG:HH12	2.11	0.63
1:L5:5055:G:H2'	1:L5:5056:A:C8	2.34	0.63
2:L7:45:U:OP1	7:LD:152:ARG:HB3	1.99	0.63
3:L8:122:G:C8	3:L8:123:U:H1'	2.34	0.63
4:LA:233:ARG:O	4:LA:233:ARG:HG2	1.99	0.63
6:LC:219:LYS:HA	6:LC:222:ARG:CD	2.28	0.63
13:LJ:24:ILE:HG12	13:LJ:127:GLY:O	1.98	0.63
14:LL:130:LYS:HE2	14:LL:132:SER:HB2	1.81	0.63
14:LL:171:GLU:HA	14:LL:174:LYS:HD3	1.81	0.63
17:LO:19:LEU:HA	17:LO:22:ILE:CG2	2.29	0.63
46:Lz:120:ILE:HD13	46:Lz:134:PHE:CE1	2.29	0.63
46:Lz:207:LYS:HZ1	46:Lz:213:PRO:HB3	1.63	0.63
47:S2:582:C:H2'	47:S2:583:C:H5"	1.80	0.63
47:S2:884:C:N4	47:S2:902:G:O6	2.29	0.63
47:S2:951:C:H3'	47:S2:951:C:H6	1.64	0.63
47:S2:980:A:O2'	47:S2:981:A:H5'	1.99	0.63
47:S2:1452:A:H5'	47:S2:1453:C:H5	1.63	0.63
47:S2:1745:A:H3'	47:S2:1746:U:O4'	1.99	0.63
48:SA:66:VAL:HG12	63:SV:47:ASN:ND2	2.08	0.63
52:SF:60:ARG:HH21	66:Sc:49:PRO:HB3	1.64	0.63
53:SH:147:LYS:NZ	53:SH:149:ASP:OD2	2.30	0.63
56:SL:68:ILE:HD11	56:SL:143:LEU:HD11	1.80	0.63
57:SP:30:TYR:CE1	57:SP:33:LEU:HD21	2.34	0.63
58:SQ:41:MET:C	58:SQ:43:GLU:HG3	2.24	0.63
66:Sc:9:ILE:HD12	66:Sc:59:LEU:HA	1.81	0.63
68:Sg:24:THR:HB	68:Sg:27:PHE:CD2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:289:LEU:HD22	68:Sg:298:LEU:CD1	2.24	0.63
71:SJ:47:LYS:HA	71:SJ:102:ILE:HD11	1.80	0.63
73:SN:4:MET:CE	73:SN:124:ARG:HD3	2.28	0.63
1:L5:508:G:O2'	1:L5:510:U:OP1	2.12	0.62
1:L5:665:C:H2'	1:L5:667:A:N6	2.14	0.62
1:L5:1759:G:H2'	1:L5:1760:G:H8	1.64	0.62
1:L5:2093:A:H5"	1:L5:2095:A:H5"	1.80	0.62
1:L5:2104:G:H21	1:L5:2105:A:H1'	1.64	0.62
1:L5:3964:U:H2'	1:L5:3964:U:O2	1.98	0.62
1:L5:4235:G:H2'	1:L5:4236:G:H5'	1.81	0.62
1:L5:4413:C:N4	1:L5:4414:A:N1	2.46	0.62
1:L5:4775:C:H6	1:L5:4775:C:H3'	1.63	0.62
1:L5:4913:G:O2'	1:L5:4914:C:O5'	2.13	0.62
2:L7:81:G:N2	2:L7:95:C:O2	2.31	0.62
3:L8:83:C:H41	27:LY:50:ARG:HH21	1.45	0.62
5:LB:92:TYR:O	5:LB:157:CYS:HB2	1.99	0.62
7:LD:211:LEU:HB3	7:LD:219:TYR:HB2	1.80	0.62
8:LE:287:VAL:HB	15:LM:105:THR:HA	1.81	0.62
10:LG:113:ARG:O	10:LG:117:ARG:N	2.32	0.62
13:LJ:95:ARG:HD2	13:LJ:177:GLY:HA2	1.79	0.62
29:La:22:ILE:O	29:La:24:LYS:HD2	1.99	0.62
31:Lc:28:VAL:CG1	31:Lc:33:GLN:HG2	2.29	0.62
33:Le:75:ARG:HB2	33:Le:95:TYR:HD1	1.61	0.62
44:Lp:49:ARG:HB2	44:Lp:55:TRP:CE3	2.33	0.62
46:Lz:100:VAL:HG23	46:Lz:102:LYS:HG2	1.81	0.62
46:Lz:108:ASP:HB3	46:Lz:156:LYS:HZ3	1.64	0.62
47:S2:307:G:H3'	47:S2:308:G:H5"	1.81	0.62
47:S2:386:C:H1'	54:SI:5:ARG:HG2	1.81	0.62
47:S2:1408:U:C4'	58:SQ:71:ARG:HH22	2.11	0.62
47:S2:1747:C:H2'	47:S2:1748:G:C4'	2.29	0.62
49:SB:71:LEU:HG	49:SB:74:LEU:CD2	2.29	0.62
60:SS:39:ARG:HE	61:ST:38:LYS:HG3	1.64	0.62
63:SV:12:TYR:CE1	63:SV:14:PRO:HB3	2.29	0.62
68:Sg:122:SER:CB	68:Sg:130:LYS:H	2.12	0.62
69:SC:194:ARG:HB3	69:SC:225:SER:OG	1.98	0.62
72:SM:24:THR:HG23	72:SM:116:LYS:H	1.64	0.62
72:SM:25:ALA:HB2	72:SM:31:LEU:HD22	1.79	0.62
72:SM:60:MET:O	72:SM:64:LEU:HD13	1.98	0.62
1:L5:1459:A:C2'	1:L5:1460:C:H5'	2.28	0.62
1:L5:1463:C:H4'	30:Lb:30:GLU:O	1.98	0.62
1:L5:1819:G:H4'	7:LD:140:GLY:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2438:A:O2'	1:L5:2440:U:OP2	2.15	0.62
1:L5:2716:C:H2'	1:L5:2717:G:H5'	1.79	0.62
1:L5:3757:G:H2'	1:L5:3758:U:C6	2.34	0.62
1:L5:3838:U:O2'	1:L5:3839:G:H5'	1.98	0.62
1:L5:3909:C:N4	1:L5:4396:A:H61	1.98	0.62
1:L5:4685:U:H2'	1:L5:4686:G:H8	1.65	0.62
3:L8:82:A:N6	3:L8:84:A:H3'	2.14	0.62
10:LG:129:PRO:O	10:LG:130:THR:HG22	1.98	0.62
10:LG:154:LEU:HD22	10:LG:204:PHE:CD2	2.34	0.62
13:LJ:109:ILE:O	13:LJ:109:ILE:HG23	1.98	0.62
13:LJ:164:ARG:O	13:LJ:168:GLN:N	2.32	0.62
15:LM:122:ILE:HB	17:LO:189:ILE:HD13	1.82	0.62
28:LZ:54:THR:CG2	28:LZ:57:MET:HE3	2.29	0.62
47:S2:19:A:OP1	64:SX:107:ARG:HG3	1.98	0.62
47:S2:462:C:C2'	47:S2:463:C:H5"	2.29	0.62
47:S2:573:U:C2	47:S2:575:A:H5"	2.34	0.62
47:S2:1298:G:O2'	47:S2:1299:A:O5'	2.17	0.62
47:S2:1537:A:H2'	47:S2:1538:C:H5'	1.80	0.62
47:S2:1629:C:H2'	47:S2:1630:A:O4'	1.99	0.62
52:SF:59:LYS:HB3	52:SF:62:ARG:CD	2.29	0.62
53:SH:93:VAL:HG22	53:SH:94:PHE:H	1.63	0.62
53:SH:177:TYR:O	53:SH:181:THR:OG1	2.13	0.62
54:SI:163:GLU:HA	54:SI:166:PHE:HD2	1.64	0.62
57:SP:16:THR:OG1	57:SP:20:VAL:O	2.17	0.62
58:SQ:50:LYS:HA	58:SQ:53:GLU:CG	2.26	0.62
58:SQ:57:LEU:HD11	58:SQ:112:LEU:HD22	1.81	0.62
61:ST:18:LEU:HD22	61:ST:58:ALA:O	1.99	0.62
63:SV:3:ASN:ND2	63:SV:7:GLU:HB2	2.14	0.62
68:Sg:108:VAL:CG2	68:Sg:124:SER:HA	2.23	0.62
68:Sg:169:GLY:H	68:Sg:195:LEU:CD1	2.12	0.62
68:Sg:193:GLY:HA3	68:Sg:213:ASP:H	1.64	0.62
68:Sg:210:GLY:HA3	68:Sg:236:ILE:CG2	2.22	0.62
70:SG:57:ASP:CG	70:SG:58:LYS:H	2.07	0.62
70:SG:181:THR:CG2	70:SG:184:VAL:HG23	2.26	0.62
73:SN:2:GLY:HA3	73:SN:9:LYS:H	1.63	0.62
75:SW:77:PRO:HG2	75:SW:79:PHE:CZ	2.34	0.62
76:SY:40:ILE:HD13	76:SY:60:PHE:CZ	2.34	0.62
80:Sf:107:LYS:O	80:Sf:114:ILE:HG23	1.99	0.62
1:L5:177:G:H2'	1:L5:178:C:H5'	1.81	0.62
1:L5:386:A:H61	1:L5:410:A:H61	1.46	0.62
1:L5:1076:C:N4	1:L5:1234:G:O6	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1219:G:H3'	1:L5:1220:G:C8	2.34	0.62
1:L5:1408:G:O2'	1:L5:1411:C:H2'	1.98	0.62
1:L5:4251:A:O2'	1:L5:4252:C:H5'	2.00	0.62
1:L5:4311:A:C2'	1:L5:4312:U:H5'	2.29	0.62
5:LB:56:ILE:HD13	5:LB:365:LEU:CD2	2.27	0.62
8:LE:66:LYS:CD	8:LE:68:MET:HE2	2.29	0.62
8:LE:140:LEU:HD21	8:LE:144:ILE:CG2	2.28	0.62
9:LF:116:GLN:HG2	9:LF:119:ASN:HD21	1.64	0.62
18:LP:4:TYR:CE1	18:LP:18:ARG:HD2	2.34	0.62
21:LS:159:LEU:HD21	21:LS:172:PRO:HB2	1.81	0.62
28:LZ:12:LEU:HD21	28:LZ:22:LYS:HG2	1.81	0.62
32:Ld:87:ARG:HH22	32:Ld:122:VAL:HG21	1.64	0.62
40:Ll:24:PRO:O	40:Ll:27:ILE:HG22	1.99	0.62
43:Lo:69:ARG:NH2	43:Lo:80:LYS:HE2	2.13	0.62
47:S2:195:C:O2'	47:S2:205:G:N2	2.32	0.62
47:S2:201:C:H2'	47:S2:202:G:H5'	1.79	0.62
47:S2:335:G:C2'	47:S2:336:A:H5'	2.29	0.62
47:S2:559:G:H3'	71:SJ:177:ASN:ND2	2.13	0.62
47:S2:568:C:H2'	47:S2:569:A:C8	2.34	0.62
47:S2:616:A:H5"	64:SX:68:LYS:HZ3	1.64	0.62
47:S2:1310:U:OP1	80:Sf:130:VAL:HG13	2.00	0.62
47:S2:1350:U:H3	47:S2:1379:A:H61	1.46	0.62
47:S2:1615:U:O4	57:SP:40:ARG:NH2	2.32	0.62
47:S2:1752:C:O2	47:S2:1781:A:H1'	1.99	0.62
49:SB:111:CYS:HA	49:SB:114:VAL:HG12	1.81	0.62
52:SF:69:VAL:O	52:SF:73:THR:HG23	1.99	0.62
53:SH:9:VAL:HG23	53:SH:28:LEU:HD11	1.80	0.62
56:SL:148:ALA:O	56:SL:153:LYS:NZ	2.29	0.62
57:SP:73:PRO:CA	57:SP:74:GLU:HB2	2.30	0.62
58:SQ:109:LYS:HE2	58:SQ:120:LEU:HD13	1.80	0.62
68:Sg:149:GLU:HG2	68:Sg:150:TRP:H	1.64	0.62
72:SM:119:GLN:O	72:SM:123:VAL:HG22	1.99	0.62
1:L5:683:C:OP2	1:L5:684:G:N2	2.32	0.62
1:L5:1202:C:H3'	1:L5:1203:G:C5'	2.29	0.62
1:L5:1262:G:H2'	1:L5:1263:A:C8	2.35	0.62
1:L5:1279:A:H2'	1:L5:1280:C:C2	2.34	0.62
1:L5:2550:G:H2'	1:L5:2551:A:C8	2.34	0.62
1:L5:2677:G:C2'	1:L5:2678:A:H5'	2.29	0.62
1:L5:3959:U:H5'	1:L5:3961:G:N7	2.14	0.62
1:L5:3970:G:O2'	1:L5:3971:G:H5'	2.00	0.62
1:L5:4241:C:O2'	1:L5:4242:U:H5'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4246:G:H1	1:L5:4262:C:N4	1.98	0.62
3:L8:56:G:N2	3:L8:62:A:O4'	2.33	0.62
6:LC:208:CYS:HB3	6:LC:250:CYS:SG	2.40	0.62
6:LC:333:LYS:CE	8:LE:54:ILE:HG12	2.22	0.62
7:LD:25:GLU:O	13:LJ:147:ARG:HA	1.99	0.62
10:LG:140:VAL:O	10:LG:143:VAL:HG12	1.99	0.62
15:LM:25:VAL:HG22	15:LM:38:VAL:HG22	1.79	0.62
15:LM:31:ILE:CD1	15:LM:37:LEU:HB2	2.27	0.62
16:LN:4:TYR:OH	16:LN:49:ARG:NH2	2.32	0.62
16:LN:114:ARG:NH1	16:LN:137:PRO:HG3	2.14	0.62
20:LR:185:ILE:HD11	20:LR:186:LYS:NZ	2.14	0.62
21:LS:51:LEU:C	21:LS:52:LYS:HD2	2.25	0.62
32:Ld:113:THR:HG23	32:Ld:117:LEU:HD11	1.80	0.62
45:Lr:47:LYS:HB2	45:Lr:102:TYR:CE1	2.35	0.62
47:S2:160:U:C4	47:S2:162:C:H1'	2.34	0.62
47:S2:538:U:H4'	47:S2:546:G:C2	2.34	0.62
47:S2:1337:C:O2	47:S2:1490:G:N2	2.20	0.62
47:S2:1732:G:H2'	47:S2:1733:U:O4'	1.98	0.62
49:SB:145:LYS:HG3	49:SB:149:GLN:OE1	1.99	0.62
50:SD:208:VAL:HG13	59:SR:40:ILE:O	2.00	0.62
51:SE:95:THR:CA	76:SY:16:ARG:HD2	2.29	0.62
62:SU:67:LYS:HD3	62:SU:76:THR:O	1.99	0.62
63:SV:1:MET:HA	63:SV:9:VAL:CG2	2.30	0.62
65:Sa:43:ASN:HB3	65:Sa:64:LEU:CD2	2.29	0.62
70:SG:23:LYS:HD3	70:SG:40:ALA:O	1.99	0.62
74:SO:45:THR:HG22	74:SO:52:THR:HA	1.82	0.62
74:SO:92:ALA:CA	74:SO:125:LYS:HB2	2.29	0.62
75:SW:11:LEU:HD12	75:SW:74:VAL:HB	1.82	0.62
76:SY:79:LEU:HA	76:SY:82:ALA:HB3	1.80	0.62
1:L5:94:A:C5	1:L5:95:G:H1'	2.34	0.62
1:L5:98:A:N3	1:L5:98:A:H2'	2.15	0.62
1:L5:132:G:H3'	1:L5:133:C:C5'	2.30	0.62
1:L5:145:G:H2'	1:L5:146:G:H8	1.64	0.62
1:L5:151:G:H2'	16:LN:49:ARG:HH22	1.64	0.62
1:L5:175:C:H2'	1:L5:176:G:H8	1.63	0.62
1:L5:468:U:H2'	1:L5:469:C:H1'	1.81	0.62
1:L5:970:G:N2	1:L5:970:G:OP2	2.33	0.62
1:L5:2127:C:H41	8:LE:76:ALA:HB3	1.65	0.62
1:L5:2130:G:N2	1:L5:2131:C:H1'	2.14	0.62
1:L5:2674:A:N6	44:Lp:41:PHE:O	2.33	0.62
1:L5:2702:C:C2'	1:L5:2703:G:H5"	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3913:G:H4'	1:L5:3914:U:OP2	2.00	0.62
2:L7:33:U:H2'	2:L7:34:C:C5'	2.30	0.62
6:LC:73:VAL:HB	6:LC:78:ARG:HH12	1.62	0.62
6:LC:124:ILE:HD11	6:LC:237:ILE:HG13	1.81	0.62
9:LF:85:ALA:N	22:LT:138:ALA:HB3	2.15	0.62
11:LH:174:LYS:HG3	11:LH:175:PHE:H	1.63	0.62
13:LJ:7:GLU:HA	13:LJ:10:ASN:ND2	2.14	0.62
13:LJ:113:ILE:CD1	60:SS:13:LEU:HD21	2.28	0.62
14:LL:77:SER:HB2	14:LL:80:GLU:HG2	1.80	0.62
16:LN:119:TYR:CE1	16:LN:131:GLU:HB2	2.35	0.62
17:LO:186:GLU:CA	17:LO:189:ILE:HG22	2.28	0.62
28:LZ:26:VAL:CG1	28:LZ:91:LEU:HD22	2.28	0.62
46:Lz:55:LEU:O	46:Lz:152:LYS:HD3	1.99	0.62
47:S2:50:A:H2'	47:S2:51:U:H6	1.64	0.62
47:S2:815:U:H2'	47:S2:816:A:H5'	1.82	0.62
47:S2:1453:C:H2'	47:S2:1453:C:O2	2.00	0.62
47:S2:1548:G:OP1	62:SU:62:ARG:NH1	2.32	0.62
47:S2:1828:C:H5"	47:S2:1829:G:OP2	2.00	0.62
52:SF:96:ALA:CB	52:SF:174:ALA:HB2	2.29	0.62
58:SQ:90:LYS:HD3	58:SQ:120:LEU:O	1.98	0.62
58:SQ:97:GLN:NE2	58:SQ:102:GLU:OE2	2.33	0.62
61:ST:11:GLN:O	61:ST:15:VAL:HG13	1.99	0.62
64:SX:54:LYS:O	79:Se:6:LEU:HD23	2.00	0.62
69:SC:106:VAL:HG12	69:SC:128:VAL:HG22	1.80	0.62
70:SG:19:ASP:O	70:SG:22:ARG:NH1	2.32	0.62
1:L5:699:C:H2'	1:L5:700:G:O4'	1.99	0.62
1:L5:1262:G:H2'	1:L5:1263:A:H8	1.63	0.62
1:L5:1499:C:H2'	1:L5:1500:A:H5'	1.82	0.62
1:L5:1554:A:O2'	44:Lp:10:ILE:HD13	1.99	0.62
1:L5:1666:C:O2'	1:L5:1688:G:OP1	2.16	0.62
1:L5:1779:U:O2'	1:L5:1780:A:O5'	2.15	0.62
1:L5:2077:C:H2'	1:L5:2078:C:C6	2.29	0.62
1:L5:2635:U:H2'	1:L5:2636:U:O4'	1.99	0.62
1:L5:4183:G:H2'	1:L5:4183:G:N3	2.14	0.62
1:L5:4370:G:C2	81:L5:5101:3HE:C14	2.82	0.62
1:L5:4413:C:H2'	1:L5:4414:A:H5'	1.82	0.62
1:L5:4460:U:H2'	1:L5:4461:C:C6	2.35	0.62
1:L5:4652:G:O3'	32:Ld:75:LYS:NZ	2.32	0.62
1:L5:4731:G:O2'	1:L5:4732:G:OP2	2.16	0.62
1:L5:4862:G:H2'	1:L5:4863:G:O4'	2.00	0.62
1:L5:4883:C:O2	34:Lf:2:SER:HB3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4920:C:H3'	1:L5:4921:C:C6	2.35	0.62
1:L5:5027:C:H1'	1:L5:5028:G:P	2.40	0.62
4:LA:15:VAL:HG12	4:LA:194:ASN:HD22	1.64	0.62
5:LB:107:ALA:HB2	5:LB:201:LEU:HD21	1.80	0.62
6:LC:209:ILE:HB	6:LC:229:LEU:HD23	1.81	0.62
8:LE:188:ARG:NH1	8:LE:218:LYS:HD2	2.13	0.62
9:LF:85:ALA:HA	22:LT:138:ALA:HB2	1.80	0.62
10:LG:89:ARG:HA	10:LG:92:ALA:CB	2.30	0.62
11:LH:50:LYS:HG3	11:LH:51:LYS:N	2.13	0.62
16:LN:114:ARG:HG3	16:LN:151:ILE:HD13	1.81	0.62
16:LN:160:GLU:OE1	16:LN:160:GLU:N	2.27	0.62
23:LU:63:ILE:CD1	23:LU:72:VAL:HG22	2.29	0.62
25:LW:98:PRO:HB2	25:LW:105:ARG:HH12	1.64	0.62
29:La:121:PRO:HA	29:La:140:VAL:HG12	1.81	0.62
33:Le:113:GLU:N	33:Le:113:GLU:OE1	2.33	0.62
34:Lf:104:MET:O	34:Lf:106:TYR:N	2.32	0.62
39:Lk:53:ALA:HB1	39:Lk:57:LYS:HD2	1.80	0.62
45:Lr:47:LYS:HD3	45:Lr:102:TYR:CD1	2.35	0.62
47:S2:327:G:C4	47:S2:328:U:H1'	2.35	0.62
47:S2:597:G:N2	47:S2:598:G:H1'	2.15	0.62
47:S2:837:A:N3	47:S2:838:G:H4'	2.14	0.62
48:SA:180:ARG:HH11	48:SA:184:ARG:HH22	1.45	0.62
50:SD:63:GLY:O	50:SD:66:ILE:HG22	2.00	0.62
51:SE:92:ILE:HB	51:SE:95:THR:HG22	1.80	0.62
54:SI:59:ARG:O	54:SI:60:LEU:HD12	1.99	0.62
55:SK:33:PRO:HA	55:SK:36:ALA:HB2	1.81	0.62
56:SL:143:LEU:O	56:SL:144:LYS:HB2	1.98	0.62
66:Sc:12:ALA:N	66:Sc:55:VAL:O	2.32	0.62
68:Sg:78:ALA:H	68:Sg:89:LEU:HD12	1.64	0.62
68:Sg:262:GLU:O	68:Sg:264:LYS:HG3	1.98	0.62
71:SJ:69:ARG:O	71:SJ:73:GLU:N	2.31	0.62
71:SJ:84:ILE:CB	71:SJ:86:VAL:HG22	2.29	0.62
71:SJ:110:LEU:O	71:SJ:114:VAL:HG23	1.99	0.62
73:SN:95:ALA:CB	73:SN:122:ILE:HD11	2.29	0.62
75:SW:104:LEU:O	75:SW:104:LEU:HD12	2.00	0.62
76:SY:118:ARG:CG	76:SY:120:THR:HG23	2.29	0.62
76:SY:127:ALA:O	76:SY:130:LYS:HB2	1.98	0.62
1:L5:186:G:H1	1:L5:1365:C:H5"	1.64	0.62
1:L5:277:G:O2'	1:L5:278:G:OP2	2.15	0.62
1:L5:1586:G:C2'	1:L5:1587:G:H5'	2.30	0.62
1:L5:1601:A:OP2	38:Lj:4:GLY:HA3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2373:C:H5"	32:Ld:46:LEU:HD21	1.82	0.62
1:L5:4498:U:H2'	1:L5:4500:U:C5'	2.29	0.62
1:L5:4670:C:H2'	24:LV:15:ARG:NH2	2.14	0.62
5:LB:91:GLY:O	5:LB:102:PHE:HB3	1.98	0.62
6:LC:267:TRP:CE2	6:LC:279:LEU:HD22	2.34	0.62
7:LD:99:TYR:OH	7:LD:168:ASP:OD2	2.16	0.62
7:LD:129:GLU:N	7:LD:129:GLU:OE1	2.31	0.62
9:LF:144:TYR:CD2	9:LF:237:GLU:HA	2.34	0.62
11:LH:150:ASP:OD1	11:LH:151:ILE:N	2.33	0.62
15:LM:99:GLU:N	15:LM:99:GLU:OE1	2.32	0.62
24:LV:83:ARG:NH2	24:LV:120:PRO:O	2.24	0.62
25:LW:102:LYS:O	25:LW:106:GLU:HB2	1.98	0.62
28:LZ:12:LEU:HD12	35:Lg:95:PHE:CD1	2.35	0.62
28:LZ:58:GLY:O	28:LZ:62:ILE:HG22	2.00	0.62
34:Lf:28:LEU:HD12	34:Lf:28:LEU:O	1.99	0.62
38:Lj:33:THR:OG1	38:Lj:40:PRO:HG3	2.00	0.62
47:S2:71:G:O2'	47:S2:72:C:OP1	2.10	0.62
47:S2:358:C:P	64:SX:18:ARG:HE	2.22	0.62
47:S2:465:A:H5'	47:S2:466:G:C4	2.34	0.62
47:S2:659:G:H1'	47:S2:662:G:N3	2.15	0.62
47:S2:888:U:H1'	47:S2:889:U:C5	2.35	0.62
47:S2:1036:A:N3	47:S2:1844:U:O2'	2.33	0.62
47:S2:1064:C:O3'	74:SO:149:ARG:NH1	2.33	0.62
47:S2:1406:G:H2'	47:S2:1407:U:O4'	1.98	0.62
47:S2:1743:G:C2'	47:S2:1744:G:H5'	2.28	0.62
48:SA:122:LEU:HD21	48:SA:124:VAL:HG23	1.81	0.62
49:SB:30:TRP:CD1	74:SO:19:PRO:HD3	2.35	0.62
49:SB:108:ASP:OD1	49:SB:109:LYS:N	2.33	0.62
51:SE:15:PRO:HB2	51:SE:18:TRP:CZ3	2.34	0.62
52:SF:43:GLU:O	52:SF:45:TYR:N	2.26	0.62
52:SF:127:ARG:CG	52:SF:137:GLN:HB2	2.30	0.62
53:SH:160:LYS:HE2	53:SH:192:PHE:HA	1.82	0.62
64:SX:94:ILE:CD1	64:SX:125:VAL:HG21	2.30	0.62
66:Sc:20:ARG:HD2	66:Sc:28:THR:CG2	2.30	0.62
68:Sg:219:TRP:CA	68:Sg:227:LEU:HD12	2.24	0.62
76:SY:22:GLN:HA	76:SY:74:MET:HE3	1.82	0.62
76:SY:25:ILE:HD12	76:SY:57:VAL:HG12	1.80	0.62
1:L5:166:C:H2'	1:L5:167:C:C6	2.35	0.62
1:L5:1181:C:H5'	1:L5:1182:C:O5'	1.98	0.62
1:L5:1250:C:H2'	1:L5:1251:C:H5'	1.80	0.62
1:L5:1521:C:OP1	6:LC:100:ARG:NH2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1944:A:N7	1:L5:2039:G:N2	2.48	0.62
1:L5:1965:G:H3'	1:L5:1965:G:OP2	1.99	0.62
1:L5:2326:G:P	33:Le:101:HIS:HD1	2.23	0.62
1:L5:2474:G:C6	26:LX:47:ARG:HG2	2.34	0.62
1:L5:3661:G:C5	4:LA:150:LEU:HD23	2.34	0.62
1:L5:3758:U:H2'	1:L5:3764:U:C2	2.35	0.62
1:L5:3954:A:N6	1:L5:4057:C:H41	1.98	0.62
1:L5:4345:C:H1'	1:L5:4368:G:N2	2.15	0.62
1:L5:4863:G:H3'	1:L5:4864:U:H6	1.62	0.62
2:L7:27:G:N7	7:LD:58:ARG:NH2	2.48	0.62
3:L8:80:A:H2'	3:L8:81:C:H5'	1.80	0.62
5:LB:316:PRO:HA	5:LB:370:THR:O	1.99	0.62
5:LB:389:MET:SD	5:LB:392:LEU:HD21	2.40	0.62
7:LD:52:ILE:CD1	7:LD:63:GLN:HE21	2.06	0.62
8:LE:207:LYS:H	8:LE:256:GLN:NE2	1.95	0.62
9:LF:241:ASN:HA	9:LF:244:ILE:HG22	1.81	0.62
11:LH:31:ARG:CG	11:LH:32:GLY:H	2.12	0.62
12:LI:169:LYS:HD2	12:LI:170:LYS:NZ	2.14	0.62
12:LI:208:LYS:O	12:LI:212:LEU:HG	1.99	0.62
18:LP:126:ARG:HG3	18:LP:140:MET:SD	2.40	0.62
27:LY:53:ASP:OD1	27:LY:109:LEU:HA	1.99	0.62
32:Ld:26:THR:HB	32:Ld:85:ARG:HD2	1.79	0.62
46:Lz:120:ILE:HG13	46:Lz:124:LEU:HD22	1.80	0.62
46:Lz:120:ILE:HG22	46:Lz:121:PRO:HD3	1.82	0.62
47:S2:612:U:O2'	79:Se:11:LYS:NZ	2.33	0.62
47:S2:1227:G:H21	47:S2:1635:C:H4'	1.64	0.62
47:S2:1275:G:O4'	47:S2:1506:A:N6	2.33	0.62
47:S2:1340:U:O2	47:S2:1340:U:H2'	2.00	0.62
47:S2:1369:A:P	59:SR:1:MET:HB3	2.40	0.62
47:S2:1648:G:N2	47:S2:1675:A:OP2	2.27	0.62
48:SA:70:ASN:HD22	48:SA:73:ASP:CG	2.08	0.62
51:SE:160:ILE:HD12	51:SE:162:ILE:HD11	1.82	0.62
53:SH:9:VAL:O	53:SH:9:VAL:HG12	1.99	0.62
55:SK:77:GLN:CB	55:SK:80:ARG:HE	2.13	0.62
58:SQ:96:TYR:HD1	58:SQ:100:VAL:CG2	2.13	0.62
59:SR:13:ALA:O	59:SR:16:ILE:HG22	2.00	0.62
66:Sc:37:ASP:HB3	66:Sc:39:SER:H	1.65	0.62
68:Sg:40:ILE:CB	68:Sg:59:LEU:HB2	2.27	0.62
69:SC:227:ARG:CG	69:SC:228:GLY:H	2.08	0.62
71:SJ:32:ILE:HG12	71:SJ:37:LEU:CB	2.30	0.62
75:SW:81:VAL:HG21	75:SW:125:ILE:CD1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1169:G:N2	1:L5:1192:C:O2	2.23	0.62
1:L5:2334:C:OP2	6:LC:195:LYS:NZ	2.32	0.62
1:L5:2612:G:H2'	1:L5:2613:C:O4'	2.00	0.62
1:L5:3597:G:N2	1:L5:3598:C:H1'	2.15	0.62
1:L5:3833:C:H2'	1:L5:3834:C:H6	1.65	0.62
1:L5:4128:A:H61	1:L5:4156:G:H1'	1.65	0.62
1:L5:4172:A:H2'	1:L5:4173:G:H5'	1.82	0.62
1:L5:4904:G:H2'	1:L5:4905:C:C2	2.35	0.62
1:L5:5057:C:H4'	32:Ld:121:ASN:ND2	2.12	0.62
2:L7:5:A:OP2	7:LD:27:LYS:NZ	2.32	0.62
5:LB:94:GLU:HG2	5:LB:158:GLN:OE1	2.00	0.62
13:LJ:109:ILE:HG21	13:LJ:128:LEU:CD1	2.30	0.62
17:LO:125:LYS:HG3	17:LO:129:LEU:CD1	2.29	0.62
21:LS:127:MET:HB3	22:LT:153:PRO:HG2	1.81	0.62
25:LW:113:LYS:HA	25:LW:116:LYS:HB3	1.79	0.62
27:LY:35:SER:HB3	27:LY:106:ILE:O	2.00	0.62
34:Lf:33:VAL:HG11	34:Lf:42:TYR:HE2	1.63	0.62
46:Lz:95:LYS:HD3	46:Lz:126:PRO:HD2	1.82	0.62
47:S2:93:U:OP2	51:SE:3:ARG:NH2	2.23	0.62
47:S2:95:G:N2	47:S2:474:G:H5'	2.15	0.62
47:S2:440:G:O2'	47:S2:1737:G:H1'	2.00	0.62
47:S2:538:U:OP2	47:S2:539:C:H5'	1.99	0.62
47:S2:838:G:H1'	47:S2:840:C:OP2	2.00	0.62
47:S2:975:G:O2'	74:SO:49:GLY:O	2.10	0.62
47:S2:1108:G:N2	47:S2:1109:C:H41	1.96	0.62
47:S2:1539:U:O5'	61:ST:45:LEU:HB3	2.00	0.62
47:S2:1545:A:O2'	47:S2:1546:G:O4'	2.18	0.62
48:SA:57:LYS:HZ2	63:SV:70:LEU:HD12	1.63	0.62
49:SB:82:ARG:NH2	49:SB:103:MET:HE1	2.15	0.62
50:SD:107:TYR:HA	50:SD:110:LEU:CG	2.29	0.62
52:SF:96:ALA:HB1	52:SF:174:ALA:HB2	1.82	0.62
61:ST:5:THR:HG23	61:ST:8:ASP:H	1.64	0.62
66:Sc:18:LEU:HD21	66:Sc:66:ARG:HH22	1.64	0.62
68:Sg:11:LEU:CD1	68:Sg:307:VAL:HG11	2.28	0.62
68:Sg:142:VAL:HG21	68:Sg:145:GLU:OE1	2.00	0.62
68:Sg:236:ILE:HG23	68:Sg:252:THR:HG22	1.80	0.62
72:SM:51:VAL:HA	72:SM:77:ILE:CG2	2.30	0.62
74:SO:92:ALA:HB2	74:SO:125:LYS:CB	2.30	0.62
1:L5:53:C:H2'	1:L5:54:G:H8	1.64	0.62
1:L5:239:C:H2'	1:L5:240:G:H8	1.65	0.62
1:L5:700:G:H2'	1:L5:701:G:H5'	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:919:C:O2	15:LM:65:PRO:HB3	2.00	0.62
1:L5:1082:C:H3'	1:L5:1083:U:H5	1.65	0.62
1:L5:1330:A:O2'	1:L5:3866:C:OP1	2.18	0.62
1:L5:1497:A:O3'	19:LQ:164:LYS:NZ	2.29	0.62
1:L5:1922:G:H2'	1:L5:1923:A:H5'	1.81	0.62
1:L5:2045:G:O2'	1:L5:2046:G:H5"	1.99	0.62
1:L5:2484:A:N7	1:L5:2486:G:N1	2.48	0.62
1:L5:2626:U:H1'	1:L5:2629:C:H41	1.64	0.62
1:L5:2695:A:H5"	39:Lk:26:LYS:NZ	2.15	0.62
1:L5:4374:U:H4'	1:L5:4375:C:OP2	2.00	0.62
1:L5:4606:G:H2'	1:L5:4607:A:O4'	2.00	0.62
1:L5:4870:G:N2	1:L5:4870:G:OP2	2.32	0.62
1:L5:4950:U:C2	1:L5:4952:G:H1'	2.35	0.62
3:L8:94:G:N7	38:Lj:79:ARG:NH1	2.41	0.62
3:L8:94:G:H21	38:Lj:82:THR:HB	1.65	0.62
6:LC:260:LEU:CD2	6:LC:263:LEU:HD12	2.30	0.62
9:LF:112:LEU:O	9:LF:113:ARG:HG2	1.99	0.62
16:LN:101:VAL:O	16:LN:105:ARG:HG2	2.00	0.62
17:LO:140:ARG:O	17:LO:144:GLU:HG2	1.99	0.62
17:LO:179:LYS:O	17:LO:182:GLU:HB3	2.00	0.62
20:LR:78:ILE:CD1	20:LR:81:ARG:HD2	2.26	0.62
21:LS:29:ARG:HH21	22:LT:148:PRO:HD2	1.64	0.62
21:LS:165:PRO:HG2	21:LS:168:THR:HG23	1.81	0.62
23:LU:42:PHE:HE1	23:LU:93:LYS:HZ1	1.47	0.62
26:LX:61:PRO:HG2	36:Lh:80:PRO:HG3	1.82	0.62
33:Le:90:MET:CG	45:Lr:33:LYS:HG2	2.28	0.62
39:Lk:27:LYS:NZ	39:Lk:68:GLU:OE1	2.29	0.62
39:Lk:60:LEU:HD13	39:Lk:64:LEU:HB2	1.81	0.62
46:Lz:36:ILE:HA	46:Lz:203:ALA:O	2.00	0.62
47:S2:66:G:H5"	70:SG:172:LYS:NZ	2.15	0.62
47:S2:338:G:C3'	47:S2:339:A:H5'	2.30	0.62
47:S2:1550:G:H3'	47:S2:1579:A:N6	2.14	0.62
47:S2:1573:G:H2'	47:S2:1574:C:O4'	1.99	0.62
47:S2:1741:U:C3'	47:S2:1742:C:H5"	2.30	0.62
49:SB:127:VAL:CG1	49:SB:173:THR:HG23	2.30	0.62
50:SD:42:THR:HB	50:SD:43:PRO:HD2	1.82	0.62
50:SD:136:VAL:HA	50:SD:185:LYS:O	2.00	0.62
58:SQ:57:LEU:HD21	58:SQ:112:LEU:HD21	1.81	0.62
59:SR:78:ARG:HA	59:SR:81:ARG:CD	2.30	0.62
70:SG:57:ASP:OD2	70:SG:98:ARG:HD3	2.00	0.62
72:SM:40:LYS:HD3	72:SM:42:LEU:CD1	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:SO:101:GLY:HA3	74:SO:134:PRO:HG2	1.81	0.62
1:L5:518:G:C2	1:L5:643:C:H2'	2.35	0.61
1:L5:695:G:C2'	1:L5:696:C:H5'	2.20	0.61
1:L5:1187:G:H1'	7:LD:275:GLN:NE2	2.00	0.61
1:L5:1341:U:H5"	6:LC:110:ARG:HG3	1.82	0.61
1:L5:1497:A:N6	19:LQ:175:GLU:O	2.33	0.61
1:L5:1865:G:OP1	12:LI:120:GLY:N	2.20	0.61
1:L5:2251:G:H1	45:Lr:99:LYS:HZ3	1.48	0.61
1:L5:2332:A:H4'	1:L5:2333:G:OP1	2.00	0.61
1:L5:3941:G:H5'	1:L5:3942:A:OP2	2.00	0.61
1:L5:4186:A:O2'	1:L5:4187:G:H5'	2.00	0.61
1:L5:4507:A:O2'	1:L5:4508:C:H5'	1.99	0.61
1:L5:4524:G:O2'	1:L5:4525:C:H5'	2.00	0.61
1:L5:4740:G:C6	1:L5:4960:G:H1'	2.35	0.61
1:L5:5035:U:O2'	1:L5:5036:C:H5'	2.00	0.61
2:L7:75:G:O2'	2:L7:99:G:O6	2.16	0.61
4:LA:177:LYS:HG2	4:LA:178:PRO:O	2.00	0.61
5:LB:395:ASP:HA	5:LB:398:ALA:HB3	1.81	0.61
6:LC:207:PRO:O	6:LC:227:ILE:HG13	2.00	0.61
6:LC:293:LEU:O	6:LC:299:GLN:NE2	2.32	0.61
9:LF:178:SER:C	9:LF:179:LEU:HD12	2.24	0.61
16:LN:4:TYR:O	16:LN:8:GLN:HB2	2.00	0.61
17:LO:102:LEU:HD23	17:LO:103:LYS:N	2.15	0.61
24:LV:42:VAL:HG22	24:LV:43:LYS:O	2.00	0.61
24:LV:137:GLY:O	24:LV:138:SER:OG	2.14	0.61
37:Li:102:ALA:HB3	46:Lz:10:LEU:HD23	1.81	0.61
38:Lj:18:LEU:HA	38:Lj:25:LYS:HA	1.82	0.61
46:Lz:134:PHE:CD1	46:Lz:135:PRO:HD2	2.35	0.61
47:S2:158:A:N3	47:S2:159:A:H1'	2.15	0.61
47:S2:407:G:H3'	47:S2:408:A:C5'	2.28	0.61
47:S2:490:C:H42	47:S2:510:G:H1	1.48	0.61
47:S2:751:G:N2	47:S2:752:G:O4'	2.30	0.61
47:S2:1079:C:H2'	47:S2:1080:A:H5'	1.82	0.61
47:S2:1332:A:N3	50:SD:141:LYS:NZ	2.46	0.61
47:S2:1478:U:H2'	47:S2:1479:G:C8	2.35	0.61
47:S2:1627:C:H5'	61:ST:41:LYS:HD2	1.82	0.61
47:S2:1669:G:OP1	62:SU:79:ARG:NH1	2.33	0.61
51:SE:11:ARG:HD2	51:SE:28:ALA:HB2	1.81	0.61
57:SP:18:ARG:HG3	57:SP:20:VAL:CG2	2.27	0.61
60:SS:80:PRO:HB3	60:SS:82:TRP:NE1	2.15	0.61
60:SS:80:PRO:HD2	60:SS:83:PHE:CD2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:ST:30:VAL:HB	61:ST:31:PRO:HD2	1.82	0.61
63:SV:71:ARG:CA	63:SV:74:LYS:HG2	2.28	0.61
65:Sa:102:ARG:CB	65:Sa:103:PRO:CD	2.78	0.61
68:Sg:46:THR:OG1	68:Sg:53:GLY:HA2	2.00	0.61
68:Sg:256:ILE:HG22	68:Sg:258:ILE:CD1	2.30	0.61
69:SC:99:GLY:O	69:SC:101:SER:N	2.32	0.61
69:SC:226:ALA:HB1	69:SC:230:THR:HG22	1.81	0.61
1:L5:482:G:H2'	1:L5:482:G:N3	2.15	0.61
1:L5:1288:G:C5	8:LE:132:PRO:HG3	2.34	0.61
1:L5:1408:G:H5"	1:L5:1409:C:OP1	2.00	0.61
1:L5:1461:C:C2'	1:L5:1462:A:H5'	2.30	0.61
1:L5:1741:G:O2'	1:L5:1742:A:OP1	2.14	0.61
1:L5:1823:G:H2'	1:L5:1825:A:H8	1.65	0.61
1:L5:1847:C:H2'	1:L5:1848:C:C6	2.36	0.61
1:L5:1902:G:H2'	1:L5:1903:G:C8	2.34	0.61
1:L5:2094:G:O2'	1:L5:2095:A:OP1	2.17	0.61
1:L5:2697:A:C2'	1:L5:2698:G:H5'	2.30	0.61
1:L5:2799:G:O2'	1:L5:2800:G:H5'	1.99	0.61
1:L5:3748:A:OP1	4:LA:243:THR:OG1	2.17	0.61
1:L5:3845:A:OP2	5:LB:249:ARG:NH1	2.23	0.61
1:L5:4645:C:H5	20:LR:62:ARG:CD	2.13	0.61
1:L5:5000:G:H2'	1:L5:5001:U:O4'	2.00	0.61
3:L8:14:U:H2'	3:L8:15:G:O4'	1.99	0.61
6:LC:106:LYS:HD3	6:LC:108:TRP:CZ2	2.35	0.61
7:LD:237:GLU:O	7:LD:241:LYS:HE3	2.01	0.61
9:LF:243:LEU:HD21	9:LF:247:MET:CE	2.26	0.61
10:LG:87:LEU:CD2	10:LG:184:ILE:HD11	2.30	0.61
12:LI:38:ARG:NE	12:LI:41:ALA:HB2	2.13	0.61
13:LJ:63:ARG:HD3	43:Lo:103:VAL:HG12	1.82	0.61
15:LM:70:GLN:HA	15:LM:73:VAL:CG1	2.29	0.61
17:LO:47:PHE:HA	17:LO:136:ALA:HB2	1.80	0.61
17:LO:186:GLU:O	17:LO:190:ASP:HB2	1.99	0.61
18:LP:32:THR:HG22	18:LP:58:VAL:CG1	2.24	0.61
23:LU:56:LEU:HD22	23:LU:61:VAL:CG2	2.30	0.61
23:LU:111:GLU:OE1	23:LU:113:ARG:NH2	2.33	0.61
25:LW:83:THR:OG1	25:LW:86:SER:OG	2.14	0.61
27:LY:55:VAL:N	27:LY:68:GLY:O	2.24	0.61
28:LZ:57:MET:SD	28:LZ:61:LYS:HE3	2.41	0.61
44:Lp:70:THR:HG22	44:Lp:72:ASN:H	1.64	0.61
45:Lr:98:ARG:NH2	45:Lr:99:LYS:HE3	2.14	0.61
47:S2:15:U:C2'	47:S2:16:G:H5'	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:90:G:OP1	47:S2:445:A:N6	2.26	0.61
47:S2:373:G:OP1	56:SL:137:THR:OG1	2.17	0.61
47:S2:537:C:O2	47:S2:548:C:N4	2.33	0.61
47:S2:868:G:N2	53:SH:113:LYS:O	2.33	0.61
47:S2:1334:G:C2'	47:S2:1335:G:H5'	2.29	0.61
47:S2:1385:G:H2'	47:S2:1386:A:C8	2.34	0.61
47:S2:1468:C:H2'	47:S2:1469:A:H5'	1.80	0.61
47:S2:1532:C:H4'	47:S2:1604:G:N2	2.14	0.61
47:S2:1658:G:P	47:S2:1660:C:H42	2.23	0.61
49:SB:63:LYS:HD2	49:SB:89:GLU:OE2	2.00	0.61
50:SD:157:MET:HE1	50:SD:187:LYS:HD3	1.81	0.61
52:SF:76:MET:HE1	52:SF:158:ALA:HB2	1.81	0.61
53:SH:79:LEU:HA	53:SH:82:GLU:HG2	1.80	0.61
54:SI:27:TYR:CD1	54:SI:28:GLU:HG2	2.35	0.61
58:SQ:71:ARG:HD2	58:SQ:73:LYS:HE3	1.81	0.61
66:Sc:34:PHE:O	66:Sc:36:ASP:N	2.31	0.61
68:Sg:22:ALA:N	68:Sg:32:LEU:HD21	2.15	0.61
68:Sg:118:ARG:HG3	68:Sg:119:GLN:N	2.15	0.61
68:Sg:247:TRP:CZ3	68:Sg:312:VAL:HG21	2.34	0.61
70:SG:181:THR:OG1	70:SG:182:PRO:HD2	2.00	0.61
74:SO:34:PHE:HD1	74:SO:98:ARG:HD3	1.63	0.61
1:L5:127:G:N2	1:L5:142:G:N3	2.48	0.61
1:L5:678:C:C2'	1:L5:679:C:H5'	2.31	0.61
1:L5:729:G:N3	9:LF:73:ARG:NH1	2.48	0.61
1:L5:1525:A:O2'	1:L5:3916:G:O2'	2.18	0.61
1:L5:2253:A:C2'	1:L5:2254:G:H5"	2.30	0.61
1:L5:2373:C:C4'	32:Ld:64:ILE:HD11	2.29	0.61
1:L5:2739:C:H5	4:LA:179:ILE:HG22	1.65	0.61
1:L5:2844:A:O2'	1:L5:4631:G:H4'	2.01	0.61
1:L5:3690:U:C2'	1:L5:3691:G:H5'	2.29	0.61
1:L5:3741:C:H2'	1:L5:3742:G:H5'	1.82	0.61
1:L5:4303:C:N3	1:L5:4305:G:N1	2.47	0.61
1:L5:5052:C:OP1	5:LB:325:GLU:HG2	1.99	0.61
3:L8:110:U:OP2	40:Ll:8:ARG:NH1	2.33	0.61
4:LA:205:ASN:HB2	4:LA:206:PRO:CD	2.26	0.61
5:LB:378:ARG:HG3	5:LB:379:PHE:CE2	2.34	0.61
6:LC:328:LEU:HD21	9:LF:170:THR:O	2.00	0.61
7:LD:231:VAL:HA	7:LD:235:MET:CE	2.30	0.61
14:LL:81:LEU:CG	14:LL:86:ILE:HD11	2.30	0.61
18:LP:30:ARG:HH21	18:LP:31:GLU:CG	2.13	0.61
20:LR:38:ARG:HA	20:LR:41:ILE:CG2	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:LU:96:LEU:HD22	23:LU:100:LEU:HD11	1.80	0.61
25:LW:96:GLN:CD	25:LW:101:ARG:HD2	2.23	0.61
27:LY:34:LEU:HD23	27:LY:38:LEU:HD12	1.80	0.61
30:Lb:35:VAL:HG21	30:Lb:40:LEU:HD12	1.81	0.61
37:Li:102:ALA:CB	46:Lz:10:LEU:HG	2.30	0.61
43:Lo:21:HIS:HD2	43:Lo:72:CYS:HA	1.63	0.61
43:Lo:97:LYS:CE	43:Lo:99:ARG:HH21	2.13	0.61
46:Lz:40:ASN:HB3	46:Lz:198:TRP:H	1.64	0.61
47:S2:67:C:H5"	70:SG:170:ARG:NH1	2.15	0.61
47:S2:520:A:O2'	47:S2:825:A:N3	2.28	0.61
47:S2:582:C:H2'	47:S2:583:C:C5'	2.31	0.61
47:S2:899:U:OP2	47:S2:900:C:H5"	2.00	0.61
47:S2:957:A:H1'	47:S2:958:G:H5'	1.80	0.61
47:S2:1234:C:H2'	47:S2:1235:G:H8	1.65	0.61
47:S2:1286:G:N2	47:S2:1287:A:N1	2.49	0.61
47:S2:1458:G:N1	47:S2:1468:C:N3	2.48	0.61
48:SA:127:PRO:HA	48:SA:134:LEU:CD1	2.22	0.61
50:SD:132:LYS:HE3	50:SD:189:MET:HE2	1.81	0.61
52:SF:48:TYR:CD2	58:SQ:53:GLU:HG2	2.36	0.61
52:SF:127:ARG:CD	66:Sc:68:LEU:HD23	2.30	0.61
52:SF:165:ASN:HD21	52:SF:167:LYS:HD2	1.65	0.61
53:SH:20:GLU:HA	53:SH:23:ILE:HG12	1.81	0.61
53:SH:39:GLN:CB	53:SH:75:ILE:HD11	2.30	0.61
54:SI:146:GLN:OE1	54:SI:149:TYR:HB2	2.00	0.61
56:SL:151:THR:HG22	73:SN:133:ARG:HH21	1.64	0.61
57:SP:83:MET:CE	57:SP:86:LEU:HB2	2.30	0.61
59:SR:27:ASP:OD1	59:SR:28:PHE:N	2.33	0.61
61:ST:38:LYS:HG2	61:ST:46:ALA:CB	2.24	0.61
68:Sg:7:LEU:HD21	68:Sg:310:TRP:NE1	2.15	0.61
68:Sg:191:HIS:CE1	68:Sg:217:MET:HB3	2.35	0.61
69:SC:242:ASP:HA	69:SC:245:SER:OG	2.00	0.61
70:SG:145:PHE:CB	70:SG:148:SER:HB2	2.30	0.61
1:L5:1963:C:H2'	1:L5:1964:A:N9	2.15	0.61
1:L5:2063:G:OP1	9:LF:221:LYS:NZ	2.30	0.61
1:L5:2365:C:O2'	1:L5:2828:U:O2	2.17	0.61
1:L5:3637:U:C2'	1:L5:3638:G:H5'	2.29	0.61
1:L5:3714:G:C2	1:L5:3740:G:H1'	2.35	0.61
1:L5:4103:C:H4'	1:L5:4104:G:C5	2.36	0.61
1:L5:4259:C:H1'	13:LJ:23:ASN:HD22	1.64	0.61
1:L5:4368:G:N2	43:Lo:82:MET:HE1	2.16	0.61
1:L5:4759:C:H2'	1:L5:4760:G:O4'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:87:G:H1'	3:L8:88:A:OP2	2.01	0.61
8:LE:206:VAL:HG13	8:LE:256:GLN:NE2	2.16	0.61
10:LG:58:PRO:O	10:LG:61:ILE:HG12	2.00	0.61
14:LL:6:ASN:HB2	29:La:48:TYR:CE1	2.35	0.61
16:LN:140:LYS:O	16:LN:144:ARG:NH1	2.34	0.61
19:LQ:124:ASP:OD1	19:LQ:125:GLN:N	2.33	0.61
20:LR:23:TRP:HE3	20:LR:51:ILE:HD13	1.66	0.61
21:LS:154:LEU:HD22	21:LS:157:ARG:NH2	2.16	0.61
32:Ld:87:ARG:H	32:Ld:109:VAL:HG23	1.65	0.61
33:Le:20:PHE:HD2	33:Le:56:PRO:HG3	1.64	0.61
45:Lr:95:HIS:CD2	45:Lr:98:ARG:HH21	2.19	0.61
46:Lz:42:ASP:OD2	46:Lz:45:LYS:N	2.33	0.61
47:S2:339:A:H5"	47:S2:340:C:H6	1.63	0.61
47:S2:682:U:O2'	47:S2:1159:G:H4'	2.00	0.61
47:S2:1280:G:C5'	72:SM:101:ARG:HD2	2.30	0.61
47:S2:1448:A:O2'	47:S2:1449:G:O5'	2.17	0.61
47:S2:1570:G:N7	61:ST:97:LYS:NZ	2.48	0.61
48:SA:149:ASN:OD1	48:SA:150:THR:N	2.33	0.61
52:SF:165:ASN:ND2	52:SF:167:LYS:HD2	2.16	0.61
57:SP:64:LYS:HE2	57:SP:73:PRO:HG3	1.81	0.61
58:SQ:17:LYS:HD3	58:SQ:79:ALA:HB2	1.82	0.61
61:ST:124:THR:OG1	61:ST:126:GLN:HG2	1.99	0.61
62:SU:48:LEU:CB	62:SU:49:LYS:HA	2.29	0.61
64:SX:100:VAL:CG1	64:SX:125:VAL:HG23	2.16	0.61
68:Sg:106:LYS:HD3	68:Sg:127:LYS:NZ	2.16	0.61
69:SC:62:PRO:HA	69:SC:90:GLU:OE2	2.00	0.61
72:SM:96:ARG:HG2	72:SM:99:ASN:HD22	1.63	0.61
72:SM:124:ILE:HA	72:SM:127:TYR:CD2	2.36	0.61
78:Sb:36:LYS:HE3	78:Sb:80:ARG:HH22	1.66	0.61
1:L5:347:A:O2'	1:L5:348:G:H5'	2.00	0.61
1:L5:1594:C:H2'	1:L5:1595:G:C5'	2.30	0.61
1:L5:1762:C:H1'	1:L5:1763:C:C5	2.34	0.61
1:L5:2700:G:N1	1:L5:2717:G:N3	2.48	0.61
1:L5:3662:A:H4'	1:L5:3663:A:C5'	2.31	0.61
1:L5:3746:A:C5'	4:LA:244:GLY:HA3	2.30	0.61
1:L5:4688:C:O3'	11:LH:155:SER:OG	2.18	0.61
1:L5:4955:A:H2'	1:L5:4956:A:C8	2.35	0.61
2:L7:54:A:O2'	2:L7:55:A:H5'	2.01	0.61
4:LA:116:LEU:HD23	4:LA:164:ALA:HB2	1.81	0.61
5:LB:293:ILE:HG23	5:LB:294:LYS:N	2.16	0.61
7:LD:88:VAL:CG1	7:LD:240:TYR:HE1	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LD:217:ASP:O	7:LD:221:LYS:N	2.28	0.61
10:LG:29:ASN:HB3	10:LG:32:PHE:CE2	2.35	0.61
14:LL:54:PRO:O	14:LL:56:ARG:NH1	2.33	0.61
18:LP:6:LEU:HD23	18:LP:116:HIS:HD2	1.65	0.61
21:LS:45:TRP:CH2	21:LS:59:GLY:HA3	2.35	0.61
21:LS:60:GLU:HG2	21:LS:60:GLU:O	1.99	0.61
22:LT:118:GLU:HB2	22:LT:122:LYS:CD	2.29	0.61
27:LY:66:GLN:C	27:LY:67:ILE:HD13	2.24	0.61
45:Lr:107:ARG:HG3	45:Lr:108:MET:H	1.66	0.61
46:Lz:53:VAL:HG11	46:Lz:155:ILE:CG1	2.31	0.61
47:S2:146:G:O2'	47:S2:147:A:H5'	2.01	0.61
47:S2:190:G:O2'	47:S2:209:A:N6	2.32	0.61
47:S2:654:A:OP2	47:S2:655:A:O2'	2.15	0.61
47:S2:673:G:H1'	47:S2:1084:A:N3	2.15	0.61
47:S2:919:A:OP1	73:SN:20:ARG:NH1	2.33	0.61
47:S2:1001:A:O2'	47:S2:1002:U:OP2	2.16	0.61
47:S2:1195:A:O2'	47:S2:1196:A:H5'	2.00	0.61
47:S2:1283:C:O2	47:S2:1286:G:O2'	2.18	0.61
47:S2:1831:A:O2'	47:S2:1832:A:H5'	2.01	0.61
54:SI:56:ARG:HG3	54:SI:180:GLY:CA	2.29	0.61
58:SQ:62:ARG:HD2	58:SQ:96:TYR:OH	2.00	0.61
58:SQ:96:TYR:HA	58:SQ:100:VAL:HG22	1.80	0.61
67:Sd:33:LYS:HE2	67:Sd:34:TYR:CZ	2.35	0.61
68:Sg:131:LEU:HB3	68:Sg:140:TYR:O	2.00	0.61
71:SJ:29:LEU:CD2	79:Se:38:TYR:HB2	2.29	0.61
76:SY:13:MET:HG2	76:SY:22:GLN:HE21	1.63	0.61
1:L5:34:A:O5'	16:LN:83:LYS:NZ	2.33	0.61
1:L5:454:U:N3	1:L5:702:U:H2'	2.15	0.61
1:L5:975:C:N4	1:L5:976:G:C2	2.68	0.61
1:L5:1272:C:C2'	8:LE:72:LYS:HB3	2.31	0.61
1:L5:1439:C:H1'	1:L5:2125:C:H4'	1.83	0.61
1:L5:1444:G:C8	1:L5:1445:U:H5"	2.30	0.61
1:L5:1854:G:C3'	1:L5:1855:G:H5"	2.28	0.61
1:L5:3971:G:H2'	1:L5:3972:A:O4'	2.00	0.61
1:L5:4475:G:H5"	1:L5:4476:C:O5'	2.01	0.61
1:L5:4742:G:C2	1:L5:4959:U:H1'	2.36	0.61
1:L5:4897:G:O6	1:L5:4923:C:N4	2.33	0.61
4:LA:30:ARG:O	4:LA:163:ARG:NH2	2.33	0.61
4:LA:54:ARG:NH1	4:LA:58:LEU:HD21	2.16	0.61
5:LB:293:ILE:HA	5:LB:297:LYS:CB	2.31	0.61
9:LF:162:ILE:CD1	9:LF:167:ILE:HG13	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:LH:111:LEU:HD12	11:LH:127:ARG:CB	2.29	0.61
32:Ld:42:ALA:HA	32:Ld:80:VAL:CG1	2.31	0.61
36:Lh:82:ASP:OD1	36:Lh:83:LEU:HG	2.01	0.61
47:S2:62:G:C2'	47:S2:63:U:H5'	2.31	0.61
47:S2:96:C:O2'	47:S2:97:U:H5'	2.00	0.61
47:S2:162:C:H5'	70:SG:87:ARG:HH22	1.65	0.61
47:S2:343:A:O2'	47:S2:344:U:H5'	2.01	0.61
47:S2:559:G:O2'	47:S2:560:A:H5"	2.00	0.61
47:S2:1038:U:C2'	47:S2:1039:C:H5'	2.30	0.61
47:S2:1111:U:H2'	47:S2:1112:U:H6	1.65	0.61
47:S2:1706:G:O2'	47:S2:1850:A:O2'	2.18	0.61
48:SA:91:ALA:CB	48:SA:98:PRO:HD3	2.31	0.61
51:SE:57:THR:O	51:SE:61:VAL:HG23	2.00	0.61
54:SI:64:ASN:N	54:SI:186:ASP:OD1	2.34	0.61
56:SL:128:VAL:HG12	56:SL:140:PHE:HB3	1.82	0.61
59:SR:78:ARG:CA	59:SR:81:ARG:HE	2.14	0.61
62:SU:43:ALA:O	62:SU:47:ASN:HA	2.01	0.61
68:Sg:64:HIS:CG	68:Sg:84:ASP:HB2	2.35	0.61
68:Sg:111:VAL:HG23	68:Sg:122:SER:HA	1.81	0.61
69:SC:129:ALA:HB2	69:SC:139:LEU:HD13	1.83	0.61
69:SC:233:LEU:O	69:SC:233:LEU:HD23	2.01	0.61
71:SJ:54:ARG:NH2	71:SJ:98:LEU:O	2.33	0.61
72:SM:50:CYS:SG	72:SM:74:ILE:HG12	2.41	0.61
72:SM:63:LYS:O	72:SM:66:GLU:HG2	1.99	0.61
74:SO:76:LEU:HD12	74:SO:77:ALA:N	2.15	0.61
80:Sf:97:LYS:HB3	80:Sf:99:LYS:HG2	1.83	0.61
1:L5:1256:G:H2'	1:L5:1257:A:O4'	2.00	0.61
1:L5:1631:A:H8	4:LA:199:VAL:HG11	1.64	0.61
1:L5:2437:C:OP2	1:L5:2528:G:O2'	2.18	0.61
1:L5:2839:U:O4	1:L5:2840:A:N6	2.33	0.61
1:L5:4084:G:O6	4:LA:72:ARG:NH2	2.34	0.61
1:L5:4244:A:H2'	1:L5:4245:G:O4'	2.00	0.61
1:L5:4314:C:OP1	22:LT:69:GLN:HB2	2.00	0.61
1:L5:4946:U:H2'	1:L5:4947:U:H5'	1.83	0.61
2:L7:3:C:H42	2:L7:116:G:H1	1.47	0.61
2:L7:34:C:H2'	2:L7:35:U:C6	2.36	0.61
4:LA:142:GLU:O	4:LA:143:THR:OG1	2.16	0.61
9:LF:52:GLU:HA	9:LF:55:LYS:HB3	1.82	0.61
9:LF:162:ILE:O	9:LF:164:LYS:N	2.34	0.61
18:LP:145:HIS:O	18:LP:146:ILE:HD13	1.99	0.61
19:LQ:180:ARG:HG3	29:La:50:PRO:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:LR:134:ASN:OD1	20:LR:135:LYS:N	2.33	0.61
22:LT:91:VAL:HG11	22:LT:96:ILE:HG23	1.82	0.61
26:LX:127:LEU:C	26:LX:127:LEU:HD12	2.25	0.61
31:Lc:79:ILE:HD11	44:Lp:43:GLY:O	2.00	0.61
32:Ld:46:LEU:O	32:Ld:50:ARG:HG2	1.99	0.61
43:Lo:66:ILE:HD11	43:Lo:88:CYS:SG	2.41	0.61
43:Lo:105:GLN:HG3	43:Lo:106:PHE:N	2.13	0.61
47:S2:78:C:O2	70:SG:175:LYS:NZ	2.34	0.61
47:S2:498:C:O2	47:S2:505:G:N1	2.34	0.61
47:S2:584:G:O6	47:S2:585:C:N4	2.33	0.61
47:S2:1528:G:N2	47:S2:1529:C:H1'	2.15	0.61
47:S2:1541:G:O2'	61:ST:15:VAL:HG21	2.00	0.61
49:SB:46:LYS:HD2	74:SO:19:PRO:HB2	1.80	0.61
50:SD:35:SER:H	50:SD:99:ILE:CG2	2.13	0.61
50:SD:134:CYS:O	50:SD:153:VAL:HG23	2.01	0.61
52:SF:176:GLU:HA	52:SF:179:ASN:HD22	1.65	0.61
53:SH:172:THR:O	53:SH:176:VAL:HG23	1.99	0.61
58:SQ:23:ALA:HB1	58:SQ:69:ARG:O	2.00	0.61
58:SQ:24:HIS:NE2	58:SQ:69:ARG:HB3	2.15	0.61
70:SG:160:LYS:HB3	70:SG:172:LYS:HB3	1.81	0.61
73:SN:117:LEU:O	73:SN:120:SER:OG	2.16	0.61
75:SW:42:MET:HB2	75:SW:47:ILE:CD1	2.23	0.61
1:L5:289:C:C2'	1:L5:290:U:H5'	2.31	0.61
1:L5:739:G:H2'	1:L5:740:G:O4'	1.99	0.61
1:L5:741:C:H2'	1:L5:742:G:O4'	2.01	0.61
1:L5:1397:A:H8	29:La:114:LYS:HD2	1.66	0.61
1:L5:1402:C:H1'	1:L5:1416:G:H22	1.65	0.61
1:L5:1523:A:N3	1:L5:4389:C:O2'	2.29	0.61
1:L5:1561:G:C2'	1:L5:1562:G:H5'	2.30	0.61
1:L5:1668:A:OP2	1:L5:2280:G:N2	2.28	0.61
1:L5:1809:C:H2'	1:L5:1810:G:H8	1.66	0.61
1:L5:1811:G:N3	30:Lb:57:MET:HE1	2.14	0.61
1:L5:1914:C:O2	1:L5:2050:G:N2	2.34	0.61
1:L5:1982:G:N1	1:L5:1987:C:O2	2.34	0.61
1:L5:2835:A:H2'	1:L5:2836:A:H5'	1.83	0.61
1:L5:2904:U:H5"	1:L5:2905:C:OP2	2.01	0.61
1:L5:3632:C:O2'	1:L5:3633:C:H5'	2.01	0.61
1:L5:3844:U:H2'	1:L5:3845:A:O4'	2.01	0.61
1:L5:3946:G:O2'	1:L5:3947:A:H5"	2.01	0.61
1:L5:4089:G:H2'	1:L5:4090:G:C8	2.35	0.61
1:L5:4508:C:H2'	1:L5:4509:U:C6	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4864:U:H2'	1:L5:4865:C:C6	2.36	0.61
3:L8:82:A:H62	3:L8:84:A:C3'	2.14	0.61
8:LE:50:LEU:HD12	8:LE:51:VAL:N	2.16	0.61
14:LL:108:GLU:OE1	37:Li:17:VAL:HG13	2.00	0.61
20:LR:69:ALA:HB1	20:LR:74:ARG:HG3	1.83	0.61
47:S2:1016:U:H5'	73:SN:16:LEU:HA	1.82	0.61
47:S2:1096:G:N2	47:S2:1137:U:O2	2.34	0.61
47:S2:1285:G:OP2	72:SM:35:ILE:HG12	2.01	0.61
47:S2:1513:C:OP1	67:Sd:9:SER:HA	2.00	0.61
47:S2:1604:G:C2'	47:S2:1605:G:H5'	2.30	0.61
47:S2:1711:U:H3'	47:S2:1711:U:H6	1.66	0.61
47:S2:1745:A:H2'	70:SG:65:GLN:HE21	1.66	0.61
49:SB:27:LYS:HA	49:SB:51:ARG:NH2	2.16	0.61
49:SB:182:LYS:CD	49:SB:231:LEU:HA	2.29	0.61
51:SE:18:TRP:NE1	51:SE:43:PRO:HD2	2.14	0.61
51:SE:184:THR:OG1	51:SE:224:ASN:HA	2.00	0.61
54:SI:141:ARG:HD2	54:SI:145:ILE:HD11	1.83	0.61
55:SK:51:SER:HA	55:SK:54:SER:OG	2.00	0.61
57:SP:93:MET:HG3	57:SP:102:PHE:HB2	1.82	0.61
60:SS:102:GLY:HA2	60:SS:105:ASN:ND2	2.10	0.61
64:SX:54:LYS:HB3	79:Se:6:LEU:HD21	1.83	0.61
68:Sg:8:ARG:HB2	68:Sg:309:VAL:HG23	1.83	0.61
68:Sg:68:ASP:HB2	68:Sg:110:SER:HA	1.82	0.61
68:Sg:79:LEU:HD11	68:Sg:113:PHE:HB2	1.82	0.61
68:Sg:127:LYS:HZ2	68:Sg:150:TRP:CD1	2.19	0.61
68:Sg:152:SER:HB2	68:Sg:168:CYS:SG	2.40	0.61
73:SN:62:GLN:HB3	73:SN:65:PHE:CD2	2.36	0.61
1:L5:140:G:O2'	1:L5:141:C:H5'	2.00	0.61
1:L5:368:C:H1'	6:LC:83:GLY:H	1.65	0.61
1:L5:430:G:O2'	1:L5:431:G:H5"	2.00	0.61
1:L5:960:A:H4'	1:L5:961:G:OP2	2.01	0.61
1:L5:1251:C:H2'	1:L5:1252:C:O4'	2.00	0.61
1:L5:1390:G:N2	1:L5:1393:G:OP2	2.33	0.61
1:L5:1551:C:H41	1:L5:1552:G:N2	1.98	0.61
1:L5:2762:G:O2'	1:L5:2763:U:H5"	2.01	0.61
1:L5:3662:A:H4'	1:L5:3663:A:O5'	2.00	0.61
1:L5:4097:G:H5"	35:Lg:115:LYS:CE	2.29	0.61
1:L5:4120:U:H3'	1:L5:4121:G:C5'	2.31	0.61
1:L5:4526:U:H4'	5:LB:243:LYS:CD	2.30	0.61
1:L5:4907:G:H2'	1:L5:4908:G:C8	2.35	0.61
5:LB:370:THR:OG1	5:LB:380:GLN:OE1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LC:60:HIS:HE1	6:LC:100:ARG:HD3	1.66	0.61
6:LC:336:ARG:O	6:LC:339:THR:HG22	2.00	0.61
8:LE:147:GLY:HA3	8:LE:201:ILE:O	2.01	0.61
14:LL:104:ASN:CB	14:LL:110:LEU:HD12	2.31	0.61
15:LM:29:ASP:O	15:LM:37:LEU:N	2.34	0.61
18:LP:113:VAL:HG11	18:LP:153:LYS:CD	2.31	0.61
20:LR:109:TYR:OH	20:LR:139:MET:SD	2.58	0.61
20:LR:179:ALA:O	20:LR:182:GLU:HB2	2.00	0.61
23:LU:103:VAL:HG11	23:LU:113:ARG:HH11	1.66	0.61
27:LY:22:PRO:HD2	27:LY:25:ILE:HD12	1.83	0.61
27:LY:50:ARG:HH12	27:LY:51:LYS:HB3	1.64	0.61
28:LZ:12:LEU:CD2	28:LZ:22:LYS:HA	2.31	0.61
38:Lj:31:LYS:HE3	38:Lj:33:THR:CG2	2.30	0.61
38:Lj:44:LYS:HG2	38:Lj:45:ARG:N	2.15	0.61
39:Lk:40:ARG:NH1	39:Lk:41:TYR:OH	2.34	0.61
45:Lr:107:ARG:HG3	45:Lr:108:MET:N	2.15	0.61
47:S2:346:C:OP1	51:SE:38:LEU:N	2.25	0.61
47:S2:492:C:H42	47:S2:508:A:H62	1.48	0.61
47:S2:859:G:C2'	47:S2:860:G:H5'	2.31	0.61
47:S2:963:A:P	74:SO:65:ASP:HB3	2.41	0.61
47:S2:1266:C:H2'	47:S2:1267:C:H5'	1.82	0.61
47:S2:1271:C:C2'	47:S2:1272:C:H4'	2.30	0.61
47:S2:1627:C:H4'	61:ST:41:LYS:HD3	1.82	0.61
47:S2:1642:U:C2'	47:S2:1643:U:H5'	2.31	0.61
47:S2:1658:G:O6	47:S2:1666:C:N4	2.33	0.61
48:SA:63:ARG:HA	48:SA:185:MET:HE1	1.81	0.61
50:SD:7:LYS:CE	62:SU:25:THR:HB	2.31	0.61
51:SE:129:ILE:HD13	51:SE:139:LEU:HA	1.82	0.61
51:SE:195:ILE:O	51:SE:197:ASN:N	2.34	0.61
52:SF:100:ILE:HG23	52:SF:103:LEU:HD23	1.83	0.61
52:SF:194:ASP:CA	52:SF:197:GLU:HG2	2.27	0.61
59:SR:65:PRO:HB3	59:SR:73:LEU:HD23	1.81	0.61
72:SM:67:ALA:HB2	80:Sf:112:GLY:HA2	1.82	0.61
72:SM:96:ARG:CG	72:SM:99:ASN:HA	2.31	0.61
73:SN:37:ILE:HG22	73:SN:75:LEU:HD13	1.83	0.61
1:L5:90:G:OP2	43:Lo:40:ARG:NH2	2.34	0.61
1:L5:472:C:H2'	1:L5:473:C:C6	2.36	0.61
1:L5:687:U:H5'	8:LE:94:LYS:NZ	2.15	0.61
1:L5:720:G:C2'	1:L5:721:G:H5'	2.31	0.61
1:L5:977:C:OP2	8:LE:62:MET:HE2	1.99	0.61
1:L5:993:G:N1	1:L5:1051:G:OP1	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1206:C:H2'	1:L5:1207:C:C6	2.35	0.61
1:L5:1814:C:O2'	1:L5:1815:G:H2'	2.01	0.61
1:L5:1962:A:C5	1:L5:2025:A:H2	2.19	0.61
1:L5:2793:G:H3'	1:L5:2794:C:H5'	1.83	0.61
1:L5:4246:G:H1	1:L5:4262:C:H42	1.48	0.61
1:L5:5004:C:OP2	25:LW:35:LYS:NZ	2.25	0.61
2:L7:31:G:C2'	2:L7:32:A:H5'	2.31	0.61
2:L7:75:G:H5'	21:LS:50:GLN:HA	1.81	0.61
4:LA:83:HIS:CB	44:Lp:64:VAL:HG22	2.31	0.61
6:LC:156:ASP:OD1	6:LC:254:GLU:HB3	2.00	0.61
8:LE:140:LEU:HD11	8:LE:144:ILE:CD1	2.31	0.61
16:LN:184:ILE:HG23	16:LN:194:ARG:NH1	2.15	0.61
20:LR:99:MET:HE1	20:LR:127:VAL:HG12	1.83	0.61
24:LV:91:LYS:O	24:LV:93:GLY:N	2.32	0.61
26:LX:100:VAL:HG12	26:LX:101:ASP:N	2.15	0.61
27:LY:79:VAL:HG22	27:LY:80:ILE:N	2.16	0.61
28:LZ:73:LYS:HD2	28:LZ:75:TYR:CZ	2.36	0.61
29:La:37:GLY:O	29:La:42:ARG:HA	2.00	0.61
31:Lc:31:TYR:HE1	31:Lc:60:ILE:HD11	1.66	0.61
38:Lj:27:TYR:CD1	38:Lj:34:CYS:HB2	2.32	0.61
47:S2:54:A:H1'	47:S2:474:G:N2	2.16	0.61
47:S2:209:A:C2'	47:S2:210:U:H5'	2.30	0.61
47:S2:675:U:H3	47:S2:1030:A:H61	1.49	0.61
47:S2:692:G:N2	47:S2:693:A:N3	2.49	0.61
47:S2:1095:U:H5"	75:SW:22:LYS:NZ	2.16	0.61
47:S2:1283:C:O2'	47:S2:1287:A:H5'	2.00	0.61
47:S2:1435:C:H2'	47:S2:1438:A:N7	2.16	0.61
47:S2:1673:U:H2'	47:S2:1674:G:C5'	2.31	0.61
47:S2:1869:A:C8	49:SB:115:LYS:HG2	2.36	0.61
48:SA:76:VAL:HG22	48:SA:123:VAL:HG21	1.81	0.61
53:SH:130:LEU:HB3	53:SH:177:TYR:CD1	2.36	0.61
54:SI:103:LEU:HD23	54:SI:170:LYS:HG2	1.83	0.61
54:SI:106:SER:HB3	54:SI:169:GLY:HA2	1.81	0.61
62:SU:108:PRO:HG2	62:SU:110:VAL:HG13	1.83	0.61
64:SX:105:PHE:N	64:SX:119:ARG:O	2.31	0.61
73:SN:38:TYR:CE1	73:SN:78:LYS:HB2	2.35	0.61
78:Sb:31:TYR:HE1	78:Sb:33:MET:CG	2.13	0.61
1:L5:1175:A:H5"	7:LD:268:ARG:CZ	2.31	0.60
1:L5:2067:C:H4'	34:Lf:78:HIS:HE1	1.63	0.60
1:L5:3686:G:H2'	1:L5:3687:A:H8	1.65	0.60
1:L5:3777:G:O2'	1:L5:3815:G:O6	2.10	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4672:A:H2'	1:L5:4673:U:C6	2.36	0.60
6:LC:24:LEU:HD11	6:LC:28:PHE:CD2	2.35	0.60
7:LD:92:LEU:HD12	7:LD:92:LEU:O	2.01	0.60
8:LE:287:VAL:HG21	15:LM:104:MET:C	2.26	0.60
16:LN:47:LYS:HD3	16:LN:50:ARG:NH1	2.15	0.60
32:Ld:42:ALA:HA	32:Ld:80:VAL:HG11	1.83	0.60
36:Lh:73:TYR:CD1	36:Lh:76:LYS:HG3	2.34	0.60
38:Lj:46:LYS:O	38:Lj:46:LYS:HG3	2.01	0.60
39:Lk:61:PRO:N	39:Lk:62:PRO:HD2	2.16	0.60
47:S2:101:U:H5"	54:SI:19:LYS:CE	2.29	0.60
47:S2:841:G:O2'	47:S2:842:C:OP2	2.18	0.60
47:S2:859:G:N2	47:S2:860:G:H1'	2.16	0.60
47:S2:1211:G:H21	47:S2:1212:G:H1'	1.66	0.60
47:S2:1276:A:H2'	55:SK:54:SER:CB	2.31	0.60
47:S2:1541:G:H2'	47:S2:1542:C:H5'	1.83	0.60
47:S2:1631:U:O4	47:S2:1632:G:N2	2.32	0.60
50:SD:7:LYS:HZ1	62:SU:25:THR:HB	1.65	0.60
51:SE:137:PRO:HB2	51:SE:150:PRO:HD2	1.83	0.60
52:SF:22:LYS:HG3	52:SF:23:TRP:CA	2.31	0.60
53:SH:64:VAL:HG11	53:SH:72:PHE:CE2	2.35	0.60
56:SL:68:ILE:CG1	56:SL:143:LEU:HD21	2.23	0.60
56:SL:90:ARG:CD	56:SL:109:MET:HE3	2.31	0.60
60:SS:120:HIS:CE1	60:SS:124:ARG:HD3	2.36	0.60
61:ST:104:LEU:HD22	61:ST:121:ARG:NH2	2.15	0.60
65:Sa:36:ILE:HG13	65:Sa:78:ALA:CB	2.31	0.60
68:Sg:36:ARG:HG3	68:Sg:65:PHE:HB3	1.83	0.60
68:Sg:65:PHE:O	68:Sg:82:SER:OG	2.10	0.60
68:Sg:127:LYS:HD3	68:Sg:150:TRP:HD1	1.64	0.60
68:Sg:175:LYS:HG2	68:Sg:187:ASN:OD1	2.00	0.60
68:Sg:193:GLY:C	68:Sg:212:LYS:H	2.09	0.60
68:Sg:194:TYR:CD2	68:Sg:212:LYS:HD2	2.35	0.60
69:SC:196:ILE:HG13	69:SC:197:PRO:HD2	1.83	0.60
74:SO:100:THR:HG21	74:SO:104:ARG:NH2	2.15	0.60
1:L5:230:G:OP1	27:LY:15:ARG:NH1	2.33	0.60
1:L5:708:G:H22	1:L5:1289:C:N4	2.00	0.60
1:L5:1317:U:O2'	1:L5:1658:G:OP2	2.18	0.60
1:L5:1479:G:N7	1:L5:1487:G:N2	2.49	0.60
1:L5:1791:U:H4'	22:LT:19:PHE:CE2	2.36	0.60
1:L5:2104:G:H2'	1:L5:2105:A:H8	1.67	0.60
1:L5:2340:C:H2'	1:L5:2341:A:H5'	1.83	0.60
1:L5:2451:A:O2'	1:L5:2452:G:H5'	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2561:C:N4	1:L5:2562:G:O6	2.34	0.60
1:L5:2681:G:N2	1:L5:2682:G:H1'	2.16	0.60
1:L5:2904:U:P	1:L5:2905:C:H41	2.24	0.60
1:L5:3693:U:C2'	1:L5:3694:U:H5'	2.31	0.60
1:L5:4074:C:O2'	1:L5:4075:U:H5'	2.01	0.60
1:L5:4419:U:O2'	1:L5:4420:U:OP1	2.17	0.60
1:L5:4558:U:O2'	1:L5:4559:A:H5'	2.01	0.60
1:L5:4986:G:O2'	1:L5:4987:C:H5'	2.02	0.60
5:LB:97:ARG:NH1	5:LB:100:ARG:HD3	2.16	0.60
5:LB:234:ARG:HH11	5:LB:235:TRP:HE1	1.49	0.60
9:LF:82:TYR:HD1	22:LT:140:PHE:HD1	1.46	0.60
10:LG:117:ARG:O	10:LG:121:LYS:HG3	2.01	0.60
10:LG:147:VAL:HG12	10:LG:177:MET:HG3	1.82	0.60
11:LH:1:MET:HE1	21:LS:140:PRO:C	2.26	0.60
11:LH:18:ILE:CG2	11:LH:27:VAL:HG22	2.17	0.60
11:LH:148:GLY:HA2	11:LH:154:VAL:CG2	2.23	0.60
16:LN:116:LEU:HA	16:LN:159:ARG:HH21	1.65	0.60
18:LP:4:TYR:HE2	18:LP:16:LYS:HB2	1.66	0.60
20:LR:98:ARG:CA	20:LR:101:ILE:HD12	2.29	0.60
20:LR:104:ARG:HA	20:LR:107:ARG:NH1	2.16	0.60
21:LS:85:ASP:HB3	21:LS:90:THR:HG22	1.83	0.60
28:LZ:84:ARG:HH11	28:LZ:85:TYR:HE1	1.45	0.60
29:La:75:LEU:N	29:La:112:LEU:O	2.34	0.60
33:Le:75:ARG:HB2	33:Le:95:TYR:CE1	2.37	0.60
38:Lj:67:LEU:O	38:Lj:70:VAL:HG12	2.01	0.60
39:Lk:31:ASN:HB3	39:Lk:48:THR:HG22	1.81	0.60
43:Lo:66:ILE:CG1	43:Lo:88:CYS:SG	2.89	0.60
47:S2:163:U:OP1	70:SG:95:LYS:NZ	2.34	0.60
47:S2:206:G:N2	47:S2:207:G:H1'	2.16	0.60
47:S2:1410:C:O2'	47:S2:1411:G:H5'	2.02	0.60
47:S2:1433:C:H2'	47:S2:1434:C:C5	2.34	0.60
47:S2:1823:A:H1'	47:S2:1824:A:OP2	2.01	0.60
48:SA:6:ASP:HA	48:SA:9:GLN:HG2	1.81	0.60
49:SB:24:PRO:O	49:SB:28:LYS:HE3	2.01	0.60
50:SD:106:ARG:HG2	50:SD:110:LEU:CG	2.31	0.60
58:SQ:41:MET:O	58:SQ:48:GLN:NE2	2.34	0.60
58:SQ:109:LYS:HA	58:SQ:112:LEU:HD12	1.82	0.60
59:SR:24:LEU:O	59:SR:58:MET:HE1	1.99	0.60
59:SR:116:ASN:O	59:SR:117:LEU:HD12	2.00	0.60
60:SS:48:ALA:HB3	60:SS:50:ILE:CG1	2.23	0.60
61:ST:6:VAL:HG23	61:ST:14:PHE:HZ	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Sa:43:ASN:HB3	65:Sa:64:LEU:HD21	1.83	0.60
65:Sa:46:GLU:OE1	65:Sa:47:ALA:N	2.34	0.60
67:Sd:6:LEU:HB3	67:Sd:7:TYR:HB3	1.81	0.60
68:Sg:289:LEU:CD2	68:Sg:298:LEU:HD11	2.25	0.60
69:SC:179:THR:OG1	69:SC:180:VAL:N	2.33	0.60
76:SY:6:THR:HG22	76:SY:7:ILE:N	2.17	0.60
80:Sf:97:LYS:HE3	80:Sf:99:LYS:HE2	1.83	0.60
1:L5:253:G:C2'	1:L5:254:G:H5'	2.31	0.60
1:L5:282:C:C2'	1:L5:283:G:H5'	2.31	0.60
1:L5:682:G:C2'	1:L5:683:C:H5'	2.29	0.60
1:L5:1169:G:O6	1:L5:1192:C:N4	2.32	0.60
1:L5:1372:A:H4'	6:LC:48:ASN:HB3	1.82	0.60
1:L5:1420:A:H4'	1:L5:1421:G:H5'	1.82	0.60
1:L5:1970:A:O2'	1:L5:2018:C:N4	2.34	0.60
1:L5:2745:A:H2'	1:L5:2746:A:C8	2.36	0.60
1:L5:2835:A:C2'	1:L5:2836:A:H5'	2.32	0.60
1:L5:4894:A:H5'	1:L5:4895:C:OP2	2.02	0.60
1:L5:4960:G:H1	1:L5:4962:C:N4	1.99	0.60
1:L5:5000:G:C2'	1:L5:5001:U:H5'	2.31	0.60
1:L5:5036:C:C2'	1:L5:5037:U:H5'	2.31	0.60
13:LJ:26:VAL:CG2	13:LJ:32:ARG:HH12	2.14	0.60
14:LL:36:ARG:O	14:LL:40:GLN:N	2.34	0.60
26:LX:78:LYS:HG3	26:LX:79:PHE:H	1.65	0.60
28:LZ:73:LYS:HD2	28:LZ:75:TYR:CE1	2.36	0.60
31:Lc:74:TYR:CD2	31:Lc:81:LEU:HD13	2.36	0.60
36:Lh:4:ILE:HG22	36:Lh:5:LYS:O	2.00	0.60
47:S2:380:G:N1	47:S2:383:G:OP2	2.29	0.60
47:S2:398:A:H4'	47:S2:399:C:H5'	1.83	0.60
47:S2:1446:A:H5'	62:SU:57:PRO:HA	1.82	0.60
47:S2:1540:G:H1	47:S2:1593:C:H42	1.48	0.60
47:S2:1623:A:C3'	47:S2:1624:U:H5"	2.31	0.60
48:SA:122:LEU:HD23	48:SA:123:VAL:N	2.16	0.60
50:SD:29:LEU:HD22	50:SD:32:ASP:OD2	2.01	0.60
51:SE:48:LEU:CD2	51:SE:64:ILE:HD11	2.31	0.60
54:SI:141:ARG:HD3	54:SI:144:LYS:HD2	1.83	0.60
55:SK:6:LYS:HA	55:SK:9:ILE:CG2	2.30	0.60
60:SS:48:ALA:HB2	60:SS:66:ARG:HD2	1.83	0.60
68:Sg:68:ASP:OD1	68:Sg:69:VAL:N	2.35	0.60
68:Sg:270:LEU:HD13	68:Sg:310:TRP:CD1	2.36	0.60
68:Sg:297:THR:HA	68:Sg:311:GLN:HG3	1.82	0.60
69:SC:102:LEU:HD12	69:SC:159:LYS:HE3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:146:G:O2'	1:L5:147:A:H5'	2.00	0.60
1:L5:458:C:H42	1:L5:698:G:H22	1.49	0.60
1:L5:1430:C:OP1	19:LQ:134:CYS:HB2	2.01	0.60
1:L5:1532:G:N2	1:L5:1636:U:O2'	2.34	0.60
1:L5:2030:A:H2'	1:L5:2031:C:H6	1.65	0.60
1:L5:2322:G:C2'	1:L5:2323:C:H5'	2.31	0.60
1:L5:2618:G:N2	1:L5:2720:C:H1'	2.17	0.60
1:L5:3930:U:H2'	1:L5:3931:C:C6	2.36	0.60
1:L5:4046:A:OP1	1:L5:4046:A:H3'	2.01	0.60
1:L5:4307:A:H4'	19:LQ:186:TYR:CG	2.35	0.60
1:L5:4370:G:C2	81:L5:5101:3HE:H18	2.35	0.60
1:L5:4558:U:OP2	5:LB:246:ARG:NH2	2.34	0.60
1:L5:4750:G:H22	34:Lf:52:LYS:HD2	1.67	0.60
1:L5:4764:A:OP1	11:LH:23:ARG:NE	2.34	0.60
1:L5:4887:C:O2'	1:L5:4888:U:O4'	2.20	0.60
1:L5:4927:G:H2'	15:LM:118:MET:SD	2.41	0.60
5:LB:87:VAL:HG21	5:LB:110:ILE:CG1	2.31	0.60
5:LB:185:VAL:HB	5:LB:193:LYS:HD3	1.83	0.60
6:LC:8:ILE:CD1	6:LC:22:VAL:HB	2.32	0.60
6:LC:232:VAL:HG22	6:LC:233:SER:H	1.65	0.60
8:LE:162:VAL:CG1	8:LE:175:VAL:HB	2.32	0.60
9:LF:169:LEU:HD11	9:LF:187:MET:HE3	1.83	0.60
11:LH:126:VAL:HG11	11:LH:161:ILE:HG22	1.84	0.60
14:LL:206:ASP:O	14:LL:209:LYS:HB2	2.01	0.60
15:LM:33:GLN:HG3	15:LM:34:ASN:CG	2.26	0.60
17:LO:100:ASP:OD1	17:LO:101:ARG:HG3	2.01	0.60
20:LR:134:ASN:OD1	20:LR:137:ILE:HG22	2.01	0.60
26:LX:127:LEU:HD11	26:LX:135:LYS:HD3	1.83	0.60
32:Ld:66:THR:O	32:Ld:69:ASN:HB3	2.02	0.60
47:S2:208:G:H5'	47:S2:209:A:OP1	2.01	0.60
47:S2:637:U:OP1	79:Se:24:LYS:NZ	2.33	0.60
47:S2:926:A:N6	47:S2:1017:U:O4	2.34	0.60
47:S2:1074:C:C2'	47:S2:1075:C:H5'	2.31	0.60
47:S2:1276:A:N6	47:S2:1322:G:H1'	2.16	0.60
47:S2:1345:G:H2'	47:S2:1345:G:N3	2.16	0.60
47:S2:1464:C:H4'	59:SR:60:ARG:HH22	1.66	0.60
47:S2:1500:G:H2'	47:S2:1501:C:C6	2.37	0.60
47:S2:1545:A:H2	47:S2:1671:G:H1'	1.65	0.60
47:S2:1680:G:H4'	66:Sc:20:ARG:CZ	2.31	0.60
47:S2:1803:U:C2'	47:S2:1804:U:H5'	2.30	0.60
47:S2:1831:A:C2'	47:S2:1832:A:H5'	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:21:ALA:O	48:SA:170:SER:OG	2.18	0.60
48:SA:111:GLN:HB3	69:SC:89:LYS:NZ	2.16	0.60
49:SB:224:GLU:CB	49:SB:227:LYS:HE3	2.29	0.60
50:SD:6:SER:O	50:SD:10:LYS:N	2.34	0.60
52:SF:47:LYS:NZ	52:SF:52:SER:OG	2.19	0.60
53:SH:61:ILE:CG2	53:SH:93:VAL:HG12	2.30	0.60
58:SQ:31:LEU:CD2	58:SQ:33:LYS:HG2	2.28	0.60
59:SR:100:PRO:HA	59:SR:103:LYS:HB3	1.82	0.60
68:Sg:256:ILE:HG22	68:Sg:258:ILE:HD11	1.84	0.60
71:SJ:176:LYS:O	71:SJ:180:LYS:HG2	2.01	0.60
74:SO:27:VAL:HG23	74:SO:90:ILE:HA	1.83	0.60
1:L5:1:C:H4'	1:L5:2:G:O4'	2.01	0.60
1:L5:708:G:H22	1:L5:1289:C:H42	1.49	0.60
1:L5:917:A:H4'	1:L5:918:G:H21	1.66	0.60
1:L5:1217:G:H2'	1:L5:1218:G:C4	2.36	0.60
1:L5:1690:C:H5	19:LQ:13:VAL:HG11	1.66	0.60
1:L5:2104:G:H2'	1:L5:2105:A:C8	2.36	0.60
1:L5:2609:G:H2'	1:L5:2610:G:C8	2.34	0.60
1:L5:2817:C:H2'	1:L5:2818:C:H5'	1.84	0.60
1:L5:3935:C:H2'	1:L5:3936:A:H5'	1.82	0.60
1:L5:4661:G:N2	1:L5:5004:C:O3'	2.35	0.60
3:L8:86:U:H4'	3:L8:87:G:OP2	2.01	0.60
3:L8:108:A:H2'	3:L8:108:A:N3	2.17	0.60
6:LC:8:ILE:HD11	6:LC:22:VAL:HB	1.84	0.60
8:LE:176:THR:OG1	8:LE:186:LEU:HD23	2.00	0.60
9:LF:190:LEU:O	9:LF:194:ILE:HG12	2.01	0.60
17:LO:160:ARG:HA	17:LO:163:LYS:HG2	1.84	0.60
21:LS:45:TRP:HH2	21:LS:59:GLY:HA3	1.66	0.60
25:LW:98:PRO:HG2	25:LW:99:GLU:H	1.67	0.60
27:LY:27:ARG:HD3	27:LY:75:ARG:HH22	1.65	0.60
31:Lc:47:ILE:O	31:Lc:93:THR:HG23	2.02	0.60
33:Le:108:ARG:HD3	33:Le:127:ALA:HB3	1.84	0.60
47:S2:880:G:C8	47:S2:881:G:H4'	2.37	0.60
47:S2:1065:G:H2'	47:S2:1066:U:H6	1.64	0.60
47:S2:1325:G:H5"	47:S2:1326:U:OP1	2.00	0.60
47:S2:1380:C:C1'	48:SA:113:GLN:HE21	2.15	0.60
47:S2:1562:C:H2'	47:S2:1563:G:O4'	2.02	0.60
47:S2:1654:G:O2'	47:S2:1655:C:H5'	2.02	0.60
47:S2:1683:C:H2'	47:S2:1684:C:C6	2.37	0.60
48:SA:8:LEU:HD13	48:SA:59:LEU:HD13	1.82	0.60
48:SA:203:PHE:HB3	48:SA:205:ARG:HH12	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:SF:21:GLY:HA2	52:SF:48:TYR:CD1	2.32	0.60
52:SF:127:ARG:HB2	52:SF:137:GLN:HB2	1.82	0.60
56:SL:25:LEU:HD12	56:SL:26:GLY:N	2.17	0.60
58:SQ:34:VAL:O	58:SQ:36:GLY:N	2.33	0.60
58:SQ:41:MET:CA	58:SQ:43:GLU:HG3	2.31	0.60
59:SR:11:LYS:O	59:SR:15:VAL:HG23	2.02	0.60
60:SS:16:LEU:HD21	60:SS:100:ALA:CB	2.31	0.60
68:Sg:205:SER:HB2	68:Sg:222:ASN:ND2	2.16	0.60
68:Sg:242:SER:HB2	68:Sg:246:TYR:O	2.01	0.60
68:Sg:258:ILE:CG2	68:Sg:268:ASP:H	2.10	0.60
69:SC:196:ILE:HG22	69:SC:223:TYR:HB2	1.84	0.60
71:SJ:78:LEU:HD22	71:SJ:92:MET:O	2.02	0.60
73:SN:22:VAL:CG1	73:SN:66:VAL:HG22	2.32	0.60
1:L5:173:C:H2'	1:L5:174:C:H6	1.67	0.60
1:L5:297:U:H2'	1:L5:298:G:H8	1.66	0.60
1:L5:326:C:OP2	37:Li:28:ARG:NH2	2.35	0.60
1:L5:404:U:C2'	1:L5:405:U:H5'	2.31	0.60
1:L5:1367:C:O2'	1:L5:1369:C:OP2	2.20	0.60
1:L5:1464:C:H5"	30:Lb:32:LEU:HD12	1.84	0.60
1:L5:2478:C:N4	1:L5:2500:U:H3	1.99	0.60
1:L5:2598:A:H2'	1:L5:2599:G:O4'	2.02	0.60
1:L5:3607:U:H2'	1:L5:3608:A:C8	2.35	0.60
1:L5:3848:U:H2'	1:L5:3849:A:C8	2.36	0.60
1:L5:4127:A:H2	10:LG:36:PRO:HA	1.66	0.60
1:L5:4433:G:H5"	12:LI:7:ARG:HH22	1.64	0.60
7:LD:217:ASP:OD1	7:LD:218:ALA:N	2.34	0.60
8:LE:228:GLN:O	8:LE:230:GLY:N	2.34	0.60
18:LP:92:LEU:O	18:LP:96:LYS:HG2	2.02	0.60
20:LR:63:CYS:O	20:LR:67:THR:HG23	2.01	0.60
21:LS:159:LEU:O	21:LS:159:LEU:HD12	2.02	0.60
29:La:90:ALA:HA	29:La:93:ASN:OD1	2.01	0.60
33:Le:90:MET:HG2	45:Lr:33:LYS:CG	2.29	0.60
39:Lk:49:ASP:HB3	39:Lk:52:LYS:CE	2.30	0.60
45:Lr:92:SER:O	45:Lr:96:MET:HG3	2.01	0.60
46:Lz:39:LYS:NZ	46:Lz:202:ARG:HH12	1.99	0.60
46:Lz:120:ILE:CD1	46:Lz:124:LEU:HD22	2.31	0.60
47:S2:691:G:N2	53:SH:180:LEU:O	2.35	0.60
47:S2:692:G:H1'	47:S2:739:C:C2	2.36	0.60
47:S2:752:G:H2'	47:S2:752:G:N3	2.15	0.60
47:S2:808:A:H62	47:S2:809:A:H2	1.48	0.60
47:S2:939:U:H5'	47:S2:940:U:OP2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:951:C:C2'	47:S2:952:G:H5'	2.32	0.60
47:S2:1230:C:H2'	47:S2:1231:C:C6	2.36	0.60
47:S2:1272:C:O2	47:S2:1510:G:N2	2.35	0.60
48:SA:97:THR:HB	48:SA:117:ARG:NH2	2.16	0.60
49:SB:146:ARG:HD3	49:SB:147:ASN:H	1.65	0.60
54:SI:62:VAL:HG12	54:SI:77:ARG:CB	2.32	0.60
59:SR:130:THR:HA	59:SR:132:ARG:H	1.65	0.60
61:ST:73:GLY:CA	61:ST:76:THR:HG22	2.31	0.60
74:SO:13:GLN:NE2	74:SO:14:VAL:HG22	2.16	0.60
76:SY:91:LEU:HG	76:SY:96:LEU:CD2	2.31	0.60
1:L5:26:C:O2'	1:L5:338:A:O2'	2.19	0.60
1:L5:108:A:H4'	1:L5:109:G:OP1	2.00	0.60
1:L5:115:C:H5	1:L5:116:G:C4	2.20	0.60
1:L5:265:C:H4'	1:L5:266:C:OP1	2.01	0.60
1:L5:2327:G:H2'	1:L5:2327:G:N3	2.15	0.60
1:L5:2697:A:H2'	1:L5:2698:G:H5'	1.84	0.60
1:L5:2822:G:H5'	20:LR:18:GLY:HA3	1.84	0.60
1:L5:2897:G:OP1	20:LR:101:ILE:HG21	2.01	0.60
1:L5:3627:G:O2'	1:L5:3628:G:H5'	2.02	0.60
1:L5:3685:C:H5"	4:LA:193:ARG:NH1	2.16	0.60
1:L5:3853:U:O2'	1:L5:4979:A:N3	2.34	0.60
1:L5:4265:U:O4	7:LD:19:LYS:HE3	2.02	0.60
3:L8:96:C:O2'	3:L8:97:A:H5'	2.01	0.60
6:LC:76:ILE:CG1	6:LC:77:PRO:HD2	2.32	0.60
6:LC:179:ASP:O	6:LC:182:LYS:N	2.30	0.60
8:LE:287:VAL:HG23	15:LM:109:ARG:NH1	2.11	0.60
10:LG:215:LEU:CD1	10:LG:218:LEU:HD12	2.32	0.60
15:LM:62:LEU:O	15:LM:63:LYS:HD3	2.01	0.60
17:LO:178:ARG:O	17:LO:182:GLU:HB2	2.02	0.60
46:Lz:204:LEU:HD23	46:Lz:206:ILE:HB	1.84	0.60
47:S2:1346:U:H2'	47:S2:1347:U:H6	1.65	0.60
47:S2:1545:A:H4'	58:SQ:75:GLY:O	2.02	0.60
47:S2:1578:U:H1'	50:SD:6:SER:OG	2.02	0.60
47:S2:1597:C:C5'	77:SZ:85:ARG:HH11	2.14	0.60
48:SA:180:ARG:HD2	48:SA:184:ARG:NH2	2.17	0.60
51:SE:191:ARG:O	51:SE:192:ILE:HD13	2.01	0.60
52:SF:39:ILE:CG1	52:SF:147:VAL:HG21	2.31	0.60
55:SK:42:ASN:O	55:SK:45:VAL:HG22	2.01	0.60
58:SQ:43:GLU:HG2	58:SQ:48:GLN:HG3	1.83	0.60
64:SX:9:THR:O	64:SX:11:ARG:N	2.35	0.60
65:Sa:26:CYS:O	74:SO:148:GLY:HA3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:19:THR:HA	68:Sg:287:THR:HG21	1.84	0.60
68:Sg:40:ILE:O	68:Sg:59:LEU:N	2.30	0.60
68:Sg:290:ALA:HB3	68:Sg:299:PHE:CD2	2.37	0.60
70:SG:68:LEU:O	70:SG:69:THR:OG1	2.16	0.60
1:L5:197:A:N6	1:L5:198:A:N1	2.50	0.60
1:L5:1592:G:H2'	1:L5:1593:A:H5'	1.83	0.60
1:L5:1819:G:O4'	7:LD:142:PHE:HB3	2.02	0.60
1:L5:1861:U:H2'	1:L5:1862:U:H5'	1.84	0.60
1:L5:2263:A:O5'	45:Lr:39:ARG:NH1	2.34	0.60
1:L5:3693:U:H2'	1:L5:3694:U:H5'	1.83	0.60
1:L5:3971:G:O2'	1:L5:3973:G:O4'	2.18	0.60
1:L5:4422:A:H2'	1:L5:4423:U:O2	2.01	0.60
1:L5:4584:A:H1'	1:L5:4719:G:C2	2.37	0.60
3:L8:148:A:C2'	3:L8:149:G:H5'	2.31	0.60
4:LA:42:LYS:HA	4:LA:89:TYR:CD1	2.37	0.60
5:LB:219:VAL:HG23	5:LB:345:LEU:HD13	1.83	0.60
7:LD:163:LEU:HD11	7:LD:173:ILE:CG2	2.30	0.60
7:LD:280:VAL:CB	7:LD:284:LYS:HE3	2.32	0.60
8:LE:47:ASN:HA	8:LE:65:ARG:HH12	1.65	0.60
8:LE:162:VAL:HG22	8:LE:184:VAL:HG11	1.82	0.60
11:LH:66:GLU:O	11:LH:69:THR:HG22	2.01	0.60
16:LN:59:TYR:CE2	16:LN:135:ILE:HD11	2.37	0.60
20:LR:115:ILE:HA	20:LR:119:MET:CE	2.32	0.60
24:LV:112:MET:HE1	24:LV:117:ILE:HG13	1.84	0.60
25:LW:101:ARG:HG2	25:LW:105:ARG:HH11	1.67	0.60
28:LZ:3:LYS:HE2	31:Lc:40:GLN:O	2.02	0.60
29:La:5:LEU:HD23	29:La:5:LEU:O	2.00	0.60
34:Lf:40:GLU:N	34:Lf:40:GLU:OE1	2.34	0.60
47:S2:75:G:N3	70:SG:159:ARG:HD3	2.17	0.60
47:S2:120:U:O2	51:SE:34:GLY:HA2	2.00	0.60
47:S2:338:G:H2'	47:S2:339:A:C2	2.36	0.60
47:S2:435:A:OP1	54:SI:23:LYS:NZ	2.34	0.60
47:S2:813:A:H4'	51:SE:22:LYS:HD2	1.84	0.60
47:S2:1317:C:H3'	47:S2:1318:G:H5"	1.84	0.60
47:S2:1453:C:N4	47:S2:1475:G:H1	1.99	0.60
47:S2:1672:U:H5"	58:SQ:17:LYS:CE	2.31	0.60
48:SA:203:PHE:HE2	59:SR:91:LEU:HD11	1.64	0.60
49:SB:25:PHE:HA	49:SB:28:LYS:HG2	1.83	0.60
51:SE:238:LEU:HB2	51:SE:239:PRO:HD2	1.83	0.60
52:SF:48:TYR:HB3	58:SQ:49:TYR:HE2	1.65	0.60
66:Sc:18:LEU:CD2	66:Sc:66:ARG:HH12	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:11:LEU:HD11	68:Sg:43:TRP:CH2	2.36	0.60
68:Sg:44:LYS:HD3	68:Sg:54:ILE:HG23	1.83	0.60
70:SG:117:GLY:CA	70:SG:121:ILE:HD11	2.31	0.60
70:SG:119:LYS:O	70:SG:121:ILE:HD12	2.01	0.60
73:SN:88:LEU:HB2	73:SN:125:LEU:CD2	2.31	0.60
78:Sb:23:ARG:HH11	78:Sb:27:SER:HG	1.50	0.60
1:L5:237:G:P	1:L5:238:C:H41	2.24	0.60
1:L5:319:A:H2'	1:L5:320:C:C6	2.37	0.60
1:L5:465:G:N2	1:L5:466:A:H1'	2.17	0.60
1:L5:976:G:OP2	8:LE:59:ARG:NE	2.34	0.60
1:L5:991:C:H3'	1:L5:992:C:C5'	2.32	0.60
1:L5:1094:G:H1'	1:L5:1203:G:H22	1.66	0.60
1:L5:1427:A:C2	19:LQ:138:LEU:HD22	2.37	0.60
1:L5:1796:U:C2'	1:L5:1797:G:H5'	2.31	0.60
1:L5:1974:U:O3'	1:L5:1975:G:H3'	2.02	0.60
1:L5:2480:G:C6	1:L5:2481:G:H1'	2.37	0.60
1:L5:2489:C:H4'	1:L5:2491:C:N4	2.16	0.60
1:L5:4596:C:H2'	1:L5:4597:U:H6	1.66	0.60
1:L5:5068:G:P	1:L5:5068:G:H2'	2.41	0.60
3:L8:68:G:H2'	3:L8:69:U:C6	2.36	0.60
4:LA:51:ASP:HB2	4:LA:58:LEU:HD12	1.84	0.60
5:LB:112:ASP:O	5:LB:115:LYS:HB2	2.01	0.60
8:LE:167:GLN:HB3	8:LE:173:LEU:HD23	1.84	0.60
14:LL:21:ARG:NH2	16:LN:192:TRP:HZ3	2.00	0.60
15:LM:33:GLN:HG3	15:LM:34:ASN:ND2	2.16	0.60
16:LN:71:ARG:HD2	16:LN:94:PHE:CD1	2.37	0.60
18:LP:18:ARG:CA	18:LP:94:MET:HE3	2.31	0.60
24:LV:29:ALA:O	24:LV:117:ILE:HA	2.02	0.60
25:LW:101:ARG:CD	25:LW:105:ARG:HD3	2.31	0.60
29:La:71:PRO:HG2	29:La:109:TYR:N	2.15	0.60
47:S2:86:C:H1'	47:S2:170:A:N1	2.17	0.60
47:S2:216:C:C2'	47:S2:217:A:H5'	2.32	0.60
47:S2:317:C:H2'	47:S2:317:C:O2	2.01	0.60
47:S2:903:A:C2	47:S2:904:A:H5"	2.37	0.60
48:SA:22:GLY:O	48:SA:24:HIS:ND1	2.35	0.60
48:SA:61:ALA:CB	48:SA:161:ILE:HD11	2.32	0.60
52:SF:109:LEU:O	52:SF:112:LEU:HB3	2.02	0.60
52:SF:140:ASP:CA	66:Sc:63:ARG:HH22	2.14	0.60
53:SH:31:GLU:OE1	53:SH:41:ARG:HG3	2.02	0.60
54:SI:62:VAL:HG12	54:SI:77:ARG:HA	1.84	0.60
54:SI:134:GLU:OE1	54:SI:137:LEU:HD21	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:31:LEU:HD21	58:SQ:33:LYS:CE	2.30	0.60
60:SS:48:ALA:CB	60:SS:50:ILE:HG23	2.31	0.60
61:ST:19:ALA:HB1	61:ST:55:THR:HG22	1.82	0.60
61:ST:103:VAL:O	61:ST:107:LEU:HD13	2.02	0.60
61:ST:116:ASP:OD2	61:ST:122:LYS:HE3	2.01	0.60
62:SU:20:ILE:CG2	62:SU:115:THR:H	2.15	0.60
62:SU:67:LYS:CD	62:SU:78:ASP:HB2	2.32	0.60
62:SU:108:PRO:HG2	62:SU:110:VAL:CG2	2.31	0.60
72:SM:24:THR:HG23	72:SM:116:LYS:N	2.16	0.60
76:SY:114:MET:HE3	76:SY:124:ASN:O	2.01	0.60
79:Se:45:VAL:HG22	79:Se:46:VAL:N	2.17	0.60
1:L5:91:G:OP2	1:L5:92:C:H5"	2.02	0.60
1:L5:324:A:O2'	1:L5:325:U:H5'	2.02	0.60
1:L5:753:C:H4'	1:L5:754:U:OP1	2.02	0.60
1:L5:1175:A:H2'	1:L5:1176:C:C6	2.36	0.60
1:L5:1930:U:OP2	17:LO:49:ARG:HD3	2.01	0.60
1:L5:4126:C:H5"	1:L5:4127:A:C5'	2.31	0.60
1:L5:4279:A:H5'	1:L5:4281:A:C1'	2.32	0.60
2:L7:113:G:O2'	2:L7:114:U:H5'	2.02	0.60
4:LA:238:ILE:O	4:LA:240:ALA:N	2.35	0.60
6:LC:332:ALA:HA	6:LC:335:MET:HB3	1.83	0.60
10:LG:63:LEU:CD1	16:LN:32:GLN:HG3	2.32	0.60
10:LG:103:ARG:HD2	10:LG:195:HIS:NE2	2.16	0.60
13:LJ:29:SER:OG	13:LJ:30:GLY:N	2.35	0.60
16:LN:121:VAL:HG22	16:LN:129:PHE:O	2.01	0.60
18:LP:129:THR:HG22	18:LP:137:ASN:O	2.02	0.60
19:LQ:106:THR:O	19:LQ:110:ARG:N	2.33	0.60
24:LV:106:VAL:HG12	24:LV:107:ASN:O	2.01	0.60
28:LZ:12:LEU:HD23	28:LZ:22:LYS:HA	1.83	0.60
46:Lz:175:THR:HG23	46:Lz:177:ASP:HB3	1.84	0.60
47:S2:39:A:H2'	47:S2:40:A:H5'	1.83	0.60
47:S2:339:A:H1'	47:S2:340:C:OP2	2.02	0.60
47:S2:453:C:O2'	70:SG:92:ARG:O	2.18	0.60
47:S2:837:A:C2	47:S2:838:G:H4'	2.37	0.60
47:S2:874:G:H4'	53:SH:111:LYS:HZ2	1.66	0.60
47:S2:1064:C:O2'	47:S2:1065:G:H5'	2.02	0.60
47:S2:1425:G:H2'	47:S2:1425:G:N3	2.16	0.60
49:SB:27:LYS:HA	49:SB:51:ARG:HH22	1.67	0.60
50:SD:53:THR:HG23	50:SD:91:VAL:HB	1.83	0.60
58:SQ:31:LEU:HD11	58:SQ:33:LYS:HB3	1.84	0.60
71:SJ:3:VAL:HG23	71:SJ:4:ALA:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:SM:40:LYS:HE2	72:SM:46:GLN:OE1	2.01	0.60
1:L5:188:G:N2	1:L5:190:G:N7	2.39	0.59
1:L5:332:C:C2'	1:L5:333:U:H5'	2.32	0.59
1:L5:364:G:H21	1:L5:375:G:H2'	1.66	0.59
1:L5:1274:A:H1'	1:L5:1275:G:C8	2.37	0.59
1:L5:1493:G:OP2	30:Lb:44:ARG:NH1	2.34	0.59
1:L5:1817:U:H3'	1:L5:1818:G:H21	1.67	0.59
1:L5:2406:G:OP2	38:Lj:14:LYS:NZ	2.34	0.59
1:L5:2565:A:H5"	1:L5:2566:G:N7	2.17	0.59
1:L5:2834:C:H4'	1:L5:2835:A:OP1	2.02	0.59
1:L5:3730:U:H6	1:L5:3730:U:H3'	1.67	0.59
1:L5:4518:A:OP1	1:L5:4520:G:O2'	2.19	0.59
1:L5:4752:U:OP1	34:Lf:100:ARG:NH2	2.35	0.59
6:LC:8:ILE:O	6:LC:22:VAL:N	2.22	0.59
7:LD:80:ALA:HA	7:LD:83:LEU:HD13	1.84	0.59
7:LD:228:LYS:O	7:LD:230:SER:N	2.30	0.59
8:LE:153:LEU:HD21	8:LE:195:ILE:CD1	2.32	0.59
9:LF:81:PHE:HB3	21:LS:62:VAL:CG1	2.32	0.59
12:LI:170:LYS:HZ3	22:LT:159:MET:HE3	1.67	0.59
13:LJ:63:ARG:HD3	43:Lo:103:VAL:CG1	2.32	0.59
14:LL:77:SER:N	14:LL:80:GLU:OE2	2.24	0.59
16:LN:36:LEU:HD12	16:LN:64:ILE:HG22	1.84	0.59
18:LP:131:ARG:HD2	18:LP:137:ASN:OD1	2.01	0.59
19:LQ:58:ARG:O	19:LQ:58:ARG:HG3	2.02	0.59
19:LQ:85:THR:HG22	19:LQ:104:ARG:HD3	1.84	0.59
23:LU:29:VAL:HG13	23:LU:34:MET:O	2.02	0.59
29:La:113:GLY:H	29:La:133:ALA:HB2	1.67	0.59
33:Le:77:PHE:HB2	45:Lr:23:GLN:NE2	2.17	0.59
34:Lf:8:LYS:HB3	34:Lf:100:ARG:NH1	2.17	0.59
34:Lf:50:VAL:HG12	34:Lf:69:VAL:HG11	1.84	0.59
35:Lg:74:VAL:HG12	35:Lg:80:GLY:H	1.66	0.59
45:Lr:108:MET:O	45:Lr:112:ARG:HG2	2.01	0.59
46:Lz:86:ASP:OD1	46:Lz:87:ILE:N	2.35	0.59
47:S2:125:C:H5"	47:S2:126:G:OP1	2.01	0.59
47:S2:412:G:OP2	47:S2:425:G:N2	2.23	0.59
47:S2:460:A:N3	47:S2:470:G:N2	2.50	0.59
47:S2:1233:G:O6	47:S2:1525:C:N4	2.34	0.59
49:SB:32:ASP:HB2	49:SB:95:ASN:HA	1.83	0.59
50:SD:23:GLU:CG	55:SK:64:TRP:HE1	2.10	0.59
51:SE:84:ALA:HB1	51:SE:101:LEU:CD2	2.32	0.59
63:SV:3:ASN:CG	63:SV:7:GLU:HB2	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:SX:81:ILE:HD12	64:SX:120:PHE:HD2	1.67	0.59
66:Sc:51:ARG:HB2	66:Sc:52:GLU:OE1	2.02	0.59
68:Sg:220:ASP:N	68:Sg:227:LEU:HD11	2.16	0.59
70:SG:23:LYS:HA	70:SG:41:LEU:HA	1.83	0.59
70:SG:160:LYS:HE2	70:SG:172:LYS:HG2	1.84	0.59
72:SM:48:HIS:HE1	72:SM:50:CYS:HA	1.65	0.59
72:SM:96:ARG:HD2	72:SM:100:PRO:HD3	1.83	0.59
1:L5:418:A:N6	3:L8:16:G:O2'	2.35	0.59
1:L5:423:G:O2'	18:LP:118:GLN:HB2	2.00	0.59
1:L5:1444:G:N2	1:L5:2102:G:H1	2.00	0.59
1:L5:1820:C:C5'	7:LD:139:PRO:HB3	2.31	0.59
1:L5:2081:C:O2'	1:L5:2082:G:H5'	2.03	0.59
1:L5:2667:C:O4'	20:LR:96:MET:HG3	2.02	0.59
1:L5:2706:G:N2	1:L5:2708:U:OP2	2.34	0.59
1:L5:2738:C:O2'	1:L5:2739:C:H3'	2.02	0.59
1:L5:3596:A:C5	56:SL:3:ASP:HB2	2.37	0.59
1:L5:3689:G:OP1	4:LA:202:VAL:HG13	2.03	0.59
1:L5:4230:C:O2'	1:L5:4234:A:N6	2.35	0.59
1:L5:4264:G:OP1	7:LD:8:LYS:NZ	2.31	0.59
1:L5:4633:G:H5"	1:L5:4634:U:OP1	2.02	0.59
1:L5:4699:U:H4'	1:L5:4700:A:OP1	2.02	0.59
1:L5:4883:C:C2	34:Lf:2:SER:HB3	2.37	0.59
5:LB:163:ILE:HG12	5:LB:182:GLU:CG	2.22	0.59
6:LC:35:ASP:OD1	6:LC:36:ILE:N	2.36	0.59
7:LD:163:LEU:CD1	7:LD:173:ILE:HG21	2.31	0.59
10:LG:73:ARG:HH12	10:LG:243:GLY:H	1.47	0.59
13:LJ:85:LYS:CB	13:LJ:115:LEU:HD22	2.32	0.59
14:LL:10:LEU:HA	19:LQ:168:ARG:HD3	1.84	0.59
14:LL:130:LYS:HE2	14:LL:132:SER:CB	2.31	0.59
17:LO:15:LEU:HA	17:LO:42:ASN:O	2.02	0.59
25:LW:91:MET:O	25:LW:94:ARG:HG2	2.02	0.59
27:LY:44:VAL:HG11	27:LY:47:MET:SD	2.41	0.59
29:La:125:LYS:HB3	29:La:147:VAL:HG21	1.82	0.59
47:S2:346:C:H2'	47:S2:347:G:O4'	2.01	0.59
47:S2:354:U:OP1	56:SL:107:LYS:HD2	2.02	0.59
47:S2:365:C:H2'	47:S2:365:C:O2	2.01	0.59
47:S2:642:U:O4	79:Se:33:LYS:NZ	2.17	0.59
47:S2:857:U:H2'	47:S2:858:A:O4'	2.01	0.59
47:S2:874:G:H3'	47:S2:875:A:C8	2.34	0.59
47:S2:1017:U:H6	73:SN:55:ARG:HH12	1.48	0.59
47:S2:1103:C:H2'	47:S2:1104:G:C8	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1354:G:C6	47:S2:1356:G:H5"	2.37	0.59
47:S2:1405:A:H1'	47:S2:1580:A:C2	2.36	0.59
47:S2:1558:C:N3	47:S2:1577:G:N2	2.49	0.59
47:S2:1752:C:H42	47:S2:1780:G:H1	1.50	0.59
50:SD:42:THR:HB	50:SD:43:PRO:CD	2.32	0.59
50:SD:204:LEU:N	50:SD:207:HIS:HB3	2.16	0.59
56:SL:117:PHE:O	56:SL:119:ASP:N	2.32	0.59
58:SQ:41:MET:HA	58:SQ:43:GLU:CG	2.32	0.59
60:SS:90:VAL:HG12	60:SS:91:LYS:N	2.17	0.59
61:ST:10:ASN:HB2	61:ST:13:GLU:OE2	2.02	0.59
64:SX:115:ILE:CG2	64:SX:116:PRO:HD2	2.31	0.59
65:Sa:21:ILE:HG22	65:Sa:30:VAL:O	2.02	0.59
68:Sg:135:LEU:HD11	68:Sg:137:VAL:HG23	1.83	0.59
71:SJ:32:ILE:HG23	71:SJ:37:LEU:HB2	1.84	0.59
74:SO:85:CYS:HB3	74:SO:90:ILE:HD11	1.83	0.59
77:SZ:68:ILE:N	77:SZ:109:TYR:O	2.35	0.59
1:L5:106:A:O2'	1:L5:107:G:H5'	2.02	0.59
1:L5:312:G:N1	1:L5:326:C:O2	2.34	0.59
1:L5:471:A:H2'	1:L5:472:C:H5'	1.84	0.59
1:L5:736:C:H3'	1:L5:737:C:C5'	2.32	0.59
1:L5:969:C:H4'	1:L5:970:G:OP1	2.02	0.59
1:L5:982:U:O2	8:LE:70:LYS:NZ	2.28	0.59
1:L5:1806:G:H2'	1:L5:1807:C:H6	1.67	0.59
1:L5:2005:G:H2'	1:L5:2006:U:C5	2.36	0.59
1:L5:2060:G:N2	1:L5:2061:U:H1'	2.18	0.59
1:L5:2695:A:H5"	39:Lk:26:LYS:HZ3	1.67	0.59
1:L5:2773:G:P	39:Lk:40:ARG:HB3	2.43	0.59
1:L5:5028:G:O2'	1:L5:5029:C:H5'	2.02	0.59
3:L8:154:G:OP1	10:LG:185:LYS:HE3	2.02	0.59
5:LB:141:ASP:HA	5:LB:144:LYS:CE	2.33	0.59
7:LD:288:LEU:O	7:LD:292:GLU:HG2	2.01	0.59
9:LF:40:LYS:O	9:LF:43:ARG:N	2.34	0.59
15:LM:72:TYR:HA	15:LM:75:GLN:HG2	1.83	0.59
16:LN:114:ARG:CZ	16:LN:137:PRO:HG3	2.32	0.59
27:LY:54:GLU:HG2	27:LY:68:GLY:C	2.26	0.59
35:Lg:41:ALA:HB1	35:Lg:42:PRO:HD2	1.82	0.59
38:Lj:28:HIS:CE1	38:Lj:31:LYS:H	2.19	0.59
39:Lk:45:LEU:HD23	39:Lk:46:VAL:N	2.18	0.59
47:S2:190:G:H2'	47:S2:208:G:N2	2.17	0.59
47:S2:594:A:H61	47:S2:643:A:H5"	1.67	0.59
47:S2:924:G:N2	47:S2:1019:C:H1'	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1509:U:H3'	47:S2:1510:G:C8	2.37	0.59
48:SA:56:GLU:HB3	63:SV:83:PHE:CE1	2.37	0.59
48:SA:89:LYS:NZ	59:SR:81:ARG:HG3	2.17	0.59
48:SA:111:GLN:HG3	48:SA:112:ILE:N	2.18	0.59
51:SE:181:CYS:HB3	51:SE:228:ILE:H	1.66	0.59
58:SQ:71:ARG:HD2	58:SQ:73:LYS:CE	2.32	0.59
60:SS:23:ARG:HD2	77:SZ:48:VAL:CG2	2.32	0.59
63:SV:1:MET:HB3	69:SC:254:ASP:OD2	2.03	0.59
65:Sa:49:ALA:HB2	74:SO:117:ARG:NH2	2.15	0.59
69:SC:146:GLU:HB2	69:SC:149:THR:CB	2.31	0.59
70:SG:37:ALA:CA	70:SG:49:VAL:HG12	2.31	0.59
70:SG:159:ARG:HG3	70:SG:171:THR:HG23	1.84	0.59
74:SO:13:GLN:HB3	74:SO:14:VAL:HG23	1.84	0.59
76:SY:27:VAL:HG11	76:SY:35:VAL:CG1	2.32	0.59
76:SY:117:VAL:HG21	76:SY:127:ALA:CB	2.31	0.59
1:L5:1406:G:N7	1:L5:1408:G:H5'	2.16	0.59
1:L5:2478:C:H3'	1:L5:2479:G:C8	2.38	0.59
1:L5:2644:G:H2'	1:L5:2645:G:O4'	2.01	0.59
1:L5:2903:G:C4'	1:L5:3591:C:H42	2.13	0.59
1:L5:3683:C:H4'	1:L5:3684:G:OP2	2.01	0.59
1:L5:3795:A:H2'	1:L5:3796:U:O4'	2.02	0.59
1:L5:3934:G:H2'	1:L5:3935:C:H6	1.65	0.59
1:L5:4315:A:O2'	1:L5:4316:G:H5'	2.02	0.59
1:L5:4465:U:H1'	1:L5:4466:C:H5	1.65	0.59
1:L5:4739:C:H2'	1:L5:4740:G:O4'	2.03	0.59
2:L7:54:A:N3	13:LJ:12:MET:HB3	2.18	0.59
4:LA:196:TRP:HB3	4:LA:197:PRO:HD3	1.85	0.59
10:LG:253:LEU:HA	10:LG:256:ALA:HB2	1.83	0.59
16:LN:68:ARG:HH22	16:LN:123:GLU:CD	2.10	0.59
16:LN:146:PRO:HB2	36:Lh:104:THR:OG1	2.03	0.59
26:LX:106:LYS:HG2	26:LX:126:THR:HG23	1.83	0.59
31:Lc:50:ASN:HB2	31:Lc:76:GLY:N	2.17	0.59
33:Le:90:MET:HE3	45:Lr:33:LYS:H	1.68	0.59
47:S2:67:C:C5	70:SG:170:ARG:HD2	2.36	0.59
47:S2:186:C:N4	47:S2:187:G:O6	2.35	0.59
47:S2:298:G:O2'	47:S2:299:A:H5'	2.03	0.59
47:S2:420:G:H2'	47:S2:660:C:H42	1.68	0.59
47:S2:463:C:C2'	47:S2:464:A:H5"	2.32	0.59
47:S2:665:G:N1	47:S2:1162:C:N3	2.37	0.59
47:S2:901:G:O2'	47:S2:902:G:H5'	2.01	0.59
47:S2:1285:G:C1'	80:Sf:102:VAL:HG22	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1330:G:O2'	47:S2:1331:C:OP1	2.18	0.59
47:S2:1351:G:O2'	47:S2:1352:G:H5'	2.03	0.59
47:S2:1416:C:OP1	47:S2:1417:C:H4'	2.02	0.59
47:S2:1545:A:N3	47:S2:1671:G:O2'	2.27	0.59
47:S2:1829:G:C2'	47:S2:1830:U:H5'	2.32	0.59
48:SA:63:ARG:NH1	63:SV:38:GLU:HA	2.16	0.59
51:SE:210:VAL:HB	51:SE:218:PHE:CE1	2.37	0.59
52:SF:193:LYS:HG2	52:SF:197:GLU:CD	2.27	0.59
53:SH:140:VAL:HG12	53:SH:157:HIS:O	2.01	0.59
54:SI:198:TYR:O	54:SI:202:ILE:HG12	2.03	0.59
57:SP:88:GLU:OE1	57:SP:89:MET:N	2.36	0.59
58:SQ:92:LEU:HD22	58:SQ:108:ILE:HD11	1.83	0.59
60:SS:10:GLN:CB	60:SS:23:ARG:HH22	2.12	0.59
61:ST:128:GLN:NE2	61:ST:131:LEU:HB3	2.18	0.59
68:Sg:209:SER:O	68:Sg:216:ALA:HA	2.02	0.59
1:L5:240:G:C2	1:L5:241:G:H1'	2.37	0.59
1:L5:372:A:OP1	38:Lj:36:LYS:HD2	2.03	0.59
1:L5:952:G:O2'	1:L5:953:C:H5'	2.02	0.59
1:L5:1170:G:O6	1:L5:1191:C:N4	2.33	0.59
1:L5:1174:G:N7	1:L5:1187:G:N2	2.51	0.59
1:L5:1579:C:O2'	1:L5:1580:C:H5'	2.01	0.59
1:L5:3638:G:N1	1:L5:3651:A:H2	2.00	0.59
1:L5:4088:C:H2'	1:L5:4089:G:H8	1.67	0.59
1:L5:4306:U:OP2	19:LQ:158:THR:HB	2.02	0.59
1:L5:4893:A:C2	1:L5:4894:A:H1'	2.38	0.59
2:L7:68:C:OP1	22:LT:20:ARG:NH2	2.36	0.59
3:L8:153:C:H2'	3:L8:153:C:O2	2.03	0.59
5:LB:220:ILE:HG23	5:LB:278:THR:OG1	2.02	0.59
6:LC:224:ILE:HB	6:LC:227:ILE:HG21	1.85	0.59
8:LE:91:THR:HA	8:LE:109:LEU:CD1	2.27	0.59
9:LF:94:ARG:CB	9:LF:114:LEU:HD23	2.23	0.59
9:LF:114:LEU:HG	9:LF:119:ASN:O	2.02	0.59
10:LG:201:THR:HG22	10:LG:202:VAL:N	2.17	0.59
11:LH:41:ILE:HG22	11:LH:43:VAL:HG13	1.82	0.59
12:LI:80:CYS:HB3	12:LI:144:ASN:ND2	2.17	0.59
14:LL:169:ILE:HG22	14:LL:170:THR:O	2.02	0.59
14:LL:192:PHE:HA	14:LL:195:ARG:HB2	1.83	0.59
17:LO:160:ARG:HG3	17:LO:161:LYS:N	2.16	0.59
17:LO:185:VAL:HG23	17:LO:189:ILE:HG21	1.85	0.59
19:LQ:20:SER:O	19:LQ:26:ARG:HD2	2.02	0.59
22:LT:137:GLU:N	22:LT:137:GLU:OE1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LX:94:ASN:HD21	26:LX:140:LEU:HB2	1.67	0.59
29:La:98:ALA:HB1	29:La:123:ILE:HD11	1.85	0.59
37:Li:102:ALA:HA	46:Lz:9:THR:CG2	2.32	0.59
47:S2:3:C:N4	71:SJ:17:ARG:HG2	2.18	0.59
47:S2:99:A:H2'	47:S2:100:U:H5'	1.84	0.59
47:S2:196:C:O2'	47:S2:204:G:N2	2.36	0.59
47:S2:288:G:H2'	47:S2:288:G:N3	2.17	0.59
47:S2:888:U:H5'	47:S2:896:U:O4	2.03	0.59
47:S2:1098:C:N4	47:S2:1099:G:O6	2.35	0.59
47:S2:1140:G:N2	47:S2:1141:G:N3	2.50	0.59
47:S2:1229:G:OP1	60:SS:141:ARG:HD2	2.02	0.59
47:S2:1256:G:C8	67:Sd:40:ARG:HD3	2.37	0.59
47:S2:1409:A:O5'	58:SQ:11:GLN:NE2	2.31	0.59
47:S2:1414:A:O3'	47:S2:1415:C:H3'	2.02	0.59
47:S2:1610:G:H2'	47:S2:1611:G:C8	2.38	0.59
47:S2:1851:A:N7	47:S2:1852:C:H1'	2.16	0.59
52:SF:97:PHE:HB3	52:SF:108:PRO:CG	2.33	0.59
53:SH:70:LYS:HD2	53:SH:73:GLN:HB2	1.85	0.59
58:SQ:31:LEU:HD11	58:SQ:33:LYS:CB	2.31	0.59
59:SR:67:ARG:HG3	59:SR:69:ILE:CD1	2.29	0.59
67:Sd:20:SER:HB3	67:Sd:27:ARG:HD3	1.84	0.59
68:Sg:8:ARG:HB2	68:Sg:309:VAL:CG2	2.32	0.59
68:Sg:131:LEU:CB	68:Sg:140:TYR:HB3	2.31	0.59
70:SG:186:GLN:OE1	70:SG:189:ARG:NH2	2.35	0.59
70:SG:194:LEU:O	70:SG:197:GLN:HB3	2.01	0.59
73:SN:37:ILE:CG2	73:SN:75:LEU:HD13	2.31	0.59
75:SW:61:ILE:HG22	75:SW:62:VAL:N	2.17	0.59
1:L5:85:G:O2'	1:L5:97:G:O6	2.19	0.59
1:L5:182:G:N7	1:L5:183:C:H1'	2.18	0.59
1:L5:330:G:C2'	1:L5:331:G:H5'	2.32	0.59
1:L5:399:G:O2'	18:LP:97:ASN:ND2	2.36	0.59
1:L5:932:A:O2'	1:L5:933:G:OP2	2.20	0.59
1:L5:1369:C:H3'	1:L5:1370:G:C5'	2.33	0.59
1:L5:1415:G:O2'	1:L5:1416:G:OP1	2.20	0.59
1:L5:1770:A:H2'	1:L5:1771:U:H6	1.66	0.59
1:L5:1817:U:H3'	1:L5:1818:G:N2	2.18	0.59
1:L5:1846:G:C2'	1:L5:1847:C:H5'	2.33	0.59
1:L5:1963:C:H2'	1:L5:1964:A:C8	2.37	0.59
1:L5:2593:C:H42	1:L5:2753:G:N2	2.01	0.59
1:L5:2710:C:H5'	1:L5:2711:G:N2	2.17	0.59
1:L5:3959:U:H5"	1:L5:3961:G:O6	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4104:G:H2'	1:L5:4106:G:N2	2.16	0.59
1:L5:4869:U:H2'	1:L5:4870:G:H5'	1.84	0.59
4:LA:171:GLY:O	44:Lp:68:ALA:HB2	2.02	0.59
7:LD:178:LYS:HE3	7:LD:179:ARG:HH12	1.65	0.59
7:LD:211:LEU:HB3	7:LD:219:TYR:CA	2.33	0.59
11:LH:73:ILE:O	11:LH:77:VAL:HG23	2.03	0.59
21:LS:94:TYR:CE2	21:LS:138:ARG:HD3	2.37	0.59
22:LT:17:ARG:HD2	22:LT:47:THR:OG1	2.03	0.59
22:LT:89:ILE:HG22	22:LT:90:ASN:N	2.17	0.59
32:Ld:85:ARG:O	32:Ld:109:VAL:HB	2.02	0.59
47:S2:74:G:C2'	47:S2:75:G:H4'	2.29	0.59
47:S2:456:C:H2'	47:S2:457:C:H6	1.67	0.59
47:S2:1109:C:O2'	47:S2:1110:G:OP2	2.17	0.59
47:S2:1197:G:H2'	47:S2:1197:G:N3	2.17	0.59
47:S2:1600:G:H3'	47:S2:1600:G:N3	2.18	0.59
47:S2:1652:G:O2'	47:S2:1653:U:H5'	2.02	0.59
49:SB:49:VAL:HG22	49:SB:58:ALA:HB1	1.84	0.59
51:SE:158:ASP:OD2	51:SE:174:LYS:HG3	2.02	0.59
52:SF:140:ASP:HA	66:Sc:63:ARG:HH22	1.67	0.59
53:SH:125:VAL:O	53:SH:129:ILE:N	2.30	0.59
57:SP:36:LEU:CG	57:SP:37:TYR:H	2.09	0.59
58:SQ:109:LYS:NZ	58:SQ:120:LEU:HD22	2.17	0.59
62:SU:22:ILE:N	62:SU:89:ILE:O	2.34	0.59
64:SX:54:LYS:HB3	79:Se:6:LEU:CD2	2.33	0.59
64:SX:70:VAL:HG13	64:SX:72:VAL:HG13	1.83	0.59
72:SM:54:SER:HB3	72:SM:78:LYS:HE2	1.85	0.59
76:SY:76:TYR:HD2	76:SY:82:ALA:CA	2.11	0.59
78:Sb:51:GLN:O	78:Sb:66:PRO:HB3	2.03	0.59
1:L5:101:A:C2'	1:L5:102:G:H5'	2.33	0.59
1:L5:135:G:C8	36:Lh:97:LYS:HB2	2.38	0.59
1:L5:425:U:O2	3:L8:10:G:N2	2.36	0.59
1:L5:1646:A:OP1	6:LC:80:ARG:HD2	2.02	0.59
1:L5:1766:A:C5'	1:L5:1767:A:H5'	2.33	0.59
1:L5:2002:A:N3	1:L5:2002:A:H2'	2.17	0.59
1:L5:2555:G:C3'	1:L5:2556:G:H5"	2.32	0.59
1:L5:3927:U:H5"	43:Lo:48:TYR:HE1	1.66	0.59
1:L5:4098:A:H2'	1:L5:4098:A:N3	2.16	0.59
1:L5:4676:G:OP1	5:LB:281:ASN:ND2	2.35	0.59
10:LG:32:PHE:HE1	28:LZ:54:THR:C	2.11	0.59
11:LH:105:ILE:HD12	11:LH:106:GLN:O	2.02	0.59
12:LI:31:ILE:HA	12:LI:66:GLU:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:LO:19:LEU:CA	17:LO:22:ILE:HG22	2.31	0.59
17:LO:72:HIS:O	17:LO:74:ARG:HG3	2.02	0.59
21:LS:110:TYR:HE1	21:LS:124:ILE:CD1	2.08	0.59
26:LX:122:ALA:HB3	26:LX:139:ARG:CB	2.31	0.59
31:Lc:20:LEU:CD2	73:SN:44:GLY:HA3	2.31	0.59
32:Ld:36:VAL:HG11	32:Ld:44:ARG:HD3	1.84	0.59
44:Lp:85:ARG:NH1	47:S2:940:U:OP1	2.35	0.59
46:Lz:90:LEU:HD13	46:Lz:116:LEU:HD13	1.84	0.59
47:S2:1090:C:O2	47:S2:1159:G:N2	2.33	0.59
47:S2:1522:A:O5'	60:SS:143:GLY:HA3	2.03	0.59
47:S2:1597:C:C3'	77:SZ:82:SER:HB2	2.33	0.59
47:S2:1704:C:H2'	47:S2:1705:C:C6	2.37	0.59
47:S2:1839:U:H2'	47:S2:1840:U:C6	2.38	0.59
49:SB:71:LEU:HD13	49:SB:82:ARG:CD	2.25	0.59
49:SB:71:LEU:HG	49:SB:74:LEU:HB3	1.84	0.59
49:SB:143:THR:HB	49:SB:205:TYR:CE2	2.37	0.59
50:SD:198:ILE:HG13	50:SD:199:GLY:H	1.66	0.59
51:SE:198:ARG:HB3	51:SE:208:VAL:CG2	2.31	0.59
53:SH:12:ASN:HB3	53:SH:14:GLU:O	2.03	0.59
53:SH:65:PRO:HB2	53:SH:68:GLN:HE22	1.68	0.59
60:SS:55:ARG:HB2	60:SS:58:GLU:OE1	2.02	0.59
63:SV:33:GLN:NE2	69:SC:261:PHE:HB3	2.18	0.59
68:Sg:246:TYR:CD2	68:Sg:261:LEU:HD23	2.36	0.59
69:SC:108:LYS:O	69:SC:109:ILE:HD13	2.01	0.59
70:SG:14:LYS:HB3	70:SG:124:LEU:CD2	2.31	0.59
70:SG:123:GLY:N	70:SG:126:ASP:OD2	2.29	0.59
73:SN:33:VAL:CG2	73:SN:67:THR:HG21	2.33	0.59
76:SY:104:ARG:HG3	76:SY:105:LYS:N	2.18	0.59
1:L5:188:G:O2'	1:L5:189:G:H5"	2.03	0.59
1:L5:303:C:O2'	1:L5:304:C:H5'	2.02	0.59
1:L5:351:C:O2'	1:L5:352:G:H5'	2.02	0.59
1:L5:452:A:C2	1:L5:1294:A:H2'	2.38	0.59
1:L5:749:G:H2'	1:L5:750:U:C5	2.38	0.59
1:L5:1577:G:O6	1:L5:3636:C:N4	2.36	0.59
1:L5:1899:G:N7	1:L5:1900:C:N4	2.49	0.59
1:L5:2090:U:H1'	6:LC:307:LYS:CE	2.32	0.59
1:L5:2299:G:N2	1:L5:2301:G:H1'	2.18	0.59
1:L5:2906:G:H1	1:L5:3584:C:N4	1.99	0.59
1:L5:4041:C:H3'	1:L5:4042:G:C5'	2.33	0.59
1:L5:4136:G:N2	1:L5:4149:C:H1'	2.18	0.59
1:L5:4348:A:H5"	1:L5:4349:C:OP2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4749:C:C3'	1:L5:4750:G:H5"	2.33	0.59
1:L5:4769:G:H22	1:L5:4865:C:N4	2.01	0.59
1:L5:4935:C:O2'	1:L5:4936:G:H5'	2.02	0.59
2:L7:3:C:H2'	2:L7:4:U:H6	1.67	0.59
2:L7:11:A:H4'	2:L7:13:A:C5	2.37	0.59
5:LB:288:GLY:HA3	5:LB:330:PHE:CZ	2.37	0.59
9:LF:227:PHE:CD2	9:LF:236:ARG:HG2	2.38	0.59
11:LH:129:ARG:HB3	11:LH:153:LEU:HD22	1.85	0.59
12:LI:76:MET:HG3	12:LI:85:PHE:CE1	2.37	0.59
13:LJ:16:ARG:NH1	13:LJ:137:PRO:HA	2.18	0.59
18:LP:119:VAL:HG12	18:LP:146:ILE:HD12	1.84	0.59
25:LW:115:ALA:O	25:LW:119:LYS:NZ	2.27	0.59
31:Lc:62:TYR:HA	31:Lc:65:MET:SD	2.42	0.59
33:Le:118:LEU:HD23	33:Le:118:LEU:O	2.03	0.59
36:Lh:103:LYS:O	36:Lh:108:GLN:NE2	2.36	0.59
37:Li:43:MET:O	37:Li:47:VAL:HG23	2.02	0.59
37:Li:79:THR:HG22	37:Li:80:HIS:N	2.17	0.59
47:S2:99:A:C2'	47:S2:100:U:H5'	2.33	0.59
47:S2:193:C:O2	47:S2:194:C:H1'	2.02	0.59
47:S2:499:G:N7	47:S2:504:G:N1	2.50	0.59
47:S2:568:C:H1'	47:S2:583:C:H42	1.67	0.59
47:S2:675:U:O2'	47:S2:676:C:H5'	2.03	0.59
47:S2:1014:G:H2'	47:S2:1015:U:H6	1.66	0.59
47:S2:1036:A:C2'	47:S2:1037:G:H5'	2.30	0.59
47:S2:1230:C:H2'	47:S2:1231:C:H6	1.67	0.59
47:S2:1339:U:O2'	47:S2:1340:U:H5'	2.02	0.59
47:S2:1383:A:H5"	50:SD:156:LEU:HD11	1.85	0.59
47:S2:1421:A:C5'	61:ST:2:PRO:HB2	2.32	0.59
47:S2:1532:C:O2'	47:S2:1636:G:H5'	2.03	0.59
47:S2:1598:G:OP2	77:SZ:82:SER:OG	2.10	0.59
47:S2:1635:C:H2'	47:S2:1636:G:C5'	2.33	0.59
47:S2:1791:A:H2'	47:S2:1792:G:C5'	2.33	0.59
47:S2:1795:G:O2'	47:S2:1796:G:H5'	2.03	0.59
47:S2:1849:G:N3	47:S2:1850:A:H5'	2.17	0.59
48:SA:115:ALA:O	48:SA:117:ARG:HG3	2.03	0.59
50:SD:28:GLU:HA	55:SK:61:GLN:OE1	2.02	0.59
51:SE:18:TRP:HZ2	51:SE:43:PRO:HD3	1.66	0.59
51:SE:194:VAL:O	51:SE:210:VAL:HG13	2.02	0.59
57:SP:64:LYS:CE	57:SP:73:PRO:HG3	2.32	0.59
60:SS:36:VAL:CG2	60:SS:41:ALA:HB2	2.33	0.59
68:Sg:71:ILE:HG23	68:Sg:92:LEU:HD21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:106:LYS:HD2	68:Sg:126:ASP:C	2.28	0.59
76:SY:91:LEU:HA	76:SY:96:LEU:CD2	2.28	0.59
1:L5:10:A:O2'	1:L5:11:G:H5'	2.03	0.59
1:L5:442:G:OP1	34:Lf:68:ARG:NH1	2.36	0.59
1:L5:671:G:H2'	1:L5:672:C:C6	2.38	0.59
1:L5:996:G:O2'	1:L5:997:C:OP1	2.21	0.59
1:L5:1219:G:H3'	1:L5:1220:G:H8	1.66	0.59
1:L5:1275:G:H2'	1:L5:1276:C:C1'	2.33	0.59
1:L5:1469:C:N3	1:L5:1496:G:N2	2.50	0.59
1:L5:1514:U:O2'	1:L5:1515:A:H5'	2.02	0.59
1:L5:1791:U:H5"	22:LT:19:PHE:CD1	2.38	0.59
1:L5:1855:G:O2'	1:L5:1856:C:H5'	2.03	0.59
1:L5:1877:G:O2'	1:L5:1878:G:H5'	2.03	0.59
1:L5:1884:C:O2'	1:L5:1885:G:H5'	2.03	0.59
1:L5:3972:A:C6	46:Lz:105:LYS:HE3	2.38	0.59
1:L5:4426:C:H2'	1:L5:4427:G:C5'	2.24	0.59
1:L5:4753:U:O4	1:L5:4880:C:N4	2.35	0.59
1:L5:4901:G:C2	1:L5:4902:C:H1'	2.37	0.59
1:L5:5045:G:O2'	1:L5:5046:U:H5'	2.03	0.59
3:L8:62:A:P	36:Lh:51:ARG:HH22	2.25	0.59
7:LD:28:THR:O	7:LD:150:LEU:HD11	2.02	0.59
13:LJ:29:SER:HB2	13:LJ:67:LYS:O	2.03	0.59
14:LL:169:ILE:CG2	14:LL:174:LYS:HG3	2.32	0.59
15:LM:70:GLN:O	15:LM:73:VAL:HG12	2.02	0.59
18:LP:4:TYR:CE1	18:LP:18:ARG:HB3	2.38	0.59
19:LQ:87:THR:HG22	19:LQ:106:THR:OG1	2.02	0.59
28:LZ:87:VAL:HG22	28:LZ:127:ASN:ND2	2.18	0.59
30:Lb:57:MET:HE3	30:Lb:61:ASN:HD21	1.67	0.59
44:Lp:46:LYS:HB3	44:Lp:58:GLY:H	1.66	0.59
46:Lz:120:ILE:HD11	46:Lz:124:LEU:HD22	1.85	0.59
46:Lz:120:ILE:HG23	46:Lz:121:PRO:HD3	1.85	0.59
47:S2:60:A:N3	47:S2:317:C:O2'	2.30	0.59
47:S2:92:A:H4'	51:SE:3:ARG:NH2	2.17	0.59
47:S2:212:C:H2'	47:S2:213:G:C8	2.32	0.59
47:S2:562:U:O2'	47:S2:563:G:O4'	2.20	0.59
47:S2:806:U:H2'	47:S2:807:G:H8	1.68	0.59
47:S2:1395:C:OP1	58:SQ:15:ARG:NH2	2.34	0.59
47:S2:1550:G:O2'	47:S2:1558:C:O2	2.16	0.59
47:S2:1740:C:O2	47:S2:1795:G:N2	2.35	0.59
50:SD:26:THR:CG2	50:SD:173:ARG:HH12	2.15	0.59
54:SI:103:LEU:HD23	54:SI:170:LYS:CG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:SL:151:THR:H	56:SL:153:LYS:NZ	2.01	0.59
58:SQ:31:LEU:HD11	58:SQ:33:LYS:HG2	1.85	0.59
58:SQ:70:VAL:HG12	58:SQ:71:ARG:N	2.17	0.59
58:SQ:108:ILE:HG23	58:SQ:109:LYS:N	2.11	0.59
62:SU:24:LEU:HD22	62:SU:87:ARG:HG3	1.83	0.59
62:SU:45:GLU:O	62:SU:47:ASN:ND2	2.36	0.59
63:SV:47:ASN:OD1	63:SV:48:GLY:N	2.31	0.59
65:Sa:12:LYS:HG3	65:Sa:15:ARG:HG3	1.84	0.59
66:Sc:33:GLU:OE2	66:Sc:38:THR:HA	2.02	0.59
71:SJ:173:VAL:O	71:SJ:177:ASN:N	2.29	0.59
1:L5:150:U:H4'	1:L5:151:G:OP2	2.03	0.59
1:L5:198:A:OP1	27:LY:126:ARG:NH2	2.35	0.59
1:L5:215:C:H5"	1:L5:216:C:H5'	1.83	0.59
1:L5:1456:C:O2'	19:LQ:73:PRO:O	2.18	0.59
1:L5:1477:C:N3	1:L5:1488:G:N2	2.50	0.59
1:L5:1914:C:OP1	17:LO:25:LYS:NZ	2.33	0.59
1:L5:2029:A:O2'	1:L5:2030:A:H5'	2.02	0.59
1:L5:2099:G:C3'	1:L5:2100:A:H5"	2.30	0.59
1:L5:2482:C:O2	1:L5:2483:G:O2'	2.19	0.59
1:L5:2540:C:O2	1:L5:2777:G:N2	2.36	0.59
1:L5:2779:C:OP1	26:LX:105:ASN:HB2	2.01	0.59
1:L5:3661:G:N1	1:L5:3682:A:OP2	2.33	0.59
1:L5:3826:C:C2'	1:L5:3827:G:H5'	2.32	0.59
1:L5:4265:U:C4	7:LD:19:LYS:HE3	2.38	0.59
1:L5:4420:U:O4	1:L5:4475:G:N2	2.31	0.59
1:L5:4678:G:H4'	5:LB:352:LEU:HD11	1.85	0.59
1:L5:4765:G:H2'	1:L5:4766:C:C6	2.38	0.59
5:LB:262:VAL:HG11	5:LB:268:ARG:NH1	2.18	0.59
5:LB:348:ARG:NH1	5:LB:351:LEU:HD23	2.15	0.59
7:LD:198:HIS:ND1	7:LD:203:ASN:OD1	2.35	0.59
14:LL:143:GLU:O	14:LL:147:ALA:HB2	2.02	0.59
16:LN:183:THR:CG2	16:LN:188:ARG:HA	2.28	0.59
32:Ld:20:VAL:HG13	32:Ld:90:ARG:O	2.02	0.59
32:Ld:50:ARG:HE	32:Ld:62:VAL:CG2	2.15	0.59
35:Lg:5:LEU:HD23	35:Lg:31:VAL:HA	1.85	0.59
36:Lh:21:LEU:HD23	36:Lh:25:LYS:HD2	1.84	0.59
47:S2:375:U:O2'	47:S2:376:A:H5'	2.03	0.59
47:S2:404:G:H2'	47:S2:405:G:H5'	1.84	0.59
47:S2:786:G:H8	70:SG:235:SER:HA	1.68	0.59
47:S2:950:C:N4	47:S2:976:G:H22	2.01	0.59
47:S2:1013:U:C2'	47:S2:1014:G:H5'	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1617:G:N2	47:S2:1620:A:O5'	2.36	0.59
50:SD:107:TYR:CA	50:SD:110:LEU:HB2	2.28	0.59
50:SD:213:PRO:HD3	59:SR:19:LYS:CD	2.32	0.59
52:SF:142:SER:HB3	52:SF:145:ARG:HB3	1.84	0.59
55:SK:5:LYS:HA	55:SK:8:ARG:NH2	2.18	0.59
59:SR:107:LYS:HA	59:SR:110:ASP:CB	2.29	0.59
67:Sd:36:LEU:HD21	67:Sd:43:PHE:HD1	1.67	0.59
70:SG:217:MET:HA	70:SG:220:ALA:CB	2.32	0.59
73:SN:25:TRP:HH2	78:Sb:84:HIS:HB2	1.68	0.59
74:SO:12:GLU:HA	74:SO:13:GLN:OE1	2.03	0.59
1:L5:255:C:N4	1:L5:256:G:O6	2.33	0.58
1:L5:299:C:O2'	1:L5:300:A:H5'	2.03	0.58
1:L5:509:A:C2'	14:LL:163:LYS:HE3	2.32	0.58
1:L5:1499:C:C2'	1:L5:1500:A:H5'	2.33	0.58
1:L5:1735:U:H1'	1:L5:4214:A:C5'	2.33	0.58
1:L5:1796:U:H2'	1:L5:1797:G:H5'	1.84	0.58
1:L5:1932:A:N6	1:L5:2054:U:H3	2.01	0.58
1:L5:2121:C:H5'	9:LF:41:MET:CE	2.32	0.58
1:L5:2316:G:H21	33:Le:76:LYS:NZ	2.00	0.58
1:L5:2527:A:OP1	20:LR:9:ARG:NH2	2.31	0.58
1:L5:3907:G:C8	1:L5:4447:C:H4'	2.38	0.58
1:L5:3973:G:O4'	1:L5:4050:A:N6	2.36	0.58
1:L5:4526:U:H4'	5:LB:243:LYS:HD2	1.83	0.58
1:L5:4887:C:O2'	1:L5:4888:U:O5'	2.17	0.58
1:L5:4999:G:C2'	1:L5:5000:G:H5'	2.33	0.58
3:L8:87:G:N1	27:LY:114:ASP:OD2	2.25	0.58
3:L8:133:G:N2	3:L8:134:G:H1'	2.18	0.58
5:LB:71:GLU:HG3	25:LW:1:MET:H2	1.67	0.58
6:LC:7:LEU:HD21	6:LC:21:ASN:CB	2.13	0.58
6:LC:348:LYS:HA	6:LC:351:VAL:HG12	1.84	0.58
8:LE:58:SER:O	8:LE:62:MET:N	2.36	0.58
8:LE:240:TYR:CE2	8:LE:242:ILE:HD13	2.38	0.58
10:LG:263:THR:HG23	49:SB:225:LEU:HD22	1.85	0.58
14:LL:87:HIS:HB3	14:LL:90:VAL:HG23	1.84	0.58
25:LW:97:LYS:H	25:LW:98:PRO:CA	2.16	0.58
29:La:22:ILE:O	29:La:24:LYS:CD	2.51	0.58
29:La:100:ILE:HG21	29:La:125:LYS:HE2	1.84	0.58
36:Lh:50:VAL:HA	36:Lh:53:SER:OG	2.03	0.58
38:Lj:60:GLY:HA2	38:Lj:64:MET:HE3	1.83	0.58
42:Ln:1:MET:CE	42:Ln:9:ARG:NH1	2.66	0.58
46:Lz:134:PHE:CG	46:Lz:135:PRO:HD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:60:A:H61	47:S2:333:G:H21	1.51	0.58
47:S2:92:A:H4'	51:SE:3:ARG:HH21	1.68	0.58
47:S2:101:U:H6	47:S2:101:U:O5'	1.85	0.58
47:S2:192:C:H5	54:SI:141:ARG:NH2	1.98	0.58
47:S2:207:G:N1	47:S2:208:G:H1'	2.17	0.58
47:S2:338:G:H3'	47:S2:339:A:H5'	1.83	0.58
47:S2:441:C:H2'	47:S2:442:C:C6	2.38	0.58
47:S2:890:U:H2'	47:S2:895:G:O6	2.03	0.58
47:S2:1038:U:H2'	47:S2:1039:C:H5'	1.85	0.58
47:S2:1116:C:O2'	47:S2:1117:C:O4'	2.21	0.58
47:S2:1340:U:N3	47:S2:1341:C:N3	2.50	0.58
47:S2:1341:C:N4	47:S2:1485:U:O4	2.36	0.58
47:S2:1355:C:O2'	69:SC:188:CYS:SG	2.59	0.58
47:S2:1436:C:H2'	47:S2:1437:C:C5	2.38	0.58
47:S2:1539:U:O2'	61:ST:48:TYR:N	2.36	0.58
47:S2:1719:A:H3'	47:S2:1720:U:O4'	2.03	0.58
47:S2:1862:G:H4'	47:S2:1863:A:OP1	2.03	0.58
48:SA:7:VAL:HG21	63:SV:42:VAL:CA	2.32	0.58
49:SB:86:LEU:HA	49:SB:99:ASN:O	2.02	0.58
50:SD:185:LYS:HG2	50:SD:187:LYS:HG3	1.85	0.58
53:SH:43:LEU:HD12	53:SH:43:LEU:O	2.01	0.58
54:SI:64:ASN:HB3	54:SI:186:ASP:CG	2.28	0.58
54:SI:176:ALA:CB	54:SI:187:GLY:HA2	2.33	0.58
56:SL:5:GLN:NE2	56:SL:11:GLN:O	2.36	0.58
57:SP:73:PRO:HB2	57:SP:74:GLU:HB2	1.85	0.58
69:SC:113:GLN:CB	69:SC:122:THR:HA	2.31	0.58
70:SG:190:ARG:CA	70:SG:193:ALA:HB3	2.28	0.58
71:SJ:140:GLN:HG3	71:SJ:141:VAL:O	2.02	0.58
72:SM:94:ILE:CG1	72:SM:95:ASP:H	2.15	0.58
76:SY:25:ILE:HD13	76:SY:44:LEU:HD22	1.85	0.58
1:L5:67:C:N4	1:L5:326:C:O5'	2.35	0.58
1:L5:216:C:O3'	1:L5:219:G:N2	2.34	0.58
1:L5:239:C:O2'	1:L5:240:G:H5'	2.03	0.58
1:L5:282:C:H2'	1:L5:283:G:H5'	1.84	0.58
1:L5:368:C:O2'	1:L5:369:G:H5'	2.02	0.58
1:L5:728:U:HO2'	1:L5:730:G:HO2'	1.50	0.58
1:L5:743:G:O6	1:L5:920:C:N4	2.36	0.58
1:L5:1538:U:H4'	1:L5:1629:G:H5'	1.86	0.58
1:L5:2063:G:H2'	1:L5:2064:G:O4'	2.03	0.58
1:L5:2120:G:O2'	1:L5:2121:C:OP1	2.19	0.58
1:L5:2322:G:O2'	1:L5:2323:C:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2405:G:H5”	38:Lj:14:LYS:NZ	2.18	0.58
1:L5:2479:G:H2’	1:L5:2480:G:H8	1.69	0.58
1:L5:2512:A:N6	40:Ll:4:HIS:HB3	2.17	0.58
1:L5:3953:G:H2’	1:L5:3953:G:N3	2.16	0.58
1:L5:4413:C:H3’	1:L5:4413:C:O2	2.03	0.58
1:L5:5059:C:C3’	1:L5:5060:A:H5”	2.34	0.58
4:LA:58:LEU:HB3	4:LA:75:LEU:CD2	2.33	0.58
8:LE:258:LEU:HB3	8:LE:259:PRO:HD3	1.85	0.58
8:LE:267:LEU:O	8:LE:270:TYR:HB3	2.03	0.58
21:LS:154:LEU:HD13	21:LS:157:ARG:NH2	2.17	0.58
28:LZ:68:ILE:HD11	28:LZ:131:PHE:HE1	1.67	0.58
29:La:100:ILE:CG2	29:La:125:LYS:HE2	2.33	0.58
47:S2:613:G:H22	47:S2:629:A:P	2.26	0.58
47:S2:617:G:H4’	64:SX:88:ASP:CA	2.33	0.58
47:S2:1030:A:H2’	47:S2:1030:A:N3	2.17	0.58
47:S2:1286:G:OP2	72:SM:36:ARG:HD3	2.04	0.58
47:S2:1537:A:O3’	61:ST:84:ARG:NH2	2.36	0.58
47:S2:1646:C:H5”	58:SQ:138:ARG:HD3	1.85	0.58
47:S2:1675:A:H2’	47:S2:1676:U:O4’	2.03	0.58
51:SE:200:ARG:HG2	51:SE:206:ASP:OD2	2.02	0.58
52:SF:29:GLN:HA	52:SF:42:LYS:HZ3	1.68	0.58
53:SH:6:ALA:HB3	53:SH:25:GLN:CB	2.32	0.58
54:SI:192:GLY:O	54:SI:195:LEU:N	2.32	0.58
60:SS:50:ILE:HG21	60:SS:63:GLU:HG2	1.85	0.58
61:ST:15:VAL:HG12	61:ST:62:ARG:HE	1.68	0.58
68:Sg:107:ASP:CB	68:Sg:125:ARG:HD2	2.33	0.58
68:Sg:214:GLY:HA2	68:Sg:236:ILE:CD1	2.33	0.58
70:SG:32:MET:CE	70:SG:65:GLN:HB2	2.33	0.58
71:SJ:86:VAL:CG1	71:SJ:108:ARG:HG3	2.32	0.58
71:SJ:111:GLN:CD	71:SJ:127:ARG:HB2	2.28	0.58
74:SO:71:PRO:O	74:SO:75:MET:N	2.31	0.58
76:SY:27:VAL:HG21	76:SY:35:VAL:CG2	2.25	0.58
76:SY:62:THR:HG22	76:SY:63:HIS:O	2.03	0.58
1:L5:357:U:OP1	3:L8:26:C:H4’	2.02	0.58
1:L5:417:G:H1’	1:L5:418:A:OP2	2.03	0.58
1:L5:494:U:H3	1:L5:659:G:H1	1.51	0.58
1:L5:516:C:H6	1:L5:516:C:H3’	1.67	0.58
1:L5:1338:G:OP1	29:La:12:ARG:NH2	2.31	0.58
1:L5:1633:G:H5’	1:L5:1634:A:OP1	2.03	0.58
1:L5:2378:G:H2’	1:L5:2379:A:H5”	1.85	0.58
1:L5:2546:G:H3’	1:L5:2547:G:H5’	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2726:G:O6	1:L5:2727:C:N4	2.35	0.58
1:L5:2732:G:N3	1:L5:2732:G:H2'	2.17	0.58
1:L5:2786:C:H5"	1:L5:2787:A:H5'	1.86	0.58
1:L5:2831:G:O2'	1:L5:2832:A:H5'	2.02	0.58
1:L5:3662:A:H4'	1:L5:3663:A:H5"	1.85	0.58
1:L5:4290:U:OP1	43:Lo:9:ARG:NH1	2.33	0.58
1:L5:4587:G:O2'	5:LB:14:LEU:O	2.19	0.58
1:L5:4620:U:OP1	24:LV:51:ARG:NH2	2.36	0.58
1:L5:4865:C:H2'	1:L5:4866:C:H5'	1.85	0.58
5:LB:67:VAL:HG13	24:LV:14:PHE:CZ	2.38	0.58
5:LB:111:SER:O	5:LB:115:LYS:HG3	2.03	0.58
6:LC:361:LEU:HD12	6:LC:364:LYS:HB3	1.85	0.58
7:LD:125:VAL:HG12	7:LD:126:THR:N	2.18	0.58
9:LF:169:LEU:O	9:LF:169:LEU:HD12	2.02	0.58
12:LI:75:TYR:HA	12:LI:78:LYS:HG2	1.83	0.58
13:LJ:8:LYS:C	13:LJ:11:PRO:HD2	2.29	0.58
25:LW:47:ARG:HG2	25:LW:54:LEU:CD2	2.33	0.58
29:La:118:PRO:C	29:La:120:GLN:H	2.11	0.58
32:Ld:72:VAL:CG1	32:Ld:84:ILE:HD11	2.32	0.58
33:Le:118:LEU:HD22	33:Le:120:ILE:HD11	1.85	0.58
38:Lj:28:HIS:CG	38:Lj:31:LYS:HB3	2.38	0.58
47:S2:54:A:OP1	76:SY:108:LYS:NZ	2.26	0.58
47:S2:223:C:H2'	47:S2:224:A:O4'	2.04	0.58
47:S2:547:G:H2'	47:S2:548:C:C5'	2.32	0.58
47:S2:613:G:N2	47:S2:629:A:OP2	2.34	0.58
47:S2:1057:C:H1'	47:S2:1060:A:C2	2.32	0.58
47:S2:1260:A:H2	47:S2:1620:A:H5'	1.68	0.58
47:S2:1550:G:O5'	50:SD:9:ARG:NH1	2.36	0.58
47:S2:1840:U:H2'	47:S2:1841:C:C6	2.35	0.58
48:SA:122:LEU:CD2	48:SA:124:VAL:HG23	2.33	0.58
49:SB:137:LEU:HD13	49:SB:172:MET:HE3	1.85	0.58
52:SF:96:ALA:CA	52:SF:99:ILE:HG22	2.32	0.58
52:SF:204:ARG:HG3	74:SO:72:TYR:HB3	1.84	0.58
53:SH:144:ILE:CD1	53:SH:154:ILE:HG12	2.34	0.58
56:SL:142:VAL:O	56:SL:143:LEU:HD12	2.02	0.58
61:ST:22:LEU:HD22	61:ST:54:TYR:HB3	1.85	0.58
68:Sg:91:ASP:HB2	68:Sg:94:THR:OG1	2.04	0.58
68:Sg:191:HIS:CG	68:Sg:195:LEU:HD21	2.37	0.58
70:SG:186:GLN:HA	70:SG:189:ARG:HH21	1.68	0.58
70:SG:220:ALA:O	70:SG:224:ARG:HG2	2.01	0.58
72:SM:63:LYS:HA	72:SM:66:GLU:OE2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:SW:109:GLY:O	75:SW:111:MET:HG3	2.03	0.58
1:L5:74:G:H2'	1:L5:74:G:N3	2.19	0.58
1:L5:728:U:O4	21:LS:68:PHE:N	2.30	0.58
1:L5:989:U:O2'	1:L5:990:C:O5'	2.21	0.58
1:L5:1241:C:N3	1:L5:1242:G:H1'	2.17	0.58
1:L5:1656:U:H5	29:La:26:ARG:HH12	1.52	0.58
1:L5:1672:U:OP1	30:Lb:7:HIS:ND1	2.25	0.58
1:L5:2066:C:H1'	34:Lf:80:ASN:HD21	1.68	0.58
1:L5:2447:U:O2'	1:L5:2744:A:N3	2.33	0.58
1:L5:2580:U:N3	1:L5:2655:C:O2'	2.35	0.58
1:L5:2730:U:H5"	1:L5:2731:C:OP2	2.04	0.58
1:L5:2888:G:H2'	1:L5:2889:G:H8	1.69	0.58
1:L5:3751:G:H21	1:L5:3775:A:H8	1.50	0.58
1:L5:3919:C:C5'	4:LA:207:VAL:HG22	2.30	0.58
1:L5:4612:C:C2'	1:L5:4613:C:H5'	2.34	0.58
3:L8:70:G:H5"	27:LY:27:ARG:CZ	2.34	0.58
6:LC:86:ARG:HD2	6:LC:89:GLN:OE1	2.04	0.58
7:LD:236:MET:O	7:LD:239:MET:N	2.37	0.58
11:LH:106:GLN:HG3	11:LH:113:GLU:HG2	1.85	0.58
12:LI:156:LYS:NZ	12:LI:163:GLN:O	2.36	0.58
19:LQ:28:LEU:O	19:LQ:31:LEU:N	2.36	0.58
24:LV:32:THR:HG23	24:LV:34:ALA:H	1.69	0.58
25:LW:88:ALA:HA	25:LW:91:MET:SD	2.43	0.58
47:S2:12:U:O2'	47:S2:1356:G:N3	2.36	0.58
47:S2:937:C:H2'	47:S2:938:A:C8	2.38	0.58
47:S2:1720:U:H5"	47:S2:1721:U:H5"	1.86	0.58
48:SA:87:VAL:HG12	48:SA:98:PRO:HB3	1.85	0.58
50:SD:73:VAL:HA	50:SD:77:PHE:CD2	2.37	0.58
56:SL:104:LYS:HE2	64:SX:8:ARG:HD3	1.85	0.58
58:SQ:20:THR:HG22	58:SQ:21:ALA:N	2.19	0.58
61:ST:38:LYS:HZ3	61:ST:46:ALA:HB2	1.68	0.58
62:SU:24:LEU:O	62:SU:24:LEU:HD23	2.02	0.58
63:SV:54:ALA:HB2	69:SC:261:PHE:CE1	2.38	0.58
67:Sd:31:ILE:HG21	67:Sd:36:LEU:HD23	1.84	0.58
69:SC:66:LEU:HD12	69:SC:86:LEU:HB3	1.85	0.58
70:SG:67:VAL:CG1	70:SG:99:GLY:HA2	2.33	0.58
70:SG:232:ARG:O	70:SG:236:SER:N	2.37	0.58
1:L5:227:A:H2'	1:L5:228:C:C5'	2.34	0.58
1:L5:963:G:H1'	1:L5:2252:G:C6	2.38	0.58
1:L5:1800:U:O2'	1:L5:1801:A:H5'	2.03	0.58
1:L5:2109:G:H3'	1:L5:2110:C:H5"	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2419:C:N4	1:L5:2420:A:H62	2.01	0.58
1:L5:2497:C:O2'	1:L5:2498:C:O4'	2.11	0.58
1:L5:2534:C:H2'	1:L5:2535:G:H5'	1.84	0.58
1:L5:2674:A:H62	44:Lp:42:CYS:HA	1.69	0.58
1:L5:3754:G:N2	1:L5:3755:G:H1'	2.17	0.58
1:L5:3888:G:H4'	1:L5:3889:G:OP1	2.04	0.58
1:L5:4255:A:H2'	1:L5:4256:A:O4'	2.03	0.58
1:L5:4352:U:C2'	1:L5:4353:U:H5'	2.34	0.58
1:L5:4473:A:H4'	41:Lm:122:ARG:NH2	2.19	0.58
1:L5:4691:A:H2'	1:L5:4692:A:O4'	2.03	0.58
1:L5:4730:C:H4'	1:L5:4731:G:OP1	2.03	0.58
1:L5:4861:G:H8	1:L5:4862:G:N7	2.02	0.58
4:LA:32:VAL:HG12	4:LA:163:ARG:NH1	2.18	0.58
5:LB:91:GLY:CA	5:LB:160:ILE:HG22	2.26	0.58
5:LB:293:ILE:HG13	5:LB:294:LYS:N	2.19	0.58
12:LI:183:ASP:O	12:LI:187:LYS:N	2.35	0.58
16:LN:47:LYS:CB	16:LN:50:ARG:HH11	2.16	0.58
18:LP:18:ARG:HA	18:LP:94:MET:CE	2.34	0.58
20:LR:6:LEU:O	20:LR:10:LEU:N	2.33	0.58
20:LR:168:GLU:OE1	20:LR:171:LYS:HD2	2.03	0.58
21:LS:159:LEU:HD21	21:LS:172:PRO:CB	2.34	0.58
23:LU:78:PHE:HE2	23:LU:83:LEU:HD11	1.68	0.58
24:LV:49:LEU:HG	24:LV:50:ASN:HD22	1.69	0.58
32:Ld:90:ARG:CG	32:Ld:102:LEU:HD11	2.22	0.58
33:Le:115:ALA:HB1	33:Le:120:ILE:O	2.02	0.58
46:Lz:139:THR:HG23	46:Lz:141:ASN:H	1.69	0.58
47:S2:15:U:H2'	47:S2:16:G:H5'	1.85	0.58
47:S2:311:C:H4'	47:S2:339:A:OP1	2.03	0.58
47:S2:483:C:N4	47:S2:484:A:N1	2.51	0.58
47:S2:1211:G:N2	47:S2:1212:G:H1'	2.17	0.58
47:S2:1260:A:O2'	47:S2:1261:C:O5'	2.21	0.58
47:S2:1280:G:O6	47:S2:1281:G:N2	2.35	0.58
47:S2:1492:U:H1'	62:SU:70:CYS:SG	2.43	0.58
48:SA:118:GLU:HB2	69:SC:65:LYS:HZ3	1.67	0.58
50:SD:116:ARG:CD	50:SD:150:MET:HE1	2.34	0.58
51:SE:103:TYR:HB3	51:SE:107:GLY:HA2	1.85	0.58
51:SE:182:MET:CE	51:SE:192:ILE:HD11	2.32	0.58
52:SF:127:ARG:NH2	66:Sc:27:CYS:HB3	2.19	0.58
54:SI:147:LYS:HA	54:SI:150:ASP:CG	2.27	0.58
59:SR:65:PRO:HB3	59:SR:73:LEU:HB3	1.84	0.58
59:SR:78:ARG:HG3	59:SR:81:ARG:HD2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Sd:31:ILE:O	67:Sd:31:ILE:HG23	2.04	0.58
1:L5:152:U:H4'	16:LN:56:LYS:HG3	1.85	0.58
1:L5:385:A:O2'	1:L5:387:G:H2'	2.03	0.58
1:L5:966:A:H1'	8:LE:88:VAL:O	2.04	0.58
1:L5:966:A:O2'	8:LE:89:LEU:N	2.35	0.58
1:L5:1086:C:H2'	1:L5:1087:A:H8	1.69	0.58
1:L5:1092:G:H2'	1:L5:1092:G:N3	2.16	0.58
1:L5:1260:G:N1	1:L5:1261:G:N3	2.48	0.58
1:L5:1271:G:H1	1:L5:2122:G:C5'	2.15	0.58
1:L5:2084:C:H3'	1:L5:2084:C:H6	1.67	0.58
1:L5:2284:G:O2'	1:L5:2285:A:H5'	2.03	0.58
1:L5:2539:C:O2'	1:L5:2540:C:H5'	2.03	0.58
1:L5:2546:G:C3'	1:L5:2547:G:C5'	2.81	0.58
1:L5:3766:A:N6	47:S2:1850:A:N3	2.52	0.58
1:L5:4133:C:O2'	1:L5:4134:C:H5'	2.04	0.58
1:L5:4212:A:N6	1:L5:4219:A:OP2	2.36	0.58
1:L5:4475:G:H5"	1:L5:4476:C:C5'	2.34	0.58
1:L5:4663:G:H5'	1:L5:5004:C:OP1	2.04	0.58
1:L5:4869:U:H3'	1:L5:4870:G:H21	1.69	0.58
1:L5:4939:C:N4	8:LE:220:LYS:HG2	2.13	0.58
4:LA:102:LEU:HD11	4:LA:107:MET:CG	2.34	0.58
5:LB:382:MET:HG2	5:LB:386:LYS:CD	2.33	0.58
8:LE:208:ILE:HG13	8:LE:209:PRO:CD	2.28	0.58
9:LF:80:ASN:OD1	22:LT:143:THR:HG22	2.04	0.58
10:LG:143:VAL:HA	10:LG:146:LEU:CG	2.34	0.58
16:LN:153:LYS:HE2	16:LN:156:HIS:HE1	1.67	0.58
19:LQ:12:LYS:HB2	19:LQ:14:ARG:NH2	2.18	0.58
21:LS:106:VAL:HG13	21:LS:126:ILE:CD1	2.34	0.58
28:LZ:90:PRO:C	28:LZ:117:LYS:HE2	2.29	0.58
28:LZ:113:GLU:O	28:LZ:116:VAL:HG22	2.03	0.58
46:Lz:120:ILE:CG1	46:Lz:124:LEU:HD22	2.34	0.58
47:S2:26:U:H2'	47:S2:27:A:H8	1.67	0.58
47:S2:399:C:O2	56:SL:105:ARG:HA	2.04	0.58
47:S2:466:G:H3'	47:S2:466:G:N3	2.19	0.58
47:S2:668:A:H5'	47:S2:669:A:OP2	2.04	0.58
47:S2:1234:C:O2'	47:S2:1247:C:N4	2.37	0.58
47:S2:1698:C:H2'	47:S2:1698:C:OP1	2.03	0.58
48:SA:63:ARG:HA	48:SA:185:MET:SD	2.42	0.58
61:ST:110:LEU:HB2	61:ST:112:MET:HG2	1.85	0.58
61:ST:125:PRO:O	61:ST:129:ARG:N	2.36	0.58
62:SU:67:LYS:HD2	62:SU:78:ASP:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:206:LEU:CD2	68:Sg:227:LEU:HD13	2.33	0.58
68:Sg:239:LEU:HD23	68:Sg:240:CYS:N	2.18	0.58
68:Sg:259:TRP:CD1	68:Sg:266:ILE:HG22	2.35	0.58
69:SC:275:LYS:O	69:SC:280:VAL:HB	2.03	0.58
71:SJ:75:ASN:O	71:SJ:79:ARG:N	2.37	0.58
74:SO:43:HIS:HD2	74:SO:55:ARG:HD3	1.67	0.58
1:L5:101:A:O2'	1:L5:102:G:H5'	2.04	0.58
1:L5:119:G:N1	10:LG:132:ARG:HB2	2.17	0.58
1:L5:317:A:H2	1:L5:318:A:N9	2.02	0.58
1:L5:352:G:H4'	1:L5:353:A:H5'	1.85	0.58
1:L5:746:A:N1	1:L5:915:A:H2'	2.19	0.58
1:L5:917:A:H4'	1:L5:918:G:OP1	2.04	0.58
1:L5:954:C:H2'	1:L5:955:G:H8	1.68	0.58
1:L5:1367:C:H4'	1:L5:1370:G:O2'	2.04	0.58
1:L5:1424:G:H1'	30:Lb:29:TYR:CE2	2.35	0.58
1:L5:1509:C:O2'	1:L5:1510:G:H5'	2.04	0.58
1:L5:1594:C:H2'	1:L5:1595:G:H5'	1.86	0.58
1:L5:1839:U:H3'	1:L5:1840:G:N2	2.08	0.58
1:L5:2684:C:O2'	1:L5:2685:C:H5'	2.03	0.58
1:L5:3757:G:O2'	1:L5:3758:U:O5'	2.21	0.58
1:L5:4057:C:H2'	1:L5:4058:U:C6	2.39	0.58
1:L5:4630:G:H2'	1:L5:4631:G:H8	1.69	0.58
1:L5:4635:A:N6	1:L5:5045:G:H21	2.02	0.58
2:L7:32:A:N7	2:L7:41:G:O2'	2.34	0.58
3:L8:101:C:O2'	38:Lj:20:ARG:HB3	2.03	0.58
6:LC:73:VAL:HB	6:LC:78:ARG:NH1	2.18	0.58
7:LD:64:ILE:HB	7:LD:75:VAL:CG1	2.34	0.58
7:LD:233:PRO:O	7:LD:234:ASP:HB2	2.04	0.58
9:LF:96:ARG:HD2	9:LF:139:TYR:CD1	2.38	0.58
10:LG:113:ARG:HA	10:LG:116:ALA:CB	2.22	0.58
11:LH:64:ARG:HA	11:LH:67:LEU:HD13	1.85	0.58
14:LL:150:LEU:HD13	36:Lh:121:VAL:HB	1.84	0.58
14:LL:205:GLN:O	14:LL:209:LYS:HA	2.03	0.58
27:LY:79:VAL:HG22	27:LY:80:ILE:H	1.68	0.58
30:Lb:63:LYS:O	30:Lb:67:ALA:N	2.27	0.58
34:Lf:28:LEU:HD22	34:Lf:101:ILE:HG21	1.85	0.58
36:Lh:34:ALA:HB1	36:Lh:39:GLY:HA3	1.86	0.58
47:S2:90:G:N2	47:S2:91:A:H1'	2.19	0.58
47:S2:795:A:H2'	47:S2:796:G:H5'	1.84	0.58
47:S2:1295:A:H2'	47:S2:1295:A:N3	2.18	0.58
47:S2:1452:A:N1	47:S2:1474:A:O2'	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1558:C:O2'	47:S2:1559:C:H5'	2.03	0.58
47:S2:1725:U:H2'	47:S2:1726:G:H5"	1.86	0.58
50:SD:40:ARG:HB2	50:SD:47:GLU:O	2.03	0.58
52:SF:39:ILE:CG2	52:SF:68:ILE:HG21	2.32	0.58
53:SH:10:LYS:HZ2	53:SH:20:GLU:HB2	1.69	0.58
53:SH:70:LYS:HE3	53:SH:74:LYS:HG3	1.84	0.58
54:SI:66:SER:CA	54:SI:73:THR:HG22	2.33	0.58
54:SI:79:ILE:HG23	54:SI:80:ASP:H	1.68	0.58
60:SS:39:ARG:CG	61:ST:38:LYS:HE2	2.34	0.58
61:ST:28:LEU:HD22	61:ST:54:TYR:HE1	1.69	0.58
64:SX:128:VAL:CG2	64:SX:138:LYS:HG3	2.34	0.58
66:Sc:52:GLU:HG3	66:Sc:53:GLY:N	2.19	0.58
68:Sg:147:HIS:NE2	68:Sg:169:GLY:HA3	2.18	0.58
68:Sg:199:THR:HB	68:Sg:239:LEU:O	2.03	0.58
71:SJ:87:LEU:CD1	71:SJ:97:ILE:HG12	2.32	0.58
72:SM:69:LEU:HA	72:SM:74:ILE:CD1	2.33	0.58
76:SY:106:GLN:O	76:SY:110:ARG:HB2	2.04	0.58
77:SZ:69:THR:H	77:SZ:73:VAL:CG2	2.17	0.58
1:L5:20:U:P	3:L8:36:G:H22	2.27	0.58
1:L5:246:G:O2'	1:L5:247:G:H5'	2.04	0.58
1:L5:374:G:C2'	1:L5:375:G:H5'	2.34	0.58
1:L5:712:C:N4	1:L5:956:A:H61	2.02	0.58
1:L5:1464:C:H5"	30:Lb:32:LEU:CD1	2.33	0.58
1:L5:2252:G:OP1	8:LE:86:GLU:HB2	2.03	0.58
1:L5:2521:G:H5"	35:Lg:25:THR:HG22	1.82	0.58
1:L5:2620:G:O6	1:L5:2621:A:N6	2.36	0.58
1:L5:3690:U:H2'	1:L5:3691:G:H5'	1.85	0.58
1:L5:4410:G:H2'	1:L5:4411:G:C8	2.38	0.58
1:L5:4600:G:H4'	1:L5:4601:U:H5'	1.85	0.58
1:L5:4949:G:H3'	1:L5:4949:G:N3	2.19	0.58
4:LA:42:LYS:HD2	4:LA:87:PHE:CD2	2.39	0.58
6:LC:110:ARG:O	6:LC:112:HIS:N	2.36	0.58
10:LG:115:LEU:HD12	10:LG:116:ALA:N	2.18	0.58
14:LL:50:PRO:HG3	36:Lh:121:VAL:HG23	1.84	0.58
27:LY:66:GLN:O	27:LY:67:ILE:HD13	2.04	0.58
28:LZ:9:LYS:HA	28:LZ:86:SER:HB3	1.85	0.58
39:Lk:5:ILE:O	39:Lk:5:ILE:HG13	2.04	0.58
45:Lr:54:ALA:CB	45:Lr:61:VAL:HG23	2.34	0.58
47:S2:216:C:O2'	47:S2:217:A:H5'	2.04	0.58
47:S2:528:A:H2'	47:S2:529:A:C8	2.38	0.58
47:S2:828:G:H2'	47:S2:829:C:O4'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:886:A:C2	47:S2:901:G:H1'	2.38	0.58
47:S2:908:A:H2'	47:S2:908:A:N3	2.18	0.58
47:S2:955:A:H2'	47:S2:969:U:O4	2.03	0.58
47:S2:1349:G:H1	47:S2:1380:C:N4	2.00	0.58
50:SD:195:THR:HA	50:SD:199:GLY:HA3	1.86	0.58
52:SF:34:SER:HA	66:Sc:55:VAL:CG2	2.30	0.58
53:SH:18:GLU:O	53:SH:21:SER:OG	2.15	0.58
55:SK:22:VAL:O	55:SK:66:HIS:HB3	2.04	0.58
59:SR:106:LEU:HD12	59:SR:110:ASP:HB3	1.85	0.58
68:Sg:205:SER:HG	68:Sg:222:ASN:H	1.50	0.58
70:SG:27:PHE:HE1	70:SG:36:VAL:HG11	1.69	0.58
70:SG:36:VAL:O	70:SG:49:VAL:HA	2.03	0.58
75:SW:23:ARG:HG3	78:Sb:3:LEU:HD12	1.86	0.58
75:SW:116:ALA:HB1	75:SW:121:THR:O	2.03	0.58
80:Sf:135:HIS:HD2	80:Sf:138:ARG:HB2	1.69	0.58
1:L5:50:C:C2'	1:L5:51:A:H5'	2.34	0.58
1:L5:221:C:O2'	1:L5:222:C:H5'	2.03	0.58
1:L5:919:C:H3'	1:L5:920:C:H5"	1.86	0.58
1:L5:990:C:O2	1:L5:1064:G:N1	2.37	0.58
1:L5:2408:U:H4'	1:L5:2409:U:OP1	2.02	0.58
1:L5:2413:U:O4	1:L5:2431:A:N6	2.30	0.58
1:L5:2593:C:H42	1:L5:2753:G:H22	1.50	0.58
1:L5:2602:G:O4'	1:L5:2742:G:H2'	2.03	0.58
1:L5:3715:U:O2'	1:L5:3716:C:H5'	2.04	0.58
1:L5:3910:C:H1'	1:L5:4396:A:C6	2.39	0.58
1:L5:3942:A:N6	1:L5:4071:U:O4	2.35	0.58
1:L5:4057:C:H2'	1:L5:4058:U:C5	2.39	0.58
1:L5:5000:G:O2'	1:L5:5001:U:H5'	2.04	0.58
4:LA:84:THR:CG2	44:Lp:63:THR:HG22	2.34	0.58
5:LB:29:VAL:HG12	5:LB:31:SER:H	1.69	0.58
5:LB:84:MET:HE2	5:LB:164:ALA:HB1	1.86	0.58
6:LC:158:VAL:HA	6:LC:161:TYR:CD2	2.39	0.58
7:LD:66:TYR:HE2	7:LD:68:ARG:NE	2.02	0.58
8:LE:209:PRO:O	8:LE:210:LYS:HB2	2.02	0.58
9:LF:25:PHE:C	9:LF:29:LYS:HE3	2.29	0.58
9:LF:80:ASN:HD21	22:LT:143:THR:N	2.02	0.58
10:LG:158:ALA:HB1	10:LG:187:LYS:HB3	1.86	0.58
12:LI:56:GLU:CA	12:LI:131:ILE:HG12	2.33	0.58
12:LI:115:MET:CG	12:LI:118:ALA:HB2	2.34	0.58
33:Le:74:PHE:HD2	33:Le:96:CYS:HB3	1.69	0.58
36:Lh:62:ASN:OD1	36:Lh:65:GLN:NE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:629:A:O2'	47:S2:630:U:H5'	2.04	0.58
47:S2:901:G:C2'	47:S2:902:G:H5'	2.34	0.58
47:S2:916:A:C6	73:SN:73:ARG:HD3	2.39	0.58
47:S2:970:G:N2	47:S2:970:G:OP1	2.37	0.58
47:S2:1246:A:H2'	47:S2:1247:C:H5'	1.85	0.58
47:S2:1463:U:H4'	47:S2:1463:U:OP1	2.03	0.58
47:S2:1692:U:H1'	65:Sa:86:ASN:HD21	1.69	0.58
47:S2:1750:C:H2'	47:S2:1751:C:O4'	2.04	0.58
47:S2:1776:G:H3'	47:S2:1776:G:N3	2.19	0.58
50:SD:79:PHE:HB3	50:SD:83:SER:CB	2.30	0.58
52:SF:113:VAL:O	52:SF:117:ILE:HG12	2.03	0.58
52:SF:127:ARG:HG3	52:SF:137:GLN:HB2	1.86	0.58
54:SI:6:ASP:OD2	54:SI:8:TRP:NE1	2.37	0.58
54:SI:41:ARG:HD2	54:SI:43:ILE:HD12	1.86	0.58
70:SG:46:LYS:HB3	70:SG:117:GLY:O	2.04	0.58
76:SY:41:ARG:HG2	76:SY:55:ILE:HG21	1.86	0.58
1:L5:1:C:H3'	26:LX:37:LYS:CB	2.34	0.58
1:L5:388:A:H2	1:L5:402:A:H61	1.52	0.58
1:L5:1206:C:H2'	1:L5:1207:C:H6	1.66	0.58
1:L5:1248:C:O5'	1:L5:1248:C:H6	1.87	0.58
1:L5:1374:G:OP1	6:LC:120:LYS:HE3	2.03	0.58
1:L5:1413:C:H2'	1:L5:1414:C:H4'	1.86	0.58
1:L5:2243:C:H2'	1:L5:2244:C:C6	2.39	0.58
1:L5:2496:G:C4	1:L5:2497:C:H5	2.20	0.58
1:L5:2778:G:H2'	1:L5:2779:C:H6	1.69	0.58
1:L5:2824:C:O2'	1:L5:2825:A:H5'	2.04	0.58
1:L5:4041:C:H3'	1:L5:4042:G:H5"	1.85	0.58
1:L5:4077:A:C2'	1:L5:4078:C:H5'	2.33	0.58
1:L5:4142:C:H5'	1:L5:4143:G:OP2	2.03	0.58
1:L5:4181:U:C2'	1:L5:4182:G:H5'	2.34	0.58
1:L5:4625:C:O2'	5:LB:336:CYS:SG	2.38	0.58
4:LA:132:ASN:O	4:LA:169:VAL:HG12	2.03	0.58
4:LA:227:ARG:O	4:LA:234:LYS:NZ	2.28	0.58
13:LJ:13:ARG:HG3	13:LJ:136:ARG:HE	1.66	0.58
14:LL:28:GLN:O	14:LL:31:ARG:HG2	2.03	0.58
14:LL:57:PRO:HD3	14:LL:75:GLY:HA2	1.85	0.58
14:LL:114:VAL:HG12	14:LL:118:LYS:HG2	1.86	0.58
16:LN:183:THR:HG22	16:LN:188:ARG:N	2.19	0.58
19:LQ:81:VAL:HG22	19:LQ:101:CYS:SG	2.43	0.58
23:LU:96:LEU:O	23:LU:100:LEU:N	2.30	0.58
26:LX:104:ALA:O	26:LX:134:LYS:NZ	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:Lh:20:GLN:OE1	36:Lh:24:LEU:HG	2.03	0.58
38:Lj:54:LYS:O	38:Lj:58:THR:OG1	2.17	0.58
45:Lr:32:LEU:HA	45:Lr:113:ARG:NH2	2.19	0.58
47:S2:43:U:OP2	47:S2:485:A:N6	2.37	0.58
47:S2:803:C:H2'	47:S2:804:U:C6	2.38	0.58
47:S2:1050:A:H2'	47:S2:1051:G:H5'	1.85	0.58
47:S2:1263:U:H5	47:S2:1264:C:C2'	2.11	0.58
47:S2:1308:U:O2'	80:Sf:133:ALA:HA	2.03	0.58
47:S2:1652:G:H2'	47:S2:1653:U:H5'	1.86	0.58
47:S2:1672:U:H3'	58:SQ:17:LYS:NZ	2.18	0.58
47:S2:1754:G:H2'	47:S2:1754:G:N3	2.19	0.58
47:S2:1801:A:H2'	47:S2:1802:C:C6	2.39	0.58
48:SA:148:CYS:HB2	48:SA:152:SER:HB2	1.86	0.58
51:SE:18:TRP:HE1	51:SE:43:PRO:CD	2.14	0.58
53:SH:7:LYS:CE	53:SH:17:ASP:HB2	2.29	0.58
53:SH:65:PRO:CB	53:SH:68:GLN:HE22	2.17	0.58
54:SI:61:ASP:OD1	54:SI:62:VAL:N	2.37	0.58
56:SL:68:ILE:HG21	56:SL:143:LEU:CD2	2.33	0.58
61:ST:69:GLY:O	61:ST:120:GLY:HA3	2.04	0.58
62:SU:108:PRO:CG	62:SU:110:VAL:HG22	2.34	0.58
64:SX:70:VAL:HG22	64:SX:71:ARG:H	1.68	0.58
70:SG:7:PHE:HB3	70:SG:11:GLY:O	2.04	0.58
74:SO:38:ASN:O	74:SO:69:SER:HB3	2.03	0.58
1:L5:161:G:H1	1:L5:274:C:N4	2.02	0.57
1:L5:318:A:C2	1:L5:4360:U:C2	2.91	0.57
1:L5:459:C:H2'	1:L5:460:C:O4'	2.04	0.57
1:L5:493:G:H2'	1:L5:494:U:H6	1.68	0.57
1:L5:510:U:OP2	29:La:86:THR:OG1	2.21	0.57
1:L5:922:C:P	21:LS:74:ARG:HH22	2.26	0.57
1:L5:1332:C:OP1	33:Le:30:LYS:HB3	2.04	0.57
1:L5:1791:U:H4'	22:LT:19:PHE:CZ	2.39	0.57
1:L5:2300:A:H4'	1:L5:2301:G:OP2	2.04	0.57
1:L5:2767:U:H3'	1:L5:2769:U:C5	2.38	0.57
1:L5:3598:C:O2'	1:L5:3599:A:H5'	2.03	0.57
1:L5:3970:G:C2'	1:L5:3971:G:H5'	2.34	0.57
1:L5:4047:A:H2'	1:L5:4047:A:N3	2.18	0.57
1:L5:4218:U:H5"	1:L5:4219:A:OP1	2.04	0.57
1:L5:4343:U:H5"	43:Lo:35:ALA:CB	2.34	0.57
1:L5:4897:G:N1	1:L5:4924:C:O2	2.31	0.57
1:L5:4999:G:H2'	1:L5:5000:G:H5'	1.85	0.57
3:L8:83:C:H4'	3:L8:86:U:O2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:172:GLY:HA3	44:Lp:68:ALA:H	1.69	0.57
5:LB:39:LYS:HD3	5:LB:42:HIS:NE2	2.19	0.57
6:LC:7:LEU:HD23	6:LC:8:ILE:N	2.19	0.57
7:LD:62:CYS:SG	7:LD:101:THR:HG22	2.43	0.57
7:LD:238:GLU:O	7:LD:242:LYS:N	2.28	0.57
9:LF:66:ARG:O	9:LF:69:ILE:HB	2.04	0.57
11:LH:12:ILE:HD13	11:LH:53:LYS:O	2.03	0.57
13:LJ:56:THR:N	13:LJ:64:ARG:HB3	2.19	0.57
16:LN:15:GLN:CG	37:Li:52:PRO:HD2	2.31	0.57
16:LN:85:VAL:HA	43:Lo:49:GLY:CA	2.34	0.57
18:LP:37:LYS:HA	18:LP:114:ILE:HG21	1.85	0.57
28:LZ:69:LYS:HA	28:LZ:115:LYS:CE	2.23	0.57
33:Le:43:ASN:OD1	33:Le:44:ARG:N	2.37	0.57
47:S2:388:U:O4	47:S2:389:A:N6	2.36	0.57
47:S2:406:U:O4	47:S2:408:A:N6	2.37	0.57
47:S2:495:U:OP1	51:SE:49:ARG:NH2	2.37	0.57
47:S2:616:A:H62	47:S2:625:G:N2	2.01	0.57
47:S2:1095:U:H5"	75:SW:22:LYS:HZ3	1.69	0.57
47:S2:1176:G:H2'	47:S2:1177:U:H6	1.69	0.57
47:S2:1335:G:H2'	47:S2:1336:C:O4'	2.03	0.57
47:S2:1435:C:H5"	47:S2:1436:C:C5'	2.17	0.57
47:S2:1598:G:H5'	77:SZ:80:ARG:HD3	1.85	0.57
47:S2:1664:A:O2'	47:S2:1665:G:OP1	2.21	0.57
48:SA:110:ASN:HD22	48:SA:113:GLN:HG3	1.69	0.57
49:SB:34:LYS:O	49:SB:98:THR:HG22	2.03	0.57
49:SB:137:LEU:HD23	49:SB:215:VAL:HG12	1.85	0.57
51:SE:71:LYS:O	51:SE:72:ILE:HD13	2.04	0.57
51:SE:71:LYS:HB2	51:SE:75:LYS:C	2.28	0.57
52:SF:67:PRO:O	52:SF:70:GLU:HB3	2.04	0.57
52:SF:204:ARG:HG3	74:SO:72:TYR:CB	2.33	0.57
53:SH:31:GLU:CB	53:SH:40:LEU:HD22	2.30	0.57
54:SI:155:ASN:HA	56:SL:25:LEU:CD2	2.34	0.57
59:SR:75:GLU:O	59:SR:79:GLU:N	2.37	0.57
60:SS:75:ARG:HG3	60:SS:76:GLN:N	2.17	0.57
61:ST:45:LEU:HD23	61:ST:46:ALA:O	2.02	0.57
64:SX:70:VAL:HG22	64:SX:71:ARG:N	2.18	0.57
64:SX:91:LEU:HD21	79:Se:6:LEU:HD22	1.85	0.57
68:Sg:56:GLN:HG3	68:Sg:57:ARG:N	2.11	0.57
68:Sg:248:LEU:HD21	68:Sg:257:LYS:HD3	1.85	0.57
70:SG:64:LYS:HZ1	70:SG:82:SER:H	1.50	0.57
76:SY:38:THR:O	76:SY:42:GLU:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:130:C:N3	1:L5:139:G:N2	2.52	0.57
1:L5:141:C:H2'	1:L5:142:G:O4'	2.04	0.57
1:L5:185:C:O2'	1:L5:187:U:O4'	2.22	0.57
1:L5:222:C:H2'	1:L5:223:G:O4'	2.04	0.57
1:L5:1215:C:C2'	1:L5:1216:C:H5"	2.25	0.57
1:L5:1251:C:O2	1:L5:1259:G:N1	2.37	0.57
1:L5:1646:A:H1'	38:Lj:49:TRP:CZ3	2.39	0.57
1:L5:1693:U:P	19:LQ:143:ARG:HH12	2.27	0.57
1:L5:1944:A:H61	1:L5:2038:U:H3	1.52	0.57
1:L5:2361:G:N2	1:L5:3860:A:OP2	2.36	0.57
1:L5:2567:G:H2'	1:L5:2568:C:C6	2.39	0.57
1:L5:2766:A:H5"	1:L5:2767:U:OP2	2.04	0.57
1:L5:3773:U:H4'	1:L5:3774:A:H5'	1.86	0.57
1:L5:4099:G:H2'	1:L5:4100:C:O4'	2.04	0.57
1:L5:4208:U:OP1	1:L5:4334:U:O2'	2.20	0.57
1:L5:4679:G:N2	1:L5:4712:C:O2	2.35	0.57
1:L5:4916:G:H2'	1:L5:4917:C:C6	2.39	0.57
1:L5:4954:G:H2'	1:L5:4954:G:N3	2.20	0.57
3:L8:76:C:O2'	3:L8:77:A:H5'	2.05	0.57
5:LB:81:THR:HG21	5:LB:207:VAL:HB	1.87	0.57
5:LB:247:GLY:O	5:LB:248:LEU:HD12	2.04	0.57
7:LD:67:ALA:HB1	22:LT:31:MET:CE	2.34	0.57
13:LJ:38:LYS:HD2	13:LJ:41:GLU:OE1	2.05	0.57
13:LJ:113:ILE:CG2	13:LJ:125:ILE:HG22	2.33	0.57
14:LL:76:PHE:HB3	14:LL:81:LEU:HD13	1.86	0.57
14:LL:112:ALA:HA	14:LL:115:GLN:HG2	1.85	0.57
21:LS:77:ASN:O	21:LS:132:ILE:N	2.37	0.57
21:LS:95:ARG:NH2	21:LS:97:TYR:HH	2.02	0.57
26:LX:116:LEU:HD12	26:LX:117:TYR:N	2.18	0.57
28:LZ:14:LEU:HD11	28:LZ:81:MET:HB2	1.86	0.57
37:Li:73:ILE:O	37:Li:77:VAL:HG22	2.04	0.57
44:Lp:79:VAL:O	44:Lp:83:ILE:HG12	2.02	0.57
47:S2:50:A:H61	47:S2:477:G:H1'	1.68	0.57
47:S2:199:C:O2'	47:S2:200:G:O4'	2.22	0.57
47:S2:1320:G:OP2	47:S2:1321:G:N2	2.37	0.57
47:S2:1540:G:H5'	61:ST:47:PRO:HB3	1.86	0.57
47:S2:1562:C:C4'	61:ST:119:GLY:HA3	2.10	0.57
47:S2:1672:U:H3'	58:SQ:17:LYS:HZ1	1.70	0.57
47:S2:1838:U:H4'	74:SO:151:LEU:C	2.30	0.57
47:S2:1865:C:N3	65:Sa:5:ARG:HB2	2.19	0.57
50:SD:163:PRO:HA	50:SD:166:TYR:CE1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:9:LEU:HD21	51:SE:14:ALA:HB2	1.86	0.57
51:SE:15:PRO:O	51:SE:18:TRP:HE3	1.86	0.57
52:SF:21:GLY:CA	52:SF:48:TYR:HA	2.34	0.57
66:Sc:62:GLU:OE1	74:SO:121:ARG:NE	2.37	0.57
67:Sd:8:TRP:O	67:Sd:9:SER:OG	2.18	0.57
68:Sg:54:ILE:CG1	68:Sg:55:PRO:HD2	2.34	0.57
68:Sg:165:ILE:CG1	68:Sg:177:TRP:HB2	2.33	0.57
71:SJ:114:VAL:O	71:SJ:119:LEU:HB2	2.03	0.57
72:SM:24:THR:CG2	72:SM:115:GLY:HA2	2.34	0.57
80:Sf:121:CYS:HB3	80:Sf:130:VAL:HG11	1.87	0.57
1:L5:1444:G:H1'	1:L5:2102:G:N2	2.20	0.57
1:L5:2077:C:O2'	1:L5:2078:C:H5'	2.04	0.57
1:L5:2367:A:H1'	1:L5:2798:A:N1	2.19	0.57
1:L5:3765:G:N3	1:L5:3765:G:H2'	2.18	0.57
1:L5:3806:G:O2'	1:L5:3807:A:H5'	2.04	0.57
1:L5:4525:C:O2'	1:L5:4526:U:H5'	2.04	0.57
1:L5:4653:C:OP1	32:Ld:79:ASN:ND2	2.37	0.57
1:L5:4956:A:H2'	1:L5:4957:C:C6	2.39	0.57
1:L5:5053:U:H3'	1:L5:5054:C:C5	2.39	0.57
2:L7:104:C:H2'	2:L7:105:C:H5'	1.86	0.57
6:LC:296:PRO:O	6:LC:300:ARG:HG2	2.04	0.57
8:LE:95:PRO:HG2	8:LE:96:VAL:CA	2.33	0.57
9:LF:125:LEU:CD1	9:LF:144:TYR:HE1	2.17	0.57
9:LF:180:GLY:HA2	9:LF:184:ILE:O	2.04	0.57
11:LH:143:GLU:C	11:LH:144:LEU:HD12	2.29	0.57
16:LN:113:LEU:CD2	16:LN:136:ASP:HB3	2.34	0.57
19:LQ:85:THR:HG22	19:LQ:104:ARG:HB3	1.87	0.57
19:LQ:178:ARG:O	29:La:51:GLY:N	2.36	0.57
24:LV:94:VAL:CG1	25:LW:20:ARG:HH12	2.18	0.57
28:LZ:26:VAL:HG22	28:LZ:42:LEU:HD22	1.85	0.57
28:LZ:50:PRO:HG3	28:LZ:122:TYR:CE1	2.40	0.57
32:Ld:98:SER:O	32:Ld:101:LYS:NZ	2.29	0.57
36:Lh:62:ASN:HA	36:Lh:65:GLN:CD	2.29	0.57
42:Ln:23:ARG:C	42:Ln:24:SER:O	2.47	0.57
45:Lr:119:ARG:HG3	45:Lr:122:LYS:NZ	2.18	0.57
47:S2:538:U:O2	47:S2:540:U:H5'	2.05	0.57
47:S2:589:G:O2'	47:S2:590:A:O5'	2.18	0.57
47:S2:831:G:H2'	47:S2:832:G:H5'	1.86	0.57
47:S2:842:C:H2'	47:S2:843:C:H6	1.69	0.57
47:S2:1378:A:H4'	47:S2:1379:A:O5'	2.04	0.57
47:S2:1428:G:H2'	47:S2:1429:G:H8	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1620:A:H2'	47:S2:1620:A:N3	2.18	0.57
47:S2:1725:U:H3'	47:S2:1726:G:H5"	1.84	0.57
47:S2:1747:C:H2'	47:S2:1748:G:H4'	1.86	0.57
48:SA:144:THR:O	48:SA:158:ASP:HB2	2.03	0.57
48:SA:184:ARG:HE	48:SA:189:ILE:CD1	2.18	0.57
49:SB:30:TRP:NE1	74:SO:19:PRO:HD3	2.18	0.57
49:SB:40:ASN:HB3	49:SB:74:LEU:O	2.04	0.57
50:SD:76:ARG:HB2	55:SK:22:VAL:HG11	1.85	0.57
50:SD:162:ASP:O	50:SD:164:VAL:N	2.36	0.57
51:SE:137:PRO:CB	51:SE:150:PRO:HD2	2.34	0.57
54:SI:42:ARG:CZ	54:SI:59:ARG:HH11	2.17	0.57
58:SQ:16:LYS:O	58:SQ:18:THR:N	2.36	0.57
59:SR:67:ARG:CG	59:SR:69:ILE:HD11	2.30	0.57
62:SU:61:LEU:CB	62:SU:82:MET:HB3	2.15	0.57
63:SV:15:ARG:HB2	63:SV:24:ILE:CD1	2.22	0.57
69:SC:170:TRP:CZ3	69:SC:199:PRO:HG3	2.39	0.57
69:SC:204:ILE:HD11	69:SC:220:ASP:HA	1.85	0.57
73:SN:146:ALA:HA	73:SN:149:LEU:HB2	1.87	0.57
77:SZ:70:PRO:HD3	77:SZ:108:ILE:H	1.69	0.57
1:L5:112:C:H5'	1:L5:156:G:C6	2.40	0.57
1:L5:917:A:H4'	1:L5:918:G:N2	2.19	0.57
1:L5:1277:G:H2'	1:L5:1278:C:O4'	2.04	0.57
1:L5:1346:C:H42	1:L5:1510:G:H1	1.52	0.57
1:L5:1809:C:H2'	1:L5:1810:G:C8	2.39	0.57
1:L5:2277:C:O2'	1:L5:2278:G:H5'	2.04	0.57
1:L5:2487:G:N1	1:L5:2492:C:N3	2.53	0.57
1:L5:2832:A:OP1	32:Ld:47:LYS:NZ	2.35	0.57
1:L5:3856:A:C2'	1:L5:3857:G:H5'	2.34	0.57
1:L5:3963:A:N6	1:L5:3966:A:O5'	2.37	0.57
1:L5:4103:C:H2'	1:L5:4105:A:N1	2.20	0.57
1:L5:4134:C:H2'	1:L5:4135:G:O4'	2.04	0.57
1:L5:5062:G:N2	1:L5:5063:G:H1'	2.19	0.57
3:L8:120:G:H2'	3:L8:121:G:C8	2.40	0.57
6:LC:200:ARG:HH21	6:LC:201:ARG:HH12	1.53	0.57
6:LC:331:TYR:CB	9:LF:54:ALA:HB3	2.33	0.57
7:LD:133:GLU:N	7:LD:133:GLU:OE1	2.37	0.57
7:LD:163:LEU:O	7:LD:167:VAL:N	2.36	0.57
8:LE:262:LYS:NZ	8:LE:268:GLN:OE1	2.37	0.57
12:LI:36:LEU:HD11	12:LI:69:ARG:HH21	1.68	0.57
12:LI:65:LEU:HD11	12:LI:93:PRO:HB3	1.84	0.57
15:LM:40:GLY:HA3	15:LM:43:THR:CG2	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:LN:7:ILE:HA	16:LN:10:LEU:HB3	1.87	0.57
20:LR:53:LYS:HG2	20:LR:54:PRO:HD2	1.85	0.57
25:LW:86:SER:C	25:LW:89:ASP:H	2.12	0.57
27:LY:53:ASP:O	27:LY:70:VAL:N	2.28	0.57
28:LZ:3:LYS:O	28:LZ:6:LYS:HD3	2.05	0.57
39:Lk:5:ILE:O	39:Lk:45:LEU:HD12	2.04	0.57
39:Lk:25:ILE:HD13	39:Lk:66:VAL:HB	1.86	0.57
44:Lp:73:THR:O	44:Lp:77:VAL:HG23	2.05	0.57
47:S2:561:A:H2'	47:S2:562:U:H5"	1.87	0.57
47:S2:880:G:H22	47:S2:907:G:H22	1.52	0.57
47:S2:1255:G:OP1	47:S2:1256:G:O2'	2.16	0.57
47:S2:1456:G:N3	47:S2:1456:G:H2'	2.19	0.57
48:SA:61:ALA:HB1	48:SA:145:ILE:HD11	1.87	0.57
48:SA:189:ILE:HG22	48:SA:195:TRP:CD1	2.39	0.57
52:SF:176:GLU:HA	52:SF:179:ASN:ND2	2.20	0.57
54:SI:107:THR:OG1	54:SI:108:PRO:HD3	2.03	0.57
59:SR:58:MET:HA	59:SR:61:ILE:HG23	1.85	0.57
63:SV:1:MET:HA	63:SV:9:VAL:HG22	1.86	0.57
68:Sg:306:LEU:HD21	68:Sg:308:ARG:HH21	1.68	0.57
70:SG:27:PHE:HE1	70:SG:36:VAL:CG1	2.17	0.57
74:SO:102:GLY:N	74:SO:134:PRO:HG2	2.20	0.57
76:SY:27:VAL:HG11	76:SY:35:VAL:CG2	2.34	0.57
80:Sf:102:VAL:HG23	80:Sf:102:VAL:O	2.05	0.57
1:L5:133:C:C4	36:Lh:74:LYS:HA	2.38	0.57
1:L5:169:G:C6	1:L5:170:C:H5	2.23	0.57
1:L5:267:G:OP2	36:Lh:109:ARG:NH2	2.36	0.57
1:L5:660:A:H2'	1:L5:661:C:H6	1.66	0.57
1:L5:987:C:N4	1:L5:1066:G:H22	2.01	0.57
1:L5:1172:C:N3	1:L5:1173:G:N1	2.52	0.57
1:L5:1350:C:O2'	1:L5:1351:G:H5'	2.04	0.57
1:L5:1732:C:O2'	1:L5:1733:G:H5'	2.05	0.57
1:L5:1811:G:H1'	30:Lb:57:MET:HE1	1.86	0.57
1:L5:2350:U:C5'	1:L5:2351:C:H5"	2.34	0.57
1:L5:2457:G:OP1	16:LN:65:ARG:NH1	2.36	0.57
1:L5:2805:C:H5	1:L5:2806:A:C5	2.22	0.57
1:L5:3721:U:O2'	1:L5:3722:G:H5'	2.04	0.57
1:L5:4118:U:O4	4:LA:95:GLN:HG2	2.04	0.57
1:L5:4129:G:OP1	28:LZ:55:ALA:HB2	2.05	0.57
1:L5:4302:U:H5"	1:L5:4303:C:OP2	2.04	0.57
1:L5:4306:U:C2'	1:L5:4307:A:H5'	2.33	0.57
1:L5:4689:U:H5"	11:LH:151:ILE:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4774:C:N3	1:L5:4862:G:H1'	2.19	0.57
5:LB:103:LYS:HD3	5:LB:149:ASP:CG	2.30	0.57
8:LE:62:MET:O	8:LE:66:LYS:HG2	2.05	0.57
8:LE:95:PRO:CD	8:LE:96:VAL:HA	2.34	0.57
12:LI:26:VAL:HG22	12:LI:122:PRO:CB	2.33	0.57
13:LJ:50:PHE:HB2	13:LJ:67:LYS:HZ1	1.68	0.57
16:LN:113:LEU:HD23	16:LN:136:ASP:HB3	1.87	0.57
28:LZ:11:VAL:HG21	28:LZ:80:LEU:HD22	1.85	0.57
32:Ld:105:LEU:HG	32:Ld:107:THR:HG23	1.87	0.57
33:Le:6:PRO:CA	33:Le:74:PHE:HE1	2.17	0.57
46:Lz:29:LEU:HD22	46:Lz:173:LYS:HB2	1.86	0.57
46:Lz:41:TYR:CD2	46:Lz:162:VAL:HG13	2.40	0.57
47:S2:101:U:H5"	54:SI:19:LYS:HE2	1.86	0.57
47:S2:465:A:H5'	47:S2:466:G:C6	2.40	0.57
47:S2:808:A:C2'	47:S2:809:A:H5'	2.35	0.57
47:S2:940:U:H2'	47:S2:941:C:C6	2.40	0.57
47:S2:1272:C:C5	47:S2:1273:C:H1'	2.39	0.57
47:S2:1361:G:H21	47:S2:1379:A:N6	2.03	0.57
47:S2:1397:U:H3	47:S2:1442:U:H1'	1.67	0.57
47:S2:1407:U:O4	47:S2:1440:C:N4	2.30	0.57
47:S2:1522:A:C2	60:SS:145:THR:HG21	2.38	0.57
52:SF:127:ARG:HH11	66:Sc:45:ASN:HB2	1.68	0.57
55:SK:85:LEU:HD12	55:SK:85:LEU:O	2.04	0.57
56:SL:47:PRO:HD2	56:SL:62:PHE:CE2	2.39	0.57
57:SP:84:ILE:HG23	57:SP:85:ILE:N	2.19	0.57
59:SR:50:ILE:O	59:SR:54:VAL:HG23	2.03	0.57
61:ST:108:GLU:HB2	61:ST:113:VAL:HG13	1.85	0.57
61:ST:112:MET:HE3	61:ST:123:LEU:HD22	1.85	0.57
61:ST:125:PRO:CA	61:ST:128:GLN:HB3	2.26	0.57
62:SU:98:VAL:O	62:SU:102:THR:HG23	2.04	0.57
64:SX:94:ILE:HD12	64:SX:125:VAL:HG21	1.87	0.57
68:Sg:206:LEU:HD21	68:Sg:227:LEU:HD13	1.86	0.57
69:SC:165:VAL:CG2	69:SC:244:ILE:HD13	2.33	0.57
72:SM:60:MET:CE	72:SM:63:LYS:HD2	2.34	0.57
73:SN:37:ILE:HD13	73:SN:74:ILE:CG2	2.35	0.57
77:SZ:68:ILE:HB	77:SZ:109:TYR:CB	2.26	0.57
1:L5:177:G:H22	1:L5:259:C:H42	1.51	0.57
1:L5:1440:U:H1'	1:L5:2109:G:O2'	2.04	0.57
1:L5:1681:G:N2	29:La:40:HIS:HB2	2.18	0.57
1:L5:2104:G:N2	1:L5:2105:A:H1'	2.18	0.57
1:L5:2329:U:H2'	1:L5:2330:G:O4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2474:G:C5	26:LX:47:ARG:HG2	2.39	0.57
1:L5:2550:G:H2'	1:L5:2551:A:H8	1.68	0.57
1:L5:2901:G:N3	1:L5:2901:G:H2'	2.19	0.57
1:L5:4053:A:H2'	1:L5:4053:A:N3	2.18	0.57
1:L5:4886:C:O2'	1:L5:4887:C:H5'	2.03	0.57
4:LA:142:GLU:C	4:LA:144:LYS:H	2.12	0.57
5:LB:32:PHE:HB2	5:LB:184:GLN:OE1	2.05	0.57
7:LD:90:VAL:HG11	7:LD:229:ASN:ND2	2.19	0.57
7:LD:231:VAL:HA	7:LD:235:MET:SD	2.44	0.57
9:LF:110:GLN:C	9:LF:113:ARG:H	2.11	0.57
10:LG:32:PHE:CE1	28:LZ:55:ALA:HA	2.39	0.57
11:LH:148:GLY:HA3	11:LH:154:VAL:HG21	1.86	0.57
12:LI:48:LEU:HD21	12:LI:145:GLU:HB3	1.86	0.57
12:LI:189:CYS:O	12:LI:200:VAL:HB	2.04	0.57
13:LJ:19:LYS:CG	13:LJ:133:VAL:HB	2.35	0.57
15:LM:29:ASP:OD1	15:LM:30:VAL:N	2.38	0.57
17:LO:167:HIS:O	17:LO:170:LYS:HB3	2.04	0.57
24:LV:78:PRO:HG2	24:LV:106:VAL:O	2.03	0.57
25:LW:83:THR:CA	70:SG:131:ARG:HB2	2.23	0.57
27:LY:72:GLN:HG2	27:LY:73:VAL:O	2.05	0.57
41:Lm:87:GLN:CB	41:Lm:91:CYS:HB3	2.31	0.57
43:Lo:4:VAL:O	43:Lo:94:GLY:N	2.37	0.57
47:S2:53:C:OP2	76:SY:112:ASN:ND2	2.38	0.57
47:S2:78:C:C2'	70:SG:175:LYS:HZ1	2.18	0.57
47:S2:372:U:OP1	56:SL:136:LYS:NZ	2.29	0.57
47:S2:929:G:N2	47:S2:1104:G:H4'	2.20	0.57
47:S2:943:U:OP1	49:SB:214:LYS:NZ	2.32	0.57
47:S2:1846:G:O2'	47:S2:1847:G:H5'	2.04	0.57
50:SD:25:LEU:HB3	50:SD:34:TYR:HE1	1.70	0.57
51:SE:15:PRO:HD2	51:SE:18:TRP:HZ3	1.70	0.57
52:SF:59:LYS:H	52:SF:62:ARG:HD3	1.69	0.57
55:SK:59:LYS:O	55:SK:69:TRP:HA	2.04	0.57
55:SK:72:THR:O	55:SK:76:ILE:HG23	2.04	0.57
56:SL:60:CYS:SG	56:SL:114:SER:OG	2.48	0.57
63:SV:23:ILE:HD11	69:SC:251:LEU:HD13	1.85	0.57
64:SX:107:ARG:HB3	64:SX:112:VAL:CG2	2.34	0.57
68:Sg:20:GLN:NE2	68:Sg:110:SER:OG	2.37	0.57
68:Sg:166:VAL:HB	68:Sg:198:VAL:CG1	2.35	0.57
68:Sg:198:VAL:CG2	68:Sg:207:CYS:HB3	2.33	0.57
72:SM:63:LYS:HA	72:SM:66:GLU:CD	2.30	0.57
75:SW:7:LEU:HD12	75:SW:34:ILE:HG12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:SW:81:VAL:HG21	75:SW:125:ILE:HD11	1.86	0.57
76:SY:27:VAL:HG12	76:SY:29:HIS:HD2	1.69	0.57
76:SY:28:LEU:HD13	76:SY:68:LYS:NZ	2.20	0.57
80:Sf:139:HIS:HB2	80:Sf:148:TYR:HB3	1.87	0.57
1:L5:115:C:H5	1:L5:116:G:N9	2.03	0.57
1:L5:745:G:H22	1:L5:919:C:H42	1.53	0.57
1:L5:993:G:O2'	1:L5:994:G:H5'	2.04	0.57
1:L5:1592:G:C2'	1:L5:1593:A:H5'	2.35	0.57
1:L5:1757:U:O2	1:L5:1757:U:H2'	2.05	0.57
1:L5:1827:C:O2'	1:L5:1828:C:H5'	2.04	0.57
1:L5:1921:C:H4'	1:L5:1922:G:OP2	2.04	0.57
1:L5:2426:U:O2'	1:L5:2427:G:H5'	2.05	0.57
1:L5:2579:G:N2	1:L5:2582:A:OP2	2.25	0.57
1:L5:2595:C:H2'	1:L5:2596:G:O4'	2.05	0.57
1:L5:2693:G:O6	1:L5:2694:G:N1	2.36	0.57
1:L5:3626:G:O2'	1:L5:3627:G:H5'	2.04	0.57
1:L5:3706:C:H5"	4:LA:226:ARG:HB3	1.85	0.57
1:L5:3870:C:O2'	17:LO:62:MET:HE2	2.04	0.57
1:L5:4338:G:N1	1:L5:4373:G:OP1	2.31	0.57
1:L5:4571:A:C2'	1:L5:4572:U:H5'	2.34	0.57
1:L5:4731:G:H4'	1:L5:4732:G:C2	2.39	0.57
6:LC:218:ILE:HA	6:LC:229:LEU:HD13	1.86	0.57
6:LC:279:LEU:CG	6:LC:280:PRO:HD2	2.35	0.57
7:LD:211:LEU:HB2	7:LD:219:TYR:HD2	1.69	0.57
8:LE:278:THR:O	8:LE:280:GLY:N	2.36	0.57
11:LH:174:LYS:HG3	11:LH:175:PHE:N	2.20	0.57
22:LT:72:VAL:HG12	22:LT:73:GLY:O	2.05	0.57
26:LX:119:ILE:HD11	26:LX:140:LEU:CD1	2.32	0.57
29:La:37:GLY:CA	29:La:41:HIS:HB2	2.33	0.57
31:Lc:64:ALA:O	31:Lc:68:LYS:N	2.35	0.57
45:Lr:28:GLU:OE2	45:Lr:31:ASN:HB2	2.04	0.57
47:S2:126:G:H22	70:SG:195:LYS:C	2.13	0.57
47:S2:311:C:H3'	47:S2:312:G:O4'	2.05	0.57
47:S2:894:G:C3'	47:S2:895:G:H5"	2.35	0.57
47:S2:963:A:OP2	74:SO:65:ASP:HB3	2.04	0.57
47:S2:1275:G:HO2'	47:S2:1322:G:H22	1.49	0.57
47:S2:1289:U:O4	80:Sf:97:LYS:NZ	2.27	0.57
47:S2:1298:G:H4'	57:SP:78:THR:CG2	2.33	0.57
47:S2:1617:G:H3'	47:S2:1618:C:H5"	1.86	0.57
48:SA:30:LEU:HD21	48:SA:35:GLU:CB	2.35	0.57
48:SA:63:ARG:HG2	63:SV:36:VAL:HG13	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:SB:79:VAL:HG13	49:SB:81:PHE:CD2	2.39	0.57
51:SE:44:LEU:O	51:SE:48:LEU:HD13	2.05	0.57
52:SF:86:LYS:O	52:SF:90:VAL:HG23	2.05	0.57
53:SH:33:ASN:O	53:SH:34:SER:OG	2.16	0.57
53:SH:58:LYS:HD2	53:SH:90:LYS:CE	2.34	0.57
66:Sc:34:PHE:CE2	66:Sc:40:ARG:HG2	2.40	0.57
68:Sg:270:LEU:HD13	68:Sg:310:TRP:HD1	1.70	0.57
70:SG:33:ALA:N	70:SG:52:ILE:O	2.25	0.57
72:SM:35:ILE:HD11	72:SM:61:TYR:HE1	1.69	0.57
76:SY:114:MET:O	76:SY:117:VAL:HG22	2.04	0.57
77:SZ:46:ASN:HB3	77:SZ:80:ARG:HB2	1.86	0.57
1:L5:31:U:H2'	1:L5:32:G:C5'	2.35	0.57
1:L5:1594:C:C2'	1:L5:1595:G:H5'	2.34	0.57
1:L5:1674:C:H4'	1:L5:4376:A:N7	2.20	0.57
1:L5:1769:G:N7	1:L5:1770:A:N6	2.52	0.57
1:L5:2082:G:O2'	1:L5:2083:C:H5'	2.05	0.57
1:L5:2447:U:H1'	1:L5:2744:A:H2	1.70	0.57
1:L5:2607:C:O2'	1:L5:2608:G:H5'	2.05	0.57
1:L5:2765:A:C2'	1:L5:2766:A:H5'	2.34	0.57
1:L5:3856:A:H2'	1:L5:3857:G:H5'	1.86	0.57
1:L5:4093:G:H2'	1:L5:4094:G:N9	2.19	0.57
1:L5:4362:A:H2'	1:L5:4363:A:C8	2.37	0.57
3:L8:44:A:O2'	3:L8:45:C:H5'	2.04	0.57
8:LE:150:LEU:HD12	8:LE:175:VAL:HG12	1.87	0.57
9:LF:120:GLY:O	9:LF:121:THR:OG1	2.20	0.57
9:LF:143:GLY:HA3	9:LF:240:ILE:HB	1.86	0.57
10:LG:144:THR:CG2	16:LN:3:ALA:HB2	2.35	0.57
11:LH:137:SER:CB	11:LH:145:ILE:HD12	2.34	0.57
16:LN:36:LEU:CD1	16:LN:64:ILE:HG22	2.35	0.57
16:LN:49:ARG:HA	16:LN:53:TYR:HB3	1.86	0.57
24:LV:94:VAL:HB	25:LW:20:ARG:HH12	1.68	0.57
27:LY:70:VAL:HG22	27:LY:82:ILE:CD1	2.35	0.57
28:LZ:12:LEU:CD2	28:LZ:22:LYS:HG2	2.35	0.57
28:LZ:54:THR:HG22	28:LZ:57:MET:CE	2.32	0.57
28:LZ:123:LYS:O	28:LZ:124:THR:OG1	2.22	0.57
31:Lc:74:TYR:CE2	31:Lc:81:LEU:HD13	2.38	0.57
32:Ld:106:VAL:O	32:Ld:106:VAL:HG12	2.03	0.57
47:S2:141:A:O2'	47:S2:178:C:O2	2.19	0.57
47:S2:442:C:C1'	70:SG:92:ARG:HH12	2.17	0.57
47:S2:538:U:H2'	47:S2:540:U:C5'	2.34	0.57
47:S2:744:G:H21	53:SH:107:LYS:CB	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:809:A:OP2	51:SE:187:ALA:N	2.25	0.57
47:S2:1057:C:H5	47:S2:1059:G:H5"	1.69	0.57
47:S2:1189:A:H2'	47:S2:1190:A:C8	2.39	0.57
47:S2:1258:A:N6	47:S2:1660:C:O4'	2.38	0.57
47:S2:1630:A:C5'	60:SS:37:GLY:HA3	2.35	0.57
47:S2:1736:G:H2'	47:S2:1737:G:C8	2.36	0.57
48:SA:99:ILE:HD11	48:SA:117:ARG:NH1	2.19	0.57
49:SB:28:LYS:HD3	49:SB:48:LEU:HD21	1.86	0.57
49:SB:30:TRP:NE1	74:SO:18:GLY:HA2	2.20	0.57
50:SD:211:VAL:HG22	59:SR:38:ILE:O	2.05	0.57
54:SI:113:TYR:CB	54:SI:121:LEU:HD22	2.32	0.57
56:SL:95:TYR:CD1	56:SL:102:PHE:HE1	2.23	0.57
68:Sg:22:ALA:HB3	68:Sg:32:LEU:HD21	1.86	0.57
68:Sg:40:ILE:HB	68:Sg:59:LEU:CB	2.32	0.57
68:Sg:130:LYS:HD2	68:Sg:141:THR:CG2	2.11	0.57
70:SG:2:LYS:O	70:SG:108:VAL:HA	2.04	0.57
71:SJ:4:ALA:HB3	71:SJ:5:ARG:CA	2.25	0.57
71:SJ:38:ARG:CB	71:SJ:127:ARG:HH22	2.15	0.57
72:SM:40:LYS:HD3	72:SM:42:LEU:HB2	1.87	0.57
1:L5:991:C:C3'	1:L5:992:C:H5'	2.34	0.57
1:L5:1070:G:O2'	1:L5:1071:C:O4'	2.23	0.57
1:L5:1455:G:H2'	1:L5:1456:C:H6	1.69	0.57
1:L5:1884:C:H42	1:L5:1895:G:H1	1.53	0.57
1:L5:1888:A:H5"	1:L5:1889:U:OP2	2.05	0.57
1:L5:2634:C:O2'	1:L5:2635:U:H5'	2.04	0.57
2:L7:18:C:H5"	13:LJ:154:LYS:NZ	2.20	0.57
4:LA:138:SER:OG	4:LA:147:ARG:HD3	2.04	0.57
5:LB:216:MET:HG2	5:LB:283:LYS:CB	2.29	0.57
7:LD:289:ARG:O	7:LD:293:ARG:N	2.37	0.57
10:LG:95:LEU:CD1	10:LG:218:LEU:HD13	2.34	0.57
11:LH:7:ASN:ND2	11:LH:58:ASP:OD1	2.37	0.57
13:LJ:114:ASP:O	13:LJ:115:LEU:HD12	2.04	0.57
14:LL:31:ARG:CA	14:LL:34:ARG:HG2	2.35	0.57
23:LU:23:LEU:CD2	23:LU:70:ILE:HD13	2.35	0.57
24:LV:28:CYS:N	24:LV:35:LYS:O	2.35	0.57
27:LY:118:ILE:CG1	27:LY:122:LYS:HE3	2.35	0.57
30:Lb:21:ILE:HG22	30:Lb:21:ILE:O	2.04	0.57
34:Lf:50:VAL:HG21	34:Lf:102:ARG:NH2	2.19	0.57
36:Lh:21:LEU:HD11	36:Lh:58:LEU:HD21	1.87	0.57
36:Lh:58:LEU:HA	36:Lh:61:ILE:HG22	1.87	0.57
47:S2:1306:U:OP2	47:S2:1306:U:H4'	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1453:C:O2'	47:S2:1455:A:OP1	2.22	0.57
47:S2:1777:G:H2'	47:S2:1778:C:O4'	2.05	0.57
47:S2:1859:A:N6	47:S2:1860:A:H61	2.03	0.57
51:SE:62:LYS:O	51:SE:66:MET:HG2	2.05	0.57
51:SE:199:GLU:O	51:SE:206:ASP:HB3	2.04	0.57
54:SI:80:ASP:OD1	54:SI:94:LYS:HD2	2.04	0.57
54:SI:149:TYR:HE1	54:SI:152:ARG:NH1	2.03	0.57
54:SI:193:LYS:HA	54:SI:196:GLU:OE1	2.04	0.57
55:SK:80:ARG:C	55:SK:85:LEU:HD23	2.30	0.57
60:SS:72:GLN:O	60:SS:73:ASN:ND2	2.38	0.57
60:SS:84:LEU:CB	60:SS:97:GLN:HB2	2.34	0.57
66:Sc:43:ILE:CD1	66:Sc:66:ARG:HH11	2.18	0.57
69:SC:200:ARG:O	71:SJ:54:ARG:NH2	2.37	0.57
70:SG:213:LEU:HD23	70:SG:217:MET:HE2	1.87	0.57
72:SM:24:THR:CA	72:SM:116:LYS:HB2	2.27	0.57
72:SM:85:LEU:HG	72:SM:106:CYS:SG	2.45	0.57
76:SY:24:VAL:HG22	76:SY:72:PHE:CE1	2.40	0.57
76:SY:58:PHE:N	76:SY:72:PHE:O	2.28	0.57
80:Sf:119:ARG:HD3	80:Sf:132:MET:CE	2.34	0.57
1:L5:119:G:H3'	1:L5:120:A:H5'	1.85	0.57
1:L5:649:A:H2'	1:L5:649:A:N3	2.20	0.57
1:L5:1252:C:C2'	1:L5:1258:G:H22	2.16	0.57
1:L5:1408:G:N2	1:L5:1412:G:H22	2.01	0.57
1:L5:1597:G:OP2	18:LP:131:ARG:HB2	2.05	0.57
1:L5:2589:C:H2'	1:L5:2590:G:H5'	1.87	0.57
1:L5:2706:G:H2'	1:L5:2706:G:N3	2.19	0.57
1:L5:2733:C:O2'	1:L5:2734:U:H5'	2.05	0.57
1:L5:3638:G:N1	1:L5:3651:A:C2	2.73	0.57
1:L5:3710:G:H2'	1:L5:3712:A:C2	2.39	0.57
1:L5:4633:G:O3'	1:L5:4634:U:H3'	2.04	0.57
3:L8:41:A:H2'	3:L8:42:G:H5'	1.86	0.57
3:L8:133:G:O2'	3:L8:134:G:H5'	2.05	0.57
5:LB:139:ASP:OD1	5:LB:140:GLU:N	2.38	0.57
6:LC:332:ALA:HA	6:LC:335:MET:HE2	1.87	0.57
8:LE:96:VAL:HG21	8:LE:105:ARG:NH1	2.18	0.57
9:LF:56:HIS:O	9:LF:59:LYS:HB3	2.04	0.57
10:LG:118:ALA:HA	10:LG:121:LYS:HD2	1.87	0.57
12:LI:90:ARG:HH21	12:LI:134:VAL:HG11	1.68	0.57
12:LI:176:PHE:HZ	12:LI:199:TYR:HB2	1.70	0.57
12:LI:208:LYS:HA	12:LI:211:VAL:HB	1.87	0.57
15:LM:40:GLY:O	15:LM:43:THR:HG22	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:LM:61:ILE:HD12	15:LM:63:LYS:HE2	1.87	0.57
16:LN:152:THR:HG21	36:Lh:95:LEU:HD11	1.86	0.57
18:LP:126:ARG:CB	18:LP:140:MET:HE1	2.27	0.57
21:LS:147:ASP:N	21:LS:150:ILE:HD11	2.20	0.57
22:LT:78:LYS:HD2	22:LT:79:GLN:H	1.68	0.57
24:LV:112:MET:CE	24:LV:117:ILE:HD11	2.35	0.57
25:LW:101:ARG:NE	25:LW:105:ARG:HD3	2.20	0.57
28:LZ:33:THR:CG2	28:LZ:37:PRO:HA	2.35	0.57
43:Lo:20:PRO:O	43:Lo:73:VAL:HG22	2.05	0.57
46:Lz:139:THR:OG1	46:Lz:141:ASN:OD1	2.13	0.57
47:S2:127:C:H4'	47:S2:128:U:OP1	2.05	0.57
47:S2:678:U:O2'	47:S2:679:A:H5'	2.05	0.57
47:S2:684:G:H2'	47:S2:685:A:H8	1.70	0.57
47:S2:940:U:H3	47:S2:1002:U:H3	1.53	0.57
47:S2:1123:C:O2'	49:SB:148:ASN:OD1	2.23	0.57
47:S2:1408:U:H5	47:S2:1409:A:N3	2.02	0.57
48:SA:38:ILE:HG12	48:SA:47:TYR:HD1	1.68	0.57
48:SA:193:HIS:CE1	48:SA:194:PRO:HD2	2.39	0.57
49:SB:48:LEU:HD12	49:SB:49:VAL:N	2.20	0.57
49:SB:89:GLU:HG2	49:SB:223:PHE:CE1	2.40	0.57
50:SD:76:ARG:H	55:SK:22:VAL:HG11	1.69	0.57
56:SL:103:GLU:HB3	64:SX:10:ALA:HB3	1.86	0.57
57:SP:85:ILE:HD13	60:SS:117:ILE:HD13	1.86	0.57
58:SQ:27:ARG:HA	58:SQ:66:VAL:HA	1.87	0.57
60:SS:110:ASP:O	60:SS:114:LEU:HG	2.04	0.57
61:ST:56:ARG:O	61:ST:60:THR:N	2.36	0.57
65:Sa:19:GLN:O	65:Sa:32:LYS:N	2.31	0.57
68:Sg:236:ILE:HG12	68:Sg:257:LYS:NZ	2.20	0.57
70:SG:39:ASP:HB2	70:SG:47:GLY:H	1.68	0.57
70:SG:48:TYR:OH	70:SG:114:VAL:HG22	2.05	0.57
70:SG:181:THR:HG22	70:SG:184:VAL:CG2	2.29	0.57
71:SJ:12:THR:HG22	71:SJ:12:THR:O	2.04	0.57
71:SJ:120:ALA:HB2	71:SJ:129:LEU:HD12	1.87	0.57
72:SM:18:LEU:HD21	72:SM:51:VAL:CG2	2.29	0.57
76:SY:29:HIS:CD2	76:SY:35:VAL:HG13	2.40	0.57
1:L5:1376:C:C3'	1:L5:1377:G:H5'	2.35	0.56
1:L5:1833:G:C8	22:LT:116:LYS:HG3	2.40	0.56
1:L5:2107:C:N4	1:L5:2127:C:N3	2.52	0.56
1:L5:2375:A:H2	1:L5:2386:U:H3	1.52	0.56
1:L5:2395:A:C2	35:Lg:4:ARG:HD3	2.40	0.56
1:L5:3658:C:N4	1:L5:3686:G:O6	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3707:U:O2	1:L5:3744:G:N2	2.38	0.56
1:L5:3773:U:H4'	1:L5:3774:A:C5'	2.35	0.56
1:L5:4154:G:N3	1:L5:4154:G:H2'	2.20	0.56
1:L5:4306:U:H2'	1:L5:4307:A:H5'	1.87	0.56
1:L5:4913:G:HO2'	1:L5:4914:C:P	2.28	0.56
2:L7:39:C:N3	13:LJ:73:THR:HG22	2.20	0.56
2:L7:40:U:H5"	2:L7:41:G:OP2	2.05	0.56
10:LG:165:GLU:OE2	16:LN:11:TRP:NE1	2.38	0.56
11:LH:123:ILE:O	11:LH:125:ARG:HG3	2.04	0.56
15:LM:123:ILE:HG21	17:LO:178:ARG:HD3	1.87	0.56
17:LO:125:LYS:CG	17:LO:129:LEU:HD12	2.33	0.56
21:LS:81:TRP:CZ3	21:LS:128:LYS:HE3	2.39	0.56
21:LS:174:THR:CG2	21:LS:175:PHE:H	2.11	0.56
24:LV:70:PRO:HG2	47:S2:1724:A:H5'	1.86	0.56
26:LX:77:ILE:HD11	26:LX:112:ALA:HB3	1.87	0.56
32:Ld:26:THR:HG23	32:Ld:26:THR:O	2.04	0.56
33:Le:113:GLU:O	33:Le:116:ALA:HB3	2.05	0.56
43:Lo:71:GLU:HB3	43:Lo:80:LYS:HG2	1.87	0.56
47:S2:60:A:H61	47:S2:333:G:N2	2.03	0.56
47:S2:361:U:C5	47:S2:1175:G:C2	2.93	0.56
47:S2:380:G:O6	54:SI:178:ARG:NH2	2.36	0.56
47:S2:808:A:H2'	47:S2:809:A:C5'	2.35	0.56
47:S2:924:G:H2'	47:S2:925:G:C8	2.37	0.56
52:SF:142:SER:HB3	52:SF:145:ARG:CB	2.35	0.56
53:SH:61:ILE:HD12	53:SH:63:PHE:HE1	1.70	0.56
53:SH:87:PHE:CE2	53:SH:90:LYS:HD2	2.40	0.56
60:SS:65:GLU:HA	60:SS:68:ILE:HG12	1.87	0.56
61:ST:34:VAL:O	61:ST:52:TRP:NE1	2.37	0.56
62:SU:20:ILE:HG21	62:SU:114:VAL:CG1	2.33	0.56
68:Sg:194:TYR:H	68:Sg:212:LYS:HB2	1.70	0.56
69:SC:129:ALA:HB2	69:SC:139:LEU:CD1	2.34	0.56
70:SG:23:LYS:CB	70:SG:41:LEU:HA	2.34	0.56
70:SG:39:ASP:OD1	70:SG:46:LYS:HA	2.05	0.56
1:L5:379:G:C5	1:L5:380:U:H5	2.23	0.56
1:L5:681:G:H3'	1:L5:682:G:H8	1.70	0.56
1:L5:717:U:H3	1:L5:951:G:H1	1.52	0.56
1:L5:1091:C:O2'	1:L5:1092:G:H5'	2.06	0.56
1:L5:1251:C:C2'	1:L5:1259:G:H22	2.18	0.56
1:L5:1252:C:HO2'	1:L5:1258:G:N2	2.01	0.56
1:L5:1353:G:O2'	1:L5:1354:A:O5'	2.22	0.56
1:L5:1377:G:H21	1:L5:1380:G:H5'	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1750:G:H1	1:L5:1780:A:N6	2.04	0.56
1:L5:1887:G:H21	1:L5:1938:C:H41	1.53	0.56
1:L5:1978:C:H5"	1:L5:1979:A:OP2	2.06	0.56
1:L5:1998:A:H3'	1:L5:1999:A:H5"	1.86	0.56
1:L5:2068:C:OP1	34:Lf:15:LYS:HD2	2.05	0.56
1:L5:2546:G:C2'	1:L5:2547:G:H5"	2.35	0.56
1:L5:4132:C:O2'	1:L5:4133:C:H5'	2.06	0.56
1:L5:4550:G:O2'	1:L5:4551:U:H5'	2.04	0.56
1:L5:4730:C:H5	1:L5:4734:A:H61	1.52	0.56
1:L5:4746:C:O2'	1:L5:4747:C:H5'	2.05	0.56
2:L7:50:A:OP1	7:LD:224:SER:OG	2.19	0.56
5:LB:135:LYS:HA	5:LB:138:GLN:NE2	2.09	0.56
8:LE:92:VAL:HG13	8:LE:109:LEU:HD11	1.87	0.56
9:LF:72:ALA:O	9:LF:76:ARG:HG3	2.04	0.56
9:LF:169:LEU:HA	9:LF:174:LEU:CD2	2.34	0.56
12:LI:4:ARG:HB3	12:LI:5:PRO:HD2	1.86	0.56
17:LO:100:ASP:OD1	17:LO:101:ARG:N	2.37	0.56
19:LQ:100:VAL:HG22	19:LQ:101:CYS:N	2.19	0.56
20:LR:69:ALA:HB1	20:LR:74:ARG:CG	2.35	0.56
23:LU:28:PRO:HB2	23:LU:34:MET:SD	2.44	0.56
26:LX:98:PHE:O	26:LX:100:VAL:HG23	2.06	0.56
28:LZ:4:PHE:O	28:LZ:6:LYS:HG2	2.06	0.56
32:Ld:57:MET:HG3	32:Ld:104:THR:HG23	1.86	0.56
35:Lg:61:PRO:CA	35:Lg:64:LEU:HD13	2.35	0.56
40:Ll:32:GLY:O	40:Ll:34:LYS:NZ	2.29	0.56
40:Ll:33:ASN:O	40:Ll:34:LYS:HG3	2.05	0.56
43:Lo:97:LYS:CD	43:Lo:99:ARG:HH21	2.18	0.56
47:S2:573:U:O2	47:S2:575:A:H3'	2.04	0.56
47:S2:604:A:C8	71:SJ:20:PHE:HB3	2.40	0.56
47:S2:691:G:H21	53:SH:181:THR:CA	2.02	0.56
47:S2:1558:C:N4	47:S2:1577:G:H1	2.03	0.56
51:SE:141:THR:CG2	51:SE:160:ILE:HD11	2.35	0.56
52:SF:68:ILE:O	52:SF:72:LEU:N	2.37	0.56
55:SK:24:LYS:HG3	55:SK:26:ASP:N	2.19	0.56
58:SQ:43:GLU:HG2	58:SQ:48:GLN:CG	2.35	0.56
58:SQ:106:LYS:HA	58:SQ:110:ASP:OD2	2.04	0.56
59:SR:126:MET:HG2	59:SR:128:PHE:CD1	2.40	0.56
68:Sg:153:CYS:SG	68:Sg:197:THR:HB	2.45	0.56
68:Sg:177:TRP:CZ3	68:Sg:184:LEU:HG	2.40	0.56
68:Sg:196:ASN:ND2	68:Sg:236:ILE:HG22	2.20	0.56
71:SJ:144:ILE:HG22	71:SJ:147:PHE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:SM:68:LEU:HB3	72:SM:72:HIS:CE1	2.40	0.56
72:SM:104:VAL:HG22	72:SM:105:GLY:N	2.19	0.56
75:SW:7:LEU:CD1	75:SW:34:ILE:HG12	2.34	0.56
75:SW:76:SER:HB3	75:SW:77:PRO:CD	2.35	0.56
1:L5:32:G:O2'	1:L5:33:A:O4'	2.20	0.56
1:L5:227:A:H4'	27:LY:1:MET:SD	2.44	0.56
1:L5:295:A:OP2	43:Lo:43:ARG:NH2	2.38	0.56
1:L5:467:U:H3'	1:L5:468:U:C5'	2.36	0.56
1:L5:498:C:C4'	1:L5:499:G:H5'	2.36	0.56
1:L5:666:G:H22	6:LC:291:ARG:NH2	2.04	0.56
1:L5:740:G:C2'	1:L5:741:C:H5'	2.35	0.56
1:L5:916:C:H2'	1:L5:916:C:O2	2.06	0.56
1:L5:1081:C:N4	1:L5:1219:G:N7	2.37	0.56
1:L5:1168:G:O6	1:L5:1193:C:N4	2.24	0.56
1:L5:1268:G:H21	1:L5:1269:G:C2'	2.17	0.56
1:L5:1338:G:P	29:La:12:ARG:HH22	2.27	0.56
1:L5:1409:C:H5'	1:L5:1411:C:H1'	1.85	0.56
1:L5:1483:C:P	1:L5:1484:G:H22	2.28	0.56
1:L5:1854:G:H22	1:L5:4394:A:H5"	1.70	0.56
1:L5:2357:G:H2'	1:L5:2358:G:H8	1.69	0.56
1:L5:2456:G:H2'	1:L5:2457:G:O4'	2.05	0.56
1:L5:2545:U:H3'	1:L5:2546:G:C5'	2.34	0.56
1:L5:2639:U:O2'	35:Lg:26:PRO:HD3	2.05	0.56
1:L5:2658:G:O2'	1:L5:2659:A:OP2	2.22	0.56
1:L5:4092:G:C2	1:L5:4093:G:H8	2.23	0.56
1:L5:4431:U:OP2	12:LI:6:ALA:HB2	2.06	0.56
1:L5:4694:G:H5'	1:L5:4695:C:C5	2.38	0.56
1:L5:4699:U:O4	1:L5:4701:A:N6	2.38	0.56
1:L5:4891:G:H2'	1:L5:4892:A:C8	2.41	0.56
1:L5:4960:G:H2'	1:L5:4960:G:N3	2.19	0.56
2:L7:3:C:N4	2:L7:116:G:H1	2.03	0.56
3:L8:54:C:P	40:Ll:40:LYS:HZ1	2.26	0.56
3:L8:148:A:O2'	3:L8:149:G:H5'	2.06	0.56
4:LA:120:PRO:HA	4:LA:162:ASN:CB	2.35	0.56
5:LB:144:LYS:HA	5:LB:147:GLU:OE2	2.06	0.56
5:LB:285:TYR:O	5:LB:363:ILE:HD11	2.05	0.56
6:LC:209:ILE:HD12	6:LC:251:ILE:HB	1.86	0.56
7:LD:56:THR:C	7:LD:58:ARG:H	2.13	0.56
8:LE:150:LEU:HD12	8:LE:175:VAL:HG11	1.87	0.56
13:LJ:78:LYS:HB2	13:LJ:81:GLU:OE1	2.06	0.56
13:LJ:87:LEU:HD22	13:LJ:170:TYR:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:LJ:138:GLY:O	13:LJ:141:ILE:HG23	2.05	0.56
14:LL:49:ARG:O	14:LL:51:ALA:N	2.38	0.56
18:LP:29:THR:HA	18:LP:87:SER:OG	2.04	0.56
21:LS:24:THR:HG23	21:LS:24:THR:O	2.05	0.56
21:LS:94:TYR:HD2	21:LS:139:ARG:NH2	2.02	0.56
22:LT:27:LEU:HD12	22:LT:30:TYR:CD2	2.41	0.56
22:LT:126:VAL:CG2	22:LT:127:GLN:H	2.08	0.56
23:LU:96:LEU:CB	23:LU:100:LEU:HD13	2.33	0.56
24:LV:87:SER:HB3	25:LW:19:ARG:NH1	2.20	0.56
25:LW:27:LYS:HB3	25:LW:29:PHE:CE1	2.40	0.56
25:LW:76:VAL:HG12	25:LW:76:VAL:O	2.05	0.56
25:LW:105:ARG:HD2	70:SG:149:LYS:HD3	1.87	0.56
27:LY:73:VAL:HG12	27:LY:74:TYR:N	2.21	0.56
28:LZ:111:ARG:O	28:LZ:115:LYS:HB2	2.04	0.56
28:LZ:133:LYS:HG2	28:LZ:134:LEU:O	2.05	0.56
31:Lc:21:VAL:CG1	31:Lc:96:ILE:HD12	2.23	0.56
31:Lc:29:LEU:HD23	31:Lc:94:LEU:HB3	1.87	0.56
33:Le:114:ARG:NH1	33:Le:117:GLN:HE21	2.03	0.56
38:Lj:31:LYS:HG2	38:Lj:33:THR:CG2	2.34	0.56
47:S2:65:C:C1'	70:SG:172:LYS:HE3	2.31	0.56
47:S2:318:A:H2'	47:S2:319:C:C1'	2.36	0.56
47:S2:328:U:O2'	47:S2:329:G:OP1	2.22	0.56
47:S2:389:A:O2'	47:S2:390:C:H5'	2.03	0.56
47:S2:839:C:C6	47:S2:839:C:H3'	2.40	0.56
47:S2:873:G:N2	47:S2:874:G:H1'	2.20	0.56
47:S2:1013:U:H4'	47:S2:1129:G:N2	2.16	0.56
47:S2:1274:G:H22	55:SK:43:LEU:HD22	1.71	0.56
47:S2:1383:A:H4'	50:SD:156:LEU:CD1	2.34	0.56
47:S2:1541:G:OP1	61:ST:56:ARG:NH1	2.38	0.56
47:S2:1545:A:C2	47:S2:1671:G:H1'	2.40	0.56
47:S2:1553:C:O2'	47:S2:1554:C:O5'	2.21	0.56
47:S2:1747:C:H2'	47:S2:1748:G:C5'	2.34	0.56
48:SA:4:ALA:HB2	63:SV:80:SER:HB3	1.85	0.56
48:SA:38:ILE:HG12	48:SA:47:TYR:CD1	2.41	0.56
49:SB:79:VAL:HG11	49:SB:82:ARG:CB	2.35	0.56
51:SE:95:THR:HG23	51:SE:97:GLU:N	2.17	0.56
51:SE:161:GLN:HB3	51:SE:171:ASP:O	2.05	0.56
52:SF:39:ILE:CD1	52:SF:147:VAL:HG21	2.35	0.56
52:SF:44:LYS:HA	58:SQ:114:GLN:OE1	2.05	0.56
52:SF:179:ASN:HB3	52:SF:187:SER:HB2	1.87	0.56
53:SH:51:ILE:HG12	53:SH:179:LYS:HD3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:SH:158:LEU:HD12	53:SH:189:PHE:CE1	2.40	0.56
58:SQ:57:LEU:HD21	58:SQ:112:LEU:CD2	2.35	0.56
58:SQ:109:LYS:HE2	58:SQ:120:LEU:HD22	1.86	0.56
59:SR:78:ARG:CA	59:SR:81:ARG:HG2	2.30	0.56
59:SR:97:GLU:HA	59:SR:116:ASN:OD1	2.04	0.56
60:SS:43:VAL:CG1	60:SS:79:ILE:HG12	2.36	0.56
60:SS:48:ALA:HB1	60:SS:66:ARG:HH11	1.69	0.56
60:SS:65:GLU:C	60:SS:68:ILE:HG12	2.30	0.56
61:ST:64:LEU:CD2	61:ST:123:LEU:HG	2.34	0.56
62:SU:67:LYS:HD2	62:SU:77:TRP:C	2.30	0.56
68:Sg:11:LEU:HD11	68:Sg:43:TRP:CZ3	2.40	0.56
68:Sg:108:VAL:HA	68:Sg:125:ARG:N	2.19	0.56
69:SC:63:VAL:HG23	69:SC:64:THR:N	2.21	0.56
69:SC:192:LEU:HB3	69:SC:227:ARG:CB	2.34	0.56
69:SC:274:VAL:HG13	69:SC:275:LYS:N	2.20	0.56
70:SG:137:ARG:HH12	70:SG:178:ARG:NE	2.04	0.56
71:SJ:16:PRO:HD3	71:SJ:44:TRP:CZ2	2.41	0.56
72:SM:18:LEU:HB2	72:SM:84:LYS:HZ1	1.69	0.56
72:SM:85:LEU:HD23	72:SM:106:CYS:O	2.05	0.56
73:SN:101:HIS:O	73:SN:105:ASN:HB2	2.05	0.56
76:SY:8:ARG:HB3	76:SY:26:ASP:O	2.06	0.56
76:SY:91:LEU:HG	76:SY:96:LEU:CG	2.34	0.56
77:SZ:46:ASN:C	77:SZ:47:LEU:HD12	2.30	0.56
1:L5:50:C:H2'	1:L5:51:A:H8	1.70	0.56
1:L5:75:G:C3'	14:LL:74:ARG:HD2	2.36	0.56
1:L5:1442:C:H2'	1:L5:1443:A:C8	2.41	0.56
1:L5:1753:G:H2'	1:L5:1754:U:C5'	2.36	0.56
1:L5:1767:A:C8	1:L5:1769:G:H1'	2.40	0.56
1:L5:2679:G:H2'	1:L5:2680:G:H5'	1.86	0.56
1:L5:4095:G:H2'	1:L5:4096:C:C5	2.41	0.56
1:L5:4207:C:O2'	1:L5:4273:A:N1	2.35	0.56
1:L5:4493:U:H4'	24:LV:48:ARG:O	2.05	0.56
1:L5:4910:G:H1	17:LO:108:ILE:N	2.03	0.56
2:L7:21:G:H5"	2:L7:22:A:OP1	2.06	0.56
2:L7:94:C:H2'	2:L7:95:C:H6	1.70	0.56
3:L8:71:A:C2	3:L8:88:A:H1'	2.40	0.56
14:LL:98:VAL:HG12	14:LL:100:PRO:HD3	1.88	0.56
16:LN:26:ARG:HB3	16:LN:30:TYR:OH	2.05	0.56
19:LQ:172:ARG:NH1	29:La:56:VAL:O	2.38	0.56
22:LT:109:VAL:O	22:LT:112:ASN:HB3	2.05	0.56
27:LY:54:GLU:O	27:LY:107:THR:OG1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:39:LYS:HZ3	46:Lz:202:ARG:HH12	1.53	0.56
47:S2:65:C:C4	70:SG:133:LEU:HB3	2.41	0.56
47:S2:491:C:P	76:SY:104:ARG:HG2	2.44	0.56
47:S2:641:A:O2'	47:S2:645:C:OP1	2.23	0.56
47:S2:648:A:H2'	47:S2:649:U:C5	2.40	0.56
47:S2:801:U:H2'	47:S2:802:A:O4'	2.06	0.56
47:S2:942:G:P	49:SB:136:ARG:HH22	2.28	0.56
47:S2:1016:U:H5'	73:SN:15:ALA:C	2.30	0.56
47:S2:1098:C:H2'	47:S2:1099:G:C8	2.38	0.56
47:S2:1282:A:N6	47:S2:1287:A:O2'	2.38	0.56
47:S2:1391:C:O2'	47:S2:1392:U:H5'	2.06	0.56
51:SE:206:ASP:HB2	51:SE:222:LEU:CD2	2.35	0.56
52:SF:127:ARG:HH22	66:Sc:27:CYS:HB3	1.70	0.56
53:SH:130:LEU:C	53:SH:130:LEU:HD12	2.30	0.56
54:SI:162:LEU:HG	54:SI:166:PHE:CE2	2.39	0.56
57:SP:18:ARG:N	60:SS:91:LYS:O	2.39	0.56
59:SR:45:LYS:O	59:SR:49:LYS:HG3	2.05	0.56
59:SR:106:LEU:HD13	59:SR:110:ASP:HA	1.86	0.56
61:ST:38:LYS:NZ	61:ST:46:ALA:H	1.99	0.56
68:Sg:236:ILE:HA	68:Sg:252:THR:HG22	1.86	0.56
68:Sg:250:ALA:HB3	68:Sg:257:LYS:HD2	1.85	0.56
72:SM:19:GLN:NE2	72:SM:22:LEU:HD22	2.20	0.56
75:SW:57:ARG:HD2	78:Sb:26:GLN:HG3	1.88	0.56
75:SW:110:ILE:CD1	75:SW:126:LEU:HD13	2.35	0.56
76:SY:22:GLN:CA	76:SY:74:MET:HE3	2.35	0.56
76:SY:41:ARG:HD2	76:SY:57:VAL:HG22	1.88	0.56
78:Sb:30:SER:HB3	78:Sb:49:HIS:HD2	1.70	0.56
1:L5:73:A:OP1	14:LL:106:SER:HB2	2.05	0.56
1:L5:151:G:H2'	16:LN:49:ARG:NH2	2.21	0.56
1:L5:350:C:N4	1:L5:351:C:H41	2.04	0.56
1:L5:355:A:H2'	1:L5:356:G:H5'	1.87	0.56
1:L5:711:A:C2'	1:L5:712:C:H5'	2.36	0.56
1:L5:2475:G:N1	26:LX:51:THR:O	2.25	0.56
1:L5:2589:C:C2'	1:L5:2590:G:H5'	2.36	0.56
1:L5:2591:A:H1'	1:L5:2755:A:C2	2.40	0.56
1:L5:2761:U:H2'	1:L5:2761:U:OP1	2.05	0.56
1:L5:4518:A:OP2	5:LB:257:TRP:HB3	2.05	0.56
1:L5:5057:C:O2'	1:L5:5058:A:H5'	2.05	0.56
3:L8:68:G:O2'	3:L8:69:U:H5'	2.06	0.56
3:L8:123:U:C5	3:L8:124:U:H1'	2.40	0.56
7:LD:146:LEU:HD23	7:LD:148:ALA:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LD:211:LEU:HB3	7:LD:219:TYR:CB	2.34	0.56
9:LF:46:ARG:HA	9:LF:49:LEU:CB	2.33	0.56
10:LG:150:LYS:CE	10:LG:177:MET:HA	2.35	0.56
12:LI:20:SER:N	12:LI:23:CYS:SG	2.79	0.56
16:LN:80:THR:HG21	16:LN:86:HIS:O	2.04	0.56
18:LP:119:VAL:HG23	18:LP:119:VAL:O	2.05	0.56
19:LQ:5:ILE:HG12	19:LQ:6:ARG:N	2.20	0.56
21:LS:10:TYR:HD1	21:LS:66:GLN:HA	1.70	0.56
27:LY:69:LYS:HG2	27:LY:70:VAL:O	2.05	0.56
27:LY:70:VAL:HA	27:LY:82:ILE:HD13	1.87	0.56
28:LZ:12:LEU:HD12	35:Lg:95:PHE:HD1	1.71	0.56
28:LZ:89:ILE:HD12	28:LZ:90:PRO:HD2	1.87	0.56
47:S2:75:G:O2'	70:SG:159:ARG:NH1	2.38	0.56
47:S2:152:U:H1'	47:S2:167:G:N2	2.12	0.56
47:S2:165:G:O2'	47:S2:166:A:H5'	2.06	0.56
47:S2:190:G:C2'	47:S2:209:A:H61	2.18	0.56
47:S2:195:C:H1'	47:S2:205:G:N1	2.20	0.56
47:S2:373:G:H21	56:SL:83:GLN:HE22	1.53	0.56
47:S2:1215:C:N4	47:S2:1646:C:H41	2.03	0.56
47:S2:1372:U:O2'	47:S2:1373:C:O5'	2.12	0.56
47:S2:1610:G:C2	47:S2:1630:A:H1'	2.41	0.56
47:S2:1648:G:C5'	58:SQ:125:ARG:HD2	2.35	0.56
48:SA:215:GLN:HA	48:SA:218:ALA:HB3	1.87	0.56
49:SB:90:ASP:OD2	49:SB:228:LEU:HD23	2.06	0.56
49:SB:141:GLY:HA2	49:SB:209:ASP:O	2.04	0.56
51:SE:124:CYS:O	51:SE:159:THR:HA	2.06	0.56
51:SE:181:CYS:SG	51:SE:227:VAL:HA	2.45	0.56
54:SI:130:THR:N	54:SI:131:PRO:HD2	2.20	0.56
55:SK:23:ALA:HB2	55:SK:69:TRP:CZ3	2.40	0.56
56:SL:138:VAL:O	56:SL:139:ARG:HD3	2.06	0.56
66:Sc:29:GLN:CG	66:Sc:43:ILE:HD11	2.30	0.56
69:SC:182:CYS:HB3	75:SW:96:SER:HB3	1.87	0.56
70:SG:48:TYR:HE2	70:SG:50:VAL:HG12	1.70	0.56
71:SJ:120:ALA:CB	71:SJ:126:ALA:HA	2.35	0.56
72:SM:60:MET:SD	72:SM:63:LYS:HB2	2.46	0.56
73:SN:46:THR:OG1	73:SN:49:GLN:OE1	2.16	0.56
75:SW:42:MET:HA	75:SW:47:ILE:HG12	1.88	0.56
78:Sb:36:LYS:NZ	78:Sb:43:ILE:HB	2.20	0.56
1:L5:67:C:H5	1:L5:326:C:H4'	1.71	0.56
1:L5:279:A:OP1	16:LN:50:ARG:NH2	2.38	0.56
1:L5:1246:G:H22	1:L5:1263:A:H2	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1402:C:O2	1:L5:1416:G:N2	2.39	0.56
1:L5:1463:C:H2'	1:L5:1464:C:H5'	1.88	0.56
1:L5:1534:A:N3	38:Lj:11:ARG:HB3	2.19	0.56
1:L5:1666:C:N4	1:L5:1667:G:O6	2.39	0.56
1:L5:1727:U:H2'	1:L5:1728:U:H5'	1.88	0.56
1:L5:1753:G:N2	1:L5:1778:C:O2	2.39	0.56
1:L5:1759:G:C2'	1:L5:1760:G:H8	2.18	0.56
1:L5:2748:C:O2'	35:Lg:65:MET:HB3	2.04	0.56
1:L5:2846:G:O2'	24:LV:86:LYS:HB2	2.06	0.56
1:L5:3612:C:H1'	1:L5:5016:A:C8	2.40	0.56
1:L5:3907:G:N7	1:L5:4447:C:H4'	2.21	0.56
1:L5:4138:C:H2'	1:L5:4139:G:O4'	2.06	0.56
2:L7:18:C:H5"	13:LJ:154:LYS:HZ1	1.69	0.56
2:L7:54:A:HO2'	13:LJ:155:HIS:CE1	2.23	0.56
4:LA:49:ILE:HD13	4:LA:60:LYS:CD	2.29	0.56
5:LB:117:ARG:HD2	5:LB:177:LYS:HD3	1.87	0.56
5:LB:278:THR:HG22	5:LB:278:THR:O	2.06	0.56
6:LC:140:LYS:HD3	6:LC:247:GLY:O	2.06	0.56
7:LD:109:LEU:HD21	7:LD:113:PHE:CE2	2.41	0.56
7:LD:128:ASP:CG	7:LD:129:GLU:H	2.14	0.56
7:LD:132:VAL:HG11	7:LD:170:GLY:HA2	1.87	0.56
8:LE:141:ARG:H	8:LE:191:GLN:NE2	2.04	0.56
8:LE:150:LEU:HD23	8:LE:196:ALA:HA	1.86	0.56
9:LF:179:LEU:HD21	9:LF:190:LEU:HD13	1.86	0.56
11:LH:5:LEU:HD13	11:LH:60:TRP:CZ3	2.41	0.56
12:LI:60:LEU:HD11	12:LI:65:LEU:HD21	1.88	0.56
18:LP:17:SER:OG	18:LP:98:ALA:HB2	2.05	0.56
24:LV:13:LYS:HG2	24:LV:128:LEU:CD2	2.36	0.56
33:Le:37:LYS:HG3	33:Le:55:MET:CE	2.34	0.56
34:Lf:35:ALA:O	34:Lf:39:THR:HG23	2.06	0.56
41:Lm:99:CYS:O	41:Lm:100:TYR:HB2	2.05	0.56
43:Lo:105:GLN:CG	43:Lo:106:PHE:H	2.14	0.56
45:Lr:16:PHE:CB	45:Lr:28:GLU:HB3	2.35	0.56
46:Lz:198:TRP:CZ3	46:Lz:202:ARG:HG2	2.41	0.56
47:S2:831:G:C2'	47:S2:832:G:H5'	2.36	0.56
47:S2:1162:C:H2'	47:S2:1163:C:O4'	2.05	0.56
47:S2:1298:G:H2'	47:S2:1299:A:C8	2.41	0.56
47:S2:1406:G:N2	47:S2:1441:U:H3	2.04	0.56
47:S2:1521:C:OP2	60:SS:136:THR:HG21	2.06	0.56
47:S2:1597:C:O2'	47:S2:1598:G:O4'	2.22	0.56
47:S2:1707:U:O2'	47:S2:1708:C:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:126:ASP:OD2	48:SA:128:ARG:HB3	2.06	0.56
49:SB:171:ILE:CD1	49:SB:197:ILE:HG22	2.34	0.56
49:SB:207:LEU:C	49:SB:207:LEU:HD12	2.31	0.56
50:SD:204:LEU:O	50:SD:207:HIS:N	2.39	0.56
52:SF:122:ARG:HE	66:Sc:59:LEU:HD21	1.70	0.56
54:SI:156:ALA:O	54:SI:157:LYS:HG2	2.05	0.56
58:SQ:17:LYS:O	58:SQ:18:THR:OG1	2.22	0.56
58:SQ:57:LEU:HD23	58:SQ:58:LEU:HG	1.87	0.56
61:ST:98:SER:OG	61:ST:101:ARG:NH2	2.39	0.56
62:SU:30:LYS:O	62:SU:34:LYS:HG2	2.06	0.56
68:Sg:21:ILE:CA	68:Sg:32:LEU:HD11	2.27	0.56
68:Sg:83:TRP:HA	68:Sg:108:VAL:O	2.05	0.56
70:SG:27:PHE:CE1	70:SG:36:VAL:HG11	2.41	0.56
70:SG:63:MET:CA	70:SG:98:ARG:HB3	2.35	0.56
70:SG:149:LYS:HE2	70:SG:151:ASP:HB2	1.88	0.56
71:SJ:87:LEU:HD23	71:SJ:88:ASP:N	2.20	0.56
76:SY:91:LEU:HG	76:SY:96:LEU:HD21	1.86	0.56
1:L5:298:G:H5'	16:LN:179:LYS:HB3	1.87	0.56
1:L5:729:G:C2	9:LF:73:ARG:HD3	2.40	0.56
1:L5:1069:G:N2	1:L5:1070:G:H1'	2.21	0.56
1:L5:3969:G:H22	1:L5:4052:C:H2'	1.70	0.56
1:L5:4415:A:C2	1:L5:4428:A:H1'	2.40	0.56
1:L5:4472:G:O2'	41:Lm:100:TYR:O	2.23	0.56
1:L5:4910:G:H1	17:LO:108:ILE:H	1.52	0.56
5:LB:26:ARG:CZ	5:LB:181:MET:HB3	2.36	0.56
6:LC:3:CYS:SG	6:LC:5:ARG:HG3	2.45	0.56
6:LC:100:ARG:HG2	6:LC:101:MET:O	2.06	0.56
7:LD:211:LEU:HB2	7:LD:219:TYR:CD2	2.40	0.56
7:LD:232:THR:O	7:LD:235:MET:HG2	2.06	0.56
8:LE:175:VAL:O	8:LE:176:THR:OG1	2.22	0.56
10:LG:117:ARG:HG2	10:LG:121:LYS:HE2	1.88	0.56
14:LL:94:ILE:HG22	14:LL:94:ILE:O	2.05	0.56
15:LM:11:ARG:NH2	15:LM:58:THR:O	2.39	0.56
16:LN:116:LEU:HA	16:LN:159:ARG:NH2	2.20	0.56
18:LP:37:LYS:HA	18:LP:114:ILE:CG2	2.36	0.56
19:LQ:71:LYS:C	19:LQ:72:LEU:HD12	2.31	0.56
21:LS:164:LYS:HD2	34:Lf:34:TYR:HB2	1.86	0.56
24:LV:109:LYS:HG3	24:LV:110:GLY:N	2.16	0.56
25:LW:67:ILE:O	25:LW:70:LYS:HG2	2.05	0.56
28:LZ:118:PHE:O	28:LZ:122:TYR:N	2.39	0.56
33:Le:24:GLN:HG2	33:Le:27:ARG:HD3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:Li:81:ILE:O	37:Li:85:ARG:HG2	2.05	0.56
43:Lo:11:PHE:HE2	43:Lo:13:LYS:HA	1.70	0.56
46:Lz:108:ASP:HB3	46:Lz:156:LYS:NZ	2.20	0.56
47:S2:91:A:OP2	47:S2:446:G:N1	2.26	0.56
47:S2:337:C:C2'	47:S2:338:G:H5"	2.34	0.56
47:S2:338:G:H2'	47:S2:339:A:N3	2.21	0.56
47:S2:457:C:O2'	47:S2:458:A:H5'	2.05	0.56
47:S2:511:U:H2'	47:S2:512:A:C8	2.36	0.56
47:S2:684:G:H2'	47:S2:685:A:C8	2.41	0.56
47:S2:745:C:H5"	47:S2:746:C:C5'	2.35	0.56
47:S2:883:U:H5"	47:S2:884:C:OP2	2.06	0.56
47:S2:1284:A:O2'	72:SM:35:ILE:HB	2.05	0.56
47:S2:1366:G:C2'	47:S2:1367:U:H5'	2.35	0.56
48:SA:25:LEU:O	48:SA:164:ASN:HB2	2.05	0.56
51:SE:15:PRO:CG	51:SE:18:TRP:HZ3	2.18	0.56
51:SE:72:ILE:HG23	51:SE:88:ASP:HB3	1.87	0.56
51:SE:133:THR:C	51:SE:135:GLY:H	2.14	0.56
53:SH:160:LYS:HG3	53:SH:163:GLN:NE2	2.21	0.56
54:SI:66:SER:HA	54:SI:73:THR:HG22	1.86	0.56
55:SK:3:MET:N	55:SK:4:PRO:HD2	2.21	0.56
56:SL:127:THR:O	56:SL:127:THR:HG23	2.05	0.56
62:SU:82:MET:HB2	67:Sd:52:PHE:CD1	2.40	0.56
68:Sg:167:SER:O	68:Sg:174:VAL:HG13	2.05	0.56
72:SM:49:LEU:O	72:SM:77:ILE:HD13	2.05	0.56
80:Sf:127:GLY:HA3	80:Sf:130:VAL:HG21	1.88	0.56
1:L5:65:A:C2	1:L5:76:A:H5"	2.41	0.56
1:L5:97:G:OP1	14:LL:16:LYS:NZ	2.38	0.56
1:L5:307:A:H2	1:L5:311:G:H4'	1.70	0.56
1:L5:1653:A:H5"	1:L5:1654:G:OP1	2.06	0.56
1:L5:1968:G:H5"	1:L5:1969:G:OP2	2.05	0.56
1:L5:2592:U:H2'	1:L5:2593:C:O4'	2.05	0.56
1:L5:3594:C:H1'	1:L5:3597:G:C2	2.41	0.56
1:L5:4308:C:H2'	1:L5:4309:G:H5'	1.88	0.56
1:L5:4661:G:H2'	1:L5:4662:C:C6	2.41	0.56
1:L5:4960:G:H21	1:L5:4961:G:C2'	2.19	0.56
5:LB:105:VAL:HG11	5:LB:150:PHE:CZ	2.41	0.56
7:LD:238:GLU:HA	7:LD:241:LYS:HB3	1.88	0.56
8:LE:277:LEU:CD2	34:Lf:4:ARG:HH21	2.18	0.56
9:LF:83:VAL:HG22	22:LT:139:HIS:O	2.06	0.56
9:LF:142:TRP:CZ2	9:LF:235:ASN:HB2	2.41	0.56
10:LG:73:ARG:O	10:LG:240:ASN:N	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:LJ:76:GLY:CA	13:LJ:79:ALA:HB3	2.21	0.56
15:LM:122:ILE:O	15:LM:125:ASN:HB3	2.05	0.56
19:LQ:79:THR:HG23	19:LQ:99:LYS:HG2	1.88	0.56
23:LU:37:ALA:O	23:LU:40:GLU:HB3	2.05	0.56
36:Lh:17:LEU:O	36:Lh:20:GLN:HB3	2.06	0.56
47:S2:219:U:O2'	47:S2:220:U:O5'	2.24	0.56
47:S2:551:U:C2'	47:S2:552:G:H8	2.19	0.56
47:S2:652:U:O2'	47:S2:653:A:H5'	2.06	0.56
47:S2:652:U:H2'	47:S2:653:A:H8	1.70	0.56
47:S2:660:C:HO2'	56:SL:101:ARG:HH12	1.52	0.56
47:S2:688:U:H4'	47:S2:689:U:O5'	2.06	0.56
47:S2:950:C:H42	47:S2:976:G:N2	2.04	0.56
47:S2:1060:A:H2'	47:S2:1060:A:N3	2.21	0.56
47:S2:1220:A:N3	47:S2:1677:U:O2'	2.36	0.56
47:S2:1488:C:O2'	47:S2:1489:A:H4'	2.05	0.56
47:S2:1582:C:O2'	47:S2:1583:C:H5'	2.05	0.56
48:SA:141:ASN:OD1	69:SC:87:PRO:HD3	2.05	0.56
50:SD:189:MET:O	50:SD:190:LEU:HD12	2.06	0.56
50:SD:212:GLU:O	59:SR:20:TYR:OH	2.21	0.56
50:SD:217:ILE:CG2	50:SD:218:LEU:HD13	2.35	0.56
52:SF:153:LEU:HD12	52:SF:154:LEU:N	2.21	0.56
53:SH:23:ILE:CG2	53:SH:27:LEU:HD11	2.28	0.56
53:SH:177:TYR:HE2	53:SH:183:LYS:HB2	1.68	0.56
55:SK:77:GLN:HB3	55:SK:80:ARG:HE	1.70	0.56
56:SL:84:ARG:HH12	56:SL:115:PRO:HB3	1.71	0.56
58:SQ:32:ILE:HD13	58:SQ:60:LYS:HD3	1.88	0.56
59:SR:12:ALA:O	59:SR:15:VAL:HB	2.06	0.56
66:Sc:33:GLU:HG2	66:Sc:34:PHE:N	2.20	0.56
68:Sg:156:PHE:CD1	68:Sg:165:ILE:HG22	2.40	0.56
69:SC:108:LYS:HG2	69:SC:109:ILE:N	2.21	0.56
69:SC:192:LEU:O	69:SC:192:LEU:HD23	2.04	0.56
70:SG:23:LYS:HB3	70:SG:41:LEU:O	2.05	0.56
71:SJ:103:GLU:OE1	71:SJ:103:GLU:N	2.33	0.56
74:SO:82:ALA:O	74:SO:86:LYS:N	2.33	0.56
1:L5:58:G:H4'	1:L5:59:A:OP1	2.06	0.56
1:L5:1195:G:H5'	1:L5:1196:G:OP2	2.06	0.56
1:L5:1271:G:H1	1:L5:2122:G:H5"	1.71	0.56
1:L5:1330:A:H4'	1:L5:3865:A:H5"	1.88	0.56
1:L5:1574:G:OP2	20:LR:92:LYS:NZ	2.33	0.56
1:L5:1739:G:H2'	1:L5:1740:C:O4'	2.06	0.56
1:L5:2527:A:P	20:LR:9:ARG:HH22	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2556:G:H1	1:L5:2571:C:H42	1.53	0.56
1:L5:2752:G:H2'	1:L5:2753:G:O4'	2.06	0.56
1:L5:4978:G:H2'	1:L5:4980:C:OP2	2.05	0.56
1:L5:5022:U:H3'	1:L5:5023:C:H3'	1.88	0.56
4:LA:109:GLU:CD	4:LA:109:GLU:H	2.13	0.56
6:LC:82:GLY:O	6:LC:87:SER:OG	2.23	0.56
8:LE:221:LYS:HE2	8:LE:223:ARG:HB2	1.88	0.56
10:LG:224:THR:HG22	10:LG:228:ASP:OD2	2.06	0.56
12:LI:38:ARG:HG3	12:LI:41:ALA:HB2	1.87	0.56
13:LJ:10:ASN:OD1	13:LJ:11:PRO:CD	2.54	0.56
14:LL:57:PRO:HG3	14:LL:75:GLY:O	2.05	0.56
14:LL:79:GLU:HG2	14:LL:82:ARG:CZ	2.36	0.56
14:LL:106:SER:O	14:LL:107:THR:OG1	2.22	0.56
16:LN:24:ARG:HA	16:LN:27:CYS:SG	2.46	0.56
23:LU:91:LEU:HD22	23:LU:96:LEU:HB2	1.88	0.56
24:LV:16:ILE:HD12	24:LV:57:VAL:HG13	1.86	0.56
28:LZ:26:VAL:HG12	28:LZ:91:LEU:HD22	1.88	0.56
28:LZ:29:ILE:HG21	28:LZ:40:HIS:CE1	2.41	0.56
32:Ld:29:ILE:HD11	32:Ld:84:ILE:HD12	1.86	0.56
33:Le:105:SER:CB	33:Le:128:ARG:HG3	2.35	0.56
34:Lf:33:VAL:HG11	34:Lf:42:TYR:CE2	2.40	0.56
39:Lk:31:ASN:HB2	39:Lk:48:THR:HG22	1.86	0.56
39:Lk:68:GLU:O	39:Lk:69:LEU:HD12	2.05	0.56
43:Lo:68:LEU:O	43:Lo:68:LEU:HD12	2.05	0.56
45:Lr:41:ASN:OD1	45:Lr:42:GLY:N	2.39	0.56
46:Lz:34:LEU:HD13	46:Lz:204:LEU:HD12	1.88	0.56
47:S2:67:C:H2'	70:SG:162:LEU:HD23	1.86	0.56
47:S2:106:C:H4'	47:S2:410:G:H21	1.71	0.56
47:S2:345:U:O2'	51:SE:34:GLY:O	2.15	0.56
47:S2:962:A:H2'	47:S2:962:A:N3	2.21	0.56
47:S2:1070:A:H2'	47:S2:1071:G:C5'	2.36	0.56
47:S2:1640:A:H2'	47:S2:1640:A:N3	2.20	0.56
47:S2:1758:G:C1'	47:S2:1774:C:H42	2.17	0.56
47:S2:1758:G:O2'	47:S2:1774:C:N3	2.26	0.56
48:SA:33:GLN:HB3	48:SA:154:LEU:HD12	1.88	0.56
48:SA:154:LEU:CD2	48:SA:157:VAL:HG21	2.36	0.56
58:SQ:47:LEU:HD22	58:SQ:50:LYS:HE2	1.88	0.56
65:Sa:10:ARG:HB3	65:Sa:34:LYS:HB2	1.88	0.56
68:Sg:119:GLN:NE2	68:Sg:121:VAL:HG22	2.21	0.56
69:SC:76:LYS:O	69:SC:77:SER:OG	2.17	0.56
70:SG:116:LYS:NZ	70:SG:125:THR:HG21	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:SY:61:ARG:N	76:SY:70:THR:O	2.39	0.56
80:Sf:141:CYS:HB2	80:Sf:145:CYS:C	2.31	0.56
1:L5:382:G:H2'	1:L5:383:A:H2'	1.87	0.56
1:L5:939:G:H5"	1:L5:940:C:OP2	2.06	0.56
1:L5:1413:C:N3	1:L5:1414:C:H1'	2.21	0.56
1:L5:1459:A:H2'	1:L5:1460:C:C5'	2.34	0.56
1:L5:1806:G:H2'	1:L5:1807:C:C6	2.40	0.56
1:L5:2121:C:H5'	9:LF:41:MET:HE3	1.88	0.56
1:L5:2327:G:H5'	1:L5:2328:G:OP2	2.06	0.56
1:L5:2376:A:O2'	1:L5:2377:C:H5'	2.06	0.56
1:L5:2536:A:H5'	39:Lk:42:LEU:CD1	2.35	0.56
1:L5:2601:A:N6	1:L5:2743:A:H3'	2.20	0.56
1:L5:2739:C:H5"	44:Lp:52:VAL:HG22	1.87	0.56
1:L5:2858:A:C2'	1:L5:2859:G:H5'	2.36	0.56
1:L5:3951:G:C2	1:L5:3952:A:H1'	2.41	0.56
1:L5:4477:A:H2'	1:L5:4603:C:O2'	2.06	0.56
1:L5:4731:G:H21	1:L5:4731:G:P	2.29	0.56
1:L5:4768:G:O5'	1:L5:4874:A:N6	2.38	0.56
3:L8:78:G:H2'	3:L8:79:G:O4'	2.05	0.56
3:L8:84:A:OP2	3:L8:84:A:H4'	2.05	0.56
5:LB:151:SER:O	5:LB:154:LYS:HB3	2.06	0.56
7:LD:9:ASN:O	7:LD:12:TYR:HB3	2.06	0.56
8:LE:66:LYS:HD2	8:LE:68:MET:HE2	1.87	0.56
9:LF:71:MET:O	9:LF:74:MET:HG2	2.06	0.56
10:LG:37:LYS:O	10:LG:37:LYS:HG3	2.05	0.56
10:LG:259:LYS:C	10:LG:262:ALA:H	2.14	0.56
12:LI:36:LEU:HB2	12:LI:87:MET:HG2	1.86	0.56
13:LJ:68:ILE:HG13	13:LJ:69:ALA:N	2.20	0.56
16:LN:89:VAL:HG22	16:LN:89:VAL:O	2.06	0.56
18:LP:151:THR:HG22	18:LP:152:GLU:O	2.05	0.56
19:LQ:106:THR:HB	19:LQ:109:ALA:CB	2.35	0.56
19:LQ:108:ARG:O	19:LQ:111:SER:HB3	2.05	0.56
19:LQ:175:GLU:HA	29:La:51:GLY:O	2.06	0.56
25:LW:90:ILE:HA	25:LW:93:LYS:NZ	2.10	0.56
34:Lf:13:GLY:O	34:Lf:27:LEU:HB2	2.05	0.56
35:Lg:5:LEU:HD12	35:Lg:5:LEU:N	2.20	0.56
35:Lg:45:ALA:HB2	35:Lg:81:SER:O	2.06	0.56
47:S2:225:G:H22	47:S2:297:A:N6	2.03	0.56
47:S2:380:G:P	54:SI:56:ARG:HH22	2.26	0.56
47:S2:688:U:H1'	47:S2:689:U:OP2	2.06	0.56
47:S2:847:A:H2'	47:S2:847:A:N3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1120:U:H5'	78:Sb:72:ARG:HH21	1.69	0.56
47:S2:1228:A:O2'	47:S2:1634:A:H1'	2.06	0.56
47:S2:1253:A:H4'	47:S2:1254:C:H5"	1.86	0.56
47:S2:1258:A:H1'	47:S2:1664:A:N1	2.21	0.56
51:SE:141:THR:HG22	51:SE:160:ILE:HD11	1.87	0.56
52:SF:75:SER:CB	52:SF:151:ILE:HG22	2.28	0.56
56:SL:151:THR:HG22	73:SN:133:ARG:NH2	2.20	0.56
57:SP:18:ARG:NH2	60:SS:90:VAL:O	2.39	0.56
58:SQ:27:ARG:O	58:SQ:27:ARG:HG3	2.06	0.56
59:SR:35:CYS:HA	59:SR:38:ILE:HG12	1.88	0.56
59:SR:65:PRO:HB3	59:SR:73:LEU:CD2	2.36	0.56
68:Sg:48:ASP:OD1	68:Sg:48:ASP:N	2.39	0.56
68:Sg:72:SER:HB3	68:Sg:74:ASP:O	2.06	0.56
68:Sg:106:LYS:CD	68:Sg:126:ASP:HA	2.34	0.56
71:SJ:42:GLU:OE2	71:SJ:109:ARG:NH1	2.36	0.56
71:SJ:136:ARG:HB3	71:SJ:141:VAL:HG12	1.87	0.56
78:Sb:34:ASP:OD2	78:Sb:36:LYS:NZ	2.39	0.56
78:Sb:55:LEU:HD23	78:Sb:56:CYS:N	2.22	0.56
1:L5:140:G:H2'	1:L5:141:C:H6	1.70	0.55
1:L5:297:U:O3'	16:LN:179:LYS:HD2	2.06	0.55
1:L5:307:A:O2'	1:L5:308:G:H5'	2.06	0.55
1:L5:684:G:OP1	8:LE:100:LYS:HD2	2.06	0.55
1:L5:1886:G:OP1	34:Lf:18:LEU:HB3	2.06	0.55
1:L5:1962:A:H8	1:L5:2024:G:N2	2.00	0.55
1:L5:2406:G:H1'	1:L5:2791:C:C5'	2.35	0.55
1:L5:2532:C:C2'	1:L5:2533:C:H5'	2.36	0.55
1:L5:2544:G:OP2	1:L5:2546:G:N2	2.38	0.55
1:L5:3772:U:H3'	1:L5:3773:U:C5'	2.35	0.55
1:L5:3826:C:H6	1:L5:3826:C:H3'	1.70	0.55
1:L5:4402:C:H42	1:L5:4441:A:H61	1.54	0.55
1:L5:4584:A:H1'	1:L5:4719:G:N2	2.22	0.55
1:L5:4600:G:H4'	1:L5:4601:U:C5'	2.35	0.55
2:L7:61:G:H2'	2:L7:62:U:C5	2.41	0.55
3:L8:84:A:N3	3:L8:84:A:H2'	2.20	0.55
5:LB:279:GLU:CD	5:LB:282:LYS:HZ1	2.13	0.55
6:LC:41:HIS:CE1	6:LC:238:LEU:HB2	2.41	0.55
7:LD:45:ASN:OD1	22:LT:33:ILE:HG21	2.05	0.55
7:LD:61:ILE:HG23	7:LD:79:TYR:HE1	1.69	0.55
18:LP:36:ILE:HG13	18:LP:114:ILE:CD1	2.37	0.55
26:LX:136:ALA:O	26:LX:138:VAL:HG23	2.06	0.55
34:Lf:104:MET:HE2	34:Lf:106:TYR:CZ	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Lk:23:VAL:HG23	39:Lk:36:VAL:CA	2.35	0.55
43:Lo:104:ILE:HG22	43:Lo:105:GLN:HB2	1.88	0.55
47:S2:1110:G:N3	47:S2:1110:G:H2'	2.20	0.55
47:S2:1274:G:O5'	55:SK:1:MET:N	2.38	0.55
47:S2:1351:G:O2'	47:S2:1378:A:N1	2.35	0.55
50:SD:21:LEU:O	50:SD:25:LEU:HD13	2.07	0.55
50:SD:64:ARG:HB2	55:SK:93:THR:HG21	1.88	0.55
50:SD:106:ARG:C	50:SD:110:LEU:HG	2.31	0.55
51:SE:139:LEU:C	51:SE:139:LEU:HD12	2.31	0.55
58:SQ:48:GLN:OE1	58:SQ:51:LEU:HD13	2.06	0.55
59:SR:27:ASP:O	59:SR:31:ASN:HB3	2.06	0.55
61:ST:38:LYS:HZ2	61:ST:46:ALA:N	1.97	0.55
62:SU:64:THR:OG1	62:SU:79:ARG:HG2	2.05	0.55
64:SX:121:LYS:HG3	64:SX:121:LYS:O	2.06	0.55
65:Sa:104:ALA:HA	65:Sa:105:GLY:C	2.31	0.55
68:Sg:238:ALA:O	68:Sg:250:ALA:HB1	2.05	0.55
68:Sg:239:LEU:HD11	68:Sg:248:LEU:CD1	2.36	0.55
68:Sg:239:LEU:HD11	68:Sg:248:LEU:HD13	1.88	0.55
68:Sg:297:THR:HG23	68:Sg:311:GLN:HE21	1.69	0.55
70:SG:41:LEU:C	70:SG:41:LEU:HD12	2.31	0.55
70:SG:208:GLU:O	70:SG:212:LEU:N	2.35	0.55
1:L5:1280:C:O2'	1:L5:1281:G:H2'	2.06	0.55
1:L5:1571:G:N1	1:L5:1572:U:O2	2.39	0.55
1:L5:1620:U:C2'	1:L5:1621:A:H5'	2.36	0.55
1:L5:1676:C:N4	1:L5:4374:U:H3	2.03	0.55
1:L5:1693:U:OP1	19:LQ:53:MET:HE1	2.07	0.55
1:L5:1980:U:H4'	1:L5:1982:G:OP2	2.06	0.55
1:L5:2099:G:H5'	1:L5:2100:A:OP2	2.06	0.55
1:L5:2434:G:O3'	26:LX:83:THR:HG21	2.05	0.55
1:L5:2586:G:H2'	1:L5:2586:G:N3	2.21	0.55
1:L5:2809:G:H5"	20:LR:63:CYS:SG	2.45	0.55
1:L5:2838:G:OP1	5:LB:248:LEU:N	2.39	0.55
1:L5:3683:C:N3	4:LA:173:GLY:HA2	2.21	0.55
1:L5:3955:G:H2'	1:L5:3966:A:C8	2.40	0.55
1:L5:3971:G:N2	1:L5:4039:G:O2'	2.39	0.55
1:L5:4070:U:H2'	1:L5:4071:U:H5"	1.87	0.55
1:L5:4094:G:N1	1:L5:4114:C:O2	2.39	0.55
1:L5:4141:G:H4'	1:L5:4143:G:O6	2.05	0.55
1:L5:4151:G:C2'	1:L5:4152:G:H5'	2.35	0.55
1:L5:4266:G:H5'	1:L5:4267:G:OP1	2.07	0.55
1:L5:4294:C:H5"	43:Lo:81:ARG:NH1	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4448:G:H5'	1:L5:4449:A:OP1	2.05	0.55
1:L5:4656:A:O2'	1:L5:4657:U:OP1	2.21	0.55
1:L5:4694:G:O2'	11:LH:71:ARG:NH2	2.39	0.55
1:L5:4873:G:H22	15:LM:98:ARG:HH12	1.54	0.55
1:L5:4876:U:H3	17:LO:116:LYS:NZ	2.05	0.55
1:L5:4928:C:H2'	1:L5:4929:C:H5'	1.89	0.55
3:L8:29:G:O2'	3:L8:30:U:H5'	2.06	0.55
3:L8:43:A:H62	38:Lj:65:ARG:NH2	2.04	0.55
5:LB:231:VAL:CG2	5:LB:267:ALA:HB1	2.36	0.55
8:LE:137:VAL:O	8:LE:137:VAL:HG13	2.06	0.55
12:LI:176:PHE:CZ	12:LI:199:TYR:HB2	2.41	0.55
14:LL:12:PRO:HB2	14:LL:14:PHE:HD2	1.71	0.55
18:LP:36:ILE:HD11	18:LP:44:ALA:CB	2.34	0.55
33:Le:37:LYS:HG3	33:Le:55:MET:HE3	1.87	0.55
36:Lh:21:LEU:HD21	36:Lh:25:LYS:HD2	1.86	0.55
37:Li:54:GLU:OE2	37:Li:86:LYS:NZ	2.31	0.55
41:Lm:93:LYS:HE3	41:Lm:102:ARG:HG2	1.88	0.55
47:S2:786:G:OP2	70:SG:235:SER:OG	2.21	0.55
47:S2:1348:G:H1	47:S2:1381:G:N2	2.03	0.55
47:S2:1424:G:O2'	47:S2:1425:G:O4'	2.12	0.55
47:S2:1646:C:C5'	58:SQ:138:ARG:HD3	2.36	0.55
48:SA:50:ASN:ND2	48:SA:53:ARG:HG3	2.10	0.55
50:SD:171:ALA:HB1	50:SD:186:VAL:HB	1.88	0.55
50:SD:189:MET:C	50:SD:190:LEU:HD12	2.31	0.55
51:SE:86:PHE:HE2	51:SE:226:PHE:CD2	2.24	0.55
51:SE:136:ILE:HD11	51:SE:148:ARG:HE	1.71	0.55
52:SF:21:GLY:O	52:SF:25:THR:OG1	2.24	0.55
52:SF:35:LEU:HD11	52:SF:146:ARG:HD3	1.89	0.55
53:SH:9:VAL:HG12	53:SH:44:ASN:HA	1.86	0.55
68:Sg:256:ILE:HD11	68:Sg:310:TRP:CZ2	2.41	0.55
70:SG:32:MET:HA	70:SG:52:ILE:HG13	1.88	0.55
70:SG:225:GLN:C	70:SG:228:ILE:HG22	2.31	0.55
71:SJ:8:VAL:HG22	71:SJ:8:VAL:O	2.07	0.55
71:SJ:73:GLU:CA	71:SJ:76:ALA:HB3	2.36	0.55
74:SO:72:TYR:CD1	74:SO:75:MET:HE2	2.36	0.55
75:SW:72:CYS:HA	75:SW:129:PHE:HA	1.87	0.55
78:Sb:59:CYS:SG	78:Sb:60:SER:N	2.79	0.55
1:L5:197:A:C2	1:L5:225:G:C4	2.94	0.55
1:L5:1067:G:N1	1:L5:1068:G:N3	2.54	0.55
1:L5:1264:C:H2'	1:L5:1265:G:N9	2.19	0.55
1:L5:1268:G:H1'	1:L5:1269:G:C5	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1276:C:H3'	1:L5:1277:G:C8	2.41	0.55
1:L5:1586:G:O6	1:L5:1587:G:N1	2.39	0.55
1:L5:1916:G:N7	1:L5:1917:A:N6	2.54	0.55
1:L5:2447:U:O2'	1:L5:2448:G:H5'	2.06	0.55
1:L5:2512:A:C6	40:Ll:4:HIS:HB3	2.41	0.55
1:L5:2719:C:O2'	1:L5:2720:C:H5'	2.05	0.55
1:L5:3666:C:P	4:LA:227:ARG:HH21	2.29	0.55
1:L5:3680:U:O2'	1:L5:3681:G:H5'	2.06	0.55
1:L5:3737:A:H2	1:L5:4180:G:H1'	1.70	0.55
1:L5:3910:C:O3'	1:L5:4196:G:N2	2.39	0.55
1:L5:3961:G:C1'	1:L5:4048:A:H61	2.07	0.55
1:L5:4343:U:H5"	43:Lo:35:ALA:HB3	1.88	0.55
1:L5:5012:G:C2'	1:L5:5013:C:H3'	2.36	0.55
3:L8:133:G:N2	3:L8:134:G:N3	2.54	0.55
4:LA:29:LEU:HD11	4:LA:115:CYS:SG	2.46	0.55
5:LB:231:VAL:HG23	5:LB:235:TRP:HD1	1.71	0.55
5:LB:312:LYS:NZ	5:LB:368:ILE:HG23	2.21	0.55
6:LC:279:LEU:HD23	6:LC:280:PRO:HD2	1.88	0.55
8:LE:91:THR:HB	8:LE:106:VAL:HG12	1.87	0.55
8:LE:95:PRO:CG	8:LE:96:VAL:HA	2.36	0.55
8:LE:115:TYR:CE2	45:Lr:119:ARG:HD2	2.41	0.55
8:LE:233:PHE:CE2	8:LE:235:THR:HA	2.42	0.55
9:LF:131:ASN:OD1	9:LF:134:ARG:NH2	2.36	0.55
12:LI:56:GLU:HA	12:LI:131:ILE:HG12	1.89	0.55
12:LI:150:GLU:HA	12:LI:153:ARG:CG	2.36	0.55
14:LL:54:PRO:HA	14:LL:55:ILE:CB	2.35	0.55
19:LQ:72:LEU:HB2	19:LQ:75:ARG:HG3	1.88	0.55
20:LR:165:LYS:O	20:LR:168:GLU:N	2.39	0.55
38:Lj:69:ILE:HD11	38:Lj:73:ARG:HH21	1.70	0.55
45:Lr:117:ILE:O	45:Lr:120:SER:OG	2.14	0.55
47:S2:432:G:O2'	47:S2:433:A:H5'	2.06	0.55
47:S2:1263:U:C6	47:S2:1264:C:H5'	2.38	0.55
47:S2:1513:C:H5'	67:Sd:10:HIS:CD2	2.30	0.55
47:S2:1532:C:C4'	47:S2:1604:G:H21	2.17	0.55
47:S2:1849:G:H1'	47:S2:1850:A:P	2.47	0.55
48:SA:124:VAL:O	48:SA:146:ALA:HA	2.07	0.55
49:SB:42:ARG:O	49:SB:44:ILE:HG23	2.06	0.55
55:SK:52:LEU:O	55:SK:57:TYR:N	2.39	0.55
61:ST:6:VAL:HG23	61:ST:14:PHE:CZ	2.40	0.55
68:Sg:44:LYS:O	68:Sg:46:THR:HG23	2.06	0.55
69:SC:66:LEU:CD1	69:SC:86:LEU:HB3	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:SC:242:ASP:OD1	69:SC:246:LYS:HE3	2.07	0.55
71:SJ:3:VAL:HG23	71:SJ:4:ALA:N	2.22	0.55
71:SJ:63:LEU:HD22	71:SJ:70:ARG:HB2	1.89	0.55
74:SO:92:ALA:CB	74:SO:125:LYS:HB2	2.36	0.55
76:SY:60:PHE:HA	76:SY:70:THR:O	2.07	0.55
1:L5:117:C:H5'	1:L5:118:C:OP2	2.06	0.55
1:L5:137:G:N2	1:L5:138:G:N3	2.53	0.55
1:L5:678:C:H2'	1:L5:679:C:H5'	1.88	0.55
1:L5:943:A:N1	1:L5:946:C:H5	2.04	0.55
1:L5:1525:A:C2	1:L5:1651:G:N2	2.74	0.55
1:L5:1759:G:C6	1:L5:1774:C:H1'	2.41	0.55
1:L5:2390:G:HO2'	32:Ld:73:TRP:HE3	1.54	0.55
1:L5:2615:C:O2'	1:L5:2616:C:H5'	2.07	0.55
1:L5:2889:G:H21	1:L5:5034:A:H8	1.55	0.55
1:L5:3670:C:O2'	1:L5:3671:G:O5'	2.25	0.55
1:L5:3694:U:H2'	1:L5:3695:U:H5'	1.88	0.55
1:L5:4302:U:OP2	1:L5:4303:C:N4	2.39	0.55
1:L5:4410:G:N1	1:L5:4411:G:O6	2.40	0.55
1:L5:4573:G:OP1	3:L8:1:C:N4	2.39	0.55
2:L7:96:U:C3'	2:L7:97:G:H5"	2.37	0.55
2:L7:120:U:O3'	7:LD:261:VAL:HA	2.06	0.55
3:L8:150:C:O2	3:L8:150:C:H2'	2.06	0.55
5:LB:94:GLU:HA	5:LB:99:LEU:HD23	1.89	0.55
5:LB:298:LEU:HD12	5:LB:298:LEU:C	2.30	0.55
6:LC:198:ASN:ND2	27:LY:10:ASP:OD1	2.27	0.55
7:LD:186:GLU:HG2	7:LD:187:SER:N	2.21	0.55
11:LH:82:LYS:HE2	11:LH:186:THR:CG2	2.36	0.55
11:LH:138:GLN:N	11:LH:138:GLN:OE1	2.38	0.55
12:LI:76:MET:HE2	12:LI:79:SER:HB3	1.88	0.55
13:LJ:23:ASN:OD1	13:LJ:24:ILE:N	2.40	0.55
14:LL:130:LYS:CE	14:LL:132:SER:HB2	2.37	0.55
16:LN:73:ARG:NH2	16:LN:92:LEU:HD21	2.20	0.55
17:LO:61:ARG:HD2	17:LO:66:PRO:HB3	1.87	0.55
36:Lh:56:ARG:O	36:Lh:60:VAL:HG23	2.06	0.55
46:Lz:126:PRO:HA	46:Lz:130:LYS:CB	2.37	0.55
47:S2:311:C:H5"	47:S2:312:G:OP2	2.05	0.55
47:S2:359:U:O2	47:S2:362:C:N4	2.39	0.55
47:S2:538:U:H4'	47:S2:546:G:N1	2.20	0.55
47:S2:1219:C:H4'	66:Sc:24:GLN:NE2	2.21	0.55
47:S2:1235:G:N3	47:S2:1235:G:H2'	2.21	0.55
47:S2:1450:G:O2'	47:S2:1451:G:H5'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1463:U:H4'	47:S2:1464:C:OP1	2.07	0.55
47:S2:1544:C:C2'	47:S2:1545:A:H5"	2.24	0.55
47:S2:1825:A:H5"	47:S2:1825:A:N3	2.21	0.55
48:SA:60:LEU:HG	48:SA:159:ILE:CD1	2.36	0.55
48:SA:82:THR:HG22	48:SA:204:TYR:CG	2.41	0.55
48:SA:206:ASP:O	48:SA:210:ILE:N	2.40	0.55
50:SD:150:MET:HE2	50:SD:152:PHE:CZ	2.42	0.55
53:SH:112:ASN:O	53:SH:114:GLN:N	2.40	0.55
54:SI:137:LEU:O	54:SI:139:LYS:HG2	2.06	0.55
55:SK:94:LEU:HG	55:SK:96:ARG:HG2	1.88	0.55
68:Sg:236:ILE:HG23	68:Sg:252:THR:CG2	2.37	0.55
71:SJ:163:SER:HB2	71:SJ:164:PRO:HD2	1.88	0.55
76:SY:40:ILE:HG23	76:SY:41:ARG:HG3	1.87	0.55
1:L5:686:A:C2	8:LE:95:PRO:HD3	2.41	0.55
1:L5:1465:G:H2'	1:L5:1466:G:H5'	1.86	0.55
1:L5:1758:G:C2'	1:L5:1759:G:H5"	2.36	0.55
1:L5:1818:G:O2'	1:L5:1820:C:OP2	2.22	0.55
1:L5:2085:G:N3	1:L5:2085:G:H2'	2.20	0.55
1:L5:2324:C:O2'	1:L5:2325:C:H5'	2.05	0.55
1:L5:2723:U:C2'	1:L5:2724:G:H5'	2.36	0.55
1:L5:2790:U:H4'	1:L5:2791:C:OP2	2.06	0.55
1:L5:4337:C:N3	43:Lo:61:LYS:NZ	2.55	0.55
1:L5:4364:G:H1'	29:La:58:MET:HE2	1.89	0.55
1:L5:4413:C:C2'	1:L5:4414:A:H5'	2.36	0.55
1:L5:4510:A:OP1	1:L5:4593:C:O2'	2.20	0.55
1:L5:4654:C:OP2	32:Ld:78:ARG:NH2	2.25	0.55
1:L5:4749:C:OP1	1:L5:4749:C:H4'	2.06	0.55
5:LB:61:ASP:HA	5:LB:68:ASN:OD1	2.06	0.55
7:LD:237:GLU:HG2	7:LD:241:LYS:NZ	2.21	0.55
9:LF:241:ASN:O	9:LF:245:ARG:HG2	2.06	0.55
10:LG:67:ARG:O	10:LG:70:LEU:N	2.40	0.55
12:LI:48:LEU:HD21	12:LI:145:GLU:CB	2.37	0.55
12:LI:91:LEU:O	12:LI:91:LEU:HD23	2.06	0.55
16:LN:138:PHE:HZ	36:Lh:93:ARG:HD2	1.72	0.55
16:LN:152:THR:HG23	36:Lh:95:LEU:HD11	1.89	0.55
17:LO:58:LEU:HD11	17:LO:74:ARG:NH2	2.12	0.55
18:LP:137:ASN:HB3	18:LP:138:PRO:HD2	1.89	0.55
19:LQ:106:THR:HB	19:LQ:109:ALA:HB3	1.89	0.55
22:LT:75:VAL:HG12	22:LT:75:VAL:O	2.04	0.55
31:Lc:37:MET:O	31:Lc:41:GLY:N	2.39	0.55
38:Lj:17:THR:CG2	38:Lj:29:LEU:HD21	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:12:GLU:HB2	46:Lz:216:LEU:HB2	1.89	0.55
47:S2:874:G:H2'	47:S2:875:A:C1'	2.37	0.55
47:S2:897:U:H5"	47:S2:898:U:OP2	2.06	0.55
47:S2:1292:C:H2'	47:S2:1293:A:C4'	2.37	0.55
49:SB:25:PHE:HA	49:SB:28:LYS:CG	2.36	0.55
49:SB:25:PHE:HE2	74:SO:84:ARG:NH2	2.04	0.55
50:SD:28:GLU:HA	55:SK:61:GLN:CD	2.31	0.55
61:ST:18:LEU:HD23	61:ST:58:ALA:HB1	1.88	0.55
61:ST:103:VAL:HG13	61:ST:107:LEU:HD11	1.88	0.55
61:ST:108:GLU:CB	61:ST:113:VAL:HG12	2.35	0.55
63:SV:35:ASN:OD1	63:SV:52:THR:HG22	2.07	0.55
68:Sg:29:ASP:HA	68:Sg:45:LEU:CD2	2.34	0.55
75:SW:28:ARG:O	75:SW:60:LYS:HA	2.07	0.55
76:SY:15:ASN:ND2	76:SY:17:LEU:HB2	2.21	0.55
1:L5:21:G:OP2	38:Lj:43:ARG:NH2	2.39	0.55
1:L5:509:A:H2'	14:LL:163:LYS:HE3	1.87	0.55
1:L5:1200:G:N2	1:L5:1201:U:O4'	2.40	0.55
1:L5:1354:A:OP2	19:LQ:87:THR:HB	2.06	0.55
1:L5:1501:C:H4'	1:L5:1501:C:OP1	2.07	0.55
1:L5:2602:G:H2'	1:L5:2603:C:C6	2.41	0.55
1:L5:2604:C:H2'	1:L5:2605:G:C5'	2.35	0.55
1:L5:2642:A:N6	1:L5:2643:G:O6	2.39	0.55
1:L5:3631:U:C5	1:L5:3632:C:H5	2.24	0.55
1:L5:4091:G:H2'	1:L5:4092:G:H8	1.72	0.55
1:L5:4298:A:O2'	1:L5:4299:U:H5'	2.06	0.55
1:L5:4308:C:C2'	1:L5:4309:G:H5'	2.37	0.55
1:L5:4569:U:OP1	1:L5:4982:A:O2'	2.18	0.55
1:L5:4636:U:O4	32:Ld:78:ARG:HD2	2.07	0.55
3:L8:147:G:O2'	3:L8:148:A:H5'	2.05	0.55
4:LA:102:LEU:HD11	4:LA:107:MET:HG2	1.88	0.55
5:LB:89:ILE:HD11	5:LB:153:MET:CE	2.35	0.55
5:LB:280:ILE:HD12	5:LB:281:ASN:CG	2.31	0.55
5:LB:283:LYS:HZ2	5:LB:361:GLU:HB3	1.71	0.55
7:LD:231:VAL:HA	7:LD:235:MET:HE2	1.88	0.55
7:LD:231:VAL:HG22	7:LD:235:MET:HE2	1.87	0.55
8:LE:135:GLN:OE1	8:LE:135:GLN:N	2.39	0.55
10:LG:154:LEU:HB3	10:LG:204:PHE:HD2	1.71	0.55
10:LG:165:GLU:O	10:LG:166:LEU:HB2	2.05	0.55
16:LN:151:ILE:HD12	16:LN:152:THR:HA	1.88	0.55
25:LW:82:ILE:C	70:SG:131:ARG:HH21	2.14	0.55
28:LZ:68:ILE:HD11	28:LZ:131:PHE:CE1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:La:11:LEU:HA	29:La:14:HIS:CD2	2.38	0.55
31:Lc:28:VAL:HG11	31:Lc:33:GLN:HG2	1.87	0.55
34:Lf:102:ARG:O	34:Lf:102:ARG:HG3	2.06	0.55
43:Lo:104:ILE:HG23	43:Lo:105:GLN:CD	2.32	0.55
47:S2:111:A:H2'	47:S2:112:U:O4'	2.07	0.55
47:S2:209:A:H2'	47:S2:210:U:C5'	2.36	0.55
47:S2:562:U:H2'	47:S2:563:G:C8	2.42	0.55
47:S2:573:U:N3	47:S2:575:A:H5"	2.22	0.55
47:S2:628:A:H61	50:SD:141:LYS:HZ3	1.52	0.55
47:S2:673:G:H1'	47:S2:1084:A:C2	2.42	0.55
47:S2:1165:G:H21	64:SX:23:HIS:CB	2.19	0.55
47:S2:1246:A:C2'	47:S2:1247:C:H5'	2.35	0.55
47:S2:1389:C:O2'	50:SD:163:PRO:HD3	2.06	0.55
47:S2:1565:C:N4	47:S2:1566:G:O6	2.39	0.55
50:SD:195:THR:HG23	50:SD:199:GLY:CA	2.20	0.55
50:SD:197:LYS:HG2	50:SD:198:ILE:HG12	1.88	0.55
54:SI:145:ILE:O	54:SI:148:LYS:HG2	2.07	0.55
55:SK:12:TYR:O	55:SK:15:LEU:N	2.40	0.55
57:SP:17:TYR:CD1	60:SS:91:LYS:HG3	2.40	0.55
57:SP:81:ARG:HG2	57:SP:96:VAL:HG13	1.89	0.55
58:SQ:82:TYR:O	58:SQ:86:GLN:N	2.32	0.55
59:SR:17:ILE:HD11	59:SR:57:LEU:CD2	2.36	0.55
61:ST:28:LEU:CD2	61:ST:30:VAL:HG22	2.37	0.55
64:SX:55:VAL:HG12	79:Se:2:VAL:HG11	1.88	0.55
68:Sg:94:THR:OG1	68:Sg:96:THR:HG22	2.05	0.55
68:Sg:126:ASP:OD1	68:Sg:128:THR:OG1	2.21	0.55
69:SC:192:LEU:H	69:SC:227:ARG:HB3	1.72	0.55
70:SG:137:ARG:HB3	70:SG:140:ARG:HG2	1.89	0.55
71:SJ:4:ALA:HB1	71:SJ:5:ARG:HA	1.85	0.55
71:SJ:158:ASP:OD1	71:SJ:159:PHE:N	2.39	0.55
71:SJ:172:ARG:O	71:SJ:175:ARG:HB2	2.07	0.55
74:SO:63:LYS:O	74:SO:63:LYS:HG3	2.06	0.55
76:SY:6:THR:HG22	76:SY:7:ILE:H	1.71	0.55
80:Sf:89:LYS:O	80:Sf:90:LYS:HB2	2.06	0.55
1:L5:96:U:C2'	1:L5:97:G:H5'	2.36	0.55
1:L5:165:A:H2'	1:L5:166:C:C6	2.41	0.55
1:L5:319:A:H2'	1:L5:320:C:H6	1.71	0.55
1:L5:385:A:H4'	1:L5:386:A:OP1	2.05	0.55
1:L5:692:A:H2'	1:L5:693:C:O4'	2.06	0.55
1:L5:743:G:N2	1:L5:922:C:O2	2.40	0.55
1:L5:1319:U:H2'	1:L5:1321:G:OP2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1423:U:H2'	1:L5:1424:G:O4'	2.07	0.55
1:L5:1445:U:H2'	1:L5:1446:C:C6	2.41	0.55
1:L5:1773:U:H3'	1:L5:1774:C:H6	1.71	0.55
1:L5:1817:U:N3	1:L5:1821:G:O6	2.39	0.55
1:L5:2585:C:H5"	1:L5:2586:G:OP2	2.06	0.55
1:L5:2633:U:O2'	1:L5:2634:C:H5'	2.06	0.55
1:L5:3894:A:N3	1:L5:4567:G:N2	2.54	0.55
1:L5:4626:A:C6	1:L5:4668:U:H5	2.25	0.55
1:L5:4955:A:H2'	1:L5:4956:A:H8	1.72	0.55
3:L8:126:C:H1'	3:L8:127:U:O4'	2.06	0.55
3:L8:139:G:H2'	3:L8:140:C:O4'	2.07	0.55
3:L8:155:C:OP2	10:LG:89:ARG:NH1	2.39	0.55
4:LA:61:VAL:HG11	4:LA:63:PHE:CE2	2.41	0.55
5:LB:231:VAL:HG23	5:LB:235:TRP:CD1	2.41	0.55
9:LF:81:PHE:HB3	21:LS:62:VAL:HG12	1.88	0.55
13:LJ:22:LEU:HD23	13:LJ:130:PHE:CE1	2.42	0.55
13:LJ:64:ARG:O	43:Lo:103:VAL:HG21	2.06	0.55
16:LN:47:LYS:CA	16:LN:50:ARG:HH11	2.20	0.55
16:LN:65:ARG:HD2	16:LN:127:TYR:CE1	2.42	0.55
16:LN:133:ILE:HG22	16:LN:134:LEU:N	2.21	0.55
18:LP:94:MET:CE	18:LP:147:GLU:HA	2.35	0.55
19:LQ:63:LEU:N	19:LQ:87:THR:O	2.35	0.55
35:Lg:95:PHE:HD2	35:Lg:96:LEU:HD23	1.70	0.55
40:Ll:23:ILE:H	40:Ll:23:ILE:HD12	1.71	0.55
46:Lz:63:PHE:CD1	46:Lz:108:ASP:HB2	2.42	0.55
47:S2:216:C:H41	47:S2:312:G:N2	2.05	0.55
47:S2:748:C:H42	47:S2:751:G:H8	1.54	0.55
47:S2:810:A:O2'	47:S2:811:A:H5'	2.07	0.55
47:S2:840:C:H4'	76:SY:12:PHE:CE2	2.38	0.55
47:S2:955:A:N6	47:S2:971:G:H1'	2.22	0.55
47:S2:1017:U:O5'	73:SN:55:ARG:NH1	2.39	0.55
47:S2:1120:U:H5'	78:Sb:72:ARG:NH2	2.22	0.55
47:S2:1192:U:P	64:SX:119:ARG:HH22	2.29	0.55
47:S2:1233:G:N2	47:S2:1526:G:H1'	2.22	0.55
47:S2:1334:G:H2'	47:S2:1335:G:H5'	1.89	0.55
47:S2:1537:A:H61	47:S2:1596:U:H3	1.55	0.55
48:SA:86:ALA:HB2	48:SA:202:TYR:HB3	1.89	0.55
49:SB:123:ALA:HB3	49:SB:139:CYS:SG	2.47	0.55
49:SB:232:HIS:ND1	49:SB:232:HIS:O	2.40	0.55
50:SD:35:SER:H	50:SD:99:ILE:HG22	1.71	0.55
50:SD:157:MET:CE	50:SD:187:LYS:HD3	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:258:ALA:O	51:SE:262:SER:N	2.39	0.55
52:SF:167:LYS:HZ3	77:SZ:72:VAL:HG13	1.71	0.55
57:SP:82:ASP:OD1	57:SP:83:MET:N	2.39	0.55
58:SQ:8:GLN:O	58:SQ:26:LYS:HA	2.07	0.55
58:SQ:43:GLU:CG	58:SQ:48:GLN:HG3	2.37	0.55
59:SR:119:VAL:HA	59:SR:120:THR:OG1	2.06	0.55
70:SG:66:GLY:HA2	70:SG:68:LEU:CD1	2.37	0.55
71:SJ:43:VAL:O	71:SJ:46:VAL:HG22	2.06	0.55
73:SN:88:LEU:CD1	73:SN:125:LEU:HD23	2.29	0.55
77:SZ:99:LEU:N	77:SZ:100:VAL:HA	2.21	0.55
1:L5:119:G:H3'	1:L5:120:A:C5'	2.36	0.55
1:L5:138:G:O2'	1:L5:139:G:H5'	2.06	0.55
1:L5:308:G:H2'	1:L5:308:G:N3	2.21	0.55
1:L5:694:C:C3'	1:L5:695:G:H5"	2.26	0.55
1:L5:1373:A:OP1	6:LC:44:LEU:HD22	2.06	0.55
1:L5:1768:C:H4'	1:L5:1769:G:H8	1.72	0.55
1:L5:1791:U:H4'	22:LT:19:PHE:CD2	2.42	0.55
1:L5:1825:A:H2'	1:L5:1826:G:C8	2.42	0.55
1:L5:2032:U:H5"	1:L5:2033:A:OP2	2.06	0.55
1:L5:2626:U:C6	23:LU:92:LYS:HG2	2.42	0.55
1:L5:3694:U:C2'	1:L5:3695:U:H5'	2.36	0.55
1:L5:3809:G:N3	1:L5:3809:G:H2'	2.22	0.55
1:L5:4208:U:O2'	1:L5:4209:G:H5'	2.06	0.55
1:L5:4711:C:H2'	1:L5:4712:C:O4'	2.06	0.55
1:L5:5021:C:H2'	1:L5:5022:U:H4'	1.89	0.55
1:L5:5039:U:H3'	1:L5:5040:U:C5'	2.36	0.55
3:L8:48:A:N6	3:L8:62:A:N1	2.55	0.55
5:LB:90:VAL:O	5:LB:160:ILE:HB	2.06	0.55
6:LC:344:ALA:O	6:LC:347:HIS:HB3	2.07	0.55
7:LD:90:VAL:HG11	7:LD:229:ASN:HD21	1.72	0.55
11:LH:8:GLN:HB3	11:LH:57:VAL:HG22	1.88	0.55
14:LL:31:ARG:HG3	14:LL:32:LYS:N	2.20	0.55
14:LL:55:ILE:O	14:LL:55:ILE:HG23	2.07	0.55
19:LQ:70:MET:HE3	19:LQ:80:ALA:HB2	1.89	0.55
19:LQ:103:LEU:HD12	19:LQ:123:PHE:CE2	2.35	0.55
20:LR:32:ILE:O	20:LR:35:ALA:N	2.35	0.55
21:LS:48:VAL:HG11	21:LS:54:MET:SD	2.47	0.55
25:LW:83:THR:HG23	70:SG:131:ARG:HH21	1.69	0.55
35:Lg:22:LEU:C	35:Lg:22:LEU:HD12	2.32	0.55
39:Lk:24:LYS:CD	39:Lk:69:LEU:HD21	2.25	0.55
45:Lr:31:ASN:ND2	45:Lr:35:ARG:O	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:121:U:C2'	47:S2:122:G:H5'	2.36	0.55
47:S2:582:C:C2'	47:S2:583:C:H5"	2.37	0.55
47:S2:733:C:H2'	47:S2:734:C:C2	2.41	0.55
47:S2:1140:G:N2	47:S2:1141:G:H1'	2.21	0.55
47:S2:1223:A:C2	47:S2:1224:G:H1'	2.42	0.55
47:S2:1392:U:H2'	47:S2:1393:G:H8	1.65	0.55
47:S2:1434:C:H2'	47:S2:1435:C:C6	2.42	0.55
47:S2:1514:G:H3'	47:S2:1515:G:H8	1.72	0.55
47:S2:1550:G:H21	47:S2:1559:C:H1'	1.70	0.55
50:SD:95:GLY:HA3	50:SD:129:SER:OG	2.06	0.55
51:SE:207:VAL:CG2	51:SE:221:ARG:HD3	2.37	0.55
54:SI:176:ALA:HB3	54:SI:187:GLY:HA2	1.89	0.55
56:SL:68:ILE:HA	56:SL:130:GLU:O	2.06	0.55
68:Sg:111:VAL:HA	68:Sg:123:GLY:HA3	1.88	0.55
68:Sg:113:PHE:HD1	68:Sg:120:ILE:HG12	1.71	0.55
71:SJ:136:ARG:HD2	71:SJ:139:LYS:O	2.07	0.55
74:SO:28:PHE:HA	74:SO:92:ALA:O	2.07	0.55
1:L5:504:G:N2	1:L5:655:C:H1'	2.22	0.55
1:L5:510:U:OP2	29:La:83:SER:HB3	2.07	0.55
1:L5:1085:C:N4	1:L5:1213:G:O6	2.28	0.55
1:L5:1180:C:H5'	1:L5:1181:C:H6	1.72	0.55
1:L5:1520:C:O2	1:L5:1658:G:N2	2.39	0.55
1:L5:1676:C:O2	1:L5:4191:G:O2'	2.25	0.55
1:L5:1907:A:C2	1:L5:2069:A:C6	2.95	0.55
1:L5:2582:A:H5"	1:L5:2583:C:OP2	2.07	0.55
1:L5:2592:U:N3	1:L5:2593:C:O2	2.40	0.55
1:L5:2847:G:O2'	1:L5:2848:G:H5'	2.07	0.55
1:L5:4131:G:O2'	1:L5:4132:C:H5'	2.05	0.55
1:L5:4235:G:C2'	1:L5:4236:G:H5'	2.37	0.55
1:L5:4522:G:O2'	1:L5:4525:C:OP2	2.24	0.55
1:L5:4729:A:H5"	1:L5:4965:U:H1'	1.88	0.55
1:L5:4769:G:H22	1:L5:4865:C:H42	1.55	0.55
2:L7:96:U:C2'	2:L7:97:G:H5"	2.36	0.55
3:L8:82:A:H4'	3:L8:82:A:OP2	2.07	0.55
3:L8:85:U:O2'	3:L8:86:U:O5'	2.22	0.55
6:LC:237:ILE:H	6:LC:237:ILE:HD12	1.72	0.55
8:LE:265:PRO:O	8:LE:266:GLN:HB2	2.05	0.55
10:LG:251:ALA:HA	10:LG:254:GLU:HB2	1.89	0.55
11:LH:31:ARG:HG2	11:LH:32:GLY:N	2.15	0.55
13:LJ:167:GLN:C	13:LJ:171:ASP:HA	2.32	0.55
16:LN:108:ARG:HD2	16:LN:161:MET:HE2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:LQ:79:THR:CB	19:LQ:136:THR:HG22	2.16	0.55
20:LR:102:LEU:C	20:LR:102:LEU:HD12	2.32	0.55
23:LU:49:VAL:HG21	23:LU:57:GLY:HA3	1.89	0.55
28:LZ:4:PHE:O	28:LZ:6:LYS:N	2.40	0.55
29:La:113:GLY:N	29:La:133:ALA:HB2	2.22	0.55
44:Lp:10:ILE:O	44:Lp:10:ILE:HG13	2.06	0.55
45:Lr:53:PRO:HB3	45:Lr:117:ILE:HD11	1.89	0.55
46:Lz:136:SER:O	46:Lz:139:THR:HG22	2.07	0.55
46:Lz:152:LYS:HD2	46:Lz:154:THR:HB	1.88	0.55
47:S2:164:A:OP1	70:SG:83:CYS:N	2.37	0.55
47:S2:481:C:H5"	47:S2:482:G:OP2	2.07	0.55
47:S2:745:C:H5"	47:S2:746:C:H5"	1.88	0.55
47:S2:816:A:C2'	47:S2:817:G:H5'	2.29	0.55
47:S2:893:U:H5'	47:S2:894:G:OP1	2.06	0.55
47:S2:1062:A:O2'	47:S2:1063:C:H5'	2.07	0.55
47:S2:1268:C:N3	47:S2:1514:G:N2	2.55	0.55
47:S2:1276:A:N3	47:S2:1276:A:H2'	2.21	0.55
47:S2:1285:G:H4'	72:SM:36:ARG:HD2	1.89	0.55
47:S2:1304:U:H5'	80:Sf:95:ARG:N	2.22	0.55
47:S2:1414:A:N6	47:S2:1428:G:O6	2.40	0.55
47:S2:1498:A:C2	50:SD:181:VAL:HG11	2.42	0.55
48:SA:132:GLN:N	48:SA:133:PRO:HD2	2.21	0.55
48:SA:184:ARG:HE	48:SA:189:ILE:HD13	1.71	0.55
49:SB:81:PHE:CD2	49:SB:109:LYS:HE3	2.42	0.55
54:SI:62:VAL:HG12	54:SI:77:ARG:CA	2.37	0.55
58:SQ:38:PRO:CG	61:ST:8:ASP:HA	2.30	0.55
62:SU:91:LEU:HD12	62:SU:98:VAL:HG21	1.88	0.55
63:SV:74:LYS:NZ	63:SV:80:SER:O	2.40	0.55
64:SX:64:SER:O	64:SX:65:ALA:HB3	2.07	0.55
65:Sa:43:ASN:CG	65:Sa:66:LYS:HE2	2.32	0.55
66:Sc:42:ILE:HD11	66:Sc:64:GLU:CG	2.37	0.55
68:Sg:4:GLN:HG3	68:Sg:313:THR:OG1	2.06	0.55
68:Sg:17:TRP:O	68:Sg:35:SER:HA	2.06	0.55
68:Sg:77:PHE:CB	68:Sg:89:LEU:HD11	2.36	0.55
69:SC:274:VAL:O	69:SC:278:THR:N	2.37	0.55
71:SJ:38:ARG:HG2	71:SJ:39:ASN:N	2.22	0.55
72:SM:53:ALA:CA	72:SM:82:ASN:HD21	2.18	0.55
73:SN:149:LEU:HD23	73:SN:150:VAL:HG23	1.88	0.55
74:SO:15:ILE:HG23	74:SO:16:SER:N	2.14	0.55
76:SY:21:LYS:HG3	76:SY:23:MET:CE	2.37	0.55
76:SY:129:LYS:HA	76:SY:132:LYS:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:SZ:51:ASP:O	77:SZ:55:TYR:HB3	2.06	0.55
1:L5:438:G:OP1	33:Le:16:ARG:NH2	2.37	0.55
1:L5:500:G:H3'	1:L5:500:G:N3	2.22	0.55
1:L5:1217:G:H2'	1:L5:1218:G:N3	2.22	0.55
1:L5:1577:G:OP2	4:LA:181:LYS:HD2	2.07	0.55
1:L5:1688:G:O2'	1:L5:2284:G:H1'	2.06	0.55
1:L5:1753:G:H2'	1:L5:1754:U:H5"	1.89	0.55
1:L5:1999:A:H2'	1:L5:2000:G:O4'	2.07	0.55
1:L5:2073:C:H5"	9:LF:212:LYS:HB3	1.88	0.55
1:L5:2604:C:N3	1:L5:2736:G:N1	2.55	0.55
1:L5:2650:G:O2'	1:L5:2651:C:H5'	2.07	0.55
1:L5:2766:A:H3'	1:L5:2766:A:N3	2.22	0.55
1:L5:3652:A:H5"	1:L5:3653:A:OP2	2.07	0.55
1:L5:3801:U:HO2'	1:L5:3802:U:P	2.30	0.55
1:L5:4117:U:C1'	10:LG:43:GLN:HE22	2.20	0.55
1:L5:4704:C:O2'	1:L5:4705:A:H5'	2.07	0.55
1:L5:4881:U:O2'	1:L5:4882:U:O4'	2.23	0.55
1:L5:5026:U:H3'	1:L5:5026:U:O2	2.07	0.55
1:L5:5027:C:H1'	1:L5:5028:G:H5"	1.88	0.55
2:L7:77:A:C2	2:L7:100:A:H1'	2.42	0.55
3:L8:96:C:N4	3:L8:97:A:N1	2.55	0.55
5:LB:210:VAL:HG12	5:LB:211:PHE:CD1	2.42	0.55
6:LC:177:TRP:HH2	6:LC:181:LYS:HD2	1.68	0.55
6:LC:214:ASP:O	6:LC:215:ASN:ND2	2.40	0.55
8:LE:141:ARG:NH1	34:Lf:110:ILE:HD12	2.22	0.55
10:LG:143:VAL:HA	10:LG:146:LEU:HB2	1.87	0.55
11:LH:6:SER:O	11:LH:7:ASN:ND2	2.39	0.55
11:LH:91:LYS:HD3	11:LH:143:GLU:OE2	2.07	0.55
14:LL:79:GLU:O	14:LL:82:ARG:N	2.39	0.55
15:LM:6:PHE:HB2	21:LS:151:LYS:HD2	1.88	0.55
16:LN:198:LEU:HD23	16:LN:199:GLN:N	2.22	0.55
16:LN:203:TYR:O	16:LN:204:ARG:HG2	2.07	0.55
21:LS:84:TYR:CE1	21:LS:113:MET:HE1	2.42	0.55
23:LU:62:THR:CB	23:LU:73:THR:HB	2.22	0.55
24:LV:20:LEU:N	24:LV:21:PRO:HD3	2.21	0.55
27:LY:22:PRO:CD	27:LY:25:ILE:HD12	2.37	0.55
27:LY:58:VAL:O	27:LY:63:LYS:HG2	2.07	0.55
33:Le:108:ARG:CD	33:Le:127:ALA:HB3	2.37	0.55
37:Li:85:ARG:O	37:Li:89:GLU:HG2	2.07	0.55
41:Lm:94:MET:O	41:Lm:95:ILE:HD13	2.07	0.55
47:S2:202:G:H2'	47:S2:203:G:C8	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1047:C:O2'	47:S2:1048:G:H5'	2.07	0.55
47:S2:1101:U:OP1	49:SB:151:ARG:HG3	2.07	0.55
47:S2:1155:U:H1'	75:SW:71:LYS:HD3	1.88	0.55
47:S2:1213:C:H2'	47:S2:1214:A:C8	2.42	0.55
47:S2:1439:A:H2'	47:S2:1440:C:C5	2.42	0.55
47:S2:1613:G:H1	47:S2:1626:C:H42	1.53	0.55
49:SB:79:VAL:HG12	49:SB:82:ARG:H	1.72	0.55
49:SB:187:LYS:HB3	49:SB:193:ILE:HD12	1.89	0.55
51:SE:163:ASP:OD1	51:SE:168:LYS:HB3	2.06	0.55
52:SF:176:GLU:O	52:SF:179:ASN:HB2	2.08	0.55
53:SH:83:LEU:O	53:SH:83:LEU:HD23	2.07	0.55
54:SI:62:VAL:HG12	54:SI:77:ARG:HB3	1.88	0.55
55:SK:1:MET:O	55:SK:2:LEU:HD12	2.07	0.55
56:SL:96:ILE:HD12	64:SX:10:ALA:CB	2.25	0.55
61:ST:28:LEU:HG	61:ST:30:VAL:HG22	1.89	0.55
68:Sg:258:ILE:HG21	68:Sg:268:ASP:N	2.15	0.55
70:SG:84:TYR:CE2	70:SG:86:PRO:HB3	2.41	0.55
70:SG:103:ASP:O	70:SG:106:LEU:HD13	2.07	0.55
70:SG:220:ALA:HA	70:SG:223:LYS:HE2	1.88	0.55
72:SM:17:ALA:C	72:SM:18:LEU:HD12	2.32	0.55
76:SY:107:ARG:HA	76:SY:110:ARG:CB	2.37	0.55
1:L5:387:G:H4'	1:L5:388:A:OP1	2.07	0.54
1:L5:399:G:H1'	18:LP:97:ASN:HD22	1.71	0.54
1:L5:710:G:OP1	8:LE:192:LYS:NZ	2.40	0.54
1:L5:748:G:O6	1:L5:918:G:H1'	2.07	0.54
1:L5:947:C:O2'	1:L5:948:C:H5'	2.06	0.54
1:L5:964:A:O2'	45:Lr:98:ARG:NE	2.40	0.54
1:L5:1633:G:H4'	1:L5:1634:A:O5'	2.07	0.54
1:L5:1775:A:H2'	1:L5:1776:A:O4'	2.07	0.54
1:L5:1810:G:C2'	1:L5:1811:G:H5'	2.37	0.54
1:L5:1852:U:OP1	29:La:22:ILE:HB	2.07	0.54
1:L5:1940:G:O2'	1:L5:1941:A:OP1	2.23	0.54
1:L5:1962:A:H5"	1:L5:2024:G:H22	1.69	0.54
1:L5:1985:G:H3'	1:L5:1986:U:C6	2.42	0.54
1:L5:2123:C:H5'	9:LF:37:PHE:CE1	2.42	0.54
1:L5:2271:C:O2'	1:L5:2272:C:H5'	2.07	0.54
1:L5:2316:G:H21	33:Le:76:LYS:HZ3	1.55	0.54
1:L5:2720:C:C3'	1:L5:2721:G:H5"	2.36	0.54
1:L5:3746:A:H5'	4:LA:243:THR:O	2.07	0.54
1:L5:4181:U:H2'	1:L5:4182:G:O4'	2.07	0.54
1:L5:4588:U:O2'	1:L5:4589:A:H5"	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4884:G:O6	8:LE:182:ASN:HA	2.07	0.54
1:L5:4937:C:H5"	8:LE:183:ARG:CD	2.33	0.54
2:L7:54:A:C2	13:LJ:12:MET:HB3	2.42	0.54
3:L8:93:C:H5"	38:Lj:76:HIS:NE2	2.22	0.54
3:L8:116:C:O2'	26:LX:55:ARG:NH1	2.40	0.54
3:L8:121:G:H2'	3:L8:122:G:H8	1.69	0.54
6:LC:13:GLU:OE2	6:LC:157:LYS:HE3	2.08	0.54
9:LF:175:ILE:CD1	9:LF:187:MET:HG3	2.37	0.54
10:LG:224:THR:HA	10:LG:228:ASP:HB2	1.88	0.54
12:LI:150:GLU:OE1	12:LI:153:ARG:HD3	2.06	0.54
13:LJ:40:LEU:HD23	13:LJ:43:LEU:CD2	2.24	0.54
21:LS:12:VAL:HG11	21:LS:44:PHE:CG	2.42	0.54
27:LY:30:MET:HB3	27:LY:101:PRO:HG2	1.88	0.54
28:LZ:53:VAL:HA	28:LZ:57:MET:SD	2.47	0.54
34:Lf:51:TYR:O	34:Lf:68:ARG:N	2.37	0.54
42:Ln:13:LEU:HD21	47:S2:1818:A:O2'	2.07	0.54
46:Lz:23:ARG:HA	46:Lz:212:LYS:HZ1	1.71	0.54
47:S2:11:A:O2'	47:S2:12:U:H5'	2.07	0.54
47:S2:76:U:H5	70:SG:159:ARG:NH2	2.04	0.54
47:S2:338:G:H3'	47:S2:339:A:C5'	2.36	0.54
47:S2:990:A:OP2	65:Sa:37:LYS:HE2	2.07	0.54
47:S2:1104:G:H2'	47:S2:1105:G:O4'	2.07	0.54
47:S2:1140:G:H21	47:S2:1141:G:H1'	1.72	0.54
47:S2:1304:U:H5'	80:Sf:95:ARG:CA	2.37	0.54
47:S2:1428:G:H2'	47:S2:1429:G:N7	2.21	0.54
47:S2:1718:G:O2'	47:S2:1815:A:N6	2.40	0.54
47:S2:1776:G:N1	47:S2:1777:G:N7	2.54	0.54
50:SD:73:VAL:HG13	50:SD:77:PHE:CG	2.42	0.54
51:SE:52:LEU:HD13	51:SE:54:TYR:HE2	1.72	0.54
55:SK:26:ASP:OD1	55:SK:27:VAL:N	2.40	0.54
56:SL:111:VAL:HG12	56:SL:142:VAL:HG23	1.88	0.54
57:SP:80:LEU:CD1	57:SP:82:ASP:HB3	2.37	0.54
58:SQ:28:GLY:N	58:SQ:67:ASP:H	2.04	0.54
61:ST:11:GLN:HE21	61:ST:62:ARG:HD2	1.72	0.54
65:Sa:40:VAL:HG23	65:Sa:69:VAL:HB	1.89	0.54
65:Sa:56:ALA:O	74:SO:126:ILE:N	2.38	0.54
67:Sd:14:PHE:N	67:Sd:18:SER:HB2	2.23	0.54
68:Sg:131:LEU:HB2	68:Sg:140:TYR:HD2	1.71	0.54
69:SC:170:TRP:O	75:SW:97:ARG:HD3	2.07	0.54
71:SJ:12:THR:HA	71:SJ:48:PHE:CE2	2.42	0.54
75:SW:7:LEU:CD2	75:SW:126:LEU:HD21	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:SW:55:ASP:OD1	75:SW:59:GLY:HA2	2.06	0.54
75:SW:77:PRO:HG2	75:SW:79:PHE:CE2	2.42	0.54
75:SW:106:THR:HB	75:SW:121:THR:CG2	2.34	0.54
1:L5:9:C:OP1	16:LN:37:HIS:NE2	2.30	0.54
1:L5:429:A:O2'	1:L5:430:G:H5'	2.08	0.54
1:L5:517:C:C4	1:L5:646:G:H1'	2.42	0.54
1:L5:695:G:H3'	1:L5:696:C:O4'	2.07	0.54
1:L5:1169:G:C2	1:L5:1193:C:H1'	2.43	0.54
1:L5:1285:U:OP2	8:LE:130:LYS:NZ	2.40	0.54
1:L5:1814:C:H4'	1:L5:1815:G:H8	1.72	0.54
1:L5:1909:G:OP1	2:L7:84:U:O2'	2.14	0.54
1:L5:2664:G:H4'	1:L5:2677:G:H4'	1.88	0.54
1:L5:2744:A:C2	1:L5:2745:A:C4	2.96	0.54
1:L5:3754:G:O2'	1:L5:3755:G:H5'	2.08	0.54
1:L5:3845:A:P	5:LB:249:ARG:HH12	2.29	0.54
1:L5:4406:U:H2'	1:L5:4407:G:C5'	2.32	0.54
1:L5:4461:C:N3	1:L5:4516:G:N1	2.56	0.54
1:L5:4904:G:H1	1:L5:4917:C:H42	1.53	0.54
4:LA:117:GLU:HB2	4:LA:162:ASN:HB2	1.89	0.54
10:LG:95:LEU:HD12	10:LG:218:LEU:HD13	1.88	0.54
13:LJ:78:LYS:HB2	13:LJ:81:GLU:CD	2.31	0.54
14:LL:91:ALA:HB1	14:LL:96:ILE:HB	1.89	0.54
15:LM:5:ARG:O	15:LM:57:LEU:HD13	2.07	0.54
22:LT:57:TYR:CE2	22:LT:89:ILE:HD11	2.42	0.54
26:LX:71:LEU:HD23	26:LX:76:ILE:CD1	2.37	0.54
28:LZ:89:ILE:HG23	28:LZ:91:LEU:HD12	1.88	0.54
32:Ld:42:ALA:N	32:Ld:43:PRO:HD2	2.21	0.54
32:Ld:102:LEU:HD12	32:Ld:103:TYR:H	1.72	0.54
33:Le:30:LYS:O	33:Le:31:ILE:HD13	2.07	0.54
35:Lg:42:PRO:CG	35:Lg:53:LEU:HD23	2.14	0.54
38:Lj:18:LEU:O	38:Lj:18:LEU:HD12	2.06	0.54
38:Lj:67:LEU:HA	38:Lj:70:VAL:HG12	1.89	0.54
47:S2:119:U:H3	51:SE:33:THR:HG21	1.72	0.54
47:S2:499:G:N2	47:S2:501:C:H1'	2.23	0.54
47:S2:807:G:C2'	47:S2:808:A:H5'	2.38	0.54
47:S2:818:A:H2'	47:S2:819:G:C5'	2.37	0.54
47:S2:1406:G:H2'	47:S2:1407:U:H1'	1.87	0.54
47:S2:1507:G:O6	80:Sf:87:THR:HG23	2.08	0.54
47:S2:1673:U:OP2	58:SQ:17:LYS:NZ	2.27	0.54
47:S2:1725:U:C2'	47:S2:1726:G:H5"	2.37	0.54
47:S2:1854:U:O2'	47:S2:1855:G:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:81:ASN:HA	48:SA:84:GLN:OE1	2.07	0.54
50:SD:198:ILE:HG13	50:SD:199:GLY:N	2.21	0.54
51:SE:139:LEU:O	51:SE:146:THR:HA	2.06	0.54
51:SE:159:THR:HG21	51:SE:227:VAL:O	2.07	0.54
51:SE:160:ILE:CD1	51:SE:162:ILE:HD11	2.38	0.54
53:SH:68:GLN:OE1	53:SH:68:GLN:N	2.35	0.54
55:SK:82:TYR:O	72:SM:27:ILE:HD13	2.06	0.54
58:SQ:34:VAL:HG23	58:SQ:39:LEU:HD13	1.90	0.54
62:SU:19:ARG:HA	62:SU:92:HIS:N	2.21	0.54
64:SX:87:ASN:HB2	64:SX:90:CYS:SG	2.47	0.54
65:Sa:87:ARG:NH2	65:Sa:94:ASP:HB3	2.22	0.54
66:Sc:20:ARG:HD2	66:Sc:28:THR:HG21	1.89	0.54
68:Sg:119:GLN:CD	68:Sg:131:LEU:HG	2.32	0.54
70:SG:49:VAL:O	70:SG:49:VAL:HG23	2.07	0.54
70:SG:219:GLU:CA	70:SG:222:GLU:HB3	2.37	0.54
1:L5:665:C:H4'	1:L5:666:G:C8	2.41	0.54
1:L5:1443:A:H3'	1:L5:1443:A:N3	2.23	0.54
1:L5:1556:C:H42	1:L5:1571:G:H1	1.56	0.54
1:L5:1592:G:N3	1:L5:1604:G:N2	2.54	0.54
1:L5:1922:G:C2'	1:L5:1923:A:H5'	2.36	0.54
1:L5:2389:A:HO2'	1:L5:2390:G:P	2.31	0.54
1:L5:3745:U:O2'	1:L5:3746:A:H5'	2.07	0.54
1:L5:3895:G:H1	1:L5:4565:C:H42	1.55	0.54
1:L5:4065:G:H2'	1:L5:4065:G:N3	2.21	0.54
1:L5:4070:U:H2'	1:L5:4071:U:C5'	2.37	0.54
1:L5:4088:C:O2'	1:L5:4089:G:H5'	2.07	0.54
1:L5:4385:A:O2'	1:L5:4546:A:OP1	2.22	0.54
1:L5:4564:A:H2'	1:L5:4565:C:O4'	2.07	0.54
1:L5:4628:U:C2'	1:L5:4629:U:H5'	2.37	0.54
1:L5:4910:G:N2	17:LO:106:ASP:O	2.38	0.54
3:L8:12:G:O4'	18:LP:5:SER:HB2	2.07	0.54
4:LA:96:LEU:HD11	4:LA:108:PRO:HD2	1.89	0.54
6:LC:109:ARG:O	6:LC:110:ARG:HB2	2.06	0.54
7:LD:195:HIS:O	7:LD:199:ILE:HG13	2.07	0.54
7:LD:209:ARG:O	7:LD:212:MET:HB3	2.07	0.54
9:LF:83:VAL:HG12	21:LS:62:VAL:HA	1.88	0.54
13:LJ:95:ARG:HH11	13:LJ:177:GLY:HA2	1.72	0.54
14:LL:79:GLU:OE1	14:LL:110:LEU:HD11	2.07	0.54
17:LO:74:ARG:O	17:LO:147:TRP:HB2	2.07	0.54
20:LR:72:LYS:O	20:LR:74:ARG:NH2	2.40	0.54
23:LU:41:GLN:HA	23:LU:44:GLN:CB	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:LW:73:ARG:NE	47:S2:1781:A:H2'	2.21	0.54
30:Lb:57:MET:HE3	30:Lb:61:ASN:ND2	2.22	0.54
31:Lc:65:MET:C	31:Lc:66:LEU:HD12	2.32	0.54
36:Lh:30:GLN:O	36:Lh:33:VAL:HB	2.07	0.54
41:Lm:91:CYS:SG	41:Lm:126:LYS:NZ	2.68	0.54
44:Lp:22:LEU:O	44:Lp:25:MET:HG2	2.06	0.54
45:Lr:24:THR:O	45:Lr:24:THR:HG23	2.06	0.54
46:Lz:39:LYS:CD	46:Lz:202:ARG:HH22	2.18	0.54
46:Lz:111:LEU:HD11	46:Lz:142:GLU:HA	1.89	0.54
47:S2:30:C:H4'	64:SX:137:LYS:NZ	2.23	0.54
47:S2:203:G:N2	47:S2:204:G:H1'	2.22	0.54
47:S2:1140:G:C2'	47:S2:1141:G:H5'	2.37	0.54
47:S2:1219:C:H4'	66:Sc:24:GLN:HE22	1.72	0.54
47:S2:1261:C:H3'	47:S2:1261:C:OP2	2.08	0.54
47:S2:1334:G:N1	47:S2:1335:G:N3	2.55	0.54
47:S2:1453:C:H4'	59:SR:49:LYS:HA	1.88	0.54
47:S2:1574:C:O2'	47:S2:1575:G:OP1	2.16	0.54
48:SA:69:GLU:HG2	69:SC:268:GLU:HG3	1.88	0.54
50:SD:19:ALA:HB1	67:Sd:46:TYR:CD1	2.42	0.54
52:SF:127:ARG:NH1	66:Sc:45:ASN:HB2	2.21	0.54
54:SI:66:SER:O	54:SI:189:VAL:HG23	2.07	0.54
54:SI:134:GLU:O	54:SI:137:LEU:HG	2.08	0.54
57:SP:14:LYS:HE3	57:SP:15:PHE:HE1	1.73	0.54
57:SP:33:LEU:HD12	57:SP:34:MET:N	2.22	0.54
62:SU:61:LEU:HD22	67:Sd:34:TYR:CE2	2.42	0.54
66:Sc:11:LEU:HD22	66:Sc:55:VAL:HG12	1.90	0.54
69:SC:273:LEU:HA	69:SC:276:THR:OG1	2.06	0.54
74:SO:97:LEU:HD21	74:SO:108:PRO:CB	2.36	0.54
75:SW:17:ALA:HB2	75:SW:25:VAL:CG1	2.37	0.54
78:Sb:75:GLU:HG3	78:Sb:76:GLY:N	2.22	0.54
1:L5:15:A:H2'	1:L5:16:G:O4'	2.07	0.54
1:L5:663:G:N2	1:L5:665:C:H41	2.06	0.54
1:L5:1250:C:C2'	1:L5:1251:C:H5'	2.37	0.54
1:L5:1278:C:C3'	1:L5:1279:A:H4'	2.38	0.54
1:L5:1653:A:OP1	29:La:32:ARG:NH2	2.40	0.54
1:L5:2078:C:OP1	33:Le:64:LYS:HG2	2.08	0.54
1:L5:2480:G:H2'	1:L5:2481:G:C5'	2.37	0.54
1:L5:3758:U:O2	1:L5:3764:U:O2'	2.22	0.54
1:L5:4114:C:H4'	1:L5:4115:G:OP2	2.05	0.54
1:L5:4965:U:H5"	1:L5:4966:A:OP1	2.08	0.54
4:LA:80:GLU:OE2	44:Lp:66:GLY:HA2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:96:LEU:O	4:LA:96:LEU:HD23	2.06	0.54
5:LB:361:GLU:O	5:LB:363:ILE:HG23	2.06	0.54
8:LE:95:PRO:HG2	8:LE:96:VAL:HA	1.89	0.54
11:LH:132:VAL:HG22	11:LH:154:VAL:CG2	2.37	0.54
13:LJ:13:ARG:HA	13:LJ:136:ARG:HD3	1.89	0.54
14:LL:179:PHE:HB3	29:La:134:GLU:CD	2.32	0.54
16:LN:118:SER:OG	16:LN:132:VAL:HG22	2.08	0.54
19:LQ:27:LEU:HD12	19:LQ:30:LYS:HD2	1.89	0.54
28:LZ:33:THR:HG21	28:LZ:36:ARG:O	2.07	0.54
35:Lg:106:VAL:HA	35:Lg:109:ALA:HB3	1.90	0.54
46:Lz:204:LEU:CD2	46:Lz:206:ILE:HB	2.38	0.54
47:S2:361:U:H4'	47:S2:362:C:H5'	1.89	0.54
47:S2:495:U:H5"	47:S2:496:C:OP2	2.07	0.54
47:S2:524:U:C5	79:Se:30:GLY:HA3	2.42	0.54
47:S2:795:A:C8	47:S2:796:G:H8	2.25	0.54
47:S2:1108:G:H21	47:S2:1109:C:H41	1.54	0.54
47:S2:1272:C:OP2	80:Sf:94:LYS:HE2	2.08	0.54
48:SA:38:ILE:CD1	48:SA:47:TYR:HB3	2.33	0.54
49:SB:124:HIS:HB3	49:SB:138:PHE:CD1	2.43	0.54
49:SB:222:LYS:HG3	49:SB:223:PHE:N	2.23	0.54
50:SD:23:GLU:HG3	55:SK:64:TRP:NE1	2.10	0.54
50:SD:33:GLY:HA2	50:SD:103:GLU:CG	2.37	0.54
50:SD:48:ILE:HD11	50:SD:86:LEU:HD23	1.90	0.54
50:SD:48:ILE:HD13	50:SD:73:VAL:HG21	1.90	0.54
50:SD:102:ALA:HB1	50:SD:173:ARG:HG3	1.89	0.54
51:SE:42:LEU:HB3	51:SE:84:ALA:HB3	1.88	0.54
55:SK:74:GLU:N	55:SK:74:GLU:OE1	2.41	0.54
59:SR:37:GLU:OE2	68:Sg:150:TRP:NE1	2.37	0.54
61:ST:60:THR:HG23	61:ST:75:MET:HE2	1.88	0.54
68:Sg:172:LYS:HE3	68:Sg:193:GLY:C	2.32	0.54
70:SG:70:HIS:HB2	70:SG:98:ARG:NH2	2.23	0.54
71:SJ:122:SER:H	71:SJ:125:HIS:HB3	1.73	0.54
72:SM:24:THR:HA	72:SM:116:LYS:H	1.71	0.54
72:SM:72:HIS:ND1	72:SM:74:ILE:HD11	2.22	0.54
1:L5:460:C:H4'	8:LE:110:ARG:NH1	2.23	0.54
1:L5:462:G:O6	1:L5:693:C:N4	2.33	0.54
1:L5:500:G:H5'	1:L5:501:C:C1'	2.37	0.54
1:L5:708:G:O2'	1:L5:709:C:H5'	2.07	0.54
1:L5:1378:C:C4'	1:L5:1379:C:H5'	2.30	0.54
1:L5:1550:G:H5'	20:LR:84:THR:HG21	1.90	0.54
1:L5:1772:C:H2'	1:L5:1773:U:O4'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1866:U:C4	1:L5:4405:G:H1'	2.42	0.54
1:L5:1947:U:H2'	1:L5:1947:U:O2	2.08	0.54
1:L5:1987:C:H2'	1:L5:1989:G:C2	2.43	0.54
1:L5:2281:U:C2'	1:L5:2282:A:H5'	2.37	0.54
1:L5:2628:U:C2'	1:L5:2629:C:H5'	2.37	0.54
1:L5:2733:C:H2'	1:L5:2734:U:O4'	2.08	0.54
1:L5:2773:G:C2'	1:L5:2774:C:H5'	2.38	0.54
1:L5:2897:G:C2	1:L5:2898:G:C8	2.95	0.54
1:L5:2903:G:C2'	1:L5:2905:C:H42	2.20	0.54
1:L5:3670:C:O2'	1:L5:3671:G:O4'	2.24	0.54
1:L5:4181:U:H2'	1:L5:4182:G:C5'	2.38	0.54
1:L5:4475:G:H5"	1:L5:4476:C:H5'	1.89	0.54
1:L5:4596:C:H2'	1:L5:4597:U:C6	2.43	0.54
1:L5:4599:A:N1	1:L5:4610:A:H5"	2.21	0.54
1:L5:4763:U:C3'	11:LH:23:ARG:HH11	2.20	0.54
1:L5:4865:C:C2'	1:L5:4866:C:H5'	2.37	0.54
1:L5:5064:G:O2'	18:LP:56:GLN:NE2	2.41	0.54
2:L7:94:C:H2'	2:L7:95:C:C6	2.43	0.54
4:LA:7:GLY:HA2	4:LA:10:LYS:CB	2.35	0.54
5:LB:257:TRP:HD1	5:LB:258:HIS:CD2	2.25	0.54
7:LD:99:TYR:HA	7:LD:161:GLY:O	2.08	0.54
7:LD:184:ASP:HB3	7:LD:189:GLU:H	1.72	0.54
8:LE:88:VAL:CB	8:LE:89:LEU:HB2	2.18	0.54
8:LE:270:TYR:HD1	15:LM:110:PHE:CG	2.26	0.54
9:LF:209:TRP:CG	9:LF:210:PRO:HD2	2.42	0.54
14:LL:56:ARG:CB	14:LL:72:ALA:HB1	2.27	0.54
16:LN:114:ARG:N	16:LN:135:ILE:O	2.40	0.54
16:LN:179:LYS:HB2	16:LN:180:PHE:CD2	2.43	0.54
19:LQ:71:LYS:O	19:LQ:72:LEU:HD12	2.07	0.54
19:LQ:162:HIS:O	19:LQ:163:THR:OG1	2.15	0.54
21:LS:7:LEU:CD1	21:LS:35:PRO:HD3	2.37	0.54
23:LU:101:ARG:HD2	23:LU:115:PHE:CD1	2.42	0.54
37:Li:89:GLU:OE1	37:Li:92:ASN:ND2	2.38	0.54
46:Lz:66:CYS:O	46:Lz:68:LEU:HA	2.07	0.54
47:S2:440:G:H1	47:S2:453:C:N4	2.05	0.54
47:S2:958:G:C6	47:S2:959:G:C6	2.95	0.54
47:S2:1138:C:O2'	63:SV:61:ARG:NH1	2.39	0.54
47:S2:1216:C:O2'	58:SQ:143:LYS:NZ	2.29	0.54
47:S2:1366:G:N2	47:S2:1374:C:H1'	2.21	0.54
48:SA:203:PHE:CZ	59:SR:91:LEU:HD11	2.42	0.54
50:SD:35:SER:HA	50:SD:99:ILE:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:71:LYS:HD3	51:SE:74:GLY:HA2	1.89	0.54
51:SE:220:THR:HG22	51:SE:224:ASN:HB2	1.88	0.54
60:SS:14:ARG:HB3	60:SS:19:ASN:OD1	2.07	0.54
64:SX:70:VAL:CG1	64:SX:72:VAL:HG13	2.37	0.54
68:Sg:3:GLU:HB3	68:Sg:267:VAL:HG23	1.89	0.54
68:Sg:24:THR:CG2	68:Sg:30:MET:HG2	2.38	0.54
68:Sg:91:ASP:OD1	68:Sg:98:THR:OG1	2.25	0.54
68:Sg:114:SER:HB3	68:Sg:119:GLN:O	2.08	0.54
70:SG:204:GLU:O	70:SG:207:ALA:HB3	2.08	0.54
73:SN:16:LEU:O	75:SW:57:ARG:NH2	2.36	0.54
73:SN:40:LEU:O	73:SN:43:LYS:HG2	2.07	0.54
75:SW:32:LYS:HA	75:SW:35:VAL:HG22	1.88	0.54
1:L5:426:A:C2'	1:L5:427:A:H5'	2.37	0.54
1:L5:1175:A:H5"	7:LD:268:ARG:NH2	2.23	0.54
1:L5:1215:C:N4	1:L5:1216:C:N3	2.56	0.54
1:L5:1536:U:O2'	1:L5:1537:A:H5'	2.07	0.54
1:L5:1770:A:O2'	1:L5:1771:U:O4'	2.21	0.54
1:L5:2109:G:N2	1:L5:2110:C:H41	2.05	0.54
1:L5:2363:A:C2	1:L5:3860:A:C4	2.96	0.54
1:L5:2546:G:C3'	1:L5:2547:G:H5"	2.37	0.54
1:L5:2590:G:H2'	1:L5:2754:G:N2	2.22	0.54
1:L5:3612:C:H1'	1:L5:5016:A:H8	1.72	0.54
1:L5:3649:A:H2'	1:L5:3649:A:N3	2.22	0.54
1:L5:4303:C:O2	1:L5:4303:C:H2'	2.08	0.54
1:L5:4757:C:O2	17:LO:114:LYS:HA	2.06	0.54
2:L7:38:U:O2'	2:L7:42:A:N6	2.34	0.54
8:LE:50:LEU:HD12	8:LE:50:LEU:C	2.33	0.54
8:LE:261:ILE:CG2	8:LE:267:LEU:HD22	2.29	0.54
16:LN:118:SER:OG	16:LN:132:VAL:HA	2.07	0.54
21:LS:69:GLU:OE2	21:LS:76:LYS:NZ	2.40	0.54
22:LT:112:ASN:OD1	22:LT:128:LEU:HD22	2.08	0.54
25:LW:108:ALA:HA	25:LW:111:ALA:HB3	1.88	0.54
31:Lc:28:VAL:HG21	31:Lc:37:MET:HE3	1.88	0.54
32:Ld:100:ASN:O	32:Ld:101:LYS:HD3	2.07	0.54
38:Lj:2:THR:HG22	38:Lj:3:LYS:N	2.22	0.54
39:Lk:9:LYS:O	39:Lk:13:LEU:HG	2.08	0.54
39:Lk:23:VAL:HG23	39:Lk:36:VAL:N	2.22	0.54
43:Lo:64:LYS:O	43:Lo:87:ARG:HG3	2.08	0.54
43:Lo:74:GLU:CD	43:Lo:76:ASN:H	2.15	0.54
46:Lz:68:LEU:CD1	46:Lz:90:LEU:HD21	2.23	0.54
46:Lz:91:LYS:HD3	46:Lz:123:ILE:CG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:184:HIS:O	46:Lz:187:VAL:HG22	2.08	0.54
47:S2:191:A:O3'	54:SI:140:LYS:NZ	2.29	0.54
47:S2:819:G:O2'	47:S2:820:U:H5'	2.07	0.54
47:S2:1096:G:H1	47:S2:1136:U:H3	1.55	0.54
47:S2:1259:A:H2'	47:S2:1518:C:H42	1.72	0.54
47:S2:1563:G:N3	47:S2:1573:G:N2	2.56	0.54
47:S2:1621:U:O2	57:SP:84:ILE:HB	2.08	0.54
47:S2:1791:A:C2'	47:S2:1792:G:H5'	2.37	0.54
49:SB:28:LYS:CD	49:SB:48:LEU:HD11	2.37	0.54
51:SE:9:LEU:HD23	51:SE:28:ALA:HB3	1.90	0.54
51:SE:137:PRO:HB2	51:SE:150:PRO:CG	2.38	0.54
51:SE:158:ASP:OD1	51:SE:175:PHE:N	2.41	0.54
52:SF:50:PRO:HB3	52:SF:73:THR:HG21	1.89	0.54
52:SF:124:ASP:HB2	52:SF:139:VAL:HG23	1.90	0.54
54:SI:96:LEU:HD12	54:SI:96:LEU:O	2.07	0.54
63:SV:56:CYS:HB3	63:SV:59:ILE:HD12	1.89	0.54
65:Sa:102:ARG:HB2	65:Sa:103:PRO:CD	2.36	0.54
76:SY:20:ARG:HB3	76:SY:76:TYR:CE1	2.42	0.54
77:SZ:97:ILE:HG21	77:SZ:112:ASN:OD1	2.07	0.54
1:L5:90:G:O2'	1:L5:91:G:O5'	2.24	0.54
1:L5:725:G:H2'	1:L5:726:G:H8	1.71	0.54
1:L5:726:G:H5"	9:LF:69:ILE:HG23	1.90	0.54
1:L5:751:G:H22	1:L5:753:C:N4	2.05	0.54
1:L5:1077:C:H3'	1:L5:1078:A:C4'	2.33	0.54
1:L5:1100:U:H3'	1:L5:1100:U:H6	1.73	0.54
1:L5:1182:C:C3'	1:L5:1183:C:C5'	2.84	0.54
1:L5:2073:C:O2'	1:L5:2074:C:H5'	2.08	0.54
1:L5:2268:A:P	1:L5:2268:A:H3'	2.48	0.54
1:L5:2466:G:O2'	1:L5:2467:U:H5'	2.07	0.54
1:L5:2541:G:H2'	1:L5:2542:G:H5'	1.87	0.54
1:L5:2775:C:O2'	1:L5:2776:G:O5'	2.22	0.54
1:L5:2884:G:N2	1:L5:2885:A:N3	2.56	0.54
1:L5:3782:C:O2'	1:L5:3783:A:O5'	2.26	0.54
1:L5:3927:U:H5"	43:Lo:48:TYR:CE1	2.42	0.54
1:L5:4627:U:O2'	1:L5:4628:U:H5'	2.08	0.54
5:LB:343:ARG:HG3	5:LB:344:VAL:O	2.07	0.54
6:LC:207:PRO:HB3	6:LC:249:PHE:HD2	1.73	0.54
6:LC:232:VAL:HG22	6:LC:233:SER:N	2.23	0.54
10:LG:144:THR:HG21	16:LN:3:ALA:CB	2.37	0.54
11:LH:128:MET:SD	11:LH:157:SER:HB3	2.48	0.54
14:LL:18:TRP:H	14:LL:18:TRP:CD1	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:LM:6:PHE:CB	21:LS:151:LYS:HD2	2.37	0.54
17:LO:9:LEU:HD12	17:LO:9:LEU:O	2.08	0.54
17:LO:179:LYS:HA	17:LO:182:GLU:CB	2.38	0.54
21:LS:164:LYS:HD2	34:Lf:34:TYR:CB	2.37	0.54
27:LY:11:ARG:O	27:LY:15:ARG:HG3	2.08	0.54
27:LY:82:ILE:HG22	27:LY:83:GLU:N	2.22	0.54
30:Lb:9:THR:HG22	30:Lb:9:THR:O	2.08	0.54
32:Ld:54:MET:HE2	32:Ld:60:PRO:O	2.06	0.54
33:Le:90:MET:CB	45:Lr:33:LYS:HA	2.38	0.54
35:Lg:33:LEU:HD23	35:Lg:34:TYR:N	2.23	0.54
36:Lh:57:VAL:O	36:Lh:61:ILE:HG22	2.08	0.54
43:Lo:101:GLY:HA2	43:Lo:102:GLN:C	2.32	0.54
46:Lz:93:LEU:O	46:Lz:93:LEU:HD23	2.08	0.54
47:S2:183:G:H3'	47:S2:183:G:OP1	2.07	0.54
47:S2:449:A:O2'	47:S2:450:C:H4'	2.07	0.54
47:S2:660:C:O2'	56:SL:101:ARG:NH1	2.31	0.54
47:S2:805:U:O2'	47:S2:806:U:H5'	2.08	0.54
47:S2:1017:U:C5'	73:SN:55:ARG:HH11	2.20	0.54
47:S2:1263:U:H3'	47:S2:1264:C:H5'	1.89	0.54
47:S2:1340:U:OP2	47:S2:1341:C:O2'	2.25	0.54
47:S2:1384:C:H4'	50:SD:157:MET:O	2.08	0.54
47:S2:1486:A:H2'	47:S2:1487:A:O4'	2.08	0.54
49:SB:48:LEU:HD12	49:SB:49:VAL:H	1.73	0.54
49:SB:164:ILE:HD11	49:SB:204:ILE:HG22	1.90	0.54
50:SD:167:TYR:CZ	50:SD:204:LEU:HD12	2.43	0.54
51:SE:26:VAL:HG21	71:SJ:2:PRO:O	2.08	0.54
51:SE:212:ASP:OD1	51:SE:216:ASN:N	2.40	0.54
52:SF:119:SER:O	52:SF:121:PRO:HD3	2.07	0.54
53:SH:191:GLU:O	53:SH:193:GLN:HG3	2.08	0.54
58:SQ:102:GLU:OE1	68:Sg:58:ALA:N	2.30	0.54
59:SR:41:ILE:CD1	59:SR:47:ARG:HB2	2.26	0.54
64:SX:125:VAL:HG11	64:SX:130:LEU:HD13	1.89	0.54
65:Sa:45:VAL:HG22	65:Sa:45:VAL:O	2.07	0.54
70:SG:46:LYS:O	70:SG:117:GLY:HA2	2.06	0.54
70:SG:191:ARG:CZ	70:SG:191:ARG:HB2	2.37	0.54
71:SJ:15:THR:HG23	71:SJ:16:PRO:HD2	1.89	0.54
72:SM:20:GLU:OE2	72:SM:124:ILE:HG21	2.08	0.54
76:SY:37:LYS:HA	76:SY:40:ILE:HG22	1.88	0.54
77:SZ:50:PHE:HD1	77:SZ:55:TYR:HB2	1.69	0.54
77:SZ:68:ILE:CG2	77:SZ:109:TYR:HB2	2.38	0.54
77:SZ:81:GLY:HA2	77:SZ:84:ALA:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:498:C:H4'	1:L5:499:G:H5'	1.88	0.54
1:L5:726:G:C2'	1:L5:727:C:H5'	2.38	0.54
1:L5:979:C:O2'	1:L5:980:U:H5'	2.08	0.54
1:L5:1171:G:N1	1:L5:1190:C:O2	2.32	0.54
1:L5:1516:G:O2'	14:LL:18:TRP:NE1	2.31	0.54
1:L5:1667:G:O2'	1:L5:1668:A:O4'	2.25	0.54
1:L5:1903:G:OP1	34:Lf:87:LYS:NZ	2.31	0.54
1:L5:2091:C:H3'	1:L5:2259:G:O6	2.08	0.54
1:L5:2105:A:H2'	1:L5:2106:G:C8	2.43	0.54
1:L5:2251:G:OP2	8:LE:85:LYS:HD2	2.08	0.54
1:L5:2447:U:H1'	1:L5:2744:A:C2	2.42	0.54
1:L5:2621:A:H2'	1:L5:2622:G:H8	1.72	0.54
1:L5:3796:U:H2'	1:L5:3797:C:H6	1.72	0.54
1:L5:3970:G:H4'	1:L5:4052:C:N4	2.19	0.54
1:L5:4120:U:H5	35:Lg:97:ILE:HB	1.73	0.54
1:L5:4288:C:O2'	1:L5:4321:U:H5"	2.07	0.54
1:L5:4352:U:O2'	1:L5:4353:U:H5'	2.08	0.54
1:L5:4465:U:O2	1:L5:4466:C:N4	2.30	0.54
1:L5:4631:G:H2'	1:L5:4632:U:C6	2.43	0.54
2:L7:54:A:HO2'	2:L7:55:A:H5'	1.73	0.54
5:LB:87:VAL:CG2	5:LB:110:ILE:HG13	2.37	0.54
6:LC:171:LEU:HD11	6:LC:177:TRP:HD1	1.73	0.54
7:LD:278:ASP:HA	7:LD:281:ALA:CB	2.37	0.54
14:LL:76:PHE:HB3	14:LL:81:LEU:HD11	1.89	0.54
15:LM:38:VAL:HG22	15:LM:39:ASP:N	2.22	0.54
17:LO:18:ARG:CZ	17:LO:128:ARG:HH11	2.21	0.54
17:LO:191:LYS:O	17:LO:195:VAL:HG23	2.08	0.54
18:LP:48:LEU:HD23	18:LP:92:LEU:CD2	2.35	0.54
25:LW:83:THR:C	70:SG:131:ARG:H	2.15	0.54
25:LW:123:LYS:NZ	47:S2:321:C:OP2	2.23	0.54
26:LX:71:LEU:O	26:LX:76:ILE:HD11	2.08	0.54
29:La:130:SER:HB3	29:La:133:ALA:HB2	1.87	0.54
39:Lk:21:LYS:O	39:Lk:64:LEU:HG	2.07	0.54
44:Lp:44:LYS:HD2	44:Lp:59:SER:HB2	1.90	0.54
47:S2:50:A:H2'	47:S2:51:U:C6	2.41	0.54
47:S2:844:U:H2'	47:S2:845:G:H8	1.73	0.54
47:S2:902:G:H2'	47:S2:903:A:O4'	2.06	0.54
47:S2:1366:G:H2'	47:S2:1367:U:H5'	1.90	0.54
47:S2:1521:C:OP2	47:S2:1521:C:H2'	2.08	0.54
47:S2:1558:C:H42	47:S2:1577:G:H1	1.53	0.54
47:S2:1596:U:H5'	61:ST:48:TYR:OH	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1600:G:H5'	47:S2:1601:A:OP2	2.08	0.54
47:S2:1615:U:H5"	57:SP:43:ARG:HE	1.73	0.54
49:SB:217:MET:HG2	49:SB:220:LYS:CE	2.30	0.54
51:SE:38:LEU:HD23	51:SE:38:LEU:C	2.32	0.54
51:SE:42:LEU:CD2	51:SE:46:ILE:HD11	2.38	0.54
53:SH:24:SER:HA	53:SH:27:LEU:HB2	1.90	0.54
53:SH:70:LYS:HA	53:SH:73:GLN:HG2	1.89	0.54
54:SI:201:LYS:O	54:SI:204:ALA:N	2.41	0.54
55:SK:9:ILE:O	55:SK:12:TYR:HB2	2.08	0.54
56:SL:59:LYS:HD3	56:SL:134:LEU:CD2	2.27	0.54
58:SQ:47:LEU:HD13	58:SQ:50:LYS:CE	2.37	0.54
59:SR:76:GLU:O	59:SR:79:GLU:HB3	2.07	0.54
60:SS:116:LYS:O	60:SS:119:ALA:HB2	2.07	0.54
68:Sg:89:LEU:HB3	68:Sg:99:ARG:O	2.08	0.54
69:SC:74:LYS:HB3	69:SC:269:PHE:CE2	2.43	0.54
69:SC:265:PRO:HA	69:SC:268:GLU:H	1.73	0.54
70:SG:160:LYS:HE2	70:SG:172:LYS:CD	2.37	0.54
74:SO:43:HIS:O	74:SO:43:HIS:ND1	2.41	0.54
76:SY:86:GLU:OE2	76:SY:91:LEU:HD21	2.07	0.54
77:SZ:111:ARG:C	77:SZ:113:THR:H	2.16	0.54
1:L5:259:C:O2'	1:L5:260:C:H5'	2.08	0.54
1:L5:385:A:N3	1:L5:387:G:H5'	2.22	0.54
1:L5:392:U:H2'	1:L5:393:U:H5'	1.90	0.54
1:L5:408:A:O2'	1:L5:411:G:OP2	2.24	0.54
1:L5:1207:C:H2'	1:L5:1208:G:C8	2.43	0.54
1:L5:1252:C:H1'	1:L5:1258:G:N2	2.22	0.54
1:L5:2409:U:H5"	1:L5:2410:C:OP2	2.07	0.54
1:L5:2643:G:H2'	1:L5:2644:G:C8	2.41	0.54
1:L5:2664:G:C2'	1:L5:2665:U:H5'	2.37	0.54
1:L5:2696:A:C2	39:Lk:69:LEU:HD23	2.43	0.54
1:L5:2770:C:OP1	35:Lg:68:SER:OG	2.15	0.54
1:L5:2773:G:H2'	1:L5:2774:C:H5'	1.90	0.54
1:L5:3597:G:O2'	1:L5:3598:C:H5'	2.08	0.54
1:L5:3666:C:OP1	4:LA:227:ARG:NH2	2.41	0.54
1:L5:4149:C:H2'	1:L5:4150:G:H8	1.73	0.54
1:L5:4285:U:H2'	1:L5:4286:C:O4'	2.07	0.54
1:L5:4345:C:H1'	1:L5:4368:G:H22	1.72	0.54
1:L5:4460:U:H2'	1:L5:4461:C:H6	1.73	0.54
1:L5:4586:G:C6	1:L5:4717:A:N1	2.76	0.54
3:L8:77:A:N1	3:L8:78:G:N2	2.56	0.54
4:LA:58:LEU:CB	4:LA:75:LEU:HD21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:167:GLN:CB	8:LE:173:LEU:HD23	2.38	0.54
13:LJ:94:LEU:O	13:LJ:174:ILE:HA	2.08	0.54
14:LL:150:LEU:HD23	14:LL:151:THR:N	2.23	0.54
19:LQ:94:GLU:O	19:LQ:95:VAL:HB	2.08	0.54
20:LR:38:ARG:O	20:LR:39:GLN:HB3	2.08	0.54
22:LT:74:ILE:HG22	22:LT:75:VAL:N	2.22	0.54
24:LV:19:GLY:C	24:LV:21:PRO:HD3	2.33	0.54
25:LW:19:ARG:HD3	25:LW:37:GLU:OE1	2.08	0.54
27:LY:99:ILE:HD11	27:LY:104:VAL:CG1	2.38	0.54
29:La:19:HIS:CE1	29:La:25:HIS:CD2	2.96	0.54
31:Lc:10:SER:HA	31:Lc:13:SER:OG	2.08	0.54
31:Lc:26:LYS:N	31:Lc:98:ASP:HB3	2.21	0.54
34:Lf:9:ALA:HB3	34:Lf:101:ILE:HG22	1.88	0.54
46:Lz:42:ASP:CG	46:Lz:43:PRO:HD2	2.33	0.54
47:S2:50:A:C2	47:S2:51:U:H1'	2.42	0.54
47:S2:108:G:H2'	47:S2:109:U:O4'	2.08	0.54
47:S2:606:G:H2'	47:S2:606:G:N3	2.23	0.54
47:S2:839:C:N3	47:S2:841:G:N1	2.55	0.54
47:S2:964:A:H1'	47:S2:1054:G:O2'	2.08	0.54
47:S2:1310:U:P	80:Sf:131:PHE:H	2.31	0.54
47:S2:1472:C:H2'	47:S2:1473:G:C8	2.42	0.54
47:S2:1533:A:OP1	52:SF:164:ARG:NH1	2.36	0.54
47:S2:1644:C:H2'	47:S2:1645:C:C6	2.42	0.54
48:SA:111:GLN:OE1	69:SC:89:LYS:HE2	2.08	0.54
48:SA:200:ASP:HB2	59:SR:89:SER:HB2	1.90	0.54
49:SB:40:ASN:HB2	49:SB:75:GLN:HE21	1.72	0.54
50:SD:193:ASP:N	50:SD:194:PRO:HD2	2.23	0.54
50:SD:193:ASP:O	50:SD:202:LYS:HE2	2.08	0.54
53:SH:24:SER:HA	53:SH:27:LEU:CD1	2.33	0.54
53:SH:45:ILE:HA	53:SH:64:VAL:HG12	1.89	0.54
56:SL:55:TYR:CE1	56:SL:115:PRO:HG2	2.43	0.54
59:SR:106:LEU:HD12	59:SR:106:LEU:C	2.33	0.54
66:Sc:45:ASN:O	66:Sc:63:ARG:NH1	2.40	0.54
71:SJ:128:VAL:HG22	71:SJ:132:GLN:CD	2.32	0.54
76:SY:41:ARG:HE	76:SY:55:ILE:HG22	1.71	0.54
76:SY:55:ILE:HG13	76:SY:75:ILE:HG12	1.90	0.54
80:Sf:119:ARG:HD3	80:Sf:132:MET:SD	2.48	0.54
1:L5:253:G:N2	1:L5:254:G:N3	2.56	0.54
1:L5:648:G:C2	1:L5:649:A:H1'	2.44	0.54
1:L5:936:C:O2	15:LM:46:ARG:HG3	2.07	0.54
1:L5:971:U:H3'	1:L5:971:U:OP2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1342:A:H2'	1:L5:1343:A:O4'	2.08	0.54
1:L5:1370:G:N2	6:LC:239:LYS:HE2	2.22	0.54
1:L5:1534:A:H8	38:Lj:15:THR:HG1	1.53	0.54
1:L5:2370:A:C2	32:Ld:77:ILE:HD12	2.43	0.54
1:L5:2562:G:C1'	1:L5:2565:A:H62	2.21	0.54
1:L5:2737:C:N4	1:L5:2738:C:H41	2.05	0.54
1:L5:2900:U:H3	1:L5:3600:G:H1	1.54	0.54
1:L5:3655:C:H3'	1:L5:3655:C:H6	1.73	0.54
1:L5:3680:U:C2'	1:L5:3681:G:H5'	2.38	0.54
1:L5:3766:A:H61	47:S2:1706:G:N2	2.06	0.54
1:L5:3959:U:H2'	1:L5:3961:G:O6	2.07	0.54
1:L5:4605:A:H2'	1:L5:4606:G:O4'	2.08	0.54
1:L5:4654:C:H2'	1:L5:4655:A:C5'	2.35	0.54
1:L5:4891:G:H2'	1:L5:4892:A:H8	1.73	0.54
3:L8:68:G:H2'	3:L8:69:U:O4'	2.08	0.54
6:LC:324:ILE:O	6:LC:327:LYS:HB3	2.08	0.54
7:LD:178:LYS:HE3	7:LD:179:ARG:CZ	2.38	0.54
8:LE:111:LYS:HB3	45:Lr:87:ARG:NH1	2.23	0.54
8:LE:146:PRO:HA	8:LE:164:PHE:HD2	1.73	0.54
8:LE:287:VAL:CB	15:LM:105:THR:HA	2.38	0.54
14:LL:172:GLU:OE2	37:Li:3:LEU:HD11	2.08	0.54
20:LR:14:VAL:HG23	20:LR:15:LEU:N	2.23	0.54
21:LS:127:MET:HB2	22:LT:153:PRO:HG2	1.90	0.54
23:LU:23:LEU:O	23:LU:70:ILE:HD12	2.08	0.54
30:Lb:54:LEU:O	30:Lb:57:MET:HB3	2.08	0.54
33:Le:45:VAL:HG13	33:Le:46:ARG:N	2.22	0.54
38:Lj:73:ARG:HD2	38:Lj:78:PHE:CD1	2.42	0.54
47:S2:14:C:OP1	69:SC:190:SER:OG	2.24	0.54
47:S2:158:A:C2	47:S2:159:A:H1'	2.43	0.54
47:S2:539:C:OP1	47:S2:540:U:H5"	2.08	0.54
47:S2:591:U:H3'	47:S2:592:C:H5'	1.89	0.54
47:S2:646:G:C6	47:S2:647:U:C4	2.96	0.54
47:S2:829:C:H5"	51:SE:21:ASP:HB2	1.90	0.54
47:S2:879:C:C2'	47:S2:880:G:H21	2.20	0.54
47:S2:881:G:H5"	47:S2:882:U:OP2	2.07	0.54
47:S2:913:A:O2'	53:SH:120:ARG:NH2	2.41	0.54
47:S2:1154:U:OP1	47:S2:1155:U:O2'	2.22	0.54
47:S2:1408:U:H4'	58:SQ:71:ARG:NH2	2.18	0.54
47:S2:1627:C:C5'	61:ST:41:LYS:HD2	2.38	0.54
47:S2:1662:U:O4	47:S2:1663:A:N6	2.40	0.54
47:S2:1703:C:C2'	47:S2:1704:C:H5'	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1722:G:C2'	47:S2:1723:G:H8	2.17	0.54
48:SA:213:GLU:O	48:SA:216:ALA:HB3	2.08	0.54
49:SB:37:ALA:HA	49:SB:42:ARG:NH1	2.22	0.54
51:SE:108:ARG:O	51:SE:109:PHE:HB2	2.08	0.54
51:SE:180:LEU:CB	51:SE:194:VAL:HA	2.34	0.54
52:SF:162:ALA:HA	52:SF:165:ASN:HB2	1.90	0.54
54:SI:119:LEU:CD1	54:SI:153:LYS:HG2	2.35	0.54
56:SL:80:MET:HE2	56:SL:80:MET:N	2.23	0.54
60:SS:13:LEU:CG	60:SS:14:ARG:HG2	2.31	0.54
60:SS:33:ILE:HG22	60:SS:34:LYS:O	2.08	0.54
61:ST:35:ASP:OD1	61:ST:47:PRO:HD2	2.07	0.54
62:SU:19:ARG:HB3	62:SU:92:HIS:HB3	1.89	0.54
64:SX:53:GLU:HG3	64:SX:54:LYS:N	2.22	0.54
65:Sa:20:PRO:HA	65:Sa:31:PRO:HA	1.90	0.54
68:Sg:179:LEU:HG	68:Sg:180:ALA:N	2.22	0.54
68:Sg:194:TYR:HD2	68:Sg:212:LYS:HD2	1.72	0.54
71:SJ:32:ILE:HA	71:SJ:37:LEU:HB2	1.90	0.54
76:SY:69:THR:O	76:SY:70:THR:OG1	2.24	0.54
78:Sb:62:VAL:CG1	78:Sb:74:THR:HG21	2.36	0.54
1:L5:423:G:N2	18:LP:118:GLN:HE22	1.98	0.53
1:L5:507:G:H5'	1:L5:508:G:OP2	2.09	0.53
1:L5:1190:C:H2'	1:L5:1191:C:C6	2.43	0.53
1:L5:1391:A:O2'	29:La:57:GLY:HA2	2.09	0.53
1:L5:1855:G:H2'	1:L5:1856:C:H6	1.73	0.53
1:L5:2095:A:H4'	1:L5:2096:G:OP1	2.06	0.53
1:L5:3810:C:H4'	1:L5:3811:G:O5'	2.08	0.53
1:L5:4128:A:C2'	1:L5:4129:G:H5'	2.37	0.53
1:L5:4252:C:H2'	1:L5:4253:A:C8	2.43	0.53
1:L5:4991:U:H4'	1:L5:4992:G:OP1	2.09	0.53
2:L7:13:A:H3'	2:L7:14:C:C5	2.43	0.53
2:L7:32:A:C6	2:L7:41:G:H1'	2.43	0.53
2:L7:74:A:H5'	2:L7:76:U:H1'	1.90	0.53
6:LC:184:TYR:OH	6:LC:225:PRO:HG2	2.07	0.53
6:LC:253:THR:HG22	6:LC:254:GLU:N	2.22	0.53
9:LF:83:VAL:HG13	21:LS:62:VAL:HG13	1.89	0.53
9:LF:94:ARG:HB2	9:LF:114:LEU:CD2	2.21	0.53
10:LG:152:ALA:CB	10:LG:179:VAL:HG21	2.37	0.53
11:LH:173:ARG:HG2	41:Lm:127:VAL:HB	1.90	0.53
12:LI:97:ILE:HD11	12:LI:126:VAL:HG11	1.90	0.53
13:LJ:48:PRO:HB3	13:LJ:72:CYS:CB	2.11	0.53
14:LL:108:GLU:OE2	37:Li:18:THR:HG22	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:LN:64:ILE:O	16:LN:64:ILE:HG13	2.08	0.53
17:LO:126:VAL:HG22	17:LO:126:VAL:O	2.08	0.53
17:LO:163:LYS:O	17:LO:166:ILE:HG22	2.08	0.53
18:LP:116:HIS:HB3	18:LP:149:ILE:HG12	1.89	0.53
21:LS:137:CYS:HB2	21:LS:143:LYS:NZ	2.23	0.53
33:Le:38:PRO:HB3	33:Le:43:ASN:ND2	2.22	0.53
45:Lr:95:HIS:HD2	45:Lr:98:ARG:HH21	1.54	0.53
47:S2:96:C:H2'	47:S2:97:U:H6	1.73	0.53
47:S2:194:C:H2'	47:S2:195:C:H5'	1.88	0.53
47:S2:213:G:H4'	47:S2:214:U:OP1	2.07	0.53
47:S2:909:G:H2'	47:S2:910:G:H8	1.70	0.53
47:S2:1248:U:H2'	47:S2:1249:C:C6	2.44	0.53
47:S2:1395:C:N4	47:S2:1396:A:N1	2.56	0.53
47:S2:1548:G:OP2	62:SU:62:ARG:NH2	2.42	0.53
47:S2:1756:C:H2'	47:S2:1757:G:O4'	2.08	0.53
49:SB:137:LEU:HD23	49:SB:215:VAL:CG1	2.38	0.53
49:SB:153:THR:OG1	49:SB:154:SER:N	2.37	0.53
50:SD:62:LYS:CB	55:SK:95:ARG:HH21	2.21	0.53
53:SH:51:ILE:CG1	53:SH:179:LYS:HZ2	2.21	0.53
53:SH:70:LYS:HA	53:SH:73:GLN:CG	2.38	0.53
60:SS:80:PRO:HD2	60:SS:83:PHE:CE2	2.43	0.53
64:SX:72:VAL:CG2	64:SX:81:ILE:HG13	2.38	0.53
68:Sg:7:LEU:HA	68:Sg:309:VAL:O	2.08	0.53
68:Sg:286:CYS:SG	68:Sg:287:THR:N	2.81	0.53
69:SC:183:LYS:HG2	75:SW:95:PRO:O	2.08	0.53
72:SM:25:ALA:HB1	72:SM:33:ARG:NH1	2.23	0.53
73:SN:2:GLY:HA3	73:SN:9:LYS:HA	1.90	0.53
75:SW:30:CYS:HB2	75:SW:61:ILE:HD11	1.89	0.53
77:SZ:65:TYR:CE1	77:SZ:68:ILE:HA	2.43	0.53
77:SZ:97:ILE:HD12	77:SZ:98:LYS:N	2.23	0.53
1:L5:199:G:N2	1:L5:201:C:O2	2.41	0.53
1:L5:478:G:O2'	1:L5:479:G:H5'	2.08	0.53
1:L5:1246:G:N3	1:L5:1265:G:N2	2.57	0.53
1:L5:1428:U:H5"	19:LQ:42:THR:HG23	1.86	0.53
1:L5:1524:A:H5"	1:L5:1525:A:OP2	2.07	0.53
1:L5:1674:C:H4'	1:L5:4376:A:C8	2.44	0.53
1:L5:1805:A:N6	30:Lb:26:SER:O	2.42	0.53
1:L5:2402:G:O2'	35:Lg:10:ARG:O	2.25	0.53
1:L5:2498:C:H2'	1:L5:2499:C:C5'	2.37	0.53
1:L5:3595:U:H5"	1:L5:3597:G:OP2	2.08	0.53
1:L5:3599:A:H2'	1:L5:3600:G:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3830:A:C2	1:L5:3831:U:H1'	2.43	0.53
1:L5:4115:G:C2'	1:L5:4116:C:H5'	2.38	0.53
1:L5:4428:A:C2'	1:L5:4429:C:H5'	2.39	0.53
1:L5:4465:U:C4	1:L5:4488:A:C5	2.96	0.53
1:L5:4607:A:N6	1:L5:4608:G:N3	2.55	0.53
1:L5:4775:C:H3'	1:L5:4775:C:C6	2.43	0.53
1:L5:5059:C:H3'	1:L5:5060:A:H5"	1.89	0.53
2:L7:42:A:H1'	13:LJ:75:ARG:CZ	2.38	0.53
4:LA:116:LEU:HA	4:LA:164:ALA:HB2	1.90	0.53
5:LB:94:GLU:HG2	5:LB:158:GLN:CD	2.33	0.53
6:LC:285:ILE:HG13	19:LQ:125:GLN:NE2	2.23	0.53
7:LD:122:GLN:HB2	7:LD:168:ASP:HB3	1.91	0.53
8:LE:183:ARG:C	8:LE:185:PRO:HD3	2.32	0.53
9:LF:87:PRO:HG2	9:LF:144:TYR:CE2	2.43	0.53
10:LG:73:ARG:HH11	10:LG:242:LEU:HA	1.73	0.53
11:LH:4:ILE:O	11:LH:60:TRP:HA	2.09	0.53
13:LJ:89:VAL:HG21	13:LJ:109:ILE:HD11	1.90	0.53
20:LR:72:LYS:HG2	20:LR:74:ARG:NH2	2.24	0.53
23:LU:105:ASN:HB2	23:LU:111:GLU:HB3	1.90	0.53
24:LV:20:LEU:HD23	24:LV:26:ILE:HD11	1.89	0.53
25:LW:3:VAL:HG11	25:LW:12:LYS:CD	2.26	0.53
31:Lc:59:GLU:HG2	31:Lc:63:TYR:CE1	2.41	0.53
37:Li:89:GLU:O	37:Li:92:ASN:HB2	2.06	0.53
37:Li:102:ALA:HB2	46:Lz:9:THR:HG23	1.90	0.53
38:Lj:44:LYS:HD3	38:Lj:57:ASN:HD22	1.71	0.53
39:Lk:61:PRO:HG2	39:Lk:62:PRO:HD3	1.90	0.53
47:S2:78:C:OP1	70:SG:173:ALA:HB1	2.08	0.53
47:S2:163:U:OP2	70:SG:85:ARG:HG2	2.08	0.53
47:S2:333:G:N2	47:S2:334:C:H1'	2.23	0.53
47:S2:647:U:H2'	47:S2:648:A:C8	2.41	0.53
47:S2:904:A:H8	47:S2:905:C:H1'	1.74	0.53
47:S2:1304:U:O2'	80:Sf:93:HIS:NE2	2.26	0.53
47:S2:1522:A:H5"	60:SS:145:THR:OG1	2.08	0.53
47:S2:1562:C:H2'	47:S2:1563:G:C5'	2.38	0.53
47:S2:1751:C:H41	47:S2:1781:A:H2	1.56	0.53
47:S2:1792:G:N2	47:S2:1793:A:N3	2.56	0.53
50:SD:119:CYS:HB3	50:SD:152:PHE:HD2	1.72	0.53
51:SE:71:LYS:HB2	51:SE:75:LYS:O	2.08	0.53
53:SH:79:LEU:CD1	53:SH:82:GLU:HG3	2.29	0.53
53:SH:93:VAL:HG22	53:SH:94:PHE:N	2.23	0.53
55:SK:16:PHE:HE1	55:SK:80:ARG:HB2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:SS:16:LEU:HD21	60:SS:100:ALA:HB2	1.89	0.53
62:SU:78:ASP:OD1	62:SU:79:ARG:N	2.41	0.53
64:SX:68:LYS:CG	64:SX:91:LEU:HD22	2.38	0.53
67:Sd:36:LEU:HD11	67:Sd:38:MET:HG3	1.90	0.53
70:SG:44:GLU:O	70:SG:117:GLY:HA3	2.08	0.53
72:SM:19:GLN:CD	72:SM:22:LEU:HD22	2.33	0.53
72:SM:104:VAL:HG22	72:SM:105:GLY:H	1.73	0.53
76:SY:87:PRO:HG2	76:SY:90:ARG:HG3	1.89	0.53
1:L5:173:C:H1'	36:Lh:112:ARG:HA	1.90	0.53
1:L5:679:C:H2'	1:L5:680:G:H5'	1.89	0.53
1:L5:1236:C:H2'	1:L5:1238:A:C8	2.43	0.53
1:L5:1532:G:P	38:Lj:16:HIS:HE2	2.31	0.53
1:L5:1584:G:C2'	1:L5:1585:C:H5'	2.39	0.53
1:L5:1597:G:N3	1:L5:1599:A:N6	2.56	0.53
1:L5:1676:C:O2'	1:L5:4378:A:N1	2.41	0.53
1:L5:2104:G:H2'	1:L5:2105:A:O4'	2.08	0.53
1:L5:2389:A:H2'	1:L5:2390:G:O4'	2.08	0.53
1:L5:2559:G:O6	1:L5:2568:C:N4	2.42	0.53
1:L5:2725:A:H3'	1:L5:2726:G:C5'	2.38	0.53
1:L5:2817:C:C2'	1:L5:2818:C:H5'	2.38	0.53
1:L5:3634:G:H2'	1:L5:3635:A:C4'	2.37	0.53
1:L5:3642:A:O2'	38:Lj:3:LYS:N	2.42	0.53
1:L5:4478:G:H4'	11:LH:170:LYS:HZ2	1.73	0.53
3:L8:127:U:C6	3:L8:127:U:H3'	2.43	0.53
5:LB:261:ARG:NE	17:LO:64:THR:OG1	2.38	0.53
7:LD:112:ARG:HG2	7:LD:113:PHE:CD1	2.43	0.53
8:LE:57:TYR:HD2	8:LE:65:ARG:HH11	1.56	0.53
8:LE:62:MET:HE3	8:LE:66:LYS:HE2	1.90	0.53
8:LE:206:VAL:HA	8:LE:256:GLN:NE2	2.22	0.53
11:LH:46:SER:O	11:LH:55:LEU:HD12	2.08	0.53
12:LI:53:VAL:O	12:LI:163:GLN:HB3	2.08	0.53
13:LJ:83:LEU:HD22	13:LJ:170:TYR:OH	2.08	0.53
20:LR:62:ARG:CZ	20:LR:62:ARG:HB2	2.38	0.53
25:LW:73:ARG:HD3	47:S2:1781:A:C4	2.43	0.53
25:LW:82:ILE:HG22	25:LW:84:GLY:H	1.73	0.53
25:LW:93:LYS:HD3	70:SG:144:LEU:O	2.08	0.53
46:Lz:204:LEU:H	46:Lz:215:ARG:HA	1.73	0.53
47:S2:499:G:N2	47:S2:501:C:O2'	2.42	0.53
47:S2:752:G:OP1	47:S2:793:G:H1'	2.08	0.53
47:S2:1325:G:H1	47:S2:1503:C:N4	2.06	0.53
47:S2:1445:U:H1'	47:S2:1580:A:N6	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:SB:189:ILE:HB	49:SB:190:PRO:HD3	1.89	0.53
50:SD:217:ILE:HG22	50:SD:218:LEU:CD1	2.38	0.53
51:SE:208:VAL:HG22	51:SE:209:HIS:O	2.08	0.53
52:SF:159:ARG:HG3	52:SF:160:GLU:H	1.74	0.53
52:SF:171:GLU:CD	52:SF:175:ASP:HB3	2.32	0.53
55:SK:23:ALA:HB2	55:SK:69:TRP:HZ3	1.72	0.53
59:SR:17:ILE:CG2	59:SR:21:TYR:HB2	2.33	0.53
61:ST:38:LYS:O	61:ST:39:LEU:HD12	2.08	0.53
63:SV:12:TYR:CD1	63:SV:14:PRO:HD3	2.43	0.53
64:SX:105:PHE:CD2	64:SX:112:VAL:HB	2.43	0.53
66:Sc:44:ARG:HH22	66:Sc:63:ARG:H	1.55	0.53
68:Sg:220:ASP:H	68:Sg:227:LEU:HD11	1.73	0.53
72:SM:49:LEU:HD21	72:SM:128:PHE:HB2	1.89	0.53
75:SW:92:ASN:C	75:SW:93:LEU:HD12	2.33	0.53
1:L5:365:U:O2'	1:L5:366:A:H5'	2.09	0.53
1:L5:709:C:O2'	1:L5:710:G:H5'	2.07	0.53
1:L5:987:C:H2'	1:L5:988:C:C6	2.44	0.53
1:L5:1263:A:C2	1:L5:1264:C:H1'	2.43	0.53
1:L5:1929:A:H1'	1:L5:1932:A:H1'	1.89	0.53
1:L5:2067:C:H4'	34:Lf:78:HIS:CE1	2.42	0.53
1:L5:2529:A:N6	1:L5:2532:C:O2	2.41	0.53
1:L5:2698:G:H2'	1:L5:2699:C:O4'	2.08	0.53
1:L5:2786:C:H5"	1:L5:2787:A:O5'	2.07	0.53
1:L5:2907:G:H2'	1:L5:2907:G:N3	2.22	0.53
1:L5:3961:G:H3'	1:L5:3962:A:H4'	1.89	0.53
1:L5:4208:U:OP1	22:LT:6:GLY:HA3	2.08	0.53
1:L5:4648:A:OP1	20:LR:62:ARG:NH2	2.42	0.53
1:L5:4706:G:H5"	1:L5:4707:A:OP1	2.08	0.53
1:L5:4738:C:N4	1:L5:4962:C:H42	2.05	0.53
1:L5:4757:C:H1'	17:LO:114:LYS:O	2.08	0.53
1:L5:4915:G:H21	1:L5:4916:G:H1'	1.73	0.53
1:L5:5040:U:O2'	1:L5:5041:G:OP2	2.26	0.53
2:L7:47:G:N2	7:LD:222:GLN:OE1	2.32	0.53
2:L7:97:G:OP2	21:LS:56:LYS:NZ	2.29	0.53
5:LB:17:LEU:HD21	5:LB:264:PHE:HD2	1.72	0.53
5:LB:41:VAL:HG21	5:LB:196:TRP:CD1	2.43	0.53
5:LB:49:TYR:H	5:LB:79:VAL:HG13	1.73	0.53
7:LD:285:ALA:HA	7:LD:288:LEU:HG	1.91	0.53
9:LF:26:ALA:CA	9:LF:29:LYS:HG2	2.26	0.53
9:LF:184:ILE:CD1	9:LF:193:GLU:HG3	2.37	0.53
11:LH:118:LEU:HD11	11:LH:177:ASP:OD2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:LI:95:HIS:HB3	12:LI:126:VAL:O	2.09	0.53
15:LM:17:PHE:CA	15:LM:21:ALA:HB2	2.39	0.53
15:LM:121:ARG:HA	15:LM:124:LYS:HB3	1.90	0.53
27:LY:56:GLN:HB2	27:LY:67:ILE:HD12	1.90	0.53
38:Lj:22:CYS:HB3	38:Lj:37:CYS:HB3	1.87	0.53
40:Ll:45:ARG:HA	40:Ll:48:LYS:NZ	2.23	0.53
46:Lz:33:GLU:H	46:Lz:206:ILE:HD11	1.74	0.53
47:S2:72:C:H4'	47:S2:73:C:C5	2.44	0.53
47:S2:143:U:O4	70:SG:188:LYS:NZ	2.37	0.53
47:S2:386:C:O2'	54:SI:5:ARG:HG3	2.08	0.53
47:S2:657:U:O2'	47:S2:658:U:OP2	2.19	0.53
47:S2:665:G:H5"	47:S2:666:U:OP1	2.07	0.53
47:S2:1283:C:H5'	47:S2:1284:A:OP2	2.09	0.53
47:S2:1597:C:O2'	47:S2:1598:G:O5'	2.25	0.53
47:S2:1630:A:H5"	60:SS:37:GLY:N	2.23	0.53
48:SA:24:HIS:HB3	48:SA:51:LEU:HD11	1.89	0.53
48:SA:140:VAL:HG22	48:SA:140:VAL:O	2.07	0.53
49:SB:136:ARG:NE	49:SB:218:LEU:HD21	2.24	0.53
51:SE:139:LEU:HD22	51:SE:154:ILE:HD11	1.91	0.53
51:SE:208:VAL:HG11	51:SE:225:ILE:CG1	2.39	0.53
51:SE:208:VAL:HG11	51:SE:225:ILE:HG13	1.89	0.53
53:SH:122:LEU:C	53:SH:122:LEU:HD12	2.33	0.53
54:SI:65:PHE:HD2	54:SI:104:ILE:HG21	1.73	0.53
60:SS:36:VAL:HG22	60:SS:41:ALA:HB2	1.91	0.53
60:SS:62:ASP:HA	60:SS:65:GLU:CG	2.28	0.53
60:SS:117:ILE:HG23	60:SS:117:ILE:O	2.08	0.53
65:Sa:46:GLU:OE1	65:Sa:48:ALA:N	2.41	0.53
65:Sa:71:LEU:HD13	65:Sa:73:TYR:OH	2.09	0.53
67:Sd:20:SER:HB3	67:Sd:27:ARG:NH1	2.22	0.53
68:Sg:120:ILE:CB	68:Sg:132:TRP:HB2	2.33	0.53
68:Sg:199:THR:HG21	68:Sg:240:CYS:CA	2.29	0.53
70:SG:103:ASP:OD1	70:SG:104:ALA:N	2.39	0.53
70:SG:209:TYR:CZ	70:SG:213:LEU:HD11	2.43	0.53
76:SY:40:ILE:HD13	76:SY:60:PHE:HZ	1.74	0.53
1:L5:153:G:N2	1:L5:154:G:N3	2.56	0.53
1:L5:182:G:C8	1:L5:183:C:H1'	2.43	0.53
1:L5:280:G:C4	16:LN:14:LYS:HD2	2.44	0.53
1:L5:747:A:H1'	1:L5:748:G:O5'	2.09	0.53
1:L5:1479:G:N2	1:L5:1480:C:O2	2.41	0.53
1:L5:1797:G:O2'	1:L5:1798:G:H5'	2.09	0.53
1:L5:1903:G:P	34:Lf:87:LYS:HZ1	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1941:A:H2	1:L5:4433:G:O2'	1.92	0.53
1:L5:2053:C:O5'	17:LO:17:GLY:HA3	2.08	0.53
1:L5:2500:U:H2'	1:L5:2501:C:O4'	2.09	0.53
1:L5:2685:C:N4	1:L5:2686:G:N7	2.55	0.53
1:L5:3747:A:OP1	4:LA:245:ARG:N	2.41	0.53
1:L5:3753:G:C2'	1:L5:3754:G:H5'	2.38	0.53
1:L5:3826:C:O2'	1:L5:3827:G:H5'	2.08	0.53
1:L5:4181:U:H2'	1:L5:4182:G:H5'	1.89	0.53
1:L5:4744:A:H2'	1:L5:4745:G:C8	2.43	0.53
1:L5:4897:G:H22	1:L5:4924:C:H1'	1.72	0.53
3:L8:3:A:H3'	3:L8:4:C:C6	2.44	0.53
5:LB:153:MET:HG3	5:LB:157:CYS:SG	2.48	0.53
6:LC:11:TYR:CD1	6:LC:17:SER:HB3	2.44	0.53
6:LC:318:PRO:O	6:LC:320:LYS:N	2.42	0.53
7:LD:37:VAL:HG12	7:LD:67:ALA:HB2	1.88	0.53
8:LE:246:ARG:O	8:LE:249:ASP:N	2.42	0.53
9:LF:26:ALA:HA	9:LF:29:LYS:CD	2.38	0.53
9:LF:241:ASN:HA	9:LF:244:ILE:CG2	2.38	0.53
10:LG:50:ASP:OD1	26:LX:40:ILE:HG22	2.08	0.53
10:LG:194:VAL:O	10:LG:195:HIS:HB2	2.09	0.53
11:LH:59:LYS:HG3	11:LH:60:TRP:O	2.08	0.53
12:LI:150:GLU:HA	12:LI:153:ARG:CD	2.39	0.53
12:LI:150:GLU:HA	12:LI:153:ARG:HD3	1.90	0.53
13:LJ:85:LYS:HB3	13:LJ:115:LEU:CD2	2.39	0.53
13:LJ:89:VAL:HG11	13:LJ:109:ILE:CD1	2.38	0.53
13:LJ:95:ARG:HH11	13:LJ:177:GLY:CA	2.22	0.53
14:LL:90:VAL:HG12	14:LL:94:ILE:HD12	1.91	0.53
15:LM:39:ASP:CB	15:LM:47:ARG:HG2	2.37	0.53
18:LP:49:LYS:O	18:LP:52:THR:HG22	2.09	0.53
19:LQ:101:CYS:HB3	19:LQ:121:LEU:CB	2.39	0.53
21:LS:15:ARG:HD3	21:LS:27:LEU:CD2	2.33	0.53
24:LV:83:ARG:O	24:LV:101:ASN:HA	2.08	0.53
27:LY:60:GLY:O	27:LY:63:LYS:HG3	2.07	0.53
39:Lk:6:GLU:OE1	39:Lk:6:GLU:N	2.32	0.53
46:Lz:100:VAL:CG2	46:Lz:102:LYS:HG2	2.39	0.53
46:Lz:172:VAL:O	46:Lz:172:VAL:HG13	2.09	0.53
47:S2:525:A:C5'	79:Se:28:LYS:HE3	2.38	0.53
47:S2:1223:A:OP1	52:SF:79:HIS:N	2.42	0.53
47:S2:1516:G:N3	47:S2:1517:G:H1'	2.23	0.53
47:S2:1739:C:C1'	47:S2:1796:G:H22	2.19	0.53
49:SB:90:ASP:CG	49:SB:228:LEU:HD23	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:7:LYS:HE2	62:SU:84:ILE:HD11	1.90	0.53
51:SE:153:LEU:O	51:SE:155:LYS:HG2	2.09	0.53
55:SK:53:LYS:HG2	55:SK:60:GLU:OE2	2.08	0.53
56:SL:77:VAL:HG13	56:SL:80:MET:HE3	1.89	0.53
57:SP:80:LEU:C	57:SP:80:LEU:HD12	2.33	0.53
60:SS:43:VAL:HG11	60:SS:79:ILE:HG12	1.90	0.53
68:Sg:155:ARG:O	68:Sg:166:VAL:HG22	2.09	0.53
71:SJ:73:GLU:O	71:SJ:77:LEU:N	2.39	0.53
71:SJ:108:ARG:HH12	71:SJ:151:LEU:HA	1.73	0.53
1:L5:161:G:H1	1:L5:274:C:H42	1.55	0.53
1:L5:324:A:C2'	1:L5:325:U:H5'	2.38	0.53
1:L5:477:C:H3'	1:L5:478:G:C8	2.44	0.53
1:L5:726:G:O2'	1:L5:727:C:H5'	2.09	0.53
1:L5:943:A:C2	1:L5:946:C:H5	2.26	0.53
1:L5:1365:C:O2'	1:L5:1366:G:O5'	2.26	0.53
1:L5:1463:C:O2'	1:L5:1464:C:H5'	2.08	0.53
1:L5:1506:G:O6	1:L5:1507:C:N4	2.41	0.53
1:L5:2081:C:C2'	1:L5:2082:G:H5'	2.39	0.53
1:L5:2552:G:H3'	1:L5:2553:A:H2'	1.91	0.53
1:L5:3752:C:C5	1:L5:3777:G:C6	2.96	0.53
1:L5:4165:C:O5'	1:L5:4165:C:H6	1.91	0.53
1:L5:4179:G:O2'	1:L5:4180:G:H5'	2.08	0.53
1:L5:4536:C:O2'	1:L5:4537:C:H5'	2.09	0.53
1:L5:4633:G:O2'	1:L5:4635:A:OP2	2.24	0.53
1:L5:4740:G:H1	1:L5:4960:G:H1'	1.71	0.53
1:L5:4937:C:OP1	8:LE:183:ARG:HG2	2.08	0.53
4:LA:118:GLU:OE2	4:LA:126:LEU:HD11	2.09	0.53
5:LB:59:GLU:HB2	5:LB:366:LYS:CE	2.38	0.53
5:LB:300:LYS:O	5:LB:304:SER:OG	2.23	0.53
6:LC:121:ARG:O	6:LC:124:ILE:HB	2.09	0.53
7:LD:33:ARG:NH2	22:LT:27:LEU:HD23	2.23	0.53
7:LD:83:LEU:O	7:LD:86:TYR:N	2.41	0.53
11:LH:69:THR:O	11:LH:72:THR:OG1	2.25	0.53
19:LQ:67:ILE:CD1	19:LQ:95:VAL:HG13	2.38	0.53
20:LR:98:ARG:HA	20:LR:101:ILE:CD1	2.33	0.53
21:LS:143:LYS:C	21:LS:146:HIS:HD1	2.17	0.53
24:LV:130:PRO:O	24:LV:133:ALA:HB3	2.08	0.53
25:LW:80:ARG:CG	70:SG:131:ARG:HH11	2.13	0.53
29:La:131:ARG:O	29:La:134:GLU:HG2	2.09	0.53
30:Lb:43:MET:HE3	30:Lb:47:LYS:HD2	1.90	0.53
37:Li:58:MET:HB3	37:Li:94:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Lj:58:THR:HG22	38:Lj:59:THR:N	2.23	0.53
43:Lo:98:LYS:O	43:Lo:98:LYS:HG3	2.08	0.53
43:Lo:104:ILE:CG2	43:Lo:105:GLN:CA	2.87	0.53
45:Lr:71:ARG:HG3	45:Lr:72:LYS:HG3	1.91	0.53
46:Lz:23:ARG:CA	46:Lz:212:LYS:HZ1	2.22	0.53
46:Lz:56:LYS:HE2	46:Lz:174:MET:HE1	1.91	0.53
46:Lz:112:ALA:HB1	46:Lz:117:ILE:HA	1.90	0.53
47:S2:107:A:N6	47:S2:108:G:O6	2.41	0.53
47:S2:571:U:O2'	76:SY:60:PHE:O	2.22	0.53
47:S2:587:A:H4'	47:S2:588:G:OP1	2.09	0.53
47:S2:958:G:H22	74:SO:68:GLU:CD	2.16	0.53
47:S2:1049:A:C5	47:S2:1070:A:C2	2.96	0.53
47:S2:1357:A:N7	47:S2:1358:U:H1'	2.24	0.53
47:S2:1453:C:H1'	47:S2:1455:A:H5"	1.90	0.53
47:S2:1497:G:N2	55:SK:62:PHE:HB3	2.23	0.53
47:S2:1732:G:O6	47:S2:1801:A:N6	2.41	0.53
47:S2:1738:C:N4	84:S2:2001:HOH:O	2.41	0.53
51:SE:123:LEU:HD23	51:SE:228:ILE:HG22	1.90	0.53
52:SF:30:ILE:H	52:SF:42:LYS:NZ	2.06	0.53
52:SF:188:TYR:O	52:SF:192:LYS:HG2	2.09	0.53
54:SI:155:ASN:OD1	54:SI:156:ALA:N	2.42	0.53
56:SL:5:GLN:HG3	56:SL:10:TYR:CE1	2.44	0.53
56:SL:68:ILE:HG21	56:SL:143:LEU:HD21	1.90	0.53
57:SP:64:LYS:HD2	57:SP:73:PRO:HG3	1.91	0.53
58:SQ:31:LEU:HD23	58:SQ:67:ASP:CG	2.34	0.53
62:SU:21:ARG:HA	62:SU:89:ILE:O	2.08	0.53
63:SV:2:GLN:HA	63:SV:7:GLU:O	2.08	0.53
68:Sg:193:GLY:HA3	68:Sg:212:LYS:N	2.24	0.53
70:SG:32:MET:HE3	70:SG:53:SER:O	2.09	0.53
1:L5:198:A:P	27:LY:126:ARG:HH22	2.31	0.53
1:L5:472:C:O2'	1:L5:473:C:O5'	2.22	0.53
1:L5:687:U:H5'	8:LE:94:LYS:HZ1	1.74	0.53
1:L5:931:C:H1'	1:L5:932:A:P	2.49	0.53
1:L5:1084:C:H2'	1:L5:1085:C:O4'	2.09	0.53
1:L5:1252:C:C1'	1:L5:1258:G:H22	2.22	0.53
1:L5:1699:A:N6	1:L5:2096:G:N3	2.56	0.53
1:L5:1910:G:H2'	1:L5:1911:C:C6	2.44	0.53
1:L5:2251:G:H1	45:Lr:99:LYS:NZ	2.06	0.53
1:L5:2503:G:H1'	1:L5:2505:C:N3	2.24	0.53
1:L5:2563:C:H5	1:L5:2564:G:C4	2.27	0.53
1:L5:2600:A:H4'	1:L5:2601:A:OP1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2781:G:O2'	40:Ll:3:SER:O	2.27	0.53
1:L5:2819:U:O2	1:L5:2819:U:H2'	2.06	0.53
1:L5:2853:C:C2'	1:L5:2854:G:H5'	2.38	0.53
1:L5:3758:U:H2'	1:L5:3758:U:O2	2.09	0.53
1:L5:3795:A:O2'	47:S2:1719:A:N1	2.33	0.53
1:L5:3859:G:O2'	1:L5:3860:A:O5'	2.19	0.53
1:L5:3889:G:H4'	1:L5:3890:A:OP1	2.09	0.53
1:L5:4486:C:C2'	1:L5:4487:A:H5'	2.37	0.53
1:L5:4946:U:H2'	1:L5:4947:U:C5'	2.39	0.53
1:L5:5043:A:N6	1:L5:5044:A:N1	2.57	0.53
3:L8:83:C:O2	3:L8:87:G:N2	2.38	0.53
6:LC:108:TRP:HB2	16:LN:200:LEU:HD13	1.91	0.53
6:LC:361:LEU:HD12	6:LC:364:LYS:HD2	1.90	0.53
8:LE:50:LEU:HD12	8:LE:51:VAL:CG2	2.34	0.53
9:LF:45:ALA:O	9:LF:49:LEU:N	2.41	0.53
10:LG:207:VAL:HG11	10:LG:215:LEU:CD2	2.38	0.53
10:LG:225:ASN:C	10:LG:229:ARG:HD3	2.34	0.53
12:LI:31:ILE:HG21	12:LI:93:PRO:HG3	1.90	0.53
13:LJ:10:ASN:O	13:LJ:14:GLU:HG2	2.09	0.53
16:LN:47:LYS:HE2	16:LN:51:LEU:HD21	1.91	0.53
24:LV:42:VAL:HG13	24:LV:45:ILE:CG1	2.38	0.53
26:LX:78:LYS:CD	26:LX:99:ILE:HG22	2.30	0.53
27:LY:74:TYR:HB3	27:LY:79:VAL:HG12	1.91	0.53
35:Lg:22:LEU:HD12	35:Lg:22:LEU:O	2.09	0.53
38:Lj:40:PRO:HD2	38:Lj:41:ALA:H	1.74	0.53
46:Lz:65:VAL:HG12	46:Lz:65:VAL:O	2.08	0.53
47:S2:24:C:H4'	47:S2:415:A:H4'	1.91	0.53
47:S2:92:A:H2'	47:S2:446:G:H21	1.72	0.53
47:S2:223:C:O2'	47:S2:224:A:H5'	2.09	0.53
47:S2:442:C:H1'	70:SG:92:ARG:HH12	1.73	0.53
47:S2:537:C:H5'	47:S2:538:U:C5	2.44	0.53
47:S2:828:G:O2'	47:S2:829:C:H5'	2.08	0.53
47:S2:919:A:OP2	73:SN:64:ARG:NH1	2.42	0.53
47:S2:1309:C:H5	72:SM:39:ALA:HB2	1.71	0.53
47:S2:1452:A:N6	47:S2:1474:A:N3	2.56	0.53
47:S2:1576:G:O2'	47:S2:1577:G:H5'	2.09	0.53
49:SB:49:VAL:HG21	49:SB:58:ALA:HB1	1.90	0.53
50:SD:73:VAL:CG1	50:SD:84:VAL:HG21	2.38	0.53
50:SD:183:GLY:O	50:SD:184:ILE:HD13	2.09	0.53
51:SE:48:LEU:CD2	51:SE:61:VAL:HG13	2.39	0.53
53:SH:5:SER:O	53:SH:7:LYS:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:SI:123:ARG:C	54:SI:167:GLN:HE22	2.17	0.53
54:SI:175:ILE:HG23	54:SI:185:ALA:O	2.09	0.53
62:SU:66:ARG:O	62:SU:67:LYS:HB3	2.07	0.53
63:SV:22:ARG:HD2	63:SV:56:CYS:SG	2.49	0.53
65:Sa:89:ARG:HA	65:Sa:92:ARG:HH12	1.69	0.53
68:Sg:83:TRP:O	68:Sg:108:VAL:HG12	2.09	0.53
68:Sg:237:ASN:N	68:Sg:252:THR:HG22	2.18	0.53
70:SG:6:SER:HA	70:SG:13:GLN:OE1	2.08	0.53
72:SM:85:LEU:HD11	72:SM:109:VAL:HG13	1.89	0.53
76:SY:129:LYS:HA	76:SY:132:LYS:HG3	1.90	0.53
1:L5:12:A:H5”	1:L5:13:U:P	2.49	0.53
1:L5:1077:C:N3	1:L5:1233:G:N1	2.44	0.53
1:L5:1259:G:C2’	1:L5:1260:G:H5’	2.32	0.53
1:L5:1458:C:H2’	1:L5:1459:A:O4’	2.09	0.53
1:L5:1617:G:H5’	1:L5:2802:C:H5’	1.91	0.53
1:L5:1862:U:H2’	1:L5:1863:U:H6	1.74	0.53
1:L5:1925:G:O3’	21:LS:116:ARG:NH2	2.41	0.53
1:L5:2022:C:H3’	1:L5:2023:C:C5’	2.38	0.53
1:L5:2272:C:O2’	1:L5:2273:G:H5’	2.09	0.53
1:L5:2487:G:O6	1:L5:2492:C:N4	2.40	0.53
1:L5:3731:C:C2’	1:L5:3732:A:H5’	2.39	0.53
1:L5:4165:C:C2’	1:L5:4166:G:H5’	2.39	0.53
1:L5:4433:G:O2’	1:L5:4434:C:H5’	2.09	0.53
2:L7:75:G:OP1	2:L7:75:G:H4’	2.08	0.53
3:L8:103:A:OP2	3:L8:104:A:H5’	2.08	0.53
5:LB:49:TYR:OH	5:LB:166:THR:HG21	2.08	0.53
5:LB:202:GLU:O	5:LB:202:GLU:HG3	2.08	0.53
6:LC:133:LEU:HD23	45:Lr:6:GLN:NE2	2.14	0.53
7:LD:206:ASP:O	7:LD:210:TYR:HB2	2.09	0.53
8:LE:66:LYS:HD3	8:LE:68:MET:HE2	1.90	0.53
8:LE:205:ASN:HD21	8:LE:260:LYS:CE	2.17	0.53
9:LF:166:ARG:HD2	9:LF:209:TRP:NE1	2.24	0.53
10:LG:29:ASN:OD1	10:LG:30:PRO:HD2	2.09	0.53
10:LG:155:VAL:HG12	10:LG:156:VAL:N	2.22	0.53
10:LG:207:VAL:HG23	10:LG:212:LYS:CB	2.39	0.53
14:LL:146:LEU:HD23	36:Lh:122:LYS:CD	2.38	0.53
16:LN:183:THR:HA	16:LN:187:SER:O	2.09	0.53
27:LY:56:GLN:CG	27:LY:67:ILE:CD1	2.86	0.53
36:Lh:46:LYS:O	36:Lh:50:VAL:N	2.28	0.53
38:Lj:21:ARG:HH21	38:Lj:39:TYR:HB2	1.73	0.53
46:Lz:33:GLU:H	46:Lz:206:ILE:CD1	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:23:G:O2'	47:S2:24:C:H5'	2.08	0.53
47:S2:98:C:N4	47:S2:409:C:H41	2.07	0.53
47:S2:407:G:C3'	47:S2:408:A:C5'	2.86	0.53
47:S2:649:U:O2'	47:S2:650:A:H5'	2.08	0.53
47:S2:984:C:O2'	74:SO:138:ASP:OD2	2.22	0.53
47:S2:1461:G:H3'	47:S2:1463:U:O2	2.09	0.53
47:S2:1497:G:H21	55:SK:62:PHE:HB3	1.73	0.53
49:SB:180:ASP:O	49:SB:184:VAL:HG23	2.09	0.53
50:SD:69:LEU:CB	50:SD:86:LEU:HD21	2.22	0.53
52:SF:67:PRO:HG2	52:SF:70:GLU:HB3	1.87	0.53
52:SF:176:GLU:HA	52:SF:179:ASN:HB2	1.91	0.53
53:SH:48:ALA:HA	53:SH:62:ILE:HA	1.90	0.53
61:ST:19:ALA:CB	61:ST:55:THR:HG22	2.39	0.53
62:SU:27:ARG:HH12	67:Sd:51:GLY:HA3	1.74	0.53
63:SV:2:GLN:N	63:SV:9:VAL:HG22	2.24	0.53
71:SJ:114:VAL:HG22	71:SJ:135:ILE:HD13	1.90	0.53
72:SM:101:ARG:O	72:SM:103:VAL:HG23	2.09	0.53
1:L5:157:U:O2'	1:L5:158:A:OP2	2.26	0.53
1:L5:246:G:H2'	1:L5:247:G:H8	1.73	0.53
1:L5:379:G:H2'	1:L5:380:U:H5'	1.91	0.53
1:L5:715:G:O2'	1:L5:716:C:H5'	2.09	0.53
1:L5:1178:G:O2'	1:L5:1179:U:OP1	2.19	0.53
1:L5:1184:A:H2'	1:L5:1184:A:N3	2.23	0.53
1:L5:1208:G:H2'	1:L5:1209:U:C5'	2.39	0.53
1:L5:1244:G:O2'	1:L5:1245:C:O4'	2.27	0.53
1:L5:1499:C:H2'	1:L5:1500:A:C5'	2.39	0.53
1:L5:1838:A:C2'	1:L5:1839:U:H5'	2.39	0.53
1:L5:1912:G:N2	1:L5:1913:C:O2	2.42	0.53
1:L5:1920:C:O2'	1:L5:1921:C:H3'	2.09	0.53
1:L5:2102:G:H2'	1:L5:2103:G:N7	2.23	0.53
1:L5:2485:U:H1'	1:L5:2486:G:C6	2.44	0.53
1:L5:3635:A:H61	44:Lp:18:TYR:H	1.56	0.53
1:L5:3663:A:H2'	1:L5:3663:A:N3	2.24	0.53
1:L5:4188:U:H2'	1:L5:4188:U:O2	2.09	0.53
1:L5:4237:C:OP1	1:L5:4327:C:O2'	2.26	0.53
1:L5:4296:U:H2'	1:L5:4297:G:O4'	2.09	0.53
1:L5:4442:U:O4	1:L5:4444:C:N4	2.42	0.53
1:L5:4889:G:H1	1:L5:4930:C:N4	2.05	0.53
1:L5:4931:G:OP1	8:LE:262:LYS:HD3	2.09	0.53
1:L5:5027:C:H1'	1:L5:5028:G:O5'	2.08	0.53
2:L7:78:C:H2'	2:L7:79:U:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:138:GLN:N	5:LB:138:GLN:OE1	2.42	0.53
6:LC:262:GLU:HB3	6:LC:273:LEU:HD13	1.91	0.53
7:LD:36:LEU:CD1	7:LD:37:VAL:HG23	2.38	0.53
7:LD:57:ASN:O	7:LD:58:ARG:HG3	2.09	0.53
7:LD:156:GLY:HA3	7:LD:181:PRO:HA	1.90	0.53
7:LD:163:LEU:O	7:LD:167:VAL:HG23	2.08	0.53
10:LG:58:PRO:HG3	26:LX:46:PHE:CD2	2.43	0.53
10:LG:159:HIS:HB3	10:LG:183:ILE:CG2	2.38	0.53
10:LG:193:LEU:HD12	10:LG:193:LEU:C	2.34	0.53
11:LH:130:PRO:O	11:LH:153:LEU:HD13	2.09	0.53
15:LM:122:ILE:CB	17:LO:189:ILE:HD13	2.39	0.53
28:LZ:11:VAL:HG22	28:LZ:12:LEU:N	2.23	0.53
31:Lc:38:ILE:HG21	31:Lc:63:TYR:HB3	1.91	0.53
33:Le:113:GLU:HA	33:Le:116:ALA:HB3	1.90	0.53
46:Lz:203:ALA:HB1	46:Lz:215:ARG:HB3	1.89	0.53
47:S2:291:G:H4'	47:S2:292:A:C8	2.44	0.53
47:S2:568:C:H1'	47:S2:583:C:N3	2.24	0.53
47:S2:730:C:C2'	47:S2:731:G:H5'	2.39	0.53
47:S2:748:C:H4'	47:S2:796:G:C2	2.43	0.53
47:S2:1224:G:OP1	52:SF:80:GLY:HA3	2.08	0.53
47:S2:1396:A:H4'	47:S2:1397:U:OP2	2.07	0.53
47:S2:1522:A:C4	60:SS:145:THR:HB	2.44	0.53
47:S2:1589:A:OP1	61:ST:81:GLY:HA2	2.09	0.53
48:SA:58:LEU:HD21	48:SA:177:MET:HG3	1.91	0.53
48:SA:200:ASP:HB3	59:SR:85:VAL:CG1	2.38	0.53
50:SD:76:ARG:N	55:SK:22:VAL:HG11	2.23	0.53
51:SE:102:ILE:HG22	51:SE:103:TYR:O	2.09	0.53
52:SF:117:ILE:O	52:SF:117:ILE:HG22	2.08	0.53
54:SI:149:TYR:CD1	54:SI:152:ARG:HD2	2.44	0.53
55:SK:1:MET:C	55:SK:2:LEU:HD12	2.34	0.53
55:SK:38:LYS:HD2	55:SK:39:ASN:H	1.73	0.53
58:SQ:66:VAL:O	58:SQ:66:VAL:HG23	2.09	0.53
58:SQ:92:LEU:HD22	58:SQ:108:ILE:CD1	2.39	0.53
59:SR:75:GLU:HA	59:SR:78:ARG:HB3	1.91	0.53
59:SR:98:VAL:HG22	59:SR:99:ASP:N	2.23	0.53
63:SV:70:LEU:HD21	63:SV:83:PHE:CE2	2.44	0.53
68:Sg:101:PHE:CE1	68:Sg:136:GLY:HA2	2.44	0.53
68:Sg:173:LEU:HD22	68:Sg:189:ILE:HA	1.91	0.53
70:SG:145:PHE:HZ	70:SG:156:TYR:CG	2.27	0.53
70:SG:222:GLU:HA	70:SG:225:GLN:HB3	1.89	0.53
71:SJ:138:ARG:HD3	71:SJ:156:HIS:ND1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:SM:60:MET:HE1	72:SM:63:LYS:HD2	1.89	0.53
74:SO:35:ALA:HB3	74:SO:97:LEU:HD11	1.91	0.53
80:Sf:123:SER:O	80:Sf:125:GLU:N	2.42	0.53
1:L5:42:A:N6	1:L5:4380:A:N7	2.57	0.53
1:L5:450:G:HO2'	1:L5:453:G:P	2.32	0.53
1:L5:501:C:O3'	1:L5:504:G:H5"	2.08	0.53
1:L5:956:A:H3'	1:L5:957:G:C5	2.43	0.53
1:L5:2129:C:C2	1:L5:2245:G:H1'	2.43	0.53
1:L5:2639:U:H2'	1:L5:2694:G:O6	2.09	0.53
1:L5:3672:G:H3'	1:L5:3672:G:C8	2.44	0.53
1:L5:3690:U:H2'	1:L5:3691:G:C5'	2.38	0.53
1:L5:3737:A:H2'	1:L5:3738:G:H8	1.73	0.53
1:L5:3893:C:O2'	1:L5:3894:A:H5'	2.09	0.53
1:L5:4083:U:H2'	1:L5:4084:G:C5'	2.21	0.53
1:L5:4309:G:C2'	1:L5:4310:A:H5'	2.39	0.53
1:L5:4516:G:H2'	1:L5:4517:A:O4'	2.09	0.53
1:L5:4888:U:O2'	1:L5:4889:G:O5'	2.25	0.53
1:L5:4915:G:N2	1:L5:4916:G:H1'	2.24	0.53
4:LA:122:ASP:O	4:LA:123:ARG:HB2	2.07	0.53
5:LB:44:THR:HG22	5:LB:349:LYS:CD	2.39	0.53
5:LB:117:ARG:CD	5:LB:177:LYS:HG2	2.39	0.53
9:LF:83:VAL:O	22:LT:138:ALA:HB1	2.09	0.53
10:LG:63:LEU:CD2	16:LN:32:GLN:HB2	2.38	0.53
10:LG:172:ALA:HB1	37:Li:46:GLU:OE1	2.09	0.53
12:LI:207:ASP:O	12:LI:211:VAL:N	2.41	0.53
13:LJ:14:GLU:O	13:LJ:137:PRO:HD3	2.09	0.53
23:LU:25:CYS:HB2	23:LU:28:PRO:CG	2.39	0.53
23:LU:96:LEU:HD22	23:LU:100:LEU:HD13	1.90	0.53
34:Lf:23:GLU:N	34:Lf:23:GLU:OE1	2.42	0.53
38:Lj:47:TYR:HB3	38:Lj:49:TRP:CD1	2.44	0.53
39:Lk:54:GLU:HA	39:Lk:57:LYS:HB2	1.90	0.53
41:Lm:101:ALA:HB1	41:Lm:112:LYS:NZ	2.24	0.53
43:Lo:66:ILE:HG13	43:Lo:88:CYS:SG	2.49	0.53
44:Lp:59:SER:OG	44:Lp:60:CYS:N	2.42	0.53
45:Lr:63:VAL:O	45:Lr:63:VAL:HG13	2.09	0.53
45:Lr:113:ARG:O	45:Lr:117:ILE:HG22	2.09	0.53
46:Lz:88:GLU:O	46:Lz:92:LYS:HB2	2.09	0.53
47:S2:3:C:C4	71:SJ:17:ARG:HG2	2.44	0.53
47:S2:288:G:H1'	51:SE:131:VAL:HG21	1.91	0.53
47:S2:662:G:H4'	47:S2:663:C:H5"	1.91	0.53
47:S2:961:G:H2'	47:S2:962:A:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1070:A:C2'	47:S2:1071:G:H5'	2.37	0.53
47:S2:1159:G:OP2	64:SX:5:ARG:HD2	2.08	0.53
47:S2:1606:G:O2'	47:S2:1607:A:O5'	2.27	0.53
47:S2:1720:U:H5"	47:S2:1721:U:C5'	2.38	0.53
47:S2:1752:C:N4	47:S2:1780:G:H1	2.06	0.53
48:SA:61:ALA:HB1	48:SA:145:ILE:CD1	2.39	0.53
50:SD:188:ILE:HG22	50:SD:190:LEU:HD12	1.91	0.53
52:SF:92:ILE:HG22	52:SF:173:LEU:HD23	1.91	0.53
53:SH:144:ILE:O	75:SW:52:ILE:HG13	2.09	0.53
54:SI:147:LYS:HA	54:SI:150:ASP:OD2	2.09	0.53
58:SQ:34:VAL:HG23	58:SQ:39:LEU:CD1	2.38	0.53
63:SV:32:ILE:HD12	63:SV:33:GLN:N	2.24	0.53
65:Sa:49:ALA:CB	74:SO:117:ARG:HD3	2.39	0.53
68:Sg:44:LYS:N	68:Sg:54:ILE:O	2.35	0.53
68:Sg:78:ALA:HB3	68:Sg:90:TRP:CB	2.37	0.53
68:Sg:133:ASN:HD21	68:Sg:139:LYS:H	1.56	0.53
72:SM:120:ALA:CA	72:SM:123:VAL:HG22	2.34	0.53
1:L5:458:C:N4	1:L5:698:G:H22	2.07	0.52
1:L5:959:G:H1'	8:LE:125:LEU:CD1	2.39	0.52
1:L5:965:G:OP1	1:L5:965:G:N2	2.18	0.52
1:L5:1180:C:C3'	1:L5:1181:C:H5"	2.36	0.52
1:L5:1651:G:H8	1:L5:1651:G:O5'	1.92	0.52
1:L5:1735:U:H2'	1:L5:1736:A:H8	1.74	0.52
1:L5:1872:G:O2'	1:L5:4219:A:N3	2.34	0.52
1:L5:2255:C:O3'	1:L5:2256:C:H4'	2.09	0.52
1:L5:2597:G:O2'	35:Lg:42:PRO:HB3	2.09	0.52
1:L5:2738:C:HO2'	1:L5:2739:C:H3'	1.73	0.52
1:L5:3657:U:OP1	4:LA:246:LEU:HA	2.09	0.52
1:L5:3767:C:HO2'	1:L5:3768:U:P	2.32	0.52
1:L5:3933:G:N2	1:L5:3934:G:N3	2.57	0.52
1:L5:4231:C:H5	43:Lo:2:VAL:CG1	2.22	0.52
1:L5:4238:G:N2	1:L5:4239:A:H1'	2.24	0.52
1:L5:4431:U:OP2	12:LI:3:ARG:NH2	2.43	0.52
1:L5:4776:G:N7	1:L5:4860:G:N1	2.57	0.52
2:L7:48:G:O2'	7:LD:222:GLN:O	2.27	0.52
5:LB:42:HIS:CE1	5:LB:186:ASN:HB2	2.44	0.52
9:LF:101:VAL:HG12	9:LF:139:TYR:CE2	2.43	0.52
15:LM:24:LEU:HD21	15:LM:86:TRP:CH2	2.45	0.52
19:LQ:175:GLU:HA	29:La:51:GLY:C	2.33	0.52
21:LS:101:THR:O	21:LS:105:ALA:N	2.37	0.52
25:LW:109:ILE:HD11	70:SG:151:ASP:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LX:89:LYS:HE2	26:LX:137:TYR:CD1	2.44	0.52
27:LY:35:SER:OG	27:LY:38:LEU:HG	2.10	0.52
28:LZ:11:VAL:O	28:LZ:12:LEU:HD23	2.09	0.52
29:La:120:GLN:OE1	29:La:121:PRO:HD2	2.09	0.52
39:Lk:45:LEU:HD23	39:Lk:47:ILE:N	2.24	0.52
40:Ll:8:ARG:O	40:Ll:11:ARG:HB3	2.10	0.52
47:S2:201:C:H5"	47:S2:202:G:N7	2.23	0.52
47:S2:314:U:P	47:S2:314:U:H6	2.32	0.52
47:S2:462:C:C3'	47:S2:463:C:H5"	2.39	0.52
47:S2:599:A:H5"	47:S2:600:G:OP1	2.09	0.52
47:S2:641:A:H2'	47:S2:642:U:O4'	2.09	0.52
47:S2:913:A:C5	53:SH:66:VAL:HG21	2.44	0.52
47:S2:1060:A:H4'	47:S2:1061:U:O5'	2.09	0.52
47:S2:1076:G:OP2	73:SN:107:LYS:HD2	2.09	0.52
47:S2:1370:A:H5"	47:S2:1371:U:OP1	2.09	0.52
47:S2:1402:A:N6	47:S2:1441:U:O2	2.30	0.52
47:S2:1607:A:H5"	47:S2:1608:U:OP2	2.08	0.52
49:SB:79:VAL:CG1	49:SB:82:ARG:H	2.22	0.52
51:SE:73:ASP:OD1	51:SE:122:LYS:HD2	2.09	0.52
54:SI:157:LYS:HG3	56:SL:24:LEU:HD21	1.91	0.52
56:SL:5:GLN:HE22	56:SL:11:GLN:CB	2.14	0.52
58:SQ:118:THR:HA	58:SQ:121:VAL:HG22	1.91	0.52
60:SS:110:ASP:O	60:SS:113:ARG:N	2.41	0.52
61:ST:34:VAL:HG12	61:ST:53:PHE:HE2	1.75	0.52
62:SU:60:THR:OG1	62:SU:62:ARG:NH1	2.42	0.52
64:SX:53:GLU:HG3	64:SX:55:VAL:HG13	1.91	0.52
64:SX:61:GLN:N	64:SX:62:PRO:HD2	2.24	0.52
68:Sg:107:ASP:OD2	68:Sg:125:ARG:NE	2.42	0.52
68:Sg:191:HIS:O	68:Sg:192:THR:HB	2.09	0.52
68:Sg:219:TRP:CZ3	68:Sg:226:HIS:HA	2.43	0.52
70:SG:23:LYS:HB3	70:SG:41:LEU:CA	2.39	0.52
75:SW:110:ILE:HD11	75:SW:126:LEU:HD13	1.90	0.52
1:L5:176:G:H21	1:L5:177:G:H1'	1.73	0.52
1:L5:305:A:H5'	37:Li:76:ARG:HG2	1.90	0.52
1:L5:982:U:H2'	1:L5:983:C:N1	2.23	0.52
1:L5:1073:G:H1	1:L5:1239:C:N4	2.06	0.52
1:L5:1266:G:H1	1:L5:1268:G:H8	1.56	0.52
1:L5:1364:U:OP2	14:LL:36:ARG:NH2	2.42	0.52
1:L5:1487:G:O2'	1:L5:1488:G:H5'	2.10	0.52
1:L5:1951:G:C6	1:L5:2033:A:C2	2.97	0.52
1:L5:1988:G:H3'	1:L5:1989:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2052:G:H5'	17:LO:83:THR:OG1	2.09	0.52
1:L5:2104:G:O2'	1:L5:2105:A:H5'	2.09	0.52
1:L5:2547:G:N2	1:L5:2548:C:H1'	2.23	0.52
1:L5:2633:U:C5	1:L5:2634:C:H5	2.27	0.52
1:L5:3778:U:O2'	1:L5:3779:A:H5'	2.09	0.52
1:L5:3846:C:O2	1:L5:4632:U:O2'	2.22	0.52
1:L5:4132:C:H2'	1:L5:4133:C:C6	2.40	0.52
1:L5:4518:A:OP2	5:LB:258:HIS:HB2	2.09	0.52
1:L5:4690:G:O6	1:L5:4698:C:H5"	2.10	0.52
1:L5:4774:C:H2'	1:L5:4775:C:C2	2.44	0.52
2:L7:104:C:O2'	2:L7:105:C:H5'	2.09	0.52
3:L8:36:G:H2'	36:Lh:89:ARG:HH11	1.74	0.52
4:LA:77:ILE:HD12	4:LA:128:ARG:HD2	1.89	0.52
4:LA:245:ARG:CG	4:LA:246:LEU:N	2.72	0.52
5:LB:56:ILE:CD1	5:LB:365:LEU:HD22	2.35	0.52
5:LB:108:GLU:N	5:LB:108:GLU:OE1	2.38	0.52
14:LL:41:ALA:O	14:LL:45:ARG:HB2	2.09	0.52
20:LR:145:LEU:C	20:LR:145:LEU:HD23	2.35	0.52
20:LR:159:ALA:HB1	20:LR:163:ARG:HH12	1.73	0.52
21:LS:11:LYS:HB2	21:LS:67:VAL:HG21	1.89	0.52
21:LS:36:ASN:OD1	21:LS:39:VAL:N	2.33	0.52
26:LX:71:LEU:CD2	26:LX:76:ILE:HD12	2.40	0.52
27:LY:8:THR:OG1	27:LY:17:ARG:NH2	2.41	0.52
29:La:37:GLY:HA3	29:La:45:PHE:CE2	2.44	0.52
33:Le:89:LEU:HD13	33:Le:118:LEU:HD11	1.91	0.52
46:Lz:49:PHE:CE1	46:Lz:193:LEU:HD13	2.44	0.52
46:Lz:64:SER:N	46:Lz:109:ALA:HB3	2.24	0.52
47:S2:595:U:H5"	47:S2:643:A:H61	1.73	0.52
47:S2:786:G:OP1	70:SG:234:LEU:HB2	2.08	0.52
47:S2:1376:A:C2	47:S2:1377:U:H1'	2.44	0.52
47:S2:1597:C:C1'	47:S2:1603:G:H1	2.20	0.52
47:S2:1756:C:N3	47:S2:1757:G:H1'	2.24	0.52
48:SA:17:LYS:NZ	48:SA:176:TRP:HH2	2.06	0.52
50:SD:108:LYS:NZ	50:SD:113:LEU:HD23	2.24	0.52
50:SD:213:PRO:CD	59:SR:19:LYS:HD2	2.39	0.52
52:SF:59:LYS:HB3	52:SF:62:ARG:HG3	1.91	0.52
53:SH:62:ILE:HD11	53:SH:94:PHE:CD1	2.43	0.52
53:SH:147:LYS:HG2	53:SH:147:LYS:O	2.10	0.52
54:SI:79:ILE:HG22	54:SI:103:LEU:O	2.09	0.52
56:SL:13:GLN:O	56:SL:16:ILE:HG13	2.10	0.52
62:SU:31:SER:HB2	62:SU:108:PRO:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Sc:11:LEU:HB2	66:Sc:35:MET:SD	2.49	0.52
68:Sg:44:LYS:HD3	68:Sg:54:ILE:HG21	1.91	0.52
71:SJ:97:ILE:C	71:SJ:100:LEU:HD13	2.35	0.52
71:SJ:169:ARG:NH2	71:SJ:170:PRO:O	2.40	0.52
72:SM:58:GLU:HB2	72:SM:61:TYR:CZ	2.44	0.52
74:SO:94:HIS:O	74:SO:95:ILE:HD13	2.09	0.52
74:SO:101:GLY:HA3	74:SO:134:PRO:CD	2.38	0.52
78:Sb:5:LYS:CG	78:Sb:6:ASP:N	2.71	0.52
1:L5:21:G:O2'	1:L5:22:G:H5'	2.09	0.52
1:L5:48:G:O2'	1:L5:49:U:OP2	2.27	0.52
1:L5:191:G:H2'	1:L5:192:G:H5'	1.90	0.52
1:L5:453:G:C8	1:L5:704:C:H1'	2.44	0.52
1:L5:695:G:H5'	1:L5:696:C:C6	2.44	0.52
1:L5:913:U:H2'	1:L5:914:U:C6	2.45	0.52
1:L5:1943:A:C2'	1:L5:1944:A:H5'	2.39	0.52
1:L5:2257:C:OP1	9:LF:36:LYS:NZ	2.41	0.52
1:L5:2314:G:C2'	1:L5:2315:G:H5'	2.39	0.52
1:L5:2314:G:N2	1:L5:2326:G:H1'	2.24	0.52
1:L5:2344:U:H3'	29:La:9:ARG:HH12	1.75	0.52
1:L5:3698:G:H2'	1:L5:3699:C:C6	2.43	0.52
1:L5:3912:U:O2'	1:L5:3913:G:H5'	2.10	0.52
1:L5:4276:G:O2'	1:L5:4277:G:H5'	2.10	0.52
1:L5:4381:A:C2'	1:L5:4382:G:H5"	2.31	0.52
1:L5:4875:G:C6	1:L5:4878:C:H4'	2.43	0.52
3:L8:43:A:O2'	3:L8:44:A:H5'	2.10	0.52
4:LA:42:LYS:CB	4:LA:89:TYR:HE1	2.23	0.52
8:LE:288:PHE:CE1	15:LM:106:ASP:HB2	2.44	0.52
9:LF:42:LEU:HD12	9:LF:45:ALA:HB3	1.90	0.52
11:LH:90:TYR:CE2	11:LH:184:LYS:HG2	2.45	0.52
13:LJ:18:ARG:HD3	13:LJ:133:VAL:HG11	1.89	0.52
16:LN:33:LEU:HD22	16:LN:63:ARG:HH21	1.73	0.52
18:LP:54:GLN:HA	18:LP:83:TRP:CD1	2.44	0.52
18:LP:119:VAL:HG12	18:LP:146:ILE:HD13	1.90	0.52
20:LR:7:GLN:N	20:LR:7:GLN:OE1	2.41	0.52
20:LR:69:ALA:HB1	20:LR:74:ARG:HB2	1.91	0.52
25:LW:50:ASN:HA	25:LW:55:TYR:CD2	2.44	0.52
27:LY:43:ASN:HB2	27:LY:123:ALA:CB	2.39	0.52
29:La:120:GLN:O	29:La:140:VAL:HG11	2.08	0.52
31:Lc:78:ASN:N	31:Lc:78:ASN:OD1	2.42	0.52
45:Lr:119:ARG:HA	45:Lr:122:LYS:HZ3	1.74	0.52
46:Lz:57:SER:OG	46:Lz:183:ILE:HD11	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:19:A:O2'	47:S2:20:G:H5'	2.09	0.52
47:S2:337:C:H2'	47:S2:338:G:O4'	2.09	0.52
47:S2:594:A:N6	47:S2:643:A:H5"	2.24	0.52
47:S2:818:A:C3'	47:S2:819:G:H5'	2.39	0.52
47:S2:1240:A:N6	47:S2:1516:G:H1'	2.23	0.52
47:S2:1345:G:O2'	47:S2:1484:A:N1	2.31	0.52
47:S2:1642:U:H2'	47:S2:1643:U:H5'	1.92	0.52
53:SH:160:LYS:HE2	53:SH:192:PHE:N	2.24	0.52
54:SI:96:LEU:HD12	54:SI:96:LEU:C	2.33	0.52
54:SI:194:GLU:HB2	56:SL:18:GLN:NE2	2.25	0.52
58:SQ:24:HIS:CE1	58:SQ:69:ARG:H	2.27	0.52
58:SQ:44:PRO:O	58:SQ:45:ARG:HB3	2.10	0.52
60:SS:4:VAL:HG12	60:SS:6:PRO:O	2.09	0.52
60:SS:15:VAL:O	60:SS:20:ILE:HD13	2.09	0.52
61:ST:108:GLU:CA	61:ST:113:VAL:HG12	2.39	0.52
62:SU:82:MET:HB2	67:Sd:52:PHE:CE1	2.45	0.52
63:SV:12:TYR:HE1	63:SV:14:PRO:CB	2.18	0.52
65:Sa:53:ILE:O	65:Sa:57:SER:OG	2.24	0.52
68:Sg:248:LEU:O	68:Sg:258:ILE:HA	2.10	0.52
68:Sg:258:ILE:HB	68:Sg:269:GLU:HA	1.92	0.52
69:SC:195:LEU:HD23	69:SC:224:THR:HG22	1.91	0.52
69:SC:207:ALA:C	69:SC:210:PRO:HD2	2.35	0.52
70:SG:82:SER:OG	70:SG:83:CYS:N	2.43	0.52
71:SJ:142:VAL:CG1	71:SJ:144:ILE:H	2.19	0.52
72:SM:32:ALA:O	72:SM:37:GLU:HG2	2.09	0.52
74:SO:14:VAL:H	74:SO:15:ILE:HB	1.73	0.52
74:SO:56:VAL:HG12	74:SO:77:ALA:HB1	1.91	0.52
75:SW:65:LEU:C	75:SW:67:GLY:H	2.17	0.52
76:SY:54:VAL:HG21	76:SY:76:TYR:O	2.09	0.52
1:L5:35:U:H5'	1:L5:36:U:OP2	2.10	0.52
1:L5:403:G:H2'	1:L5:404:U:H6	1.72	0.52
1:L5:406:C:O2'	1:L5:407:A:OP1	2.22	0.52
1:L5:439:G:N2	1:L5:1309:C:N3	2.58	0.52
1:L5:729:G:C5'	1:L5:730:G:H5'	2.40	0.52
1:L5:1186:U:O5'	1:L5:1186:U:H6	1.92	0.52
1:L5:1937:C:H3'	1:L5:1938:C:C5'	2.39	0.52
1:L5:2587:A:H3'	1:L5:2588:C:C6	2.44	0.52
1:L5:3628:G:H2'	1:L5:3629:A:H8	1.74	0.52
1:L5:3706:C:H2'	1:L5:3707:U:O4'	2.09	0.52
1:L5:4322:G:N2	1:L5:4325:A:OP2	2.43	0.52
1:L5:4540:C:O2'	1:L5:4541:G:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4640:C:H2'	1:L5:4641:U:H5'	1.90	0.52
1:L5:4673:U:O2'	1:L5:4674:C:H5'	2.09	0.52
1:L5:4769:G:H1	1:L5:4865:C:H42	1.55	0.52
1:L5:4965:U:H4'	1:L5:4966:A:O5'	2.09	0.52
9:LF:84:PRO:C	22:LT:138:ALA:HB3	2.34	0.52
10:LG:87:LEU:HB3	10:LG:184:ILE:HD13	1.91	0.52
10:LG:159:HIS:ND1	10:LG:160:ASP:HB3	2.25	0.52
12:LI:93:PRO:O	12:LI:125:THR:HG21	2.09	0.52
13:LJ:5:GLN:O	13:LJ:9:GLU:HG3	2.10	0.52
17:LO:55:LEU:O	17:LO:58:LEU:N	2.41	0.52
24:LV:42:VAL:CG1	24:LV:45:ILE:HG13	2.38	0.52
27:LY:42:TYR:CE1	27:LY:119:LEU:HD23	2.44	0.52
37:Li:74:LYS:HG3	37:Li:79:THR:O	2.09	0.52
38:Lj:21:ARG:O	38:Lj:22:CYS:HB3	2.09	0.52
43:Lo:84:ALA:O	43:Lo:85:ILE:HD13	2.08	0.52
47:S2:161:U:H5"	76:SY:116:LYS:HZ2	1.75	0.52
47:S2:306:C:O2'	47:S2:307:G:OP1	2.24	0.52
47:S2:606:G:O2'	47:S2:607:U:H5"	2.10	0.52
47:S2:1144:A:H5'	47:S2:1355:C:C4	2.44	0.52
47:S2:1293:A:H5'	80:Sf:138:ARG:HG3	1.92	0.52
47:S2:1330:G:C3'	47:S2:1331:C:H5'	2.39	0.52
47:S2:1389:C:H2'	50:SD:162:ASP:HB3	1.91	0.52
47:S2:1530:U:O2'	61:ST:87:VAL:HG23	2.09	0.52
47:S2:1845:A:O2'	47:S2:1846:G:H5'	2.08	0.52
48:SA:4:ALA:HB2	63:SV:80:SER:HB2	1.90	0.52
50:SD:203:PRO:HB2	50:SD:207:HIS:HB3	1.91	0.52
51:SE:102:ILE:O	51:SE:109:PHE:HA	2.10	0.52
52:SF:128:ILE:HG13	66:Sc:23:SER:CB	2.39	0.52
54:SI:103:LEU:HA	54:SI:172:LEU:HA	1.90	0.52
58:SQ:12:VAL:HG11	58:SQ:91:ALA:N	2.24	0.52
59:SR:105:MET:O	59:SR:108:LEU:HD13	2.10	0.52
61:ST:57:ALA:O	61:ST:60:THR:HB	2.09	0.52
66:Sc:28:THR:O	66:Sc:46:VAL:HG22	2.10	0.52
68:Sg:166:VAL:HB	68:Sg:198:VAL:HG13	1.92	0.52
69:SC:138:GLY:HA2	69:SC:241:PHE:CE1	2.30	0.52
70:SG:219:GLU:C	70:SG:223:LYS:HZ3	2.18	0.52
71:SJ:120:ALA:HB1	71:SJ:125:HIS:CD2	2.44	0.52
72:SM:67:ALA:HA	80:Sf:112:GLY:HA2	1.90	0.52
72:SM:76:LEU:C	72:SM:77:ILE:HD12	2.35	0.52
73:SN:146:ALA:HA	73:SN:149:LEU:CB	2.39	0.52
76:SY:130:LYS:N	76:SY:131:PRO:HD2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:106:A:C2'	1:L5:107:G:H5'	2.40	0.52
1:L5:281:U:H2'	1:L5:282:C:H5'	1.90	0.52
1:L5:914:U:H2'	1:L5:915:A:O4'	2.08	0.52
1:L5:994:G:O6	1:L5:1050:C:H1'	2.09	0.52
1:L5:2129:C:H1'	1:L5:2245:G:O2'	2.08	0.52
1:L5:2314:G:H2'	1:L5:2315:G:H5'	1.91	0.52
1:L5:2638:G:C1'	35:Lg:28:ASN:HD21	2.22	0.52
1:L5:2700:G:H22	1:L5:2717:G:C1'	2.22	0.52
4:LA:58:LEU:HD13	4:LA:75:LEU:CD2	2.39	0.52
5:LB:341:LYS:O	5:LB:342:LYS:HB2	2.09	0.52
9:LF:43:ARG:HH22	9:LF:47:ARG:HD3	1.74	0.52
12:LI:149:ILE:HG12	12:LI:165:ILE:CD1	2.39	0.52
13:LJ:85:LYS:HG2	13:LJ:115:LEU:HD23	1.91	0.52
15:LM:96:GLU:OE2	15:LM:100:ARG:NH2	2.27	0.52
23:LU:63:ILE:HD13	23:LU:72:VAL:HG22	1.90	0.52
24:LV:37:LEU:CD2	24:LV:65:VAL:HG12	2.40	0.52
24:LV:87:SER:HA	24:LV:97:TYR:HB3	1.91	0.52
26:LX:89:LYS:O	26:LX:93:ASN:HB2	2.09	0.52
27:LY:83:GLU:O	27:LY:86:GLN:NE2	2.42	0.52
32:Ld:65:ASP:CB	32:Ld:107:THR:HA	2.40	0.52
46:Lz:64:SER:HB2	46:Lz:66:CYS:SG	2.49	0.52
46:Lz:68:LEU:HD11	46:Lz:90:LEU:CD2	2.24	0.52
47:S2:377:G:OP1	54:SI:99:ASN:ND2	2.42	0.52
47:S2:396:U:OP2	56:SL:79:LYS:NZ	2.28	0.52
47:S2:693:A:O2'	47:S2:694:G:N3	2.42	0.52
47:S2:900:C:H3'	47:S2:901:G:C8	2.41	0.52
47:S2:1313:A:OP2	55:SK:5:LYS:HD3	2.09	0.52
47:S2:1591:C:H5'	52:SF:85:LYS:HZ3	1.73	0.52
48:SA:30:LEU:CD1	48:SA:34:MET:HB2	2.40	0.52
48:SA:207:PRO:O	48:SA:210:ILE:HG13	2.10	0.52
49:SB:89:GLU:HG2	49:SB:223:PHE:CD1	2.44	0.52
50:SD:52:ALA:O	50:SD:91:VAL:HG23	2.10	0.52
51:SE:130:PHE:O	51:SE:132:GLY:N	2.42	0.52
52:SF:140:ASP:HB3	66:Sc:46:VAL:CA	2.35	0.52
56:SL:135:SER:O	56:SL:139:ARG:NH1	2.43	0.52
59:SR:21:TYR:CE1	59:SR:58:MET:HE2	2.45	0.52
67:Sd:31:ILE:CG2	67:Sd:36:LEU:HD23	2.39	0.52
68:Sg:214:GLY:O	68:Sg:236:ILE:HD11	2.08	0.52
69:SC:203:GLY:O	69:SC:221:ASP:HA	2.09	0.52
74:SO:53:ILE:HG23	74:SO:88:LEU:HD22	1.91	0.52
77:SZ:81:GLY:HA2	77:SZ:84:ALA:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:51:A:H2'	1:L5:52:G:H5'	1.92	0.52
1:L5:267:G:O2'	1:L5:268:G:H5'	2.09	0.52
1:L5:971:U:C6	8:LE:126:LEU:HD13	2.45	0.52
1:L5:979:C:O2'	8:LE:41:LYS:HD3	2.09	0.52
1:L5:1048:G:C8	1:L5:1049:C:H1'	2.44	0.52
1:L5:1077:C:O2	1:L5:1234:G:N2	2.43	0.52
1:L5:1217:G:N2	1:L5:1218:G:H22	2.08	0.52
1:L5:1366:G:H22	6:LC:218:ILE:HG23	1.73	0.52
1:L5:1537:A:N3	1:L5:1628:C:O2'	2.41	0.52
1:L5:1541:C:H5"	4:LA:21:LYS:HG2	1.91	0.52
1:L5:1899:G:N2	33:Le:59:GLY:HA2	2.16	0.52
1:L5:1911:C:H1'	1:L5:1917:A:C4	2.45	0.52
1:L5:2057:A:N7	17:LO:18:ARG:NH1	2.57	0.52
1:L5:2570:U:H2'	1:L5:2571:C:O4'	2.10	0.52
1:L5:2755:A:OP2	28:LZ:51:ARG:HD3	2.10	0.52
1:L5:4074:C:N4	1:L5:4075:U:O4	2.42	0.52
1:L5:4100:C:H5'	1:L5:4101:C:P	2.50	0.52
1:L5:4481:U:O2'	1:L5:4482:U:H5'	2.10	0.52
1:L5:4875:G:C5	1:L5:4878:C:H4'	2.44	0.52
3:L8:36:G:H2'	36:Lh:89:ARG:NH1	2.25	0.52
4:LA:113:VAL:N	4:LA:134:ALA:O	2.33	0.52
5:LB:119:TYR:OH	5:LB:128:LYS:N	2.41	0.52
5:LB:141:ASP:HA	5:LB:144:LYS:HE2	1.91	0.52
5:LB:182:GLU:O	5:LB:183:ILE:HD13	2.10	0.52
6:LC:171:LEU:CD1	6:LC:177:TRP:HB2	2.39	0.52
6:LC:314:LEU:C	6:LC:314:LEU:HD12	2.34	0.52
11:LH:16:VAL:O	11:LH:16:VAL:HG23	2.08	0.52
11:LH:47:LEU:HD23	11:LH:55:LEU:HD13	1.92	0.52
13:LJ:136:ARG:O	13:LJ:139:PHE:HB2	2.08	0.52
16:LN:85:VAL:HA	43:Lo:49:GLY:HA2	1.91	0.52
19:LQ:63:LEU:O	19:LQ:67:ILE:HG12	2.09	0.52
19:LQ:93:GLN:N	19:LQ:93:GLN:OE1	2.43	0.52
21:LS:30:MET:HE1	22:LT:151:LEU:O	2.10	0.52
27:LY:47:MET:HE2	27:LY:119:LEU:CD1	2.40	0.52
28:LZ:73:LYS:HG2	28:LZ:74:VAL:H	1.73	0.52
29:La:21:ARG:NH2	33:Le:41:ILE:HG23	2.25	0.52
32:Ld:59:THR:HG21	32:Ld:102:LEU:C	2.35	0.52
33:Le:90:MET:HE3	45:Lr:33:LYS:N	2.24	0.52
34:Lf:93:PRO:O	34:Lf:95:LYS:N	2.42	0.52
35:Lg:63:VAL:O	35:Lg:66:ARG:HG2	2.09	0.52
37:Li:39:PHE:CE1	37:Li:43:MET:HE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Lj:2:THR:HB	38:Lj:6:SER:OG	2.09	0.52
39:Lk:23:VAL:HB	39:Lk:36:VAL:HG23	1.90	0.52
47:S2:92:A:O2'	51:SE:4:GLY:HA3	2.10	0.52
47:S2:120:U:H2'	47:S2:121:U:O4'	2.10	0.52
47:S2:155:G:H21	70:SG:56:ASN:CG	2.17	0.52
47:S2:217:A:H1'	47:S2:309:G:N2	2.24	0.52
47:S2:491:C:H3'	76:SY:104:ARG:HD2	1.91	0.52
47:S2:528:A:H2'	47:S2:529:A:N9	2.25	0.52
47:S2:568:C:C1'	47:S2:583:C:H42	2.22	0.52
47:S2:831:G:H2'	47:S2:832:G:C5'	2.40	0.52
47:S2:846:G:H2'	51:SE:19:MET:SD	2.49	0.52
47:S2:988:C:C4	47:S2:989:C:H5	2.27	0.52
47:S2:1223:A:OP1	52:SF:78:MET:HB3	2.10	0.52
47:S2:1309:C:H41	72:SM:39:ALA:N	2.07	0.52
47:S2:1405:A:H2'	47:S2:1406:G:C4'	2.40	0.52
47:S2:1551:U:H5"	47:S2:1553:C:OP1	2.09	0.52
47:S2:1673:U:C2'	47:S2:1674:G:H5'	2.39	0.52
47:S2:1810:U:H2'	47:S2:1811:C:H6	1.73	0.52
48:SA:30:LEU:HB2	48:SA:47:TYR:CZ	2.44	0.52
48:SA:176:TRP:HB2	48:SA:202:TYR:HD2	1.72	0.52
49:SB:146:ARG:CD	49:SB:147:ASN:H	2.23	0.52
50:SD:76:ARG:CB	55:SK:22:VAL:HG11	2.38	0.52
50:SD:119:CYS:CB	50:SD:152:PHE:HD2	2.22	0.52
51:SE:55:ALA:HB1	51:SE:60:GLU:HB3	1.90	0.52
52:SF:50:PRO:HB3	52:SF:73:THR:CG2	2.39	0.52
52:SF:165:ASN:HD21	52:SF:167:LYS:CD	2.23	0.52
52:SF:203:ASN:O	52:SF:204:ARG:HB2	2.10	0.52
54:SI:142:SER:O	54:SI:146:GLN:N	2.38	0.52
55:SK:64:TRP:C	55:SK:65:ARG:HG2	2.34	0.52
57:SP:60:LEU:HA	57:SP:63:ALA:CB	2.40	0.52
57:SP:98:ASN:HB3	60:SS:152:LYS:CG	2.37	0.52
58:SQ:32:ILE:CD1	58:SQ:60:LYS:HD3	2.39	0.52
61:ST:64:LEU:HD23	61:ST:64:LEU:O	2.09	0.52
65:Sa:12:LYS:HB2	65:Sa:33:ASP:OD2	2.09	0.52
74:SO:13:GLN:HB3	74:SO:14:VAL:HG22	1.91	0.52
74:SO:101:GLY:HA3	74:SO:134:PRO:CG	2.39	0.52
75:SW:86:LEU:HD23	75:SW:117:ARG:NH2	2.25	0.52
80:Sf:140:TYR:CE1	80:Sf:145:CYS:HB3	2.44	0.52
1:L5:21:G:N7	3:L8:36:G:N2	2.58	0.52
1:L5:130:C:N4	1:L5:131:C:H41	2.07	0.52
1:L5:138:G:H2'	1:L5:139:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:151:G:C6	10:LG:141:ASN:HB2	2.45	0.52
1:L5:302:C:O2'	1:L5:303:C:H5'	2.09	0.52
1:L5:310:G:O2'	1:L5:311:G:H5'	2.10	0.52
1:L5:508:G:N3	29:La:85:GLN:NE2	2.50	0.52
1:L5:513:U:H3	1:L5:516:C:N4	2.05	0.52
1:L5:642:G:H5"	1:L5:643:C:OP1	2.10	0.52
1:L5:666:G:O3'	1:L5:667:A:H3'	2.09	0.52
1:L5:729:G:C4'	1:L5:730:G:H5'	2.40	0.52
1:L5:737:C:N4	1:L5:927:G:H1	2.08	0.52
1:L5:1182:C:H3'	1:L5:1183:C:C5'	2.30	0.52
1:L5:1323:A:C2	1:L5:3879:G:C2	2.98	0.52
1:L5:1381:U:C2'	1:L5:1382:G:H5'	2.40	0.52
1:L5:1719:A:O2'	1:L5:1720:C:H5"	2.09	0.52
1:L5:1832:C:O2'	22:LT:116:LYS:NZ	2.29	0.52
1:L5:4090:G:H2'	1:L5:4091:G:O4'	2.09	0.52
1:L5:4280:A:H3'	1:L5:4280:A:N3	2.24	0.52
1:L5:4939:C:H5"	8:LE:219:LYS:HZ3	1.72	0.52
1:L5:5022:U:H3	1:L5:5025:C:H1'	1.74	0.52
4:LA:157:VAL:HG12	4:LA:157:VAL:O	2.09	0.52
5:LB:49:TYR:N	5:LB:79:VAL:HG13	2.24	0.52
6:LC:325:MET:O	6:LC:329:ASN:N	2.39	0.52
7:LD:36:LEU:HD12	7:LD:37:VAL:HG23	1.92	0.52
7:LD:216:GLU:OE2	7:LD:220:LYS:HG3	2.10	0.52
7:LD:222:GLN:HG3	7:LD:223:PHE:CE2	2.45	0.52
9:LF:85:ALA:CA	22:LT:138:ALA:HB3	2.40	0.52
12:LI:150:GLU:CA	12:LI:153:ARG:HG2	2.40	0.52
13:LJ:16:ARG:HH12	13:LJ:137:PRO:HA	1.75	0.52
14:LL:124:LEU:HD23	14:LL:125:ILE:O	2.10	0.52
16:LN:6:TYR:HE1	37:Li:40:VAL:HA	1.74	0.52
16:LN:47:LYS:O	16:LN:51:LEU:HD13	2.08	0.52
16:LN:71:ARG:HD2	16:LN:94:PHE:HD1	1.73	0.52
16:LN:127:TYR:HB3	16:LN:129:PHE:CE1	2.45	0.52
18:LP:24:VAL:CG1	18:LP:86:LYS:HG2	2.39	0.52
19:LQ:88:ASP:HB2	19:LQ:112:ARG:NH1	2.25	0.52
21:LS:4:SER:HB3	21:LS:111:ARG:HH12	1.75	0.52
21:LS:11:LYS:HE3	21:LS:63:TYR:HE2	1.75	0.52
24:LV:38:TYR:HB2	24:LV:66:LYS:HG2	1.91	0.52
27:LY:99:ILE:CD1	27:LY:104:VAL:HG13	2.40	0.52
33:Le:75:ARG:HD2	33:Le:95:TYR:HE1	1.73	0.52
36:Lh:62:ASN:HA	36:Lh:65:GLN:HG2	1.91	0.52
47:S2:65:C:OP2	70:SG:175:LYS:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:85:A:OP1	76:SY:119:GLY:HA3	2.10	0.52
47:S2:659:G:H5'	47:S2:660:C:OP1	2.09	0.52
47:S2:786:G:H3'	70:SG:234:LEU:O	2.09	0.52
47:S2:1082:A:H2'	47:S2:1084:A:OP1	2.10	0.52
47:S2:1096:G:C2'	47:S2:1097:G:H5'	2.40	0.52
47:S2:1276:A:N6	47:S2:1322:G:O2'	2.43	0.52
47:S2:1328:G:N1	47:S2:1500:G:O6	2.43	0.52
47:S2:1405:A:N3	47:S2:1406:G:H1'	2.24	0.52
47:S2:1416:C:H5'	47:S2:1417:C:C5'	2.34	0.52
47:S2:1450:G:H2'	47:S2:1451:G:H8	1.74	0.52
47:S2:1620:A:O2'	47:S2:1621:U:OP2	2.25	0.52
48:SA:55:TRP:CE2	48:SA:59:LEU:HD11	2.44	0.52
48:SA:91:ALA:HB1	48:SA:98:PRO:HD3	1.91	0.52
49:SB:40:ASN:HD22	49:SB:75:GLN:HG2	1.73	0.52
50:SD:24:PHE:CE1	55:SK:68:TYR:HD2	2.27	0.52
51:SE:11:ARG:NH1	51:SE:20:LEU:HB3	2.17	0.52
51:SE:90:ILE:HG22	51:SE:90:ILE:O	2.09	0.52
52:SF:119:SER:OG	52:SF:189:ALA:O	2.24	0.52
53:SH:20:GLU:O	53:SH:23:ILE:N	2.39	0.52
53:SH:130:LEU:HB3	53:SH:177:TYR:CE1	2.45	0.52
60:SS:35:GLY:HA2	60:SS:103:LEU:HD13	1.92	0.52
62:SU:48:LEU:HB3	62:SU:49:LYS:HB3	1.91	0.52
63:SV:23:ILE:HD11	69:SC:251:LEU:CD1	2.40	0.52
64:SX:49:GLY:O	64:SX:100:VAL:HG22	2.09	0.52
65:Sa:67:LEU:HD12	65:Sa:67:LEU:O	2.09	0.52
68:Sg:17:TRP:HZ2	68:Sg:36:ARG:NE	2.08	0.52
68:Sg:104:HIS:NE2	68:Sg:130:LYS:HE3	2.23	0.52
69:SC:183:LYS:HE2	69:SC:196:ILE:CD1	2.39	0.52
74:SO:23:GLU:HG2	74:SO:24:GLY:N	2.24	0.52
78:Sb:41:TYR:O	78:Sb:43:ILE:HG23	2.10	0.52
79:Se:43:VAL:HG12	79:Se:44:ASN:OD1	2.09	0.52
1:L5:149:A:C2	10:LG:138:ALA:HB3	2.44	0.52
1:L5:406:C:HO2'	1:L5:407:A:P	2.32	0.52
1:L5:500:G:H3'	1:L5:501:C:O4'	2.10	0.52
1:L5:699:C:O2'	1:L5:700:G:H5'	2.09	0.52
1:L5:1168:G:N3	1:L5:1168:G:C2'	2.70	0.52
1:L5:1241:C:C4	1:L5:1242:G:H1'	2.45	0.52
1:L5:1413:C:N4	1:L5:1414:C:O2	2.42	0.52
1:L5:1745:G:C2	1:L5:1786:A:C2	2.98	0.52
1:L5:1955:G:H2'	1:L5:1956:A:O4'	2.10	0.52
1:L5:2303:C:O3'	1:L5:2306:G:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2404:A:H61	1:L5:2787:A:H61	1.58	0.52
1:L5:2656:U:C5'	28:LZ:38:TYR:HB3	2.30	0.52
1:L5:2706:G:H1'	1:L5:2710:C:C2	2.45	0.52
1:L5:3599:A:H2'	1:L5:3600:G:C1'	2.40	0.52
1:L5:3661:G:H21	4:LA:126:LEU:HD23	1.74	0.52
1:L5:3765:G:N2	1:L5:3766:A:H5'	2.25	0.52
1:L5:3833:C:H2'	1:L5:3834:C:C6	2.45	0.52
1:L5:3905:A:N6	1:L5:4449:A:H2'	2.25	0.52
1:L5:4338:G:C6	1:L5:4375:C:H1'	2.45	0.52
1:L5:4644:G:N2	1:L5:4654:C:N3	2.58	0.52
1:L5:4900:C:O2'	1:L5:4901:G:OP1	2.23	0.52
1:L5:4936:G:N3	8:LE:239:LYS:HE3	2.25	0.52
2:L7:45:U:O2'	2:L7:46:C:H5'	2.09	0.52
3:L8:131:G:O2'	3:L8:132:G:H5'	2.10	0.52
5:LB:72:VAL:HG23	5:LB:72:VAL:O	2.10	0.52
5:LB:237:THR:HG22	5:LB:238:LYS:N	2.24	0.52
7:LD:211:LEU:HD22	7:LD:218:ALA:C	2.34	0.52
8:LE:162:VAL:CG2	8:LE:184:VAL:HG11	2.39	0.52
10:LG:147:VAL:CG1	10:LG:177:MET:HG3	2.39	0.52
10:LG:170:LEU:HB2	10:LG:171:PRO:HD3	1.91	0.52
12:LI:97:ILE:HG13	12:LI:126:VAL:CG1	2.40	0.52
12:LI:190:LEU:HD13	12:LI:197:VAL:HG22	1.91	0.52
13:LJ:13:ARG:CG	13:LJ:136:ARG:HE	2.23	0.52
13:LJ:139:PHE:CE1	13:LJ:151:ILE:HG21	2.45	0.52
16:LN:150:TRP:HH2	16:LN:159:ARG:HH12	1.58	0.52
17:LO:166:ILE:CA	17:LO:169:ARG:HG2	2.36	0.52
18:LP:9:GLU:OE1	18:LP:9:GLU:N	2.27	0.52
21:LS:36:ASN:OD1	21:LS:39:VAL:HG12	2.10	0.52
23:LU:66:SER:HB3	23:LU:69:LYS:O	2.10	0.52
25:LW:83:THR:HG23	70:SG:131:ARG:NE	2.25	0.52
31:Lc:22:MET:O	31:Lc:23:LYS:HB3	2.09	0.52
32:Ld:90:ARG:HG3	32:Ld:103:TYR:O	2.10	0.52
37:Li:86:LYS:O	37:Li:89:GLU:N	2.39	0.52
37:Li:102:ALA:HB3	46:Lz:10:LEU:HG	1.91	0.52
45:Lr:53:PRO:HD3	45:Lr:117:ILE:HD12	1.92	0.52
46:Lz:7:ARG:O	46:Lz:7:ARG:HG3	2.09	0.52
46:Lz:41:TYR:CE2	46:Lz:162:VAL:HA	2.45	0.52
47:S2:22:A:C2'	47:S2:23:G:H5'	2.39	0.52
47:S2:39:A:H2'	47:S2:40:A:C5'	2.39	0.52
47:S2:152:U:N3	47:S2:153:G:N7	2.57	0.52
47:S2:168:C:C2'	47:S2:169:U:H5'	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:220:U:H2'	47:S2:221:A:C8	2.43	0.52
47:S2:337:C:C3'	47:S2:338:G:H5"	2.40	0.52
47:S2:493:A:N6	47:S2:510:G:O2'	2.43	0.52
47:S2:616:A:N6	47:S2:625:G:H21	2.08	0.52
47:S2:682:U:OP2	64:SX:8:ARG:HB3	2.09	0.52
47:S2:748:C:H42	47:S2:751:G:H1'	1.74	0.52
47:S2:1700:C:C2	47:S2:1834:A:N6	2.78	0.52
49:SB:122:GLU:OE1	49:SB:140:VAL:HA	2.09	0.52
49:SB:128:LYS:HB3	49:SB:134:LEU:HD13	1.91	0.52
50:SD:68:GLU:O	50:SD:72:VAL:HG23	2.10	0.52
52:SF:127:ARG:HH11	66:Sc:45:ASN:HD22	1.57	0.52
53:SH:84:GLU:O	53:SH:88:SER:HB2	2.10	0.52
59:SR:116:ASN:C	59:SR:117:LEU:HD12	2.34	0.52
62:SU:49:LYS:HG2	62:SU:92:HIS:NE2	2.25	0.52
66:Sc:44:ARG:NH2	66:Sc:63:ARG:H	2.08	0.52
68:Sg:39:THR:H	68:Sg:66:VAL:HG21	1.74	0.52
68:Sg:69:VAL:HG23	68:Sg:79:LEU:O	2.10	0.52
69:SC:108:LYS:HG2	69:SC:109:ILE:H	1.75	0.52
70:SG:34:THR:O	70:SG:51:ARG:HA	2.10	0.52
70:SG:160:LYS:NZ	70:SG:172:LYS:HE2	2.24	0.52
73:SN:16:LEU:HD11	73:SN:65:PHE:HZ	1.72	0.52
74:SO:61:LYS:HB3	74:SO:76:LEU:HD11	1.90	0.52
78:Sb:18:LYS:O	78:Sb:22:LYS:HB2	2.10	0.52
1:L5:1:C:H3'	26:LX:37:LYS:HG2	1.92	0.52
1:L5:451:C:H1'	1:L5:1295:C:C6	2.44	0.52
1:L5:500:G:N2	1:L5:501:C:OP1	2.41	0.52
1:L5:975:C:H42	1:L5:976:G:N2	2.08	0.52
1:L5:990:C:H3'	1:L5:992:C:C5	2.45	0.52
1:L5:994:G:H3'	1:L5:994:G:N3	2.24	0.52
1:L5:1244:G:H1'	1:L5:2111:G:H22	1.74	0.52
1:L5:1669:A:N3	1:L5:1852:U:O2'	2.42	0.52
1:L5:1729:A:N7	1:L5:1730:U:N3	2.57	0.52
1:L5:2022:C:H3'	1:L5:2023:C:H5"	1.92	0.52
1:L5:2373:C:O2'	32:Ld:64:ILE:HD11	2.09	0.52
1:L5:2395:A:N3	1:L5:2806:A:O2'	2.37	0.52
1:L5:3649:A:C2	1:L5:3650:C:C2	2.98	0.52
1:L5:4144:C:H4'	1:L5:4145:C:OP1	2.10	0.52
1:L5:4225:G:O2'	1:L5:4226:G:H5'	2.09	0.52
1:L5:4230:C:OP1	43:Lo:89:LYS:HB2	2.10	0.52
2:L7:61:G:H2'	2:L7:62:U:C6	2.44	0.52
6:LC:319:LEU:HD21	9:LF:152:GLU:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LD:207:TYR:HA	7:LD:210:TYR:HB3	1.92	0.52
9:LF:76:ARG:C	9:LF:79:GLY:H	2.18	0.52
9:LF:93:ILE:O	9:LF:140:ILE:HB	2.10	0.52
10:LG:231:ASP:OD1	10:LG:232:GLU:N	2.43	0.52
12:LI:169:LYS:HD2	12:LI:170:LYS:HZ1	1.72	0.52
13:LJ:86:GLY:C	13:LJ:87:LEU:HD12	2.35	0.52
14:LL:169:ILE:HD13	29:La:143:ALA:HB2	1.92	0.52
16:LN:33:LEU:HD23	16:LN:37:HIS:CD2	2.44	0.52
19:LQ:12:LYS:HB2	19:LQ:14:ARG:HH22	1.73	0.52
19:LQ:33:ARG:HA	19:LQ:48:LEU:HD11	1.91	0.52
19:LQ:67:ILE:HD12	19:LQ:95:VAL:HG13	1.91	0.52
20:LR:40:GLN:O	20:LR:43:LYS:HB3	2.10	0.52
25:LW:82:ILE:HG22	25:LW:83:THR:N	2.24	0.52
27:LY:73:VAL:HG12	27:LY:74:TYR:H	1.75	0.52
32:Ld:122:VAL:HG22	32:Ld:123:ASP:O	2.10	0.52
33:Le:98:GLU:HG3	33:Le:123:THR:HB	1.91	0.52
37:Li:47:VAL:HG12	37:Li:48:CYS:N	2.24	0.52
42:Ln:11:ARG:HH11	42:Ln:11:ARG:CG	2.13	0.52
47:S2:525:A:H5”	79:Se:28:LYS:HE3	1.92	0.52
47:S2:1035:A:O2’	47:S2:1036:A:H5’	2.10	0.52
47:S2:1206:G:C4	47:S2:1693:G:N2	2.78	0.52
47:S2:1317:C:H5”	47:S2:1318:G:C8	2.39	0.52
47:S2:1413:G:O2’	47:S2:1415:C:OP2	2.28	0.52
50:SD:168:VAL:HA	50:SD:188:ILE:O	2.10	0.52
53:SH:11:PRO:HD2	53:SH:45:ILE:O	2.09	0.52
57:SP:97:TYR:CD1	57:SP:100:LYS:HG2	2.45	0.52
58:SQ:28:GLY:H	58:SQ:67:ASP:H	1.58	0.52
58:SQ:34:VAL:HG12	58:SQ:35:ASN:OD1	2.10	0.52
58:SQ:63:PHE:HA	58:SQ:66:VAL:HG22	1.92	0.52
58:SQ:70:VAL:HG21	58:SQ:88:ILE:HG22	1.90	0.52
60:SS:65:GLU:HA	60:SS:68:ILE:CD1	2.40	0.52
64:SX:128:VAL:HG21	64:SX:138:LYS:CB	2.39	0.52
68:Sg:30:MET:HG2	68:Sg:71:ILE:HD13	1.92	0.52
68:Sg:78:ALA:HB2	68:Sg:92:LEU:HD11	1.90	0.52
68:Sg:257:LYS:C	68:Sg:258:ILE:HD12	2.34	0.52
69:SC:227:ARG:CG	69:SC:228:GLY:N	2.69	0.52
70:SG:35:GLU:CG	70:SG:51:ARG:HB2	2.30	0.52
76:SY:27:VAL:CG1	76:SY:29:HIS:HD2	2.22	0.52
78:Sb:65:GLN:CB	78:Sb:72:ARG:HB3	2.31	0.52
1:L5:74:G:O5’	14:LL:59:VAL:HG13	2.10	0.52
1:L5:127:G:H2’	1:L5:128:C:O4’	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:181:C:H2'	1:L5:182:G:C8	2.45	0.52
1:L5:1334:A:O2'	1:L5:1335:G:H5'	2.10	0.52
1:L5:1366:G:H1	6:LC:218:ILE:CG1	2.19	0.52
1:L5:1613:A:C2	4:LA:196:TRP:HH2	2.28	0.52
1:L5:1669:A:OP1	30:Lb:18:ARG:NH1	2.42	0.52
1:L5:1933:G:H21	1:L5:2058:G:H4'	1.75	0.52
1:L5:2029:A:H2'	1:L5:2030:A:C8	2.42	0.52
1:L5:2406:G:O2'	1:L5:2791:C:H5"	2.08	0.52
1:L5:4585:U:O4	1:L5:4718:G:N2	2.41	0.52
1:L5:4928:C:C2'	1:L5:4929:C:H5'	2.40	0.52
2:L7:74:A:H5'	2:L7:76:U:C1'	2.39	0.52
3:L8:22:U:OP2	6:LC:196:MET:HG2	2.10	0.52
3:L8:104:A:OP1	3:L8:105:C:N4	2.41	0.52
3:L8:127:U:H3'	3:L8:127:U:H6	1.75	0.52
4:LA:65:ASP:OD1	4:LA:66:PRO:HD2	2.10	0.52
4:LA:80:GLU:HG2	44:Lp:76:ALA:CB	2.40	0.52
4:LA:124:GLY:O	4:LA:125:LYS:HD2	2.10	0.52
5:LB:111:SER:OG	5:LB:114:CYS:SG	2.67	0.52
5:LB:206:PRO:HD2	5:LB:209:GLN:OE1	2.09	0.52
7:LD:70:GLU:N	7:LD:70:GLU:OE1	2.43	0.52
7:LD:207:TYR:HA	7:LD:210:TYR:CB	2.40	0.52
11:LH:17:ASP:OD1	11:LH:18:ILE:N	2.44	0.52
12:LI:145:GLU:O	12:LI:148:VAL:HG22	2.10	0.52
13:LJ:81:GLU:O	13:LJ:85:LYS:NZ	2.38	0.52
14:LL:90:VAL:O	14:LL:93:THR:OG1	2.26	0.52
28:LZ:23:ALA:CB	28:LZ:45:GLY:HA3	2.40	0.52
30:Lb:64:ALA:HA	30:Lb:67:ALA:HB3	1.91	0.52
36:Lh:28:LEU:O	36:Lh:31:LEU:N	2.42	0.52
38:Lj:69:ILE:HG13	38:Lj:70:VAL:N	2.23	0.52
44:Lp:86:LEU:O	44:Lp:89:LEU:HB3	2.10	0.52
47:S2:91:A:H5"	47:S2:92:A:C5'	2.40	0.52
47:S2:303:C:H5"	54:SI:75:LYS:HE2	1.92	0.52
47:S2:354:U:P	56:SL:107:LYS:HD2	2.50	0.52
47:S2:593:C:OP1	47:S2:593:C:H3'	2.10	0.52
47:S2:942:G:H5"	47:S2:943:U:OP2	2.10	0.52
47:S2:1038:U:O2'	47:S2:1039:C:H5'	2.09	0.52
47:S2:1126:G:N3	47:S2:1126:G:H2'	2.25	0.52
47:S2:1199:A:OP1	65:Sa:2:THR:OG1	2.27	0.52
47:S2:1314:U:H1'	55:SK:3:MET:HE1	1.90	0.52
47:S2:1606:G:H22	47:S2:1632:G:C1'	2.23	0.52
47:S2:1608:U:O2'	47:S2:1609:C:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:30:LEU:HD21	48:SA:35:GLU:HB3	1.91	0.52
48:SA:61:ALA:CB	48:SA:145:ILE:HD11	2.40	0.52
49:SB:28:LYS:HB2	49:SB:48:LEU:HD11	1.91	0.52
49:SB:40:ASN:ND2	49:SB:75:GLN:HG2	2.25	0.52
50:SD:208:VAL:HG12	50:SD:209:SER:N	2.25	0.52
51:SE:15:PRO:HD2	51:SE:18:TRP:CZ3	2.44	0.52
55:SK:32:HIS:CE1	55:SK:33:PRO:HD2	2.45	0.52
55:SK:47:LYS:O	55:SK:50:GLN:HG2	2.09	0.52
64:SX:93:PHE:HE2	64:SX:134:TYR:HA	1.74	0.52
64:SX:128:VAL:HG21	64:SX:138:LYS:HG3	1.92	0.52
65:Sa:27:ALA:HB2	74:SO:142:ARG:NH1	2.25	0.52
68:Sg:143:GLN:HG2	68:Sg:144:ASP:N	2.21	0.52
68:Sg:156:PHE:HE1	68:Sg:165:ILE:HG22	1.73	0.52
68:Sg:298:LEU:HD23	68:Sg:310:TRP:CE3	2.45	0.52
69:SC:116:THR:OG1	69:SC:119:GLY:O	2.28	0.52
69:SC:165:VAL:HG21	69:SC:217:ALA:HB1	1.91	0.52
69:SC:244:ILE:O	69:SC:247:THR:HG23	2.09	0.52
72:SM:27:ILE:O	72:SM:29:ASP:N	2.41	0.52
74:SO:94:HIS:ND1	74:SO:127:GLY:O	2.30	0.52
80:Sf:141:CYS:HB2	80:Sf:146:LEU:N	2.24	0.52
1:L5:145:G:H2'	1:L5:146:G:C8	2.45	0.51
1:L5:185:C:H4'	1:L5:185:C:OP1	2.10	0.51
1:L5:278:G:H4'	1:L5:279:A:OP2	2.08	0.51
1:L5:279:A:C5	16:LN:12:ARG:HG3	2.45	0.51
1:L5:390:C:H2'	1:L5:391:U:H5'	1.91	0.51
1:L5:658:C:H2'	1:L5:659:G:C8	2.38	0.51
1:L5:712:C:H42	1:L5:956:A:N6	2.06	0.51
1:L5:715:G:C2'	1:L5:716:C:H5'	2.41	0.51
1:L5:1181:C:H5'	1:L5:1182:C:P	2.50	0.51
1:L5:1202:C:H3'	1:L5:1203:G:C4'	2.38	0.51
1:L5:1237:C:OP2	8:LE:60:SER:OG	2.28	0.51
1:L5:1331:C:H42	1:L5:2355:G:H1	1.57	0.51
1:L5:1349:G:O2'	1:L5:1350:C:H5'	2.10	0.51
1:L5:1918:U:H5"	34:Lf:80:ASN:HD22	1.74	0.51
1:L5:2079:G:H4'	33:Le:58:ILE:HG12	1.92	0.51
1:L5:2115:G:O3'	1:L5:2116:C:H4'	2.10	0.51
1:L5:2323:C:O2'	1:L5:2324:C:H5'	2.10	0.51
1:L5:2340:C:C2'	1:L5:2341:A:H5'	2.39	0.51
1:L5:2468:U:H1'	1:L5:2469:C:C5	2.44	0.51
1:L5:2725:A:H3'	1:L5:2726:G:H5'	1.90	0.51
1:L5:3713:U:H4'	1:L5:3714:G:OP2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4315:A:C2'	1:L5:4316:G:H5'	2.40	0.51
1:L5:4375:C:H5"	1:L5:4376:A:OP1	2.10	0.51
1:L5:4518:A:OP1	1:L5:4520:G:H4'	2.10	0.51
1:L5:4733:C:C2'	1:L5:4734:A:H5'	2.39	0.51
1:L5:4944:C:O2	34:Lf:71:TRP:NE1	2.43	0.51
1:L5:5036:C:H2'	1:L5:5037:U:H5'	1.91	0.51
5:LB:71:GLU:HG3	25:LW:1:MET:H1	1.74	0.51
5:LB:114:CYS:SG	5:LB:165:HIS:CG	3.03	0.51
8:LE:195:ILE:CD1	34:Lf:105:LEU:HD23	2.39	0.51
10:LG:87:LEU:HD22	10:LG:184:ILE:HD11	1.91	0.51
10:LG:162:ASP:HB3	10:LG:163:PRO:CD	2.38	0.51
10:LG:251:ALA:O	10:LG:254:GLU:HB3	2.10	0.51
13:LJ:51:SER:H	13:LJ:69:ALA:HB3	1.76	0.51
15:LM:31:ILE:HG22	15:LM:31:ILE:O	2.10	0.51
16:LN:14:LYS:HA	16:LN:19:MET:HG2	1.92	0.51
16:LN:22:LEU:HB3	16:LN:26:ARG:NH1	2.23	0.51
17:LO:10:ASP:OD1	17:LO:37:ARG:HD3	2.10	0.51
18:LP:115:GLU:HB3	18:LP:149:ILE:O	2.10	0.51
18:LP:116:HIS:HB3	18:LP:149:ILE:CG1	2.41	0.51
19:LQ:5:ILE:HG12	19:LQ:6:ARG:H	1.76	0.51
27:LY:44:VAL:HG13	27:LY:122:LYS:HD3	1.92	0.51
28:LZ:54:THR:N	28:LZ:57:MET:SD	2.82	0.51
28:LZ:61:LYS:NZ	28:LZ:65:ARG:HD2	2.25	0.51
32:Ld:87:ARG:NH2	32:Ld:122:VAL:HG21	2.24	0.51
33:Le:30:LYS:C	33:Le:31:ILE:HD13	2.35	0.51
36:Lh:81:LEU:HD23	36:Lh:84:ARG:NH2	2.25	0.51
47:S2:643:A:H4'	47:S2:644:G:OP1	2.10	0.51
47:S2:733:C:H2'	47:S2:734:C:N1	2.25	0.51
47:S2:838:G:H1'	47:S2:839:C:H5'	1.92	0.51
47:S2:1380:C:H1'	48:SA:113:GLN:HE21	1.75	0.51
47:S2:1497:G:O6	55:SK:25:LYS:HD3	2.10	0.51
48:SA:19:LEU:O	59:SR:96:ILE:HD11	2.10	0.51
49:SB:197:ILE:HD11	49:SB:210:VAL:HG21	1.92	0.51
50:SD:20:GLU:HB2	55:SK:64:TRP:CH2	2.45	0.51
50:SD:48:ILE:HG13	50:SD:48:ILE:O	2.10	0.51
51:SE:71:LYS:HD3	51:SE:74:GLY:CA	2.41	0.51
57:SP:81:ARG:HB2	57:SP:96:VAL:HG13	1.91	0.51
58:SQ:97:GLN:OE1	58:SQ:105:LYS:HD3	2.09	0.51
60:SS:94:LYS:HG2	60:SS:95:TYR:O	2.09	0.51
62:SU:33:GLU:O	62:SU:37:ALA:HB3	2.09	0.51
66:Sc:14:VAL:HG12	66:Sc:32:VAL:CG1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Sc:44:ARG:NH1	66:Sc:63:ARG:HG3	2.25	0.51
68:Sg:220:ASP:CG	68:Sg:227:LEU:HD11	2.35	0.51
68:Sg:267:VAL:O	68:Sg:268:ASP:HB2	2.10	0.51
69:SC:63:VAL:HG23	69:SC:64:THR:H	1.75	0.51
69:SC:84:PHE:CZ	69:SC:264:SER:HB2	2.46	0.51
74:SO:44:VAL:HG21	74:SO:81:VAL:CG1	2.35	0.51
74:SO:116:LEU:O	74:SO:116:LEU:HD23	2.09	0.51
75:SW:31:SER:OG	75:SW:33:VAL:HG12	2.10	0.51
76:SY:128:GLY:O	76:SY:131:PRO:HG2	2.10	0.51
1:L5:349:A:N6	6:LC:46:LYS:HB3	2.25	0.51
1:L5:652:G:O3'	19:LQ:115:ARG:NH1	2.43	0.51
1:L5:742:G:C2	1:L5:743:G:H1'	2.46	0.51
1:L5:1266:G:N1	1:L5:1268:G:H8	2.08	0.51
1:L5:1586:G:N2	1:L5:1608:G:C4	2.79	0.51
1:L5:1652:U:H6	1:L5:1652:U:H3'	1.75	0.51
1:L5:2877:G:N2	1:L5:3824:A:O2'	2.42	0.51
1:L5:3721:U:C2'	1:L5:3722:G:H5'	2.40	0.51
5:LB:293:ILE:HG13	5:LB:294:LYS:H	1.75	0.51
6:LC:279:LEU:HD23	6:LC:280:PRO:N	2.25	0.51
7:LD:257:PRO:O	7:LD:258:LYS:HD2	2.11	0.51
9:LF:59:LYS:NZ	9:LF:63:GLN:OE1	2.43	0.51
13:LJ:100:SER:O	13:LJ:159:LYS:HD3	2.10	0.51
20:LR:102:LEU:HD11	20:LR:127:VAL:CG1	2.37	0.51
24:LV:42:VAL:HG13	24:LV:45:ILE:HG13	1.92	0.51
24:LV:83:ARG:NH1	24:LV:118:THR:O	2.42	0.51
25:LW:102:LYS:HG3	25:LW:105:ARG:NH2	2.25	0.51
27:LY:71:VAL:HG12	27:LY:81:TYR:O	2.10	0.51
28:LZ:33:THR:HG21	28:LZ:37:PRO:HA	1.92	0.51
34:Lf:46:ARG:HD2	34:Lf:106:TYR:CD2	2.44	0.51
37:Li:59:GLU:HA	37:Li:62:LYS:HD3	1.91	0.51
47:S2:480:G:H3'	47:S2:481:C:C6	2.46	0.51
47:S2:524:U:H5	79:Se:30:GLY:HA3	1.76	0.51
47:S2:847:A:H3'	47:S2:848:U:C6	2.45	0.51
47:S2:881:G:H2'	47:S2:882:U:C5	2.46	0.51
47:S2:886:A:H2'	47:S2:887:U:C5'	2.39	0.51
47:S2:1350:U:H2'	47:S2:1351:G:H8	1.75	0.51
47:S2:1692:U:H1'	65:Sa:86:ASN:ND2	2.24	0.51
48:SA:56:GLU:HB3	63:SV:83:PHE:CD1	2.46	0.51
49:SB:33:VAL:HG22	49:SB:96:CYS:SG	2.50	0.51
58:SQ:34:VAL:C	58:SQ:36:GLY:H	2.17	0.51
58:SQ:41:MET:O	58:SQ:42:ILE:HG22	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:111:ILE:HG22	58:SQ:111:ILE:O	2.10	0.51
59:SR:53:TYR:O	59:SR:56:HIS:HB3	2.10	0.51
61:ST:28:LEU:HD13	61:ST:54:TYR:CE1	2.46	0.51
68:Sg:22:ALA:CB	68:Sg:70:VAL:HG13	2.39	0.51
68:Sg:78:ALA:CB	68:Sg:90:TRP:HB2	2.39	0.51
68:Sg:248:LEU:CD2	68:Sg:257:LYS:HG2	2.40	0.51
72:SM:123:VAL:CG2	72:SM:124:ILE:H	2.19	0.51
73:SN:33:VAL:HG22	73:SN:67:THR:HG21	1.92	0.51
76:SY:24:VAL:HG22	76:SY:72:PHE:CD1	2.45	0.51
76:SY:114:MET:HE3	76:SY:124:ASN:C	2.35	0.51
1:L5:404:U:H2'	1:L5:405:U:C5'	2.33	0.51
1:L5:428:G:O2'	1:L5:429:A:H5'	2.10	0.51
1:L5:448:G:C2	1:L5:449:C:H1'	2.46	0.51
1:L5:467:U:N3	1:L5:468:U:H1'	2.25	0.51
1:L5:1212:G:H4'	9:LF:63:GLN:HE22	1.75	0.51
1:L5:1272:C:O3'	8:LE:74:SER:OG	2.27	0.51
1:L5:1280:C:H3'	1:L5:1280:C:H6	1.75	0.51
1:L5:1543:G:C2'	1:L5:1544:G:H5'	2.40	0.51
1:L5:1738:A:O2'	2:L7:101:A:N3	2.43	0.51
1:L5:1825:A:O2'	1:L5:1826:G:H5'	2.09	0.51
1:L5:2079:G:C4'	33:Le:58:ILE:HG12	2.41	0.51
1:L5:2372:U:O2'	32:Ld:46:LEU:HD13	2.10	0.51
1:L5:2546:G:H3'	1:L5:2547:G:H5"	1.92	0.51
1:L5:2547:G:C2	1:L5:2548:C:H1'	2.44	0.51
1:L5:2560:C:H2'	1:L5:2561:C:O4'	2.09	0.51
1:L5:2652:G:HO2'	1:L5:2653:C:P	2.34	0.51
1:L5:2655:C:N3	1:L5:2680:G:N2	2.58	0.51
1:L5:2755:A:OP2	28:LZ:65:ARG:NH1	2.36	0.51
1:L5:2768:C:H4'	1:L5:2769:U:OP2	2.10	0.51
1:L5:3651:A:N6	1:L5:3652:A:C6	2.79	0.51
1:L5:3803:A:H2'	1:L5:3804:G:H5'	1.92	0.51
1:L5:4158:C:H2'	1:L5:4159:C:C6	2.45	0.51
1:L5:4232:U:H4'	1:L5:4233:A:O5'	2.10	0.51
1:L5:4600:G:H4'	1:L5:4601:U:O5'	2.11	0.51
1:L5:4997:G:O2'	1:L5:4998:G:H5'	2.10	0.51
1:L5:5039:U:H5"	1:L5:5040:U:H5"	1.92	0.51
3:L8:53:G:O3'	40:Ll:40:LYS:NZ	2.21	0.51
4:LA:31:ALA:HB2	4:LA:123:ARG:NH2	2.25	0.51
4:LA:80:GLU:HG2	44:Lp:76:ALA:HB1	1.92	0.51
4:LA:92:LYS:HA	4:LA:103:PRO:HD2	1.91	0.51
6:LC:232:VAL:O	6:LC:233:SER:OG	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:50:ILE:O	9:LF:53:LYS:N	2.42	0.51
9:LF:225:THR:CG2	9:LF:231:GLY:HA3	2.26	0.51
14:LL:76:PHE:CB	14:LL:81:LEU:HD11	2.41	0.51
14:LL:87:HIS:HB3	14:LL:90:VAL:CG2	2.41	0.51
15:LM:40:GLY:CA	15:LM:43:THR:HG22	2.38	0.51
29:La:76:ASP:HB2	29:La:114:LYS:O	2.10	0.51
29:La:83:SER:O	29:La:86:THR:HB	2.10	0.51
36:Lh:51:ARG:C	36:Lh:54:ILE:HG22	2.35	0.51
36:Lh:66:LYS:O	36:Lh:70:ARG:N	2.41	0.51
39:Lk:23:VAL:O	39:Lk:23:VAL:HG13	2.10	0.51
45:Lr:31:ASN:CB	45:Lr:34:ALA:HA	2.40	0.51
47:S2:67:C:O2'	47:S2:68:A:OP2	2.20	0.51
47:S2:157:U:C4'	70:SG:59:GLN:HA	2.33	0.51
47:S2:213:G:O2'	47:S2:214:U:H5'	2.10	0.51
47:S2:302:A:OP1	54:SI:74:ARG:NH1	2.43	0.51
47:S2:537:C:H3'	47:S2:538:U:H5"	1.89	0.51
47:S2:1056:U:H2'	47:S2:1057:C:O2	2.11	0.51
47:S2:1165:G:H21	64:SX:23:HIS:HB2	1.74	0.51
47:S2:1270:G:H22	47:S2:1513:C:H1'	1.75	0.51
47:S2:1281:G:C8	72:SM:101:ARG:HB3	2.45	0.51
47:S2:1485:U:H2'	47:S2:1486:A:O4'	2.10	0.51
47:S2:1491:G:C1'	62:SU:72:GLU:H	2.15	0.51
47:S2:1661:A:H2'	47:S2:1662:U:H5'	1.92	0.51
47:S2:1676:U:H2'	47:S2:1677:U:C5'	2.39	0.51
47:S2:1676:U:C2'	47:S2:1677:U:H5'	2.40	0.51
47:S2:1778:C:OP1	47:S2:1778:C:H4'	2.10	0.51
48:SA:22:GLY:O	48:SA:24:HIS:N	2.41	0.51
48:SA:63:ARG:HA	48:SA:185:MET:CE	2.40	0.51
50:SD:62:LYS:HB2	55:SK:95:ARG:HH21	1.74	0.51
50:SD:225:GLU:OE1	50:SD:225:GLU:N	2.41	0.51
51:SE:44:LEU:HG	51:SE:48:LEU:HD13	1.92	0.51
55:SK:22:VAL:HA	55:SK:68:TYR:HD1	1.70	0.51
56:SL:113:LEU:HD23	56:SL:114:SER:O	2.10	0.51
56:SL:118:ARG:HG2	56:SL:119:ASP:OD1	2.11	0.51
57:SP:24:GLN:HA	57:SP:27:ASP:HB3	1.92	0.51
61:ST:42:HIS:NE2	61:ST:81:GLY:N	2.58	0.51
68:Sg:7:LEU:HD21	68:Sg:310:TRP:CE2	2.45	0.51
68:Sg:68:ASP:HB3	68:Sg:81:GLY:CA	2.33	0.51
68:Sg:165:ILE:HD11	68:Sg:177:TRP:CD1	2.46	0.51
68:Sg:248:LEU:CB	68:Sg:259:TRP:HB2	2.40	0.51
68:Sg:298:LEU:HB3	68:Sg:310:TRP:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:SJ:136:ARG:NH1	71:SJ:139:LYS:HA	2.25	0.51
72:SM:52:GLN:HE21	72:SM:78:LYS:CD	2.23	0.51
73:SN:84:LEU:CD1	73:SN:85:PRO:HD2	2.40	0.51
74:SO:76:LEU:HD12	74:SO:76:LEU:C	2.36	0.51
75:SW:81:VAL:HG21	75:SW:125:ILE:HG13	1.93	0.51
76:SY:79:LEU:HA	76:SY:82:ALA:CB	2.40	0.51
1:L5:19:G:H2'	1:L5:20:U:H6	1.76	0.51
1:L5:184:U:C5	1:L5:255:C:H1'	2.45	0.51
1:L5:225:G:H5'	1:L5:243:A:H1'	1.92	0.51
1:L5:643:C:H3'	1:L5:643:C:C6	2.44	0.51
1:L5:644:G:H8	1:L5:644:G:OP2	1.93	0.51
1:L5:747:A:O2'	1:L5:748:G:P	2.68	0.51
1:L5:1453:G:C2'	1:L5:1454:G:H5'	2.40	0.51
1:L5:1556:C:N4	1:L5:1571:G:H1	2.08	0.51
1:L5:1673:U:O2'	1:L5:4304:A:N7	2.41	0.51
1:L5:2025:A:N3	1:L5:2026:A:O2'	2.31	0.51
1:L5:2025:A:N3	1:L5:2026:A:H1'	2.26	0.51
1:L5:2543:A:H2'	1:L5:2546:G:H21	1.75	0.51
1:L5:2650:G:C2'	1:L5:2651:C:H5'	2.41	0.51
1:L5:2738:C:N3	1:L5:2741:U:N3	2.57	0.51
1:L5:2753:G:H8	1:L5:2753:G:OP2	1.93	0.51
1:L5:3603:G:H5"	1:L5:3604:A:OP2	2.10	0.51
1:L5:3715:U:H3'	1:L5:3715:U:O2	2.11	0.51
1:L5:4083:U:C2'	1:L5:4084:G:C5'	2.83	0.51
1:L5:4454:G:O2'	1:L5:4455:G:O5'	2.19	0.51
1:L5:4734:A:O2'	1:L5:4735:G:H5'	2.11	0.51
4:LA:5:ILE:HD12	4:LA:235:VAL:HG11	1.92	0.51
5:LB:52:GLY:HA3	5:LB:320:PHE:CD1	2.45	0.51
5:LB:91:GLY:HA2	5:LB:160:ILE:CG2	2.31	0.51
5:LB:205:VAL:HG13	5:LB:209:GLN:OE1	2.09	0.51
5:LB:291:TYR:O	5:LB:292:LEU:HD12	2.10	0.51
6:LC:313:VAL:O	6:LC:313:VAL:HG13	2.10	0.51
9:LF:182:TYR:CD2	9:LF:203:GLU:HG2	2.44	0.51
10:LG:159:HIS:NE2	10:LG:185:LYS:HG2	2.24	0.51
11:LH:59:LYS:HE2	11:LH:66:GLU:HG3	1.93	0.51
11:LH:86:LEU:HD23	11:LH:188:GLN:NE2	2.22	0.51
13:LJ:159:LYS:O	13:LJ:163:MET:HG3	2.10	0.51
14:LL:124:LEU:HD21	36:Lh:119:TYR:HB2	1.91	0.51
16:LN:134:LEU:O	16:LN:135:ILE:HG13	2.11	0.51
20:LR:147:ALA:O	20:LR:151:ARG:HG2	2.10	0.51
27:LY:10:ASP:HB2	27:LY:13:LYS:CD	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Le:108:ARG:CA	33:Le:111:ILE:HG22	2.35	0.51
33:Le:112:VAL:O	33:Le:116:ALA:N	2.40	0.51
34:Lf:15:LYS:NZ	34:Lf:22:ARG:HG3	2.25	0.51
43:Lo:70:LEU:C	43:Lo:70:LEU:HD12	2.35	0.51
44:Lp:8:VAL:O	44:Lp:27:LYS:HE2	2.10	0.51
47:S2:11:A:N3	47:S2:1357:A:O2'	2.39	0.51
47:S2:361:U:H4'	47:S2:362:C:C5'	2.40	0.51
47:S2:463:C:O2'	47:S2:464:A:H5"	2.10	0.51
47:S2:474:G:H21	47:S2:507:G:HO2'	1.53	0.51
47:S2:562:U:O2'	47:S2:563:G:O5'	2.28	0.51
47:S2:934:G:OP1	47:S2:934:G:H8	1.92	0.51
47:S2:1183:A:O2'	47:S2:1184:G:H5'	2.11	0.51
47:S2:1272:C:H5"	47:S2:1273:C:O2	2.10	0.51
47:S2:1443:C:H3'	47:S2:1444:U:C6	2.46	0.51
47:S2:1624:U:C2'	47:S2:1625:U:H5'	2.40	0.51
47:S2:1634:A:C2	47:S2:1635:C:H1'	2.45	0.51
47:S2:1756:C:N4	47:S2:1776:G:O6	2.31	0.51
49:SB:119:THR:CG2	49:SB:120:MET:H	2.17	0.51
50:SD:23:GLU:OE1	50:SD:24:PHE:N	2.44	0.51
50:SD:41:VAL:HA	50:SD:46:THR:CB	2.41	0.51
50:SD:109:LEU:HD11	50:SD:182:LEU:CD1	2.40	0.51
52:SF:38:TYR:C	52:SF:40:ALA:H	2.18	0.51
53:SH:101:LEU:HG	53:SH:120:ARG:HB3	1.92	0.51
53:SH:146:VAL:HG11	75:SW:42:MET:HE1	1.92	0.51
56:SL:5:GLN:CD	56:SL:11:GLN:H	2.18	0.51
61:ST:72:VAL:HG23	61:ST:100:ALA:CB	2.41	0.51
64:SX:101:LEU:HB3	64:SX:123:VAL:O	2.09	0.51
65:Sa:101:PHE:HA	65:Sa:106:ALA:HB2	1.92	0.51
66:Sc:14:VAL:HA	66:Sc:32:VAL:HA	1.93	0.51
68:Sg:253:GLY:HA2	68:Sg:285:GLN:CB	2.41	0.51
70:SG:5:ILE:HA	70:SG:111:LEU:HB2	1.90	0.51
71:SJ:16:PRO:HB3	71:SJ:24:ARG:CD	2.41	0.51
71:SJ:37:LEU:HD21	71:SJ:106:LEU:HD21	1.91	0.51
71:SJ:69:ARG:NH1	71:SJ:73:GLU:OE2	2.43	0.51
73:SN:56:ASP:CG	73:SN:57:SER:H	2.12	0.51
73:SN:88:LEU:HB2	73:SN:125:LEU:HD21	1.93	0.51
1:L5:113:A:H2'	1:L5:114:G:C5'	2.40	0.51
1:L5:302:C:OP1	16:LN:68:ARG:NE	2.44	0.51
1:L5:318:A:O2'	1:L5:3727:A:H1'	2.11	0.51
1:L5:432:U:H4'	1:L5:433:A:H5"	1.91	0.51
1:L5:674:G:O2'	1:L5:675:C:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:686:A:OP1	8:LE:97:GLY:HA3	2.10	0.51
1:L5:701:G:H5"	8:LE:121:VAL:CG2	2.37	0.51
1:L5:933:G:H21	1:L5:939:G:H2'	1.74	0.51
1:L5:1329:G:C2'	1:L5:1330:A:H5"	2.40	0.51
1:L5:2061:U:C4	1:L5:2062:C:C5	2.99	0.51
1:L5:2520:C:O2'	1:L5:2640:G:O2'	2.19	0.51
1:L5:2706:G:H1'	1:L5:2710:C:O2	2.11	0.51
1:L5:2851:G:N1	1:L5:2852:U:O2	2.44	0.51
1:L5:3765:G:H21	1:L5:3766:A:H5'	1.74	0.51
1:L5:3782:C:N4	1:L5:3809:G:N3	2.59	0.51
1:L5:4107:G:H2'	1:L5:4108:G:H5"	1.93	0.51
1:L5:4301:U:H4'	22:LT:54:HIS:HE2	1.71	0.51
1:L5:4397:A:H2'	1:L5:4397:A:N3	2.23	0.51
1:L5:4472:G:N2	1:L5:4484:A:H1'	2.25	0.51
1:L5:4476:C:H2'	1:L5:4476:C:O2	2.10	0.51
1:L5:4909:A:H4'	1:L5:4910:G:O5'	2.09	0.51
3:L8:49:G:OP1	36:Lh:48:ARG:HD3	2.11	0.51
4:LA:201:GLY:HA3	4:LA:209:HIS:CE1	2.44	0.51
5:LB:136:LYS:CG	5:LB:145:GLN:HG3	2.36	0.51
5:LB:139:ASP:O	5:LB:142:GLY:N	2.43	0.51
5:LB:150:PHE:HD1	5:LB:194:LEU:HD11	1.75	0.51
7:LD:66:TYR:CE1	7:LD:73:MET:HB3	2.46	0.51
10:LG:119:GLU:O	10:LG:122:ALA:HB3	2.10	0.51
11:LH:123:ILE:HB	11:LH:125:ARG:NH2	2.26	0.51
12:LI:46:PHE:HD2	12:LI:139:ARG:NE	2.07	0.51
12:LI:206:LEU:HD12	12:LI:209:TRP:HB3	1.91	0.51
13:LJ:153:ALA:HB1	13:LJ:154:LYS:HA	1.92	0.51
21:LS:69:GLU:HG2	21:LS:72:PRO:CA	2.40	0.51
24:LV:18:LEU:HD23	24:LV:54:ALA:CB	2.40	0.51
30:Lb:36:ASP:HB3	30:Lb:39:PHE:HB3	1.93	0.51
30:Lb:44:ARG:O	30:Lb:48:LYS:HB2	2.10	0.51
37:Li:42:ASP:O	37:Li:46:GLU:N	2.43	0.51
40:Ll:45:ARG:HA	40:Ll:48:LYS:HZ2	1.74	0.51
46:Lz:160:LYS:HG2	46:Lz:161:LYS:N	2.25	0.51
47:S2:22:A:H61	47:S2:652:U:H3	1.59	0.51
47:S2:388:U:H2'	47:S2:389:A:C8	2.42	0.51
47:S2:696:G:H21	47:S2:736:C:N4	2.09	0.51
47:S2:839:C:H3'	47:S2:839:C:H6	1.74	0.51
47:S2:1145:A:O2'	47:S2:1200:A:OP1	2.27	0.51
47:S2:1165:G:N2	64:SX:23:HIS:HB2	2.26	0.51
47:S2:1407:U:H2'	47:S2:1408:U:C2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1422:G:O2'	47:S2:1423:C:H3'	2.10	0.51
47:S2:1426:U:H4'	58:SQ:4:LYS:NZ	2.26	0.51
47:S2:1438:A:N3	47:S2:1438:A:H2'	2.26	0.51
47:S2:1495:G:H4'	67:Sd:26:ASN:HD22	1.72	0.51
47:S2:1548:G:OP1	47:S2:1548:G:H4'	2.11	0.51
47:S2:1865:C:OP1	65:Sa:87:ARG:NE	2.42	0.51
49:SB:46:LYS:CD	74:SO:19:PRO:HB2	2.41	0.51
49:SB:228:LEU:O	49:SB:231:LEU:HB3	2.10	0.51
53:SH:67:PRO:HG2	53:SH:68:GLN:OE1	2.11	0.51
53:SH:122:LEU:HD12	53:SH:123:THR:N	2.24	0.51
54:SI:57:ALA:HB3	54:SI:60:LEU:HD11	1.91	0.51
57:SP:103:ASN:ND2	60:SS:117:ILE:HD12	2.25	0.51
58:SQ:27:ARG:CA	58:SQ:66:VAL:HG12	2.36	0.51
58:SQ:42:ILE:O	58:SQ:42:ILE:HG23	2.09	0.51
61:ST:57:ALA:O	61:ST:61:ALA:N	2.43	0.51
64:SX:53:GLU:CB	64:SX:71:ARG:HB3	2.40	0.51
71:SJ:108:ARG:O	71:SJ:149:VAL:HG12	2.11	0.51
78:Sb:36:LYS:HD2	78:Sb:43:ILE:CG2	2.40	0.51
1:L5:100:C:H3'	1:L5:100:C:O2	2.11	0.51
1:L5:146:G:C2'	1:L5:147:A:H5'	2.41	0.51
1:L5:187:U:O3'	1:L5:188:G:H3'	2.10	0.51
1:L5:318:A:C2'	1:L5:319:A:H8	2.16	0.51
1:L5:332:C:H2'	1:L5:333:U:H5'	1.92	0.51
1:L5:444:G:N2	1:L5:1304:C:C2	2.79	0.51
1:L5:1405:C:H2'	1:L5:1406:G:H5'	1.93	0.51
1:L5:1596:U:HO2'	1:L5:1597:G:P	2.34	0.51
1:L5:1910:G:H2'	1:L5:1911:C:H6	1.76	0.51
1:L5:2281:U:O2'	1:L5:2282:A:H5'	2.10	0.51
1:L5:2628:U:H2'	1:L5:2629:C:C5'	2.39	0.51
1:L5:2710:C:H5'	1:L5:2711:G:H22	1.75	0.51
1:L5:2868:G:O2'	1:L5:2882:A:N6	2.44	0.51
1:L5:2889:G:P	20:LR:75:HIS:HB3	2.51	0.51
1:L5:3647:A:O2'	1:L5:3648:A:H5'	2.10	0.51
1:L5:3852:A:C2'	1:L5:3853:U:H5'	2.39	0.51
1:L5:4263:C:H2'	1:L5:4264:G:O4'	2.11	0.51
1:L5:4988:U:H2'	1:L5:5061:A:C8	2.46	0.51
2:L7:70:G:O2'	2:L7:71:G:H5'	2.10	0.51
5:LB:117:ARG:HD2	5:LB:177:LYS:CG	2.40	0.51
9:LF:169:LEU:HA	9:LF:174:LEU:HD22	1.92	0.51
10:LG:175:ARG:HD2	10:LG:230:TYR:CD1	2.45	0.51
11:LH:114:ILE:HB	11:LH:124:ARG:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:LI:60:LEU:HD12	12:LI:60:LEU:C	2.36	0.51
12:LI:183:ASP:OD1	12:LI:184:MET:N	2.44	0.51
14:LL:6:ASN:OD1	14:LL:7:GLY:N	2.43	0.51
16:LN:39:ALA:HB2	16:LN:63:ARG:NH1	2.25	0.51
16:LN:151:ILE:HD12	16:LN:151:ILE:C	2.36	0.51
23:LU:96:LEU:HB3	23:LU:100:LEU:CD1	2.40	0.51
24:LV:16:ILE:CD1	24:LV:57:VAL:HG13	2.39	0.51
26:LX:94:ASN:CG	26:LX:140:LEU:HB2	2.36	0.51
29:La:38:LEU:O	29:La:38:LEU:HD23	2.11	0.51
30:Lb:28:ARG:O	30:Lb:29:TYR:HB2	2.11	0.51
31:Lc:24:SER:OG	31:Lc:100:GLY:HA3	2.11	0.51
37:Li:66:ASP:C	37:Li:69:ALA:H	2.18	0.51
38:Lj:40:PRO:CD	38:Lj:41:ALA:N	2.73	0.51
40:Ll:39:SER:O	40:Ll:41:ARG:N	2.43	0.51
46:Lz:34:LEU:CD1	46:Lz:204:LEU:HD12	2.41	0.51
47:S2:192:C:C2'	47:S2:193:C:H5'	2.36	0.51
47:S2:348:A:H2'	47:S2:349:A:O4'	2.10	0.51
47:S2:582:C:C3'	47:S2:583:C:H5"	2.41	0.51
47:S2:592:C:H2'	47:S2:592:C:O2	2.10	0.51
47:S2:929:G:H2'	47:S2:930:C:O4'	2.11	0.51
47:S2:1279:C:C2'	47:S2:1280:G:H4'	2.41	0.51
47:S2:1372:U:O2'	47:S2:1373:C:O4'	2.28	0.51
47:S2:1400:U:N3	47:S2:1401:A:N7	2.59	0.51
47:S2:1472:C:H2'	47:S2:1473:G:H8	1.75	0.51
47:S2:1495:G:H2'	47:S2:1496:U:C6	2.45	0.51
47:S2:1562:C:H2'	47:S2:1563:G:H5"	1.92	0.51
47:S2:1578:U:O2'	50:SD:6:SER:HA	2.10	0.51
47:S2:1673:U:P	58:SQ:17:LYS:HZ3	2.32	0.51
48:SA:24:HIS:CD2	48:SA:25:LEU:HD12	2.45	0.51
51:SE:48:LEU:HD23	51:SE:64:ILE:HD11	1.93	0.51
51:SE:104:ASP:CG	51:SE:106:LYS:H	2.18	0.51
52:SF:165:ASN:OD1	52:SF:167:LYS:HG3	2.11	0.51
55:SK:79:LEU:HG	55:SK:82:TYR:CZ	2.46	0.51
57:SP:20:VAL:HG13	57:SP:24:GLN:HG3	1.91	0.51
58:SQ:21:ALA:HA	58:SQ:71:ARG:O	2.11	0.51
68:Sg:122:SER:OG	68:Sg:130:LYS:N	2.35	0.51
68:Sg:214:GLY:HA2	68:Sg:236:ILE:HD12	1.92	0.51
71:SJ:129:LEU:HD23	71:SJ:132:GLN:HE21	1.75	0.51
73:SN:94:LYS:O	73:SN:97:ALA:N	2.44	0.51
74:SO:21:VAL:O	74:SO:21:VAL:HG13	2.10	0.51
74:SO:42:VAL:HG12	74:SO:44:VAL:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:SO:72:TYR:CE1	74:SO:76:LEU:HD23	2.46	0.51
1:L5:112:C:H5	1:L5:157:U:N3	2.08	0.51
1:L5:169:G:H3'	1:L5:170:C:C5'	2.41	0.51
1:L5:464:G:N3	1:L5:464:G:H2'	2.25	0.51
1:L5:473:C:O2'	1:L5:474:C:H5'	2.11	0.51
1:L5:959:G:H1'	8:LE:125:LEU:HD13	1.92	0.51
1:L5:1269:G:H21	1:L5:1270:A:N6	2.02	0.51
1:L5:1471:U:O5'	1:L5:1471:U:H6	1.93	0.51
1:L5:1838:A:OP1	9:LF:124:LYS:HE2	2.10	0.51
1:L5:1839:U:H2'	1:L5:1840:G:N3	2.25	0.51
1:L5:1955:G:H2'	1:L5:1956:A:C1'	2.41	0.51
1:L5:2580:U:H5"	1:L5:2581:A:OP2	2.11	0.51
1:L5:2612:G:N2	1:L5:2728:U:O2	2.37	0.51
1:L5:2691:U:O2'	1:L5:2692:U:H5'	2.11	0.51
1:L5:2810:U:O2'	1:L5:4643:G:H4'	2.11	0.51
1:L5:4123:C:H5'	28:LZ:136:PHE:OXT	2.10	0.51
1:L5:4302:U:O2'	22:LT:5:LYS:HG2	2.10	0.51
1:L5:4594:U:H2'	1:L5:4595:G:C8	2.43	0.51
1:L5:4693:C:O2'	1:L5:4693:C:O2	2.28	0.51
1:L5:4886:C:N4	8:LE:272:ARG:HH22	2.08	0.51
1:L5:4997:G:H2'	1:L5:4998:G:H8	1.76	0.51
3:L8:142:U:C2'	3:L8:143:G:H5'	2.40	0.51
7:LD:37:VAL:HG13	7:LD:67:ALA:HB2	1.92	0.51
8:LE:202:ASP:OD1	8:LE:203:ILE:N	2.42	0.51
8:LE:233:PHE:HE2	8:LE:235:THR:HA	1.75	0.51
9:LF:92:VAL:HG23	9:LF:140:ILE:HD13	1.90	0.51
10:LG:78:PRO:HB3	10:LG:236:HIS:O	2.11	0.51
10:LG:143:VAL:HA	10:LG:146:LEU:CD1	2.40	0.51
12:LI:190:LEU:HD13	12:LI:197:VAL:CG2	2.41	0.51
12:LI:190:LEU:HB2	12:LI:198:LYS:O	2.10	0.51
13:LJ:12:MET:SD	13:LJ:137:PRO:HB2	2.51	0.51
13:LJ:55:TYR:HA	13:LJ:64:ARG:HB2	1.93	0.51
15:LM:24:LEU:HD21	15:LM:86:TRP:CZ3	2.45	0.51
18:LP:90:PHE:C	18:LP:91:LEU:HD12	2.36	0.51
23:LU:24:ASP:OD1	23:LU:111:GLU:HG2	2.10	0.51
23:LU:87:THR:CG2	23:LU:102:VAL:HG21	2.38	0.51
41:Lm:120:ASN:C	41:Lm:121:LEU:HG	2.36	0.51
46:Lz:23:ARG:HG3	46:Lz:212:LYS:NZ	2.25	0.51
47:S2:160:U:P	47:S2:160:U:H3'	2.50	0.51
47:S2:854:A:O2'	47:S2:855:G:H5'	2.10	0.51
47:S2:863:U:HO2'	75:SW:78:ARG:NH1	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:951:C:O2'	47:S2:952:G:H5'	2.11	0.51
47:S2:1332:A:H1'	47:S2:1500:G:N2	2.25	0.51
47:S2:1383:A:H4'	50:SD:156:LEU:CG	2.40	0.51
47:S2:1669:G:P	58:SQ:132:PHE:HB3	2.50	0.51
48:SA:118:GLU:OE2	69:SC:64:THR:HA	2.11	0.51
50:SD:29:LEU:HD12	50:SD:34:TYR:CD1	2.27	0.51
56:SL:89:ARG:HA	56:SL:108:ASN:HB3	1.91	0.51
56:SL:95:TYR:CD1	56:SL:102:PHE:CE1	2.99	0.51
59:SR:34:VAL:HG12	59:SR:38:ILE:CG2	2.41	0.51
60:SS:124:ARG:HH21	60:SS:133:GLY:H	1.59	0.51
61:ST:101:ARG:O	61:ST:104:LEU:HB2	2.11	0.51
68:Sg:104:HIS:CE1	68:Sg:132:TRP:HZ2	2.28	0.51
68:Sg:112:ALA:O	68:Sg:120:ILE:HG23	2.10	0.51
68:Sg:153:CYS:N	68:Sg:168:CYS:SG	2.83	0.51
68:Sg:172:LYS:HE3	68:Sg:194:TYR:CA	2.40	0.51
68:Sg:239:LEU:CD1	68:Sg:248:LEU:HD11	2.41	0.51
72:SM:46:GLN:O	72:SM:73:GLN:NE2	2.42	0.51
73:SN:23:PRO:HB2	73:SN:25:TRP:CE2	2.46	0.51
73:SN:45:LEU:HB2	73:SN:50:ILE:HD11	1.91	0.51
74:SO:102:GLY:H	74:SO:134:PRO:HG2	1.75	0.51
76:SY:40:ILE:HG23	76:SY:41:ARG:N	2.24	0.51
76:SY:100:LYS:HG3	76:SY:101:LYS:N	2.25	0.51
78:Sb:4:ALA:O	78:Sb:7:LEU:HG	2.10	0.51
1:L5:158:A:N1	1:L5:276:C:O2'	2.37	0.51
1:L5:262:G:H2'	1:L5:263:G:C8	2.46	0.51
1:L5:455:C:N4	1:L5:701:G:H21	2.09	0.51
1:L5:502:C:H3'	1:L5:503:C:C6	2.45	0.51
1:L5:514:U:O2	1:L5:514:U:H2'	2.11	0.51
1:L5:723:A:OP1	6:LC:350:ARG:NH1	2.43	0.51
1:L5:1259:G:H2'	1:L5:1260:G:C5'	2.32	0.51
1:L5:1803:G:O6	22:LT:112:ASN:ND2	2.44	0.51
1:L5:1896:A:O3'	1:L5:2071:A:O2'	2.28	0.51
1:L5:2110:C:O2'	1:L5:2111:G:OP2	2.26	0.51
1:L5:2306:G:H1'	1:L5:2331:G:N2	2.26	0.51
1:L5:2481:G:H2'	1:L5:2482:C:C6	2.45	0.51
1:L5:2506:G:O2'	1:L5:2507:A:O5'	2.28	0.51
1:L5:2526:C:N3	1:L5:2527:A:C6	2.79	0.51
1:L5:2590:G:H1'	1:L5:2756:G:N2	2.25	0.51
1:L5:2606:G:H2'	1:L5:2606:G:N3	2.26	0.51
1:L5:2778:G:C4'	26:LX:107:HIS:HE1	2.19	0.51
1:L5:4469:U:H1'	1:L5:4708:A:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4594:U:O2'	1:L5:4595:G:H5'	2.11	0.51
1:L5:4879:C:H6	1:L5:4879:C:H3'	1.74	0.51
1:L5:4931:G:H2'	1:L5:4932:U:H5'	1.92	0.51
1:L5:4975:G:H4'	1:L5:4976:U:O5'	2.09	0.51
2:L7:50:A:OP2	7:LD:225:GLN:NE2	2.44	0.51
3:L8:36:G:C4	36:Lh:89:ARG:NH1	2.78	0.51
4:LA:82:ILE:O	44:Lp:64:VAL:HG13	2.11	0.51
4:LA:102:LEU:HB2	4:LA:103:PRO:HD2	1.93	0.51
7:LD:124:GLU:O	7:LD:126:THR:HG23	2.10	0.51
9:LF:95:ILE:HG13	9:LF:139:TYR:O	2.10	0.51
10:LG:118:ALA:CA	10:LG:121:LYS:HB2	2.37	0.51
10:LG:154:LEU:HD23	10:LG:155:VAL:N	2.26	0.51
11:LH:27:VAL:HG12	11:LH:84:VAL:HG21	1.93	0.51
12:LI:129:VAL:O	12:LI:129:VAL:HG13	2.11	0.51
13:LJ:53:ALA:O	13:LJ:65:ASN:HA	2.10	0.51
19:LQ:28:LEU:O	19:LQ:31:LEU:HB3	2.11	0.51
20:LR:23:TRP:CZ3	20:LR:51:ILE:HD13	2.45	0.51
21:LS:15:ARG:HE	22:LT:141:VAL:HG11	1.75	0.51
25:LW:82:ILE:HG13	70:SG:130:PRO:HG2	1.92	0.51
29:La:81:LEU:HD22	29:La:106:SER:HB3	1.93	0.51
31:Lc:93:THR:HG22	31:Lc:94:LEU:N	2.25	0.51
34:Lf:10:ILE:HD12	34:Lf:99:HIS:O	2.11	0.51
37:Li:66:ASP:HA	37:Li:69:ALA:CB	2.41	0.51
38:Lj:17:THR:HG21	38:Lj:29:LEU:HD21	1.91	0.51
45:Lr:47:LYS:HB2	45:Lr:102:TYR:CZ	2.45	0.51
46:Lz:76:GLU:HG3	46:Lz:143:ASN:O	2.11	0.51
47:S2:310:C:H2'	47:S2:311:C:H5'	1.91	0.51
47:S2:348:A:H2'	47:S2:349:A:C8	2.44	0.51
47:S2:464:A:H5'	47:S2:465:A:N7	2.25	0.51
47:S2:623:G:H2'	47:S2:623:G:N3	2.26	0.51
47:S2:917:U:H4'	53:SH:118:ARG:HG3	1.93	0.51
47:S2:988:C:C4	47:S2:989:C:C5	2.99	0.51
47:S2:1059:G:H3'	47:S2:1060:A:H5"	1.92	0.51
47:S2:1156:U:H3'	47:S2:1157:G:C5'	2.41	0.51
47:S2:1412:C:H2'	47:S2:1413:G:C8	2.46	0.51
47:S2:1721:U:H4'	47:S2:1722:G:OP2	2.11	0.51
47:S2:1743:G:O6	47:S2:1744:G:N1	2.44	0.51
47:S2:1791:A:H2'	47:S2:1792:G:O4'	2.11	0.51
48:SA:62:ALA:HA	48:SA:65:ILE:HD12	1.93	0.51
48:SA:123:VAL:HG12	48:SA:145:ILE:HG22	1.91	0.51
49:SB:122:GLU:OE1	49:SB:140:VAL:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:127:MET:HE1	50:SD:154:ASP:O	2.11	0.51
50:SD:163:PRO:HA	50:SD:166:TYR:CZ	2.45	0.51
50:SD:199:GLY:N	50:SD:200:PRO:CD	2.74	0.51
50:SD:213:PRO:HD3	59:SR:19:LYS:CE	2.39	0.51
51:SE:198:ARG:CB	51:SE:208:VAL:HG23	2.38	0.51
52:SF:104:THR:HG22	52:SF:105:GLY:O	2.10	0.51
53:SH:146:VAL:HG12	53:SH:147:LYS:N	2.25	0.51
54:SI:83:TYR:OH	54:SI:201:LYS:HD3	2.10	0.51
57:SP:70:MET:O	57:SP:71:GLU:HB3	2.11	0.51
58:SQ:12:VAL:HG11	58:SQ:90:LYS:CB	2.40	0.51
58:SQ:96:TYR:O	58:SQ:102:GLU:HA	2.10	0.51
59:SR:100:PRO:HA	59:SR:103:LYS:HB2	1.92	0.51
64:SX:91:LEU:O	64:SX:94:ILE:HG22	2.10	0.51
68:Sg:125:ARG:HA	68:Sg:151:VAL:O	2.10	0.51
68:Sg:166:VAL:HA	68:Sg:176:VAL:HG22	1.92	0.51
68:Sg:220:ASP:N	68:Sg:227:LEU:CD1	2.74	0.51
68:Sg:239:LEU:HD12	68:Sg:250:ALA:HB2	1.93	0.51
71:SJ:4:ALA:HB3	71:SJ:5:ARG:CD	2.27	0.51
71:SJ:15:THR:CG2	71:SJ:16:PRO:HD2	2.40	0.51
71:SJ:37:LEU:HD23	71:SJ:43:VAL:HG22	1.92	0.51
73:SN:121:ARG:O	73:SN:125:LEU:N	2.39	0.51
76:SY:76:TYR:HD2	76:SY:82:ALA:CB	2.24	0.51
80:Sf:119:ARG:O	80:Sf:131:PHE:HA	2.10	0.51
1:L5:213:G:O2'	1:L5:214:G:H5'	2.11	0.51
1:L5:482:G:N2	1:L5:483:G:H1'	2.25	0.51
1:L5:929:A:C2'	1:L5:930:G:H2'	2.37	0.51
1:L5:991:C:H2'	1:L5:992:C:H5'	1.92	0.51
1:L5:1696:C:C1'	1:L5:1697:G:H2'	2.32	0.51
1:L5:1774:C:H2'	1:L5:1775:A:C5'	2.40	0.51
1:L5:1779:U:O2'	1:L5:1780:A:O4'	2.29	0.51
1:L5:1847:C:N3	1:L5:1848:C:N4	2.59	0.51
1:L5:2009:A:H3'	1:L5:2009:A:N3	2.26	0.51
1:L5:2067:C:O2'	1:L5:2068:C:H5'	2.11	0.51
1:L5:2082:G:C2	1:L5:2275:G:C2	2.99	0.51
1:L5:2589:C:H2'	1:L5:2590:G:C5'	2.40	0.51
1:L5:2598:A:C2'	1:L5:2599:G:H5'	2.40	0.51
1:L5:2693:G:C6	1:L5:2694:G:C6	2.99	0.51
1:L5:3687:A:OP1	4:LA:10:LYS:NZ	2.42	0.51
1:L5:3702:A:H2'	1:L5:3702:A:N3	2.26	0.51
1:L5:4041:C:H5"	1:L5:4042:G:OP2	2.10	0.51
1:L5:4105:A:C4'	1:L5:4106:G:H5"	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4711:C:H5"	17:LO:58:LEU:CD2	2.41	0.51
2:L7:61:G:OP1	7:LD:271:MET:HB3	2.11	0.51
2:L7:86:G:H5"	21:LS:120:ARG:HH21	1.76	0.51
3:L8:28:C:H2'	3:L8:29:G:H8	1.75	0.51
7:LD:61:ILE:HG23	7:LD:79:TYR:CE1	2.46	0.51
7:LD:211:LEU:HD13	7:LD:218:ALA:O	2.10	0.51
10:LG:165:GLU:C	10:LG:167:VAL:H	2.19	0.51
10:LG:165:GLU:CA	10:LG:168:VAL:HG13	2.41	0.51
11:LH:110:SER:HA	11:LH:134:CYS:SG	2.51	0.51
12:LI:183:ASP:CA	12:LI:186:ALA:HB3	2.33	0.51
18:LP:24:VAL:CG1	18:LP:90:PHE:CE2	2.93	0.51
21:LS:159:LEU:HD12	21:LS:159:LEU:C	2.36	0.51
24:LV:61:VAL:HG22	24:LV:62:MET:O	2.10	0.51
27:LY:55:VAL:HG22	27:LY:56:GLN:N	2.25	0.51
38:Lj:21:ARG:NH2	38:Lj:39:TYR:HB2	2.26	0.51
41:Lm:95:ILE:CD1	41:Lm:102:ARG:HA	2.41	0.51
43:Lo:67:VAL:HG12	43:Lo:68:LEU:N	2.26	0.51
47:S2:89:C:O2'	47:S2:90:G:H5'	2.11	0.51
47:S2:197:U:H2'	47:S2:202:G:H22	1.76	0.51
47:S2:693:A:H1'	47:S2:694:G:C6	2.46	0.51
47:S2:881:G:H2'	47:S2:882:U:C6	2.46	0.51
47:S2:988:C:H4'	49:SB:115:LYS:O	2.10	0.51
47:S2:1261:C:N4	47:S2:1619:A:H61	2.09	0.51
47:S2:1452:A:H61	47:S2:1474:A:H2'	1.75	0.51
47:S2:1612:G:O6	47:S2:1628:C:N4	2.44	0.51
47:S2:1623:A:OP1	60:SS:133:GLY:HA3	2.11	0.51
49:SB:171:ILE:HD13	49:SB:197:ILE:CG2	2.37	0.51
50:SD:48:ILE:N	50:SD:85:GLU:O	2.35	0.51
51:SE:159:THR:HG21	51:SE:227:VAL:CA	2.40	0.51
52:SF:121:PRO:HG2	52:SF:196:LEU:CG	2.41	0.51
58:SQ:57:LEU:CD1	58:SQ:112:LEU:HD22	2.40	0.51
60:SS:4:VAL:HG13	77:SZ:50:PHE:CD1	2.46	0.51
63:SV:40:ASP:HB2	63:SV:43:THR:OG1	2.11	0.51
69:SC:127:PHE:HD1	69:SC:141:VAL:HG22	1.76	0.51
70:SG:39:ASP:HA	70:SG:45:TRP:O	2.11	0.51
75:SW:34:ILE:HG22	75:SW:38:LEU:HD13	1.93	0.51
75:SW:76:SER:HB3	75:SW:77:PRO:HD3	1.93	0.51
78:Sb:23:ARG:NH1	78:Sb:27:SER:O	2.44	0.51
1:L5:45:U:H3'	1:L5:45:U:H6	1.76	0.51
1:L5:695:G:H5'	1:L5:696:C:C5	2.46	0.51
1:L5:724:C:O2'	1:L5:725:G:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:933:G:H22	1:L5:939:G:H2'	1.75	0.51
1:L5:964:A:H1'	45:Lr:98:ARG:HD2	1.92	0.51
1:L5:1301:C:O2'	33:Le:17:THR:HG21	2.11	0.51
1:L5:1342:A:C2	1:L5:1343:A:C4	2.99	0.51
1:L5:1343:A:C2'	14:LL:10:LEU:HD21	2.40	0.51
1:L5:1823:G:O2'	1:L5:1825:A:H5'	2.10	0.51
1:L5:2405:G:HO2'	1:L5:2791:C:HO2'	1.59	0.51
1:L5:2719:C:C2'	1:L5:2720:C:H5'	2.41	0.51
1:L5:2890:C:O2'	1:L5:2891:U:H5'	2.11	0.51
1:L5:3638:G:C2'	1:L5:3639:U:H5'	2.41	0.51
1:L5:3709:U:H3'	1:L5:3710:G:C5'	2.41	0.51
2:L7:117:G:N3	2:L7:117:G:H2'	2.25	0.51
2:L7:120:U:O3'	7:LD:261:VAL:HG22	2.11	0.51
4:LA:210:PRO:CD	4:LA:235:VAL:HG21	2.35	0.51
5:LB:60:VAL:HG21	5:LB:72:VAL:HG21	1.93	0.51
6:LC:262:GLU:O	6:LC:273:LEU:HB2	2.11	0.51
7:LD:109:LEU:HD23	7:LD:109:LEU:C	2.36	0.51
9:LF:107:LYS:HD2	9:LF:110:GLN:HE21	1.75	0.51
9:LF:169:LEU:HD12	9:LF:169:LEU:C	2.35	0.51
10:LG:39:PHE:CE1	10:LG:47:PRO:HD3	2.46	0.51
12:LI:57:TYR:HH	12:LI:128:ARG:HH21	1.58	0.51
12:LI:62:SER:O	12:LI:65:LEU:HB2	2.10	0.51
16:LN:25:VAL:O	16:LN:28:TRP:HB3	2.11	0.51
16:LN:198:LEU:CD2	16:LN:200:LEU:HG	2.40	0.51
18:LP:102:ALA:O	18:LP:107:LEU:N	2.43	0.51
19:LQ:181:ARG:HG3	19:LQ:183:SER:H	1.75	0.51
20:LR:16:ARG:C	20:LR:52:ARG:HH22	2.18	0.51
20:LR:185:ILE:HD11	20:LR:186:LYS:HZ3	1.74	0.51
24:LV:42:VAL:HA	24:LV:61:VAL:HG23	1.92	0.51
24:LV:49:LEU:O	24:LV:50:ASN:HB2	2.11	0.51
25:LW:83:THR:HA	70:SG:131:ARG:N	2.25	0.51
28:LZ:26:VAL:HG11	28:LZ:91:LEU:HD22	1.92	0.51
33:Le:13:VAL:O	33:Le:13:VAL:HG13	2.11	0.51
40:Ll:21:ARG:CG	40:Ll:22:PRO:HD2	2.40	0.51
47:S2:79:A:O2'	47:S2:80:G:OP1	2.27	0.51
47:S2:95:G:H4'	47:S2:508:A:H4'	1.93	0.51
47:S2:348:A:H2'	47:S2:349:A:H8	1.74	0.51
47:S2:693:A:O2'	47:S2:694:G:O5'	2.29	0.51
47:S2:809:A:N1	47:S2:810:A:N6	2.59	0.51
47:S2:870:A:H2'	47:S2:870:A:P	2.51	0.51
47:S2:1109:C:N3	59:SR:123:THR:OG1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1124:C:C5	47:S2:1125:C:H5	2.29	0.51
47:S2:1218:C:C2'	47:S2:1219:C:H5'	2.41	0.51
47:S2:1227:G:N2	47:S2:1635:C:O2'	2.30	0.51
47:S2:1520:G:N3	47:S2:1520:G:H2'	2.26	0.51
47:S2:1530:U:O2'	61:ST:87:VAL:HA	2.11	0.51
47:S2:1564:C:P	61:ST:105:GLN:HE21	2.34	0.51
51:SE:86:PHE:HE2	51:SE:226:PHE:CE2	2.29	0.51
53:SH:147:LYS:HB3	53:SH:151:SER:CB	2.28	0.51
54:SI:104:ILE:N	54:SI:171:LEU:O	2.38	0.51
54:SI:165:GLN:HE21	54:SI:171:LEU:HD23	1.76	0.51
55:SK:32:HIS:CG	55:SK:33:PRO:HD2	2.46	0.51
58:SQ:53:GLU:O	58:SQ:56:LEU:N	2.43	0.51
62:SU:23:THR:CB	62:SU:113:GLU:HB2	2.37	0.51
65:Sa:29:CYS:SG	74:SO:146:ARG:HG3	2.50	0.51
65:Sa:89:ARG:HA	65:Sa:92:ARG:HH11	1.68	0.51
68:Sg:66:VAL:O	68:Sg:83:TRP:NE1	2.44	0.51
68:Sg:106:LYS:HD2	68:Sg:126:ASP:CB	2.40	0.51
68:Sg:109:LEU:N	68:Sg:125:ARG:H	2.09	0.51
68:Sg:217:MET:HE3	68:Sg:219:TRP:NE1	2.21	0.51
69:SC:213:LEU:HD23	69:SC:240:THR:CG2	2.40	0.51
69:SC:274:VAL:O	69:SC:278:THR:OG1	2.25	0.51
69:SC:276:THR:O	69:SC:280:VAL:HG11	2.11	0.51
70:SG:219:GLU:O	70:SG:222:GLU:HB3	2.11	0.51
71:SJ:37:LEU:HD21	71:SJ:106:LEU:CD2	2.41	0.51
71:SJ:63:LEU:HD23	71:SJ:64:ASP:O	2.10	0.51
72:SM:24:THR:CB	72:SM:116:LYS:H	2.23	0.51
72:SM:93:LYS:O	72:SM:94:ILE:HG22	2.11	0.51
73:SN:125:LEU:HD11	73:SN:129:TYR:CE2	2.46	0.51
76:SY:18:LEU:HB2	76:SY:20:ARG:HG2	1.92	0.51
76:SY:50:THR:HG21	76:SY:75:ILE:HG21	1.92	0.51
76:SY:109:GLU:OE2	76:SY:113:ARG:NE	2.44	0.51
77:SZ:69:THR:O	77:SZ:73:VAL:HB	2.11	0.51
1:L5:24:G:OP2	38:Lj:58:THR:HG23	2.10	0.50
1:L5:262:G:H2'	1:L5:263:G:H8	1.77	0.50
1:L5:303:C:C2'	1:L5:304:C:H5'	2.42	0.50
1:L5:1205:G:C2'	1:L5:1206:C:H5'	2.41	0.50
1:L5:1590:C:H5"	1:L5:1591:U:H4'	1.91	0.50
1:L5:2407:G:H2'	1:L5:2407:G:N3	2.26	0.50
1:L5:2473:A:OP1	26:LX:48:ARG:HG2	2.11	0.50
1:L5:2534:C:C2'	1:L5:2535:G:H5'	2.40	0.50
1:L5:2550:G:N3	1:L5:2587:A:H2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2562:G:H2'	1:L5:2563:C:H5'	1.92	0.50
1:L5:2860:C:O4'	1:L5:3837:C:O2'	2.28	0.50
1:L5:4441:A:C2'	1:L5:4442:U:H5"	2.41	0.50
1:L5:4645:C:H5	20:LR:62:ARG:HD3	1.76	0.50
1:L5:4672:A:OP1	24:LV:17:SER:OG	2.27	0.50
3:L8:27:U:O2'	3:L8:28:C:H5'	2.11	0.50
4:LA:140:ASN:ND2	4:LA:143:THR:OG1	2.44	0.50
5:LB:90:VAL:HG22	5:LB:91:GLY:N	2.25	0.50
8:LE:88:VAL:HB	8:LE:89:LEU:CB	2.20	0.50
8:LE:174:LEU:HD22	8:LE:212:LEU:HD23	1.93	0.50
11:LH:119:GLY:O	11:LH:120:GLU:HB3	2.10	0.50
14:LL:58:ILE:HG12	14:LL:70:VAL:HG21	1.93	0.50
14:LL:79:GLU:HG2	14:LL:82:ARG:HH22	1.75	0.50
16:LN:47:LYS:HB2	16:LN:50:ARG:HH11	1.76	0.50
23:LU:49:VAL:HB	23:LU:52:LYS:HB2	1.92	0.50
23:LU:83:LEU:O	23:LU:87:THR:N	2.44	0.50
26:LX:37:LYS:O	26:LX:39:LYS:HG3	2.11	0.50
26:LX:129:ARG:HB3	26:LX:130:PRO:HD2	1.92	0.50
29:La:78:LEU:O	29:La:78:LEU:HD23	2.11	0.50
31:Lc:47:ILE:HD12	31:Lc:94:LEU:CD1	2.19	0.50
37:Li:33:LEU:HD23	37:Li:38:LYS:NZ	2.26	0.50
38:Lj:25:LYS:HE2	40:Ll:50:GLY:O	2.11	0.50
46:Lz:53:VAL:HG11	46:Lz:155:ILE:HD11	1.94	0.50
46:Lz:160:LYS:HG2	46:Lz:161:LYS:H	1.76	0.50
47:S2:1293:A:C5'	80:Sf:138:ARG:HG3	2.40	0.50
47:S2:1301:A:H2'	47:S2:1303:C:C6	2.45	0.50
47:S2:1475:G:O2'	47:S2:1476:A:OP1	2.25	0.50
47:S2:1756:C:H3'	47:S2:1757:G:C8	2.46	0.50
47:S2:1791:A:H2'	47:S2:1792:G:H5'	1.92	0.50
47:S2:1853:C:H2'	47:S2:1854:U:C5	2.46	0.50
48:SA:142:LEU:HD12	48:SA:143:PRO:HD2	1.94	0.50
48:SA:200:ASP:HB3	59:SR:85:VAL:HG12	1.93	0.50
50:SD:52:ALA:HB1	50:SD:58:VAL:HG11	1.92	0.50
51:SE:159:THR:HG23	51:SE:227:VAL:HB	1.94	0.50
51:SE:182:MET:HE2	51:SE:192:ILE:HD11	1.93	0.50
52:SF:33:ILE:HG23	52:SF:34:SER:N	2.26	0.50
53:SH:158:LEU:HD12	53:SH:189:PHE:HE1	1.75	0.50
54:SI:165:GLN:HE21	54:SI:171:LEU:CD2	2.24	0.50
60:SS:98:VAL:HG12	60:SS:103:LEU:N	2.26	0.50
60:SS:138:THR:HG23	60:SS:139:THR:N	2.26	0.50
63:SV:16:LYS:HA	63:SV:22:ARG:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Sd:54:LYS:O	67:Sd:54:LYS:HG3	2.11	0.50
68:Sg:127:LYS:HZ2	68:Sg:150:TRP:HE1	1.55	0.50
68:Sg:127:LYS:CD	68:Sg:150:TRP:HD1	2.23	0.50
70:SG:220:ALA:CA	70:SG:223:LYS:HB2	2.22	0.50
72:SM:69:LEU:HA	72:SM:74:ILE:HD12	1.93	0.50
76:SY:128:GLY:C	76:SY:131:PRO:HD2	2.36	0.50
1:L5:720:G:H2'	1:L5:721:G:H5'	1.92	0.50
1:L5:956:A:H5"	1:L5:957:G:C8	2.45	0.50
1:L5:1291:G:C1'	1:L5:4942:C:H41	2.24	0.50
1:L5:1624:G:O2'	1:L5:1625:G:OP2	2.24	0.50
1:L5:1820:C:H5'	7:LD:139:PRO:CG	2.41	0.50
1:L5:1894:C:H6	1:L5:1894:C:O5'	1.94	0.50
1:L5:2584:G:N2	1:L5:2585:C:H1'	2.25	0.50
1:L5:3692:A:H61	1:L5:3824:A:N6	2.10	0.50
1:L5:3773:U:C5'	1:L5:3774:A:H5"	2.41	0.50
1:L5:3965:A:O5'	1:L5:4046:A:N6	2.41	0.50
1:L5:4731:G:H1'	1:L5:4733:C:C5	2.46	0.50
1:L5:4938:A:H5"	1:L5:4939:C:O5'	2.11	0.50
1:L5:4939:C:H5"	8:LE:219:LYS:HZ1	1.72	0.50
1:L5:5027:C:O2'	1:L5:5028:G:OP2	2.19	0.50
1:L5:5032:C:O2'	1:L5:5033:G:H5'	2.11	0.50
2:L7:60:G:H2'	2:L7:61:G:C8	2.43	0.50
5:LB:231:VAL:HG22	5:LB:231:VAL:O	2.10	0.50
5:LB:332:MET:HE1	5:LB:368:ILE:HD13	1.92	0.50
6:LC:279:LEU:HD23	6:LC:280:PRO:CD	2.42	0.50
6:LC:331:TYR:CZ	9:LF:55:LYS:HA	2.46	0.50
9:LF:105:VAL:HG11	9:LF:139:TYR:HE2	1.74	0.50
11:LH:4:ILE:HD11	21:LS:152:PHE:CG	2.47	0.50
12:LI:48:LEU:CD2	12:LI:145:GLU:HB3	2.41	0.50
13:LJ:53:ALA:N	13:LJ:66:GLU:O	2.44	0.50
15:LM:17:PHE:CZ	15:LM:54:CYS:HA	2.46	0.50
19:LQ:89:ASP:OD2	19:LQ:91:ARG:NH1	2.45	0.50
21:LS:143:LYS:HA	21:LS:146:HIS:ND1	2.26	0.50
33:Le:103:VAL:HB	33:Le:108:ARG:NH2	2.26	0.50
42:Ln:1:MET:HE1	42:Ln:9:ARG:HH11	1.76	0.50
42:Ln:23:ARG:O	42:Ln:24:SER:C	2.52	0.50
46:Lz:94:ASN:OD1	46:Lz:125:GLY:HA3	2.10	0.50
47:S2:79:A:N1	47:S2:80:G:H1'	2.26	0.50
47:S2:369:C:H4'	47:S2:370:G:OP1	2.11	0.50
47:S2:897:U:H3'	47:S2:898:U:C4'	2.41	0.50
47:S2:1350:U:H2'	47:S2:1351:G:C8	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1416:C:C5'	47:S2:1417:C:H5"	2.35	0.50
47:S2:1420:G:OP2	61:ST:133:ARG:NH1	2.45	0.50
47:S2:1429:G:O2'	47:S2:1430:C:H5'	2.11	0.50
47:S2:1467:C:H5"	59:SR:1:MET:N	2.27	0.50
49:SB:30:TRP:CD2	74:SO:19:PRO:HD3	2.46	0.50
49:SB:143:THR:HB	49:SB:205:TYR:HE2	1.76	0.50
50:SD:162:ASP:C	50:SD:164:VAL:H	2.17	0.50
50:SD:204:LEU:H	50:SD:207:HIS:HB3	1.76	0.50
52:SF:30:ILE:H	52:SF:42:LYS:HZ3	1.60	0.50
52:SF:133:THR:HG23	52:SF:133:THR:O	2.11	0.50
54:SI:81:VAL:HG22	54:SI:100:CYS:SG	2.51	0.50
55:SK:22:VAL:HA	55:SK:68:TYR:CE1	2.45	0.50
57:SP:41:GLN:NE2	57:SP:84:ILE:HG21	2.27	0.50
57:SP:72:LYS:N	57:SP:73:PRO:HD3	2.26	0.50
58:SQ:34:VAL:HG12	58:SQ:35:ASN:CG	2.37	0.50
62:SU:38:ASP:CG	62:SU:104:ILE:HD12	2.37	0.50
63:SV:36:VAL:O	63:SV:50:PHE:HA	2.11	0.50
66:Sc:18:LEU:CD2	66:Sc:66:ARG:HH22	2.23	0.50
68:Sg:88:ARG:CD	68:Sg:100:ARG:HB2	2.39	0.50
68:Sg:142:VAL:HG21	68:Sg:145:GLU:CD	2.35	0.50
68:Sg:165:ILE:HD11	68:Sg:177:TRP:CG	2.45	0.50
68:Sg:251:ALA:HB1	68:Sg:286:CYS:CB	2.34	0.50
69:SC:129:ALA:HA	69:SC:139:LEU:HD12	1.94	0.50
69:SC:130:ILE:HG13	69:SC:131:GLY:N	2.27	0.50
75:SW:88:LYS:O	75:SW:91:ASN:HB2	2.10	0.50
76:SY:27:VAL:O	76:SY:69:THR:HG22	2.12	0.50
76:SY:55:ILE:HG13	76:SY:75:ILE:CG1	2.42	0.50
76:SY:79:LEU:O	76:SY:83:LYS:HG3	2.11	0.50
1:L5:36:U:H2'	1:L5:37:U:H6	1.76	0.50
1:L5:295:A:C5	1:L5:317:A:C8	2.99	0.50
1:L5:679:C:C2'	1:L5:680:G:H5'	2.42	0.50
1:L5:708:G:N2	1:L5:709:C:C2	2.80	0.50
1:L5:960:A:H5'	1:L5:961:G:P	2.51	0.50
1:L5:1329:G:H2'	1:L5:1330:A:H5"	1.93	0.50
1:L5:1399:G:O6	1:L5:1419:G:N2	2.45	0.50
1:L5:1506:G:H8	1:L5:1506:G:O5'	1.94	0.50
1:L5:1697:G:H1	1:L5:1719:A:H2	1.59	0.50
1:L5:1731:C:O2	1:L5:1799:G:N2	2.44	0.50
1:L5:1890:G:H22	1:L5:1939:A:H61	1.59	0.50
1:L5:2537:A:H2'	1:L5:2538:U:O4'	2.12	0.50
1:L5:2562:G:H21	1:L5:2564:G:C3'	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3692:A:H61	1:L5:3824:A:H62	1.60	0.50
1:L5:3708:C:H5"	1:L5:3709:U:OP1	2.12	0.50
1:L5:3890:A:H2'	1:L5:3890:A:N3	2.26	0.50
1:L5:4098:A:H5"	1:L5:4099:G:C2	2.46	0.50
1:L5:4121:G:O2'	35:Lg:93:ARG:NH1	2.43	0.50
1:L5:4139:G:C2'	1:L5:4140:C:H5"	2.39	0.50
1:L5:4151:G:H2'	1:L5:4152:G:C8	2.45	0.50
1:L5:4335:C:N4	1:L5:4336:A:N1	2.60	0.50
1:L5:4537:C:O2'	1:L5:4538:G:O5'	2.27	0.50
1:L5:5010:U:O4	1:L5:5011:A:N6	2.44	0.50
3:L8:2:G:H2'	3:L8:3:A:O4'	2.11	0.50
3:L8:29:G:C2'	3:L8:30:U:H5'	2.41	0.50
3:L8:45:C:OP1	40:Ll:15:LYS:HD3	2.11	0.50
4:LA:92:LYS:HA	4:LA:103:PRO:CD	2.42	0.50
4:LA:129:ALA:O	4:LA:169:VAL:HG11	2.11	0.50
5:LB:216:MET:HA	5:LB:283:LYS:HA	1.93	0.50
7:LD:264:LYS:O	7:LD:266:TRP:N	2.44	0.50
8:LE:154:THR:CA	8:LE:158:ARG:HG2	2.38	0.50
8:LE:276:ALA:HB1	34:Lf:3:GLY:HA3	1.94	0.50
8:LE:287:VAL:HB	15:LM:109:ARG:HH22	1.76	0.50
9:LF:69:ILE:CG2	9:LF:73:ARG:HH21	2.24	0.50
10:LG:154:LEU:HD22	10:LG:204:PHE:HD2	1.75	0.50
12:LI:60:LEU:HD22	12:LI:159:PHE:CE1	2.47	0.50
13:LJ:109:ILE:HG21	13:LJ:128:LEU:HD11	1.92	0.50
14:LL:150:LEU:HD23	14:LL:150:LEU:C	2.36	0.50
15:LM:47:ARG:CG	15:LM:70:GLN:HE21	2.20	0.50
20:LR:167:LYS:HZ3	20:LR:171:LYS:NZ	2.10	0.50
25:LW:40:PHE:C	25:LW:41:LEU:HD12	2.36	0.50
33:Le:111:ILE:HG12	33:Le:111:ILE:O	2.11	0.50
43:Lo:63:THR:OG1	43:Lo:87:ARG:HD3	2.11	0.50
45:Lr:78:VAL:O	45:Lr:78:VAL:HG13	2.12	0.50
46:Lz:42:ASP:OD1	46:Lz:43:PRO:HD2	2.12	0.50
46:Lz:138:LEU:O	46:Lz:140:HIS:ND1	2.40	0.50
47:S2:65:C:N1	70:SG:133:LEU:HD23	2.25	0.50
47:S2:195:C:H1'	47:S2:205:G:H1	1.76	0.50
47:S2:327:G:N9	47:S2:328:U:H1'	2.27	0.50
47:S2:442:C:H1'	70:SG:92:ARG:NH1	2.26	0.50
47:S2:537:C:OP1	47:S2:539:C:H1'	2.12	0.50
47:S2:597:G:C2	47:S2:640:A:C2	3.00	0.50
47:S2:613:G:H1	47:S2:629:A:P	2.35	0.50
47:S2:646:G:H2'	47:S2:647:U:H5'	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:655:A:C3'	47:S2:656:G:H5'	2.41	0.50
47:S2:795:A:H3'	47:S2:797:C:OP2	2.12	0.50
47:S2:827:A:N3	47:S2:827:A:H2'	2.26	0.50
47:S2:907:G:H2'	47:S2:908:A:C8	2.46	0.50
47:S2:1013:U:C4'	47:S2:1129:G:H21	2.20	0.50
47:S2:1129:G:C5	47:S2:1130:G:C6	3.00	0.50
47:S2:1295:A:N6	47:S2:1305:C:H42	2.09	0.50
47:S2:1308:U:H4'	80:Sf:134:SER:OG	2.11	0.50
47:S2:1367:U:H2'	47:S2:1368:U:C6	2.46	0.50
47:S2:1389:C:H5"	47:S2:1390:U:OP2	2.11	0.50
47:S2:1498:A:H2	50:SD:181:VAL:HG11	1.76	0.50
47:S2:1692:U:O2'	65:Sa:86:ASN:ND2	2.41	0.50
49:SB:23:ASP:OD2	49:SB:25:PHE:HB2	2.10	0.50
49:SB:207:LEU:HD13	49:SB:210:VAL:HG23	1.93	0.50
53:SH:98:ARG:HB3	53:SH:125:VAL:HG21	1.93	0.50
53:SH:109:ARG:O	53:SH:113:LYS:HE2	2.11	0.50
54:SI:177:SER:OG	54:SI:184:ARG:O	2.27	0.50
55:SK:67:PHE:HB2	55:SK:69:TRP:CH2	2.46	0.50
56:SL:77:VAL:CG1	56:SL:80:MET:HE3	2.41	0.50
57:SP:106:GLU:HB2	60:SS:116:LYS:HZ3	1.73	0.50
61:ST:28:LEU:CD1	61:ST:30:VAL:HG13	2.42	0.50
61:ST:108:GLU:N	61:ST:113:VAL:HG12	2.25	0.50
62:SU:83:ARG:HG2	67:Sd:55:LEU:HD12	1.94	0.50
67:Sd:6:LEU:CB	67:Sd:7:TYR:HB3	2.41	0.50
69:SC:163:VAL:HB	69:SC:164:PRO:HD2	1.93	0.50
71:SJ:32:ILE:HG12	71:SJ:37:LEU:CD2	2.42	0.50
72:SM:73:GLN:H	72:SM:73:GLN:CD	2.19	0.50
76:SY:102:THR:HG22	76:SY:103:SER:N	2.25	0.50
1:L5:27:C:O2'	1:L5:60:G:N3	2.39	0.50
1:L5:177:G:H2'	1:L5:178:C:O4'	2.11	0.50
1:L5:507:G:C2	1:L5:652:G:C2	3.00	0.50
1:L5:1520:C:H4'	6:LC:94:ASN:ND2	2.27	0.50
1:L5:1612:G:N3	1:L5:1612:G:H2'	2.25	0.50
1:L5:1748:U:H2'	1:L5:1749:A:O4'	2.12	0.50
1:L5:1768:C:C3'	1:L5:1769:G:H5'	2.41	0.50
1:L5:2041:A:N7	1:L5:4434:C:O2'	2.43	0.50
1:L5:2396:A:H5"	1:L5:2806:A:C6	2.47	0.50
1:L5:2480:G:H2'	1:L5:2481:G:C4'	2.41	0.50
1:L5:2489:C:H2'	1:L5:2489:C:O2	2.10	0.50
1:L5:3606:U:H2'	1:L5:3607:U:C5	2.47	0.50
1:L5:3710:G:H2'	1:L5:3710:G:N3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4115:G:O2'	1:L5:4116:C:H5'	2.11	0.50
1:L5:4338:G:O6	1:L5:4375:C:H1'	2.11	0.50
1:L5:4630:G:C4	1:L5:4631:G:N7	2.79	0.50
1:L5:4637:G:O2'	1:L5:4638:U:H5'	2.10	0.50
1:L5:4659:G:H2'	1:L5:4660:G:O4'	2.11	0.50
1:L5:4660:G:C2'	1:L5:4661:G:H5'	2.42	0.50
1:L5:4889:G:H22	1:L5:4930:C:N4	2.10	0.50
1:L5:4944:C:H5"	8:LE:154:THR:OG1	2.11	0.50
1:L5:5034:A:H2'	1:L5:5035:U:H5'	1.93	0.50
2:L7:32:A:O2'	2:L7:33:U:OP2	2.25	0.50
3:L8:111:U:C5	40:Ll:7:PHE:CD2	2.98	0.50
4:LA:62:VAL:HG12	4:LA:62:VAL:O	2.11	0.50
5:LB:143:LYS:HA	5:LB:146:LEU:HD13	1.93	0.50
6:LC:149:GLU:HG2	45:Lr:72:LYS:CG	2.41	0.50
6:LC:154:VAL:O	6:LC:254:GLU:HB2	2.11	0.50
7:LD:280:VAL:O	7:LD:284:LYS:N	2.30	0.50
7:LD:280:VAL:CG2	7:LD:284:LYS:HE3	2.41	0.50
9:LF:166:ARG:HD2	9:LF:209:TRP:CE2	2.47	0.50
12:LI:168:SER:OG	12:LI:170:LYS:HB2	2.11	0.50
13:LJ:50:PHE:CD1	13:LJ:70:VAL:HG12	2.47	0.50
13:LJ:76:GLY:HA2	13:LJ:79:ALA:CB	2.22	0.50
14:LL:114:VAL:O	14:LL:118:LYS:HG2	2.11	0.50
14:LL:129:ARG:HH22	36:Lh:115:PRO:HB2	1.72	0.50
14:LL:203:ALA:HB1	14:LL:207:VAL:CG2	2.38	0.50
21:LS:31:ARG:O	21:LS:31:ARG:HG3	2.12	0.50
21:LS:83:ARG:H	21:LS:127:MET:CE	2.23	0.50
25:LW:90:ILE:CA	25:LW:93:LYS:HZ3	2.11	0.50
43:Lo:97:LYS:HE3	43:Lo:99:ARG:NH2	2.23	0.50
46:Lz:119:GLN:O	46:Lz:123:ILE:HG12	2.12	0.50
47:S2:1:U:H4'	47:S2:2:A:OP1	2.12	0.50
47:S2:35:C:H2'	47:S2:36:U:C6	2.46	0.50
47:S2:209:A:N6	47:S2:210:U:O2	2.44	0.50
47:S2:216:C:H41	47:S2:312:G:H22	1.59	0.50
47:S2:311:C:H3'	47:S2:312:G:C4'	2.41	0.50
47:S2:358:C:O2'	47:S2:359:U:H5'	2.12	0.50
47:S2:416:U:C2'	47:S2:417:C:H5'	2.31	0.50
47:S2:659:G:H4'	47:S2:660:C:OP1	2.11	0.50
47:S2:959:G:H1'	47:S2:964:A:H61	1.75	0.50
47:S2:1112:U:O2'	49:SB:146:ARG:NH1	2.44	0.50
47:S2:1225:U:H3	47:S2:1641:A:H61	1.59	0.50
47:S2:1236:G:H2'	47:S2:1237:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1467:C:H4'	59:SR:1:MET:HG2	1.92	0.50
47:S2:1533:A:C8	47:S2:1604:G:H1'	2.46	0.50
47:S2:1652:G:H2'	47:S2:1653:U:C5'	2.41	0.50
47:S2:1807:C:H2'	47:S2:1808:U:C6	2.46	0.50
50:SD:123:LEU:CD1	50:SD:127:MET:HE2	2.35	0.50
51:SE:121:TYR:HA	51:SE:164:LEU:HD13	1.93	0.50
53:SH:53:VAL:HG13	53:SH:55:GLY:O	2.11	0.50
58:SQ:16:LYS:HE3	58:SQ:82:TYR:CE2	2.46	0.50
58:SQ:60:LYS:O	58:SQ:60:LYS:HG3	2.11	0.50
59:SR:6:THR:HG22	59:SR:7:LYS:N	2.26	0.50
69:SC:102:LEU:HD13	69:SC:159:LYS:HE3	1.92	0.50
70:SG:6:SER:OG	70:SG:112:VAL:HA	2.12	0.50
73:SN:22:VAL:CB	73:SN:23:PRO:HD2	2.33	0.50
75:SW:34:ILE:O	75:SW:37:PHE:N	2.45	0.50
75:SW:95:PRO:HB3	75:SW:130:PHE:CD2	2.46	0.50
76:SY:113:ARG:HD2	76:SY:131:PRO:HB3	1.93	0.50
77:SZ:53:ALA:O	77:SZ:56:ASP:HB3	2.12	0.50
1:L5:943:A:N6	1:L5:946:C:H41	2.09	0.50
1:L5:1079:C:C5	1:L5:1080:C:C4	2.99	0.50
1:L5:1275:G:H2'	1:L5:1276:C:H1'	1.93	0.50
1:L5:1310:C:H2'	1:L5:1311:G:O4'	2.11	0.50
1:L5:1421:G:H2'	1:L5:1421:G:N3	2.27	0.50
1:L5:1538:U:H4'	1:L5:1629:G:C5'	2.41	0.50
1:L5:1885:G:C2	1:L5:1895:G:N3	2.79	0.50
1:L5:1961:G:N2	1:L5:2025:A:N7	2.59	0.50
1:L5:2078:C:OP1	33:Le:64:LYS:NZ	2.37	0.50
1:L5:2081:C:O2	1:L5:2276:A:H2	1.93	0.50
1:L5:2095:A:O2'	1:L5:2096:G:O5'	2.20	0.50
1:L5:2128:G:O2'	1:L5:2246:C:H1'	2.10	0.50
1:L5:2251:G:P	8:LE:85:LYS:HD2	2.51	0.50
1:L5:2543:A:C3'	1:L5:2546:G:H21	2.24	0.50
1:L5:2604:C:H3'	1:L5:2604:C:H6	1.76	0.50
1:L5:2808:G:H2'	1:L5:2809:G:H5'	1.92	0.50
1:L5:3930:U:C2	1:L5:3931:C:C5	3.00	0.50
1:L5:3939:G:H1'	1:L5:4076:G:H22	1.76	0.50
1:L5:4084:G:O2'	26:LX:44:PRO:HG2	2.12	0.50
1:L5:4103:C:H2'	1:L5:4105:A:C2	2.46	0.50
1:L5:4342:C:N3	1:L5:4370:G:N1	2.48	0.50
1:L5:4371:G:O2'	1:L5:4372:U:OP2	2.26	0.50
1:L5:4546:A:O2'	1:L5:4547:C:H5'	2.11	0.50
1:L5:4629:U:H5"	25:LW:18:GLY:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4640:C:C2'	1:L5:4641:U:H5'	2.41	0.50
1:L5:5025:C:C4	1:L5:5026:U:H1'	2.46	0.50
1:L5:5043:A:H2'	1:L5:5044:A:O4'	2.12	0.50
3:L8:104:A:H4'	3:L8:105:C:C5	2.46	0.50
4:LA:42:LYS:HG3	4:LA:89:TYR:HE1	1.74	0.50
5:LB:293:ILE:HA	5:LB:297:LYS:CA	2.42	0.50
8:LE:87:LYS:HZ3	8:LE:106:VAL:HG21	1.76	0.50
10:LG:177:MET:HE2	10:LG:177:MET:N	2.26	0.50
11:LH:92:MET:HE1	11:LH:181:VAL:CG2	2.42	0.50
17:LO:135:PHE:HE1	17:LO:137:TYR:CE1	2.29	0.50
17:LO:195:VAL:O	17:LO:198:THR:HB	2.12	0.50
19:LQ:184:ARG:O	19:LQ:186:TYR:N	2.44	0.50
24:LV:91:LYS:C	24:LV:93:GLY:H	2.20	0.50
26:LX:87:MET:O	26:LX:90:ILE:N	2.43	0.50
26:LX:116:LEU:HD12	26:LX:116:LEU:C	2.37	0.50
29:La:81:LEU:HD22	29:La:106:SER:CB	2.42	0.50
39:Lk:37:ARG:HG3	39:Lk:38:CYS:N	2.26	0.50
39:Lk:47:ILE:HG13	39:Lk:52:LYS:HD2	1.94	0.50
45:Lr:41:ASN:OD1	45:Lr:44:ILE:HD13	2.11	0.50
46:Lz:23:ARG:HA	46:Lz:212:LYS:HE3	1.93	0.50
46:Lz:60:ARG:HG2	46:Lz:171:HIS:HB2	1.93	0.50
47:S2:103:A:H5'	54:SI:12:ARG:HH12	1.77	0.50
47:S2:291:G:H21	47:S2:293:C:P	2.35	0.50
47:S2:319:C:H5'	47:S2:320:G:OP2	2.11	0.50
47:S2:695:C:H5	47:S2:696:G:N2	2.09	0.50
47:S2:1205:C:HO2'	47:S2:1834:A:H62	1.56	0.50
47:S2:1261:C:H2'	47:S2:1262:C:O4'	2.12	0.50
47:S2:1292:C:H2'	47:S2:1293:A:O4'	2.11	0.50
47:S2:1551:U:C4	47:S2:1577:G:H2'	2.47	0.50
47:S2:1610:G:H22	47:S2:1630:A:C1'	2.23	0.50
47:S2:1756:C:H3'	47:S2:1757:G:H8	1.76	0.50
47:S2:1863:A:C8	65:Sa:79:ILE:HD12	2.46	0.50
48:SA:91:ALA:HB1	48:SA:96:ALA:HB3	1.92	0.50
52:SF:21:GLY:HA3	52:SF:47:LYS:C	2.37	0.50
54:SI:174:CYS:N	54:SI:190:LEU:HG	2.24	0.50
56:SL:80:MET:HE1	56:SL:86:ILE:HB	1.93	0.50
60:SS:13:LEU:HG	60:SS:14:ARG:CG	2.33	0.50
60:SS:27:ALA:HB1	60:SS:42:HIS:HE1	1.75	0.50
63:SV:81:LYS:HG3	63:SV:82:ASN:N	2.27	0.50
65:Sa:58:VAL:HG23	74:SO:126:ILE:O	2.11	0.50
68:Sg:109:LEU:HD21	68:Sg:153:CYS:SG	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:SC:207:ALA:O	69:SC:210:PRO:HD2	2.11	0.50
70:SG:215:LYS:O	70:SG:219:GLU:HB2	2.11	0.50
70:SG:216:ARG:HA	70:SG:219:GLU:HB3	1.93	0.50
71:SJ:170:PRO:HB2	71:SJ:174:LYS:HG2	1.94	0.50
74:SO:61:LYS:NZ	74:SO:80:ASP:OD2	2.44	0.50
75:SW:106:THR:HG21	75:SW:111:MET:CE	2.42	0.50
76:SY:91:LEU:CG	76:SY:96:LEU:HG	2.41	0.50
78:Sb:72:ARG:HG2	78:Sb:73:LEU:O	2.11	0.50
1:L5:77:U:H2'	1:L5:78:U:O4'	2.11	0.50
1:L5:478:G:C2	1:L5:677:G:C2	3.00	0.50
1:L5:667:A:O2'	1:L5:668:C:O5'	2.18	0.50
1:L5:1511:U:H6	1:L5:1511:U:H3'	1.76	0.50
1:L5:1858:A:H2'	1:L5:1859:C:C6	2.46	0.50
1:L5:1982:G:H2'	1:L5:1983:A:O4'	2.12	0.50
1:L5:2252:G:O2'	1:L5:2254:G:OP2	2.27	0.50
1:L5:2677:G:H2'	1:L5:2678:A:O4'	2.11	0.50
1:L5:2723:U:H2'	1:L5:2724:G:H5'	1.93	0.50
1:L5:2758:G:H21	1:L5:2765:A:H2	1.58	0.50
1:L5:3956:G:H4'	1:L5:3964:U:C2	2.47	0.50
1:L5:4184:G:H3'	1:L5:4185:G:H5"	1.93	0.50
1:L5:4885:U:H5	8:LE:272:ARG:NH2	2.09	0.50
2:L7:31:G:H22	2:L7:34:C:N4	2.09	0.50
2:L7:71:G:H2'	2:L7:72:U:O4'	2.11	0.50
3:L8:8:U:H2'	3:L8:9:A:C8	2.37	0.50
3:L8:23:C:H4'	3:L8:24:G:OP2	2.10	0.50
3:L8:148:A:C2	3:L8:149:G:C4	3.00	0.50
4:LA:70:LYS:HD2	4:LA:72:ARG:NE	2.14	0.50
4:LA:178:PRO:HG2	44:Lp:26:VAL:HG12	1.94	0.50
6:LC:60:HIS:HA	6:LC:92:PHE:CE1	2.46	0.50
6:LC:200:ARG:NH2	6:LC:201:ARG:HH12	2.09	0.50
7:LD:233:PRO:HA	7:LD:236:MET:SD	2.51	0.50
8:LE:96:VAL:CG1	8:LE:105:ARG:H	2.25	0.50
13:LJ:94:LEU:HB3	13:LJ:98:ASN:OD1	2.11	0.50
16:LN:44:ARG:HD3	16:LN:119:TYR:CD1	2.46	0.50
17:LO:145:VAL:O	17:LO:145:VAL:HG22	2.12	0.50
21:LS:13:VAL:HB	21:LS:63:TYR:HB3	1.94	0.50
27:LY:50:ARG:HH11	27:LY:51:LYS:H	1.60	0.50
27:LY:125:SER:O	27:LY:128:VAL:HB	2.12	0.50
28:LZ:36:ARG:NH1	28:LZ:38:TYR:OH	2.36	0.50
30:Lb:23:LYS:HB3	30:Lb:24:PRO:HD2	1.93	0.50
39:Lk:60:LEU:C	39:Lk:62:PRO:HD2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:95:LYS:HZ2	46:Lz:126:PRO:HB2	1.77	0.50
47:S2:65:C:C6	70:SG:133:LEU:HD23	2.47	0.50
47:S2:128:U:H5'	47:S2:215:G:N9	2.26	0.50
47:S2:524:U:H5"	47:S2:525:A:C1'	2.42	0.50
47:S2:904:A:H8	47:S2:905:C:C1'	2.24	0.50
47:S2:931:C:O2'	47:S2:932:G:H5'	2.11	0.50
47:S2:946:U:O2'	47:S2:947:G:H5'	2.12	0.50
47:S2:1075:C:N3	47:S2:1076:G:C5	2.80	0.50
47:S2:1099:G:C2	47:S2:1134:G:C2	3.00	0.50
47:S2:1419:C:H5'	61:ST:129:ARG:HG3	1.94	0.50
47:S2:1476:A:O2'	47:S2:1477:U:H5'	2.11	0.50
47:S2:1608:U:C4	47:S2:1609:C:C4	3.00	0.50
47:S2:1673:U:OP1	58:SQ:78:VAL:N	2.36	0.50
48:SA:50:ASN:ND2	48:SA:53:ARG:HH11	2.10	0.50
48:SA:176:TRP:CE3	48:SA:199:PRO:HG3	2.46	0.50
49:SB:65:ARG:NE	74:SO:50:LYS:HD2	2.26	0.50
51:SE:76:VAL:O	51:SE:77:ARG:HD3	2.11	0.50
52:SF:179:ASN:HB3	52:SF:187:SER:HG	1.77	0.50
53:SH:134:VAL:O	53:SH:134:VAL:HG23	2.11	0.50
54:SI:65:PHE:HD1	54:SI:187:GLY:H	1.58	0.50
54:SI:149:TYR:HE1	54:SI:152:ARG:CZ	2.25	0.50
58:SQ:35:ASN:HB3	58:SQ:37:ARG:NH1	2.17	0.50
59:SR:20:TYR:O	59:SR:24:LEU:HG	2.11	0.50
61:ST:64:LEU:HD22	61:ST:123:LEU:HG	1.93	0.50
66:Sc:20:ARG:HA	66:Sc:28:THR:HG22	1.94	0.50
66:Sc:20:ARG:O	66:Sc:28:THR:HG22	2.12	0.50
68:Sg:85:GLY:HA3	68:Sg:104:HIS:HB2	1.93	0.50
68:Sg:156:PHE:O	68:Sg:200:VAL:HG11	2.11	0.50
69:SC:138:GLY:HA3	69:SC:161:SER:C	2.37	0.50
71:SJ:107:GLU:HG2	71:SJ:116:LYS:NZ	2.26	0.50
72:SM:20:GLU:CD	72:SM:124:ILE:HG21	2.36	0.50
76:SY:55:ILE:HG13	76:SY:75:ILE:CG2	2.42	0.50
76:SY:74:MET:C	76:SY:75:ILE:HG13	2.37	0.50
76:SY:103:SER:OG	76:SY:106:GLN:OE1	2.28	0.50
1:L5:90:G:OP1	43:Lo:43:ARG:NH1	2.24	0.50
1:L5:207:G:H5"	1:L5:208:A:OP2	2.12	0.50
1:L5:493:G:H2'	1:L5:494:U:C6	2.47	0.50
1:L5:502:C:H5'	1:L5:503:C:C6	2.46	0.50
1:L5:695:G:N2	1:L5:697:G:O4'	2.45	0.50
1:L5:708:G:N2	1:L5:1289:C:H42	2.09	0.50
1:L5:1337:A:N7	1:L5:1660:U:H5	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1354:A:N6	1:L5:1503:A:O4'	2.45	0.50
1:L5:1691:G:H8	19:LQ:13:VAL:CG1	2.25	0.50
1:L5:1962:A:C5	1:L5:2025:A:C2	2.99	0.50
1:L5:2003:G:O2'	1:L5:2005:G:OP2	2.26	0.50
1:L5:2066:C:O2'	1:L5:2067:C:H5'	2.11	0.50
1:L5:2259:G:H5"	1:L5:2260:C:O5'	2.11	0.50
1:L5:2489:C:H4'	1:L5:2491:C:H42	1.76	0.50
1:L5:2563:C:H5'	1:L5:2564:G:OP2	2.11	0.50
1:L5:2635:U:O2'	1:L5:2636:U:H5'	2.11	0.50
1:L5:2808:G:C2'	1:L5:2809:G:H5'	2.42	0.50
1:L5:2884:G:H21	1:L5:2885:A:H1'	1.76	0.50
1:L5:2892:C:O2'	1:L5:2893:U:H5'	2.12	0.50
1:L5:3644:U:O2	1:L5:4554:G:O2'	2.29	0.50
1:L5:3766:A:N6	47:S2:1850:A:C4	2.69	0.50
1:L5:3921:U:C5	1:L5:4183:G:C2	3.00	0.50
1:L5:3923:A:H1'	1:L5:4381:A:C8	2.46	0.50
1:L5:4603:C:N4	1:L5:4608:G:H1	2.09	0.50
1:L5:4612:C:N3	11:LH:120:GLU:HG3	2.27	0.50
1:L5:4670:C:H5'	1:L5:4671:C:OP1	2.12	0.50
1:L5:4731:G:H5'	1:L5:4732:G:H1	1.75	0.50
1:L5:4939:C:H42	8:LE:220:LYS:H	1.60	0.50
5:LB:87:VAL:HG21	5:LB:110:ILE:HD12	1.92	0.50
5:LB:304:SER:O	5:LB:309:LEU:N	2.39	0.50
6:LC:152:LEU:HD12	6:LC:153:VAL:H	1.77	0.50
8:LE:50:LEU:CD1	8:LE:51:VAL:HG23	2.38	0.50
8:LE:110:ARG:O	8:LE:111:LYS:HB2	2.12	0.50
11:LH:172:ILE:HD11	41:Lm:124:LYS:NZ	2.26	0.50
13:LJ:87:LEU:CD2	13:LJ:166:PHE:HE1	2.24	0.50
14:LL:103:ARG:HH21	14:LL:105:LYS:HD2	1.77	0.50
16:LN:143:ARG:NH2	36:Lh:93:ARG:O	2.41	0.50
17:LO:197:LYS:HE2	17:LO:202:LEU:CD2	2.41	0.50
23:LU:28:PRO:HA	23:LU:114:TYR:OH	2.12	0.50
23:LU:54:GLY:C	23:LU:56:LEU:H	2.19	0.50
24:LV:16:ILE:HD12	24:LV:57:VAL:HG12	1.92	0.50
24:LV:71:GLU:O	24:LV:75:LYS:NZ	2.39	0.50
25:LW:63:GLN:H	25:LW:63:GLN:CD	2.19	0.50
25:LW:98:PRO:CB	25:LW:105:ARG:HH12	2.25	0.50
25:LW:105:ARG:O	25:LW:109:ILE:HG13	2.11	0.50
28:LZ:5:MET:HE2	28:LZ:77:TYR:CD1	2.46	0.50
29:La:125:LYS:HB3	29:La:147:VAL:HG23	1.94	0.50
31:Lc:11:LEU:HB2	31:Lc:75:SER:OG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Ld:65:ASP:HB3	32:Ld:107:THR:HA	1.92	0.50
35:Lg:3:GLN:NE2	35:Lg:30:ILE:HB	2.26	0.50
35:Lg:101:LYS:O	35:Lg:105:LYS:HB2	2.10	0.50
38:Lj:40:PRO:CD	38:Lj:41:ALA:H	2.23	0.50
44:Lp:22:LEU:CA	44:Lp:25:MET:HG2	2.39	0.50
47:S2:141:A:O2'	47:S2:179:C:O2	2.30	0.50
47:S2:533:A:N7	47:S2:534:G:N7	2.59	0.50
47:S2:634:A:H2'	47:S2:635:G:C8	2.41	0.50
47:S2:854:A:C2'	47:S2:855:G:H5'	2.41	0.50
47:S2:1087:A:C5	47:S2:1861:G:C6	3.00	0.50
47:S2:1115:U:O3'	47:S2:1116:C:H3'	2.11	0.50
47:S2:1256:G:N2	62:SU:64:THR:O	2.45	0.50
47:S2:1392:U:OP1	62:SU:83:ARG:NH2	2.41	0.50
48:SA:58:LEU:HD22	48:SA:174:MET:SD	2.52	0.50
49:SB:171:ILE:O	49:SB:174:ARG:HG2	2.12	0.50
51:SE:153:LEU:HA	51:SE:155:LYS:NZ	2.27	0.50
53:SH:146:VAL:HG21	75:SW:50:PHE:CZ	2.46	0.50
55:SK:81:ASP:CA	55:SK:85:LEU:HD23	2.41	0.50
58:SQ:33:LYS:O	58:SQ:69:ARG:HA	2.11	0.50
62:SU:34:LYS:O	62:SU:38:ASP:HB2	2.11	0.50
68:Sg:111:VAL:HG23	68:Sg:123:GLY:H	1.75	0.50
68:Sg:239:LEU:CD1	68:Sg:250:ALA:HB2	2.41	0.50
72:SM:35:ILE:HA	72:SM:108:CYS:HB2	1.94	0.50
72:SM:49:LEU:HB3	72:SM:77:ILE:HD13	1.89	0.50
72:SM:67:ALA:CA	80:Sf:112:GLY:HA2	2.42	0.50
74:SO:60:MET:O	74:SO:61:LYS:HD3	2.12	0.50
76:SY:14:THR:HG22	76:SY:21:LYS:HB2	1.93	0.50
78:Sb:54:VAL:HG23	78:Sb:64:CYS:SG	2.52	0.50
1:L5:208:A:H1'	1:L5:232:G:C2	2.47	0.50
1:L5:399:G:H1'	18:LP:97:ASN:ND2	2.27	0.50
1:L5:506:C:H2'	1:L5:507:G:O4'	2.12	0.50
1:L5:695:G:H2'	1:L5:696:C:C5'	2.26	0.50
1:L5:709:C:H2'	1:L5:710:G:C8	2.38	0.50
1:L5:1317:U:H5"	1:L5:1318:C:OP2	2.11	0.50
1:L5:2015:U:H2'	1:L5:2016:C:C6	2.47	0.50
1:L5:2484:A:H62	1:L5:2486:G:H1	1.58	0.50
1:L5:2621:A:H2'	1:L5:2622:G:C8	2.47	0.50
1:L5:3650:C:O5'	1:L5:3650:C:H6	1.95	0.50
1:L5:3701:C:N4	1:L5:3746:A:N3	2.59	0.50
1:L5:3706:C:H2'	1:L5:3707:U:H6	1.75	0.50
1:L5:4165:C:H2'	1:L5:4166:G:O4'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4239:A:O2'	1:L5:4240:G:H5'	2.12	0.50
1:L5:4730:C:H1'	1:L5:4731:G:H5"	1.93	0.50
1:L5:4744:A:H2'	1:L5:4745:G:H8	1.76	0.50
1:L5:4901:G:H22	1:L5:4921:C:H1'	1.76	0.50
1:L5:4989:U:C5	1:L5:4991:U:H1'	2.47	0.50
1:L5:5059:C:H2'	1:L5:5060:A:C4'	2.42	0.50
5:LB:185:VAL:HG12	5:LB:186:ASN:N	2.27	0.50
7:LD:163:LEU:O	7:LD:166:ALA:N	2.44	0.50
8:LE:178:PRO:CD	8:LE:181:LEU:HD12	2.39	0.50
8:LE:237:LYS:O	8:LE:237:LYS:HG3	2.12	0.50
12:LI:54:SER:HA	12:LI:163:GLN:HG2	1.93	0.50
12:LI:97:ILE:HG13	12:LI:126:VAL:HG12	1.92	0.50
13:LJ:96:LYS:HZ1	13:LJ:163:MET:HE1	1.76	0.50
14:LL:130:LYS:CD	14:LL:132:SER:HB2	2.41	0.50
14:LL:178:ALA:HB1	29:La:146:LEU:HD13	1.92	0.50
15:LM:126:GLU:HA	15:LM:129:LYS:CB	2.42	0.50
16:LN:9:GLU:CD	37:Li:41:ARG:HE	2.20	0.50
18:LP:24:VAL:HG12	18:LP:86:LYS:CE	2.41	0.50
19:LQ:36:ALA:HB1	19:LQ:45:GLN:HB3	1.94	0.50
20:LR:154:LEU:O	20:LR:154:LEU:HD23	2.12	0.50
21:LS:13:VAL:HG22	21:LS:29:ARG:CB	2.41	0.50
27:LY:22:PRO:CG	27:LY:25:ILE:HD12	2.42	0.50
28:LZ:29:ILE:HG22	28:LZ:29:ILE:O	2.12	0.50
29:La:102:ASP:OD2	29:La:105:ARG:N	2.43	0.50
29:La:121:PRO:HA	29:La:140:VAL:CG1	2.41	0.50
31:Lc:81:LEU:HD12	31:Lc:84:ALA:CB	2.40	0.50
40:Ll:46:ARG:O	40:Ll:47:THR:OG1	2.28	0.50
45:Lr:31:ASN:HB3	45:Lr:34:ALA:HA	1.93	0.50
46:Lz:120:ILE:HG23	46:Lz:121:PRO:CD	2.42	0.50
46:Lz:162:VAL:CG1	46:Lz:163:LEU:HG	2.38	0.50
47:S2:31:U:H5'	47:S2:596:U:OP1	2.12	0.50
47:S2:67:C:H6	70:SG:170:ARG:HD2	1.72	0.50
47:S2:168:C:H4'	47:S2:168:C:OP1	2.12	0.50
47:S2:219:U:H3'	47:S2:219:U:OP2	2.12	0.50
47:S2:223:C:N4	47:S2:299:A:N1	2.60	0.50
47:S2:733:C:H2'	47:S2:734:C:C1'	2.42	0.50
47:S2:748:C:N4	47:S2:751:G:H8	2.09	0.50
47:S2:894:G:H8	47:S2:895:G:C5'	2.25	0.50
47:S2:1521:C:H4'	60:SS:145:THR:HA	1.93	0.50
47:S2:1578:U:H4'	47:S2:1579:A:O4'	2.11	0.50
47:S2:1591:C:OP1	52:SF:85:LYS:NZ	2.22	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1641:A:H2'	47:S2:1642:U:O4'	2.12	0.50
47:S2:1747:C:H2'	47:S2:1748:G:H5"	1.92	0.50
48:SA:85:ARG:NH2	59:SR:81:ARG:O	2.44	0.50
48:SA:89:LYS:HB3	48:SA:202:TYR:HE1	1.77	0.50
50:SD:95:GLY:O	50:SD:188:ILE:HD13	2.12	0.50
51:SE:47:PHE:CZ	51:SE:99:PHE:HE2	2.30	0.50
52:SF:69:VAL:CG2	52:SF:112:LEU:HD21	2.39	0.50
52:SF:97:PHE:HZ	52:SF:112:LEU:HD22	1.76	0.50
52:SF:140:ASP:N	66:Sc:63:ARG:HH22	2.09	0.50
52:SF:194:ASP:HA	52:SF:197:GLU:OE2	2.12	0.50
53:SH:136:PRO:HG2	53:SH:166:VAL:HG23	1.93	0.50
56:SL:84:ARG:NH1	56:SL:115:PRO:HB3	2.26	0.50
58:SQ:52:LEU:CD1	58:SQ:56:LEU:HD22	2.42	0.50
62:SU:82:MET:HG2	67:Sd:52:PHE:HE1	1.76	0.50
68:Sg:230:LEU:HB3	68:Sg:259:TRP:CH2	2.47	0.50
70:SG:7:PHE:HE2	70:SG:10:THR:HB	1.75	0.50
70:SG:116:LYS:HZ3	70:SG:125:THR:HG21	1.75	0.50
70:SG:213:LEU:C	70:SG:216:ARG:H	2.20	0.50
71:SJ:64:ASP:OD1	71:SJ:65:GLU:N	2.45	0.50
72:SM:67:ALA:HA	80:Sf:112:GLY:CA	2.41	0.50
1:L5:162:A:C2	1:L5:163:A:C4	3.00	0.50
1:L5:984:C:H2'	1:L5:985:C:O4'	2.12	0.50
1:L5:1266:G:H2'	1:L5:1268:G:OP1	2.11	0.50
1:L5:1267:C:C4	1:L5:2121:C:H2'	2.46	0.50
1:L5:1506:G:C2'	6:LC:116:ASN:HD21	2.25	0.50
1:L5:1511:U:H3'	1:L5:1511:U:C6	2.46	0.50
1:L5:1957:U:H3	1:L5:2026:A:H61	1.60	0.50
1:L5:1982:G:O3'	1:L5:1983:A:H4'	2.11	0.50
1:L5:2318:G:P	33:Le:14:LYS:HE3	2.52	0.50
1:L5:2439:G:H2'	1:L5:2440:U:H5'	1.93	0.50
1:L5:2903:G:O2'	1:L5:2905:C:N4	2.38	0.50
1:L5:3596:A:H5"	1:L5:3597:G:OP1	2.11	0.50
1:L5:3921:U:H5	1:L5:4183:G:C2	2.30	0.50
1:L5:4059:C:O2'	1:L5:4060:U:H5'	2.12	0.50
1:L5:4236:G:H4'	1:L5:4328:G:O2'	2.12	0.50
1:L5:4323:A:N1	7:LD:148:ALA:HB2	2.27	0.50
1:L5:4613:C:O2	11:LH:121:LYS:HE2	2.12	0.50
1:L5:4654:C:O5'	1:L5:4654:C:H6	1.95	0.50
1:L5:4683:U:H5	1:L5:4706:G:H21	1.60	0.50
1:L5:4762:A:C1'	21:LS:174:THR:HG21	2.38	0.50
1:L5:5059:C:H2'	1:L5:5060:A:H5"	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:30:C:H5”	2:L7:31:G:OP2	2.12	0.50
3:L8:68:G:H2’	3:L8:69:U:H6	1.77	0.50
4:LA:185:ALA:O	4:LA:188:LYS:HB3	2.12	0.50
5:LB:163:ILE:HG21	5:LB:180:LEU:HD21	1.93	0.50
5:LB:380:GLN:HB2	5:LB:384:GLU:OE1	2.12	0.50
7:LD:237:GLU:HG2	7:LD:241:LYS:HZ1	1.77	0.50
9:LF:243:LEU:C	9:LF:243:LEU:HD23	2.37	0.50
10:LG:156:VAL:O	10:LG:157:ILE:HB	2.12	0.50
11:LH:113:GLU:OE1	11:LH:125:ARG:HG2	2.11	0.50
12:LI:86:HIS:O	12:LI:138:ILE:HG23	2.12	0.50
13:LJ:17:ILE:CD1	13:LJ:80:GLU:HG2	2.36	0.50
13:LJ:95:ARG:HG2	13:LJ:175:LEU:HD11	1.93	0.50
13:LJ:95:ARG:HG2	13:LJ:175:LEU:HD12	1.94	0.50
14:LL:19:GLN:HA	14:LL:22:VAL:HG13	1.94	0.50
14:LL:56:ARG:HD2	14:LL:73:GLY:O	2.11	0.50
18:LP:36:ILE:CD1	18:LP:44:ALA:HB1	2.38	0.50
21:LS:106:VAL:HG13	21:LS:126:ILE:HD11	1.93	0.50
26:LX:96:LEU:HD13	26:LX:98:PHE:HZ	1.77	0.50
29:La:81:LEU:HD22	29:La:106:SER:OG	2.11	0.50
31:Lc:48:LEU:HD12	31:Lc:73:HIS:CE1	2.47	0.50
44:Lp:67:GLY:HA3	44:Lp:73:THR:CG2	2.37	0.50
45:Lr:33:LYS:HD3	45:Lr:40:TYR:CE2	2.47	0.50
46:Lz:53:VAL:HG11	46:Lz:155:ILE:HG12	1.93	0.50
46:Lz:141:ASN:HA	46:Lz:149:ASP:OD2	2.12	0.50
46:Lz:182:ASN:O	46:Lz:183:ILE:HG13	2.11	0.50
47:S2:171:A:N1	47:S2:173:A:H1’	2.26	0.50
47:S2:216:C:H5	47:S2:312:G:H21	1.60	0.50
47:S2:380:G:H5”	54:SI:54:LYS:NZ	2.26	0.50
47:S2:552:G:N3	47:S2:552:G:C2’	2.74	0.50
47:S2:847:A:H3’	47:S2:848:U:C5	2.46	0.50
47:S2:941:C:C2’	47:S2:942:G:H5’	2.42	0.50
47:S2:1132:C:H2’	47:S2:1133:A:O4’	2.12	0.50
47:S2:1344:A:H4’	47:S2:1345:G:OP1	2.11	0.50
47:S2:1402:A:N7	47:S2:1406:G:N2	2.59	0.50
47:S2:1429:G:H5’	58:SQ:36:GLY:HA3	1.93	0.50
47:S2:1693:G:H21	47:S2:1834:A:H1’	1.76	0.50
48:SA:111:GLN:HB3	69:SC:89:LYS:HZ1	1.77	0.50
51:SE:207:VAL:HA	51:SE:220:THR:O	2.12	0.50
55:SK:26:ASP:OD2	55:SK:42:ASN:ND2	2.44	0.50
57:SP:42:ARG:O	57:SP:45:LEU:HB2	2.12	0.50
61:ST:15:VAL:CG1	61:ST:62:ARG:HH11	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:SV:4:ASP:OD1	63:SV:5:ALA:N	2.45	0.50
63:SV:30:ALA:O	63:SV:60:ARG:HD3	2.11	0.50
68:Sg:24:THR:HG23	68:Sg:30:MET:HB3	1.93	0.50
68:Sg:277:THR:HG22	68:Sg:278:SER:N	2.27	0.50
69:SC:138:GLY:HA3	69:SC:161:SER:O	2.12	0.50
70:SG:73:VAL:O	70:SG:97:VAL:HG12	2.12	0.50
70:SG:98:ARG:HH11	70:SG:99:GLY:N	2.06	0.50
70:SG:129:VAL:N	70:SG:130:PRO:CD	2.73	0.50
73:SN:48:SER:O	73:SN:52:VAL:HG23	2.12	0.50
79:Se:28:LYS:O	79:Se:33:LYS:HB2	2.12	0.50
1:L5:47:A:H5"	14:LL:16:LYS:HG3	1.94	0.49
1:L5:178:C:C2'	1:L5:258:G:H22	2.25	0.49
1:L5:368:C:H2'	1:L5:369:G:C5'	2.40	0.49
1:L5:418:A:N6	3:L8:16:G:H1'	2.22	0.49
1:L5:963:G:H1'	1:L5:2252:G:O6	2.12	0.49
1:L5:1260:G:H2'	1:L5:1260:G:N3	2.25	0.49
1:L5:1483:C:O2'	1:L5:1483:C:O2	2.29	0.49
1:L5:1833:G:O2'	1:L5:1834:U:OP1	2.28	0.49
1:L5:2588:C:C5'	1:L5:2589:C:H5"	2.42	0.49
1:L5:2599:G:H2'	1:L5:2600:A:C8	2.47	0.49
1:L5:2831:G:C2'	1:L5:2832:A:H5'	2.42	0.49
1:L5:3632:C:C2'	1:L5:3633:C:H5'	2.41	0.49
1:L5:3661:G:N7	4:LA:152:SER:OG	2.41	0.49
1:L5:3894:A:C2	1:L5:4567:G:C2	3.00	0.49
1:L5:4574:U:OP2	1:L5:4574:U:H3'	2.12	0.49
1:L5:4731:G:O2'	1:L5:4734:A:OP2	2.29	0.49
1:L5:4979:A:H8	1:L5:4979:A:O5'	1.94	0.49
2:L7:115:A:O2'	2:L7:116:G:H5'	2.12	0.49
3:L8:111:U:H5	40:Ll:7:PHE:CE2	2.30	0.49
5:LB:298:LEU:HD12	5:LB:298:LEU:O	2.11	0.49
6:LC:138:MET:HG2	6:LC:144:ILE:HG12	1.94	0.49
6:LC:214:ASP:OD1	6:LC:215:ASN:N	2.45	0.49
7:LD:186:GLU:N	7:LD:186:GLU:OE1	2.45	0.49
11:LH:41:ILE:HG12	11:LH:69:THR:OG1	2.11	0.49
13:LJ:62:ILE:HA	13:LJ:66:GLU:OE1	2.10	0.49
14:LL:56:ARG:O	14:LL:116:ARG:NH2	2.45	0.49
15:LM:11:ARG:HH11	15:LM:61:ILE:CG2	2.24	0.49
18:LP:22:LEU:HD12	18:LP:22:LEU:O	2.12	0.49
25:LW:1:MET:O	25:LW:2:LYS:HB2	2.12	0.49
33:Le:54:LEU:HD23	33:Le:60:TYR:OH	2.11	0.49
37:Li:36:HIS:O	37:Li:39:PHE:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:118:C:C2'	47:S2:119:U:H5'	2.41	0.49
47:S2:158:A:N6	47:S2:466:G:O6	2.45	0.49
47:S2:420:G:N2	47:S2:660:C:H41	2.08	0.49
47:S2:540:U:O2	47:S2:540:U:H2'	2.11	0.49
47:S2:589:G:H5'	47:S2:590:A:N7	2.27	0.49
47:S2:612:U:O2'	47:S2:613:G:OP1	2.30	0.49
47:S2:880:G:H3'	47:S2:881:G:O4'	2.12	0.49
47:S2:1141:G:H2'	47:S2:1142:G:O4'	2.12	0.49
47:S2:1414:A:N6	47:S2:1419:C:N4	2.60	0.49
48:SA:185:MET:HA	63:SV:45:ARG:HA	1.94	0.49
50:SD:37:VAL:HG12	50:SD:50:ILE:HA	1.94	0.49
51:SE:47:PHE:CZ	51:SE:99:PHE:CE2	2.99	0.49
51:SE:92:ILE:HB	51:SE:95:THR:CG2	2.42	0.49
51:SE:114:ILE:HG22	51:SE:115:THR:O	2.12	0.49
52:SF:21:GLY:HA2	52:SF:48:TYR:HA	1.94	0.49
52:SF:34:SER:HA	66:Sc:55:VAL:HG11	1.94	0.49
53:SH:69:LEU:O	53:SH:73:GLN:HG2	2.12	0.49
53:SH:159:ASP:O	53:SH:161:ALA:N	2.41	0.49
55:SK:52:LEU:O	55:SK:56:GLY:N	2.45	0.49
57:SP:97:TYR:HD1	57:SP:100:LYS:CD	2.25	0.49
58:SQ:21:ALA:HB3	58:SQ:87:SER:CB	2.42	0.49
58:SQ:47:LEU:O	58:SQ:50:LYS:HG2	2.11	0.49
61:ST:115:LYS:HA	61:ST:121:ARG:CB	2.36	0.49
62:SU:56:MET:CE	62:SU:86:LYS:HD2	2.42	0.49
64:SX:125:VAL:HG12	64:SX:130:LEU:HD13	1.90	0.49
70:SG:186:GLN:HA	70:SG:189:ARG:HE	1.76	0.49
71:SJ:136:ARG:HH11	71:SJ:139:LYS:HA	1.77	0.49
72:SM:52:GLN:HG2	72:SM:77:ILE:O	2.12	0.49
80:Sf:141:CYS:CB	80:Sf:145:CYS:HA	2.40	0.49
1:L5:140:G:H2'	1:L5:141:C:C6	2.46	0.49
1:L5:177:G:H2'	1:L5:178:C:C5'	2.41	0.49
1:L5:311:G:C2	1:L5:312:G:N7	2.80	0.49
1:L5:399:G:OP1	18:LP:20:SER:HB3	2.12	0.49
1:L5:982:U:H3	1:L5:1071:C:N4	2.02	0.49
1:L5:1233:G:H2'	1:L5:1234:G:C8	2.46	0.49
1:L5:1316:G:OP1	33:Le:40:GLY:HA3	2.13	0.49
1:L5:1365:C:O2'	1:L5:1366:G:H3'	2.12	0.49
1:L5:1667:G:O2'	1:L5:1668:A:O5'	2.26	0.49
1:L5:2468:U:N3	1:L5:2506:G:C2	2.81	0.49
1:L5:3651:A:N6	1:L5:3652:A:N1	2.59	0.49
1:L5:3715:U:C2'	1:L5:3716:C:H5'	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3872:A:O2'	1:L5:3873:G:H5'	2.11	0.49
1:L5:4085:A:N7	10:LG:56:LYS:HA	2.27	0.49
1:L5:4195:G:OP1	12:LI:116:ARG:HG3	2.12	0.49
1:L5:4277:G:N2	1:L5:4332:C:C4	2.80	0.49
1:L5:4763:U:O2	11:LH:44:GLU:N	2.44	0.49
1:L5:4942:C:OP1	8:LE:187:ARG:NH2	2.45	0.49
1:L5:5014:A:O2'	1:L5:5015:G:H5'	2.11	0.49
4:LA:4:VAL:HG23	4:LA:8:GLN:CD	2.37	0.49
5:LB:371:THR:HG21	25:LW:17:HIS:CE1	2.48	0.49
10:LG:29:ASN:ND2	10:LG:31:LEU:HB3	2.26	0.49
10:LG:87:LEU:HD23	10:LG:184:ILE:HD11	1.93	0.49
10:LG:211:ASP:O	10:LG:214:ALA:HB3	2.12	0.49
10:LG:248:ALA:HA	10:LG:251:ALA:HB3	1.94	0.49
12:LI:110:ARG:O	12:LI:112:GLN:N	2.45	0.49
13:LJ:128:LEU:HD12	13:LJ:128:LEU:C	2.37	0.49
14:LL:8:MET:HE2	19:LQ:166:TYR:HB3	1.93	0.49
17:LO:22:ILE:CG2	17:LO:23:VAL:N	2.74	0.49
26:LX:71:LEU:HD23	26:LX:71:LEU:O	2.11	0.49
33:Le:15:LYS:HD2	33:Le:60:TYR:C	2.37	0.49
33:Le:16:ARG:HG2	33:Le:17:THR:N	2.26	0.49
33:Le:24:GLN:HG2	33:Le:27:ARG:CD	2.42	0.49
46:Lz:159:MET:HG2	46:Lz:160:LYS:O	2.11	0.49
46:Lz:206:ILE:O	46:Lz:206:ILE:HG13	2.11	0.49
47:S2:195:C:H2'	47:S2:195:C:O2	2.13	0.49
47:S2:435:A:H3'	47:S2:450:C:H5	1.77	0.49
47:S2:659:G:H3'	47:S2:659:G:N3	2.27	0.49
47:S2:753:C:N4	47:S2:791:C:OP1	2.45	0.49
47:S2:875:A:H5'	53:SH:112:ASN:ND2	2.27	0.49
47:S2:1046:U:H2'	47:S2:1047:C:C6	2.47	0.49
47:S2:1137:U:H2'	47:S2:1138:C:H3'	1.94	0.49
47:S2:1256:G:H5'	47:S2:1257:G:O5'	2.12	0.49
47:S2:1285:G:H4'	72:SM:36:ARG:CD	2.42	0.49
47:S2:1589:A:H5'	61:ST:92:PHE:HD1	1.77	0.49
47:S2:1596:U:C2'	47:S2:1603:G:H22	2.25	0.49
47:S2:1597:C:OP1	60:SS:25:LYS:NZ	2.37	0.49
47:S2:1636:G:H1'	52:SF:164:ARG:HH12	1.74	0.49
47:S2:1803:U:H2'	47:S2:1804:U:C5'	2.42	0.49
49:SB:129:THR:HG23	49:SB:131:ASP:OD1	2.12	0.49
50:SD:32:ASP:OD2	50:SD:58:VAL:HG12	2.12	0.49
51:SE:99:PHE:CB	51:SE:113:ARG:HA	2.42	0.49
59:SR:6:THR:O	59:SR:9:VAL:HB	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Sa:10:ARG:NH1	65:Sa:33:ASP:OD1	2.45	0.49
68:Sg:107:ASP:O	68:Sg:126:ASP:HB3	2.11	0.49
69:SC:127:PHE:CD1	69:SC:141:VAL:HG22	2.46	0.49
71:SJ:91:LYS:HD3	71:SJ:96:TYR:CG	2.46	0.49
71:SJ:144:ILE:HG22	71:SJ:146:SER:N	2.28	0.49
72:SM:75:ASN:HA	72:SM:76:LEU:CB	2.39	0.49
74:SO:39:ASP:HB2	74:SO:68:GLU:HG2	1.93	0.49
77:SZ:100:VAL:HG12	77:SZ:108:ILE:CB	2.34	0.49
1:L5:317:A:H2	1:L5:318:A:C4	2.30	0.49
1:L5:353:A:C6	1:L5:360:A:C8	3.01	0.49
1:L5:441:G:H4'	34:Lf:93:PRO:HG3	1.94	0.49
1:L5:674:G:H2'	1:L5:675:C:H6	1.76	0.49
1:L5:714:G:H5'	6:LC:316:LYS:HG2	1.94	0.49
1:L5:751:G:N2	1:L5:752:G:N7	2.60	0.49
1:L5:991:C:C2'	1:L5:992:C:H5'	2.42	0.49
1:L5:1070:G:C3'	1:L5:1071:C:H5"	2.42	0.49
1:L5:1270:A:H3'	1:L5:1270:A:OP2	2.11	0.49
1:L5:1676:C:H2'	1:L5:4378:A:C2	2.47	0.49
1:L5:1758:G:H1'	1:L5:1775:A:C2	2.41	0.49
1:L5:1961:G:H2'	1:L5:2025:A:H61	1.77	0.49
1:L5:2064:G:N2	1:L5:2065:G:H1'	2.27	0.49
1:L5:2089:G:C6	1:L5:2262:G:H3'	2.48	0.49
1:L5:2354:G:N2	1:L5:2355:G:H1'	2.26	0.49
1:L5:2739:C:H4'	44:Lp:52:VAL:HG21	1.93	0.49
1:L5:3652:A:H5"	1:L5:3653:A:P	2.52	0.49
1:L5:3775:A:H3'	1:L5:3776:G:H5"	1.93	0.49
2:L7:113:G:N3	7:LD:71:GLY:HA3	2.28	0.49
4:LA:46:LYS:O	4:LA:84:THR:HG22	2.12	0.49
5:LB:44:THR:CG2	5:LB:349:LYS:HD3	2.41	0.49
8:LE:87:LYS:NZ	8:LE:106:VAL:HG21	2.27	0.49
8:LE:287:VAL:HG11	15:LM:105:THR:HA	1.92	0.49
10:LG:160:ASP:O	10:LG:187:LYS:HD3	2.12	0.49
11:LH:92:MET:SD	11:LH:181:VAL:HA	2.52	0.49
14:LL:172:GLU:O	14:LL:175:ASN:N	2.44	0.49
16:LN:153:LYS:CE	16:LN:156:HIS:HE1	2.24	0.49
21:LS:127:MET:O	21:LS:128:LYS:HB3	2.12	0.49
23:LU:60:VAL:HG11	23:LU:76:VAL:HG22	1.93	0.49
32:Ld:24:GLU:O	32:Ld:24:GLU:HG3	2.12	0.49
32:Ld:50:ARG:HE	32:Ld:62:VAL:HG23	1.77	0.49
33:Le:81:ASN:OD1	33:Le:81:ASN:N	2.44	0.49
35:Lg:56:VAL:HG12	35:Lg:72:LYS:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Ll:38:ASN:O	40:Ll:40:LYS:N	2.45	0.49
41:Lm:101:ALA:CB	41:Lm:112:LYS:HG3	2.42	0.49
43:Lo:11:PHE:CE2	43:Lo:13:LYS:HA	2.47	0.49
47:S2:69:C:H3'	47:S2:70:G:C8	2.38	0.49
47:S2:219:U:O2'	47:S2:220:U:O4'	2.19	0.49
47:S2:454:U:OP1	70:SG:93:LYS:HD2	2.12	0.49
47:S2:1047:C:H6	47:S2:1047:C:O5'	1.95	0.49
47:S2:1248:U:C4'	58:SQ:146:ARG:HE	2.25	0.49
47:S2:1297:U:H1'	47:S2:1301:A:H2	1.74	0.49
47:S2:1352:G:O2'	47:S2:1353:A:H5'	2.12	0.49
47:S2:1589:A:O3'	61:ST:82:ARG:HB2	2.12	0.49
47:S2:1649:U:O2'	47:S2:1650:A:H5'	2.12	0.49
47:S2:1692:U:C1'	65:Sa:86:ASN:HD21	2.24	0.49
47:S2:1838:U:O2'	47:S2:1839:U:H5'	2.11	0.49
49:SB:39:PHE:CG	49:SB:74:LEU:HD11	2.48	0.49
49:SB:71:LEU:O	49:SB:74:LEU:HB3	2.12	0.49
51:SE:198:ARG:HH11	51:SE:222:LEU:CG	2.25	0.49
52:SF:99:ILE:HG23	52:SF:100:ILE:HG13	1.94	0.49
53:SH:14:GLU:HB2	53:SH:16:PRO:HD2	1.93	0.49
60:SS:84:LEU:HD23	60:SS:97:GLN:N	2.28	0.49
66:Sc:42:ILE:HG13	66:Sc:43:ILE:O	2.13	0.49
68:Sg:90:TRP:HA	68:Sg:97:THR:HA	1.94	0.49
71:SJ:32:ILE:HG12	71:SJ:37:LEU:HB2	1.93	0.49
80:Sf:98:VAL:HG22	80:Sf:98:VAL:O	2.12	0.49
80:Sf:137:ASP:OD1	80:Sf:138:ARG:N	2.45	0.49
1:L5:57:G:H5"	16:LN:154:PRO:HB2	1.93	0.49
1:L5:211:G:H2'	1:L5:211:G:N3	2.28	0.49
1:L5:471:A:H62	1:L5:682:G:H22	1.59	0.49
1:L5:1337:A:H2	1:L5:1658:G:N3	2.10	0.49
1:L5:1470:G:H21	1:L5:1495:G:H1'	1.78	0.49
1:L5:1646:A:OP2	6:LC:80:ARG:NE	2.45	0.49
1:L5:1681:G:N2	29:La:40:HIS:O	2.46	0.49
1:L5:1697:G:H5'	1:L5:1697:G:N3	2.28	0.49
1:L5:1720:C:C2	1:L5:1721:G:H1'	2.46	0.49
1:L5:2025:A:H1'	1:L5:2026:A:O4'	2.12	0.49
1:L5:2302:C:H42	1:L5:2334:C:H42	1.60	0.49
1:L5:2579:G:N2	1:L5:2581:A:H3'	2.27	0.49
1:L5:2696:A:H3'	1:L5:2696:A:OP2	2.11	0.49
1:L5:2746:A:H2'	1:L5:2747:U:O4'	2.12	0.49
1:L5:3675:G:O2'	1:L5:3676:G:H5'	2.11	0.49
1:L5:3714:G:N1	1:L5:3740:G:H1'	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3821:A:C2	1:L5:3822:U:H1'	2.48	0.49
1:L5:3916:G:N2	1:L5:4388:A:C4	2.80	0.49
1:L5:4165:C:O2'	1:L5:4166:G:H5'	2.12	0.49
1:L5:4568:A:H5"	1:L5:4569:U:OP2	2.12	0.49
1:L5:4621:C:OP1	24:LV:48:ARG:HD2	2.12	0.49
1:L5:4775:C:C6	1:L5:4775:C:C3'	2.94	0.49
1:L5:4948:C:H3'	1:L5:4949:G:N2	2.27	0.49
1:L5:5068:G:H2'	1:L5:5068:G:OP2	2.13	0.49
3:L8:92:U:H2'	3:L8:93:C:O4'	2.13	0.49
3:L8:135:C:O2'	3:L8:136:U:H5'	2.13	0.49
4:LA:4:VAL:HG22	4:LA:8:GLN:HB3	1.93	0.49
4:LA:144:LYS:HB3	4:LA:160:SER:OG	2.13	0.49
5:LB:117:ARG:HD2	5:LB:177:LYS:HG2	1.93	0.49
5:LB:141:ASP:HA	5:LB:144:LYS:HZ3	1.74	0.49
5:LB:146:LEU:O	5:LB:149:ASP:N	2.39	0.49
5:LB:208:ASN:OD1	5:LB:209:GLN:N	2.45	0.49
6:LC:128:LEU:O	6:LC:131:SER:HB2	2.12	0.49
6:LC:209:ILE:HD13	6:LC:251:ILE:HB	1.94	0.49
7:LD:280:VAL:O	7:LD:284:LYS:HG3	2.13	0.49
9:LF:26:ALA:O	9:LF:30:ILE:HG12	2.12	0.49
10:LG:164:ILE:O	10:LG:165:GLU:HB2	2.11	0.49
14:LL:146:LEU:HD23	36:Lh:122:LYS:HD3	1.95	0.49
18:LP:16:LYS:HB3	18:LP:149:ILE:HG22	1.93	0.49
20:LR:25:ASP:OD1	20:LR:26:PRO:HD2	2.13	0.49
21:LS:45:TRP:HH2	21:LS:59:GLY:CA	2.24	0.49
21:LS:83:ARG:NH2	22:LT:154:ILE:O	2.45	0.49
24:LV:22:VAL:CG2	24:LV:53:PRO:HG2	2.42	0.49
27:LY:95:VAL:HG12	27:LY:96:HIS:O	2.13	0.49
28:LZ:57:MET:HG2	28:LZ:61:LYS:CE	2.42	0.49
29:La:22:ILE:O	29:La:24:LYS:CE	2.60	0.49
29:La:63:LEU:HD12	29:La:64:LYS:H	1.77	0.49
33:Le:26:ASP:OD1	33:Le:27:ARG:HG3	2.12	0.49
35:Lg:15:THR:CG2	35:Lg:16:ALA:N	2.75	0.49
39:Lk:26:LYS:HE2	39:Lk:27:LYS:O	2.13	0.49
43:Lo:25:GLN:NE2	43:Lo:93:LEU:HD13	2.28	0.49
45:Lr:5:LEU:HD23	45:Lr:5:LEU:C	2.37	0.49
47:S2:55:U:P	47:S2:55:U:H6	2.36	0.49
47:S2:170:A:OP1	70:SG:136:LYS:HB3	2.11	0.49
47:S2:373:G:H2'	47:S2:374:G:H8	1.77	0.49
47:S2:395:G:H5'	56:SL:82:MET:HE2	1.91	0.49
47:S2:426:A:C2	47:S2:427:U:H1'	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:565:G:C3'	47:S2:566:U:H5"	2.35	0.49
47:S2:687:C:O2	47:S2:687:C:H2'	2.11	0.49
47:S2:837:A:N6	76:SY:48:TYR:OH	2.46	0.49
47:S2:1467:C:O3'	59:SR:1:MET:HG3	2.12	0.49
47:S2:1491:G:O2'	62:SU:72:GLU:N	2.45	0.49
47:S2:1660:C:P	67:Sd:30:LEU:HD11	2.52	0.49
47:S2:1792:G:H2'	47:S2:1792:G:N3	2.26	0.49
48:SA:77:ILE:HG23	48:SA:124:VAL:HA	1.95	0.49
48:SA:165:ASN:HA	48:SA:171:VAL:HG22	1.93	0.49
50:SD:21:LEU:O	50:SD:25:LEU:HB2	2.12	0.49
51:SE:42:LEU:CG	51:SE:46:ILE:HD11	2.43	0.49
52:SF:26:ASP:HB2	52:SF:27:ASP:CB	2.28	0.49
52:SF:45:TYR:HE1	52:SF:65:GLN:C	2.20	0.49
54:SI:148:LYS:O	54:SI:152:ARG:HG3	2.12	0.49
54:SI:172:LEU:HD12	54:SI:190:LEU:HD12	1.94	0.49
55:SK:24:LYS:C	55:SK:26:ASP:H	2.19	0.49
58:SQ:34:VAL:HG13	58:SQ:70:VAL:O	2.11	0.49
60:SS:10:GLN:HB2	60:SS:23:ARG:NH2	2.18	0.49
60:SS:48:ALA:C	60:SS:50:ILE:H	2.19	0.49
60:SS:118:ARG:HG2	60:SS:118:ARG:O	2.12	0.49
60:SS:141:ARG:O	60:SS:142:ARG:HG3	2.11	0.49
66:Sc:42:ILE:HD11	66:Sc:64:GLU:HG2	1.95	0.49
68:Sg:248:LEU:HD22	68:Sg:259:TRP:CE3	2.47	0.49
69:SC:174:ILE:HG12	71:SJ:96:TYR:OH	2.12	0.49
72:SM:20:GLU:HG3	72:SM:120:ALA:CB	2.41	0.49
76:SY:25:ILE:CD1	76:SY:44:LEU:HD22	2.42	0.49
1:L5:8:U:H2'	1:L5:9:C:O4'	2.13	0.49
1:L5:73:A:H62	14:LL:103:ARG:HH22	1.60	0.49
1:L5:101:A:H2'	1:L5:102:G:H5'	1.94	0.49
1:L5:1238:A:H1'	1:L5:1239:C:OP1	2.12	0.49
1:L5:1485:C:O2'	1:L5:1486:C:OP2	2.27	0.49
1:L5:1795:A:O2'	2:L7:97:G:N2	2.46	0.49
1:L5:1899:G:H21	33:Le:59:GLY:CA	2.18	0.49
1:L5:2089:G:O2'	1:L5:2090:U:H5	1.95	0.49
1:L5:2264:C:O2'	1:L5:2265:G:OP1	2.26	0.49
1:L5:2463:G:C2'	1:L5:2464:C:H5'	2.42	0.49
1:L5:2503:G:H1'	1:L5:2505:C:N4	2.26	0.49
1:L5:2677:G:H2'	1:L5:2678:A:H5'	1.94	0.49
1:L5:4085:A:H5"	26:LX:44:PRO:HB2	1.93	0.49
1:L5:4724:A:O4'	5:LB:101:THR:HG23	2.12	0.49
1:L5:4754:G:N2	1:L5:4755:G:H1'	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4869:U:H3'	1:L5:4870:G:N2	2.28	0.49
2:L7:47:G:H5"	7:LD:94:ASN:HB3	1.94	0.49
2:L7:76:U:O2'	2:L7:77:A:H5'	2.12	0.49
5:LB:92:TYR:HD1	5:LB:101:THR:HA	1.77	0.49
5:LB:276:HIS:O	5:LB:277:ARG:NH1	2.36	0.49
6:LC:155:GLU:HG3	6:LC:157:LYS:H	1.78	0.49
7:LD:93:THR:HG22	7:LD:158:LYS:NZ	2.28	0.49
10:LG:30:PRO:HG2	28:LZ:124:THR:HA	1.93	0.49
10:LG:255:LYS:HA	10:LG:258:ALA:HB2	1.94	0.49
11:LH:120:GLU:HG2	11:LH:122:TYR:H	1.77	0.49
13:LJ:96:LYS:HA	13:LJ:174:ILE:HG21	1.94	0.49
13:LJ:117:ILE:HG22	13:LJ:117:ILE:O	2.13	0.49
16:LN:33:LEU:HD23	16:LN:37:HIS:CG	2.47	0.49
20:LR:53:LYS:HG3	20:LR:54:PRO:HD2	1.95	0.49
22:LT:91:VAL:HG11	22:LT:96:ILE:CG2	2.42	0.49
25:LW:96:GLN:HG2	25:LW:101:ARG:CD	2.40	0.49
25:LW:96:GLN:CB	25:LW:101:ARG:HD2	2.42	0.49
31:Lc:34:THR:O	31:Lc:37:MET:HB2	2.12	0.49
44:Lp:31:ILE:HG23	44:Lp:32:SER:N	2.28	0.49
45:Lr:52:GLU:CB	45:Lr:53:PRO:HD2	2.35	0.49
46:Lz:23:ARG:HH12	46:Lz:179:LEU:HD13	1.77	0.49
46:Lz:91:LYS:HD3	46:Lz:123:ILE:HG23	1.95	0.49
46:Lz:198:TRP:HZ3	46:Lz:202:ARG:HG2	1.78	0.49
47:S2:744:G:O2'	47:S2:745:C:H5'	2.12	0.49
47:S2:1112:U:H2'	47:S2:1113:A:H4'	1.95	0.49
47:S2:1207:G:HO2'	47:S2:1208:A:P	2.32	0.49
47:S2:1380:C:O4'	48:SA:113:GLN:NE2	2.45	0.49
50:SD:31:GLU:N	50:SD:31:GLU:OE1	2.45	0.49
50:SD:75:LYS:HB2	55:SK:22:VAL:HG13	1.94	0.49
51:SE:114:ILE:HG21	51:SE:119:ALA:HA	1.94	0.49
60:SS:30:ILE:CG2	60:SS:33:ILE:HD12	2.31	0.49
60:SS:100:ALA:O	60:SS:103:LEU:HB3	2.12	0.49
60:SS:115:LYS:HG3	60:SS:116:LYS:HG3	1.95	0.49
62:SU:54:VAL:HG21	62:SU:88:LEU:CD1	2.43	0.49
62:SU:67:LYS:HD2	62:SU:77:TRP:O	2.12	0.49
64:SX:12:LYS:O	64:SX:12:LYS:HD2	2.13	0.49
68:Sg:82:SER:O	68:Sg:108:VAL:HG13	2.12	0.49
69:SC:179:THR:HG23	69:SC:180:VAL:O	2.13	0.49
70:SG:108:VAL:HG12	70:SG:109:LEU:N	2.27	0.49
70:SG:160:LYS:HB3	70:SG:172:LYS:HG2	1.93	0.49
71:SJ:110:LEU:CD1	71:SJ:114:VAL:HG23	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:SN:122:ILE:HG21	73:SN:141:TYR:CG	2.47	0.49
76:SY:7:ILE:HG22	76:SY:7:ILE:O	2.12	0.49
1:L5:364:G:O2'	1:L5:375:G:O6	2.31	0.49
1:L5:1179:U:O2	1:L5:1182:C:H5"	2.12	0.49
1:L5:1423:U:O2'	1:L5:1424:G:H5'	2.12	0.49
1:L5:1666:C:HO2'	1:L5:1667:G:H5'	1.76	0.49
1:L5:2082:G:C2'	1:L5:2083:C:H5'	2.42	0.49
1:L5:2362:U:OP2	1:L5:3859:G:N1	2.38	0.49
1:L5:2428:A:C8	40:Ll:45:ARG:NH2	2.81	0.49
1:L5:2772:C:C2'	1:L5:2773:G:H5'	2.42	0.49
1:L5:2811:G:N2	1:L5:2814:C:OP2	2.43	0.49
1:L5:4300:U:H2'	1:L5:4301:U:H6	1.77	0.49
1:L5:4410:G:H2'	1:L5:4411:G:H8	1.74	0.49
3:L8:154:G:P	10:LG:185:LYS:HE3	2.52	0.49
4:LA:70:LYS:CD	4:LA:72:ARG:HE	2.17	0.49
5:LB:52:GLY:HA3	5:LB:320:PHE:HD1	1.77	0.49
5:LB:85:VAL:HB	5:LB:165:HIS:CD2	2.47	0.49
7:LD:22:ARG:HB3	7:LD:28:THR:HB	1.95	0.49
7:LD:277:LYS:O	7:LD:280:VAL:HG22	2.12	0.49
10:LG:152:ALA:HB3	10:LG:179:VAL:HG21	1.94	0.49
12:LI:27:PRO:HG2	12:LI:123:GLN:O	2.13	0.49
13:LJ:89:VAL:HG11	13:LJ:109:ILE:HD12	1.95	0.49
13:LJ:160:GLU:HA	13:LJ:163:MET:HE2	1.92	0.49
14:LL:130:LYS:HE2	14:LL:132:SER:C	2.38	0.49
15:LM:11:ARG:HH21	15:LM:57:LEU:HB3	1.76	0.49
15:LM:17:PHE:HA	15:LM:21:ALA:CB	2.42	0.49
16:LN:7:ILE:O	16:LN:10:LEU:HB3	2.13	0.49
27:LY:77:LYS:O	27:LY:78:TYR:HB2	2.12	0.49
27:LY:89:LYS:HD3	27:LY:93:THR:HG23	1.95	0.49
36:Lh:34:ALA:HB1	36:Lh:39:GLY:CA	2.41	0.49
45:Lr:92:SER:O	45:Lr:96:MET:HE3	2.13	0.49
46:Lz:85:MET:HB2	46:Lz:89:ALA:HB1	1.94	0.49
47:S2:65:C:H1'	70:SG:172:LYS:NZ	2.27	0.49
47:S2:303:C:O4'	54:SI:64:ASN:ND2	2.46	0.49
47:S2:510:G:OP2	71:SJ:3:VAL:HG12	2.13	0.49
47:S2:654:A:N6	47:S2:655:A:N7	2.60	0.49
47:S2:965:U:H2'	47:S2:966:U:H5'	1.95	0.49
47:S2:1020:A:O2'	47:S2:1021:U:OP2	2.22	0.49
47:S2:1159:G:OP1	75:SW:76:SER:OG	2.26	0.49
47:S2:1555:U:C2'	47:S2:1556:A:H5"	2.42	0.49
47:S2:1589:A:H2'	47:S2:1590:C:O4'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1696:C:HO2'	47:S2:1702:G:HO2'	1.56	0.49
48:SA:111:GLN:HG3	48:SA:112:ILE:CD1	2.41	0.49
48:SA:125:THR:OG1	48:SA:126:ASP:N	2.39	0.49
48:SA:176:TRP:HB2	48:SA:202:TYR:HE2	1.76	0.49
49:SB:23:ASP:O	49:SB:26:SER:OG	2.13	0.49
49:SB:227:LYS:O	49:SB:231:LEU:N	2.44	0.49
50:SD:44:THR:OG1	50:SD:45:ARG:N	2.43	0.49
50:SD:92:ALA:O	50:SD:93:THR:OG1	2.27	0.49
50:SD:195:THR:CB	50:SD:199:GLY:HA3	2.42	0.49
51:SE:158:ASP:OD2	51:SE:174:LYS:HA	2.12	0.49
51:SE:211:LYS:HG2	51:SE:212:ASP:O	2.13	0.49
52:SF:54:GLY:C	52:SF:55:ARG:HG2	2.38	0.49
52:SF:127:ARG:HH11	66:Sc:45:ASN:ND2	2.10	0.49
53:SH:9:VAL:O	53:SH:45:ILE:HG12	2.12	0.49
57:SP:98:ASN:H	57:SP:99:GLY:CA	2.25	0.49
61:ST:38:LYS:HZ3	61:ST:46:ALA:CB	2.25	0.49
65:Sa:44:ILE:O	74:SO:113:GLN:NE2	2.39	0.49
68:Sg:33:SER:OG	68:Sg:41:ILE:O	2.20	0.49
68:Sg:198:VAL:CB	68:Sg:209:SER:HB3	2.42	0.49
69:SC:104:ASP:HA	69:SC:130:ILE:HD11	1.92	0.49
72:SM:90:GLY:HA3	72:SM:98:GLY:CA	2.40	0.49
76:SY:18:LEU:O	76:SY:20:ARG:HG2	2.12	0.49
76:SY:79:LEU:HD12	76:SY:82:ALA:CB	2.39	0.49
79:Se:24:LYS:HD2	79:Se:27:LYS:CE	2.36	0.49
1:L5:53:C:H2'	1:L5:54:G:C8	2.46	0.49
1:L5:279:A:P	16:LN:50:ARG:NH2	2.85	0.49
1:L5:453:G:O2'	1:L5:454:U:H4'	2.12	0.49
1:L5:1330:A:O4'	1:L5:3864:C:H2'	2.12	0.49
1:L5:1332:C:P	33:Le:30:LYS:HB3	2.53	0.49
1:L5:1527:A:H2'	1:L5:1528:U:C6	2.47	0.49
1:L5:1698:C:OP2	1:L5:1698:C:H2'	2.12	0.49
1:L5:2263:A:C5'	45:Lr:39:ARG:NH1	2.75	0.49
1:L5:2388:A:H2'	1:L5:2389:A:C5'	2.40	0.49
1:L5:2569:G:O2'	1:L5:2570:U:H5'	2.11	0.49
1:L5:4085:A:H3'	26:LX:44:PRO:HB2	1.95	0.49
1:L5:4178:A:H2'	1:L5:4179:G:H8	1.77	0.49
1:L5:4370:G:N3	81:L5:5101:3HE:C14	2.76	0.49
1:L5:4417:C:C4	1:L5:4418:G:C4	3.00	0.49
1:L5:4701:A:C2'	1:L5:4702:G:H5'	2.42	0.49
2:L7:31:G:H2'	2:L7:32:A:H5'	1.95	0.49
2:L7:47:G:H5"	7:LD:94:ASN:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:3:A:C5	3:L8:4:C:C4	3.01	0.49
3:L8:25:G:C2	3:L8:26:C:C2	3.00	0.49
4:LA:120:PRO:CA	4:LA:162:ASN:HB3	2.41	0.49
5:LB:93:VAL:HG22	5:LB:94:GLU:N	2.28	0.49
5:LB:261:ARG:HB3	17:LO:64:THR:HG21	1.95	0.49
6:LC:158:VAL:HA	6:LC:161:TYR:HE2	1.76	0.49
6:LC:352:ASP:O	6:LC:356:ALA:N	2.43	0.49
7:LD:129:GLU:HB3	7:LD:177:THR:HG21	1.94	0.49
8:LE:90:ALA:O	8:LE:109:LEU:HD12	2.12	0.49
8:LE:176:THR:HG23	8:LE:184:VAL:O	2.13	0.49
9:LF:89:LEU:HD12	9:LF:90:ALA:H	1.77	0.49
12:LI:76:MET:HE2	12:LI:76:MET:HA	1.93	0.49
12:LI:171:TRP:O	12:LI:174:THR:OG1	2.25	0.49
13:LJ:95:ARG:HA	13:LJ:175:LEU:O	2.13	0.49
13:LJ:125:ILE:O	13:LJ:125:ILE:HD12	2.12	0.49
14:LL:192:PHE:O	14:LL:195:ARG:HB3	2.13	0.49
17:LO:196:LEU:O	17:LO:199:HIS:N	2.35	0.49
18:LP:24:VAL:HG13	18:LP:90:PHE:HE2	1.71	0.49
18:LP:113:VAL:HG22	18:LP:114:ILE:N	2.27	0.49
19:LQ:33:ARG:HA	19:LQ:48:LEU:CD1	2.43	0.49
23:LU:49:VAL:HG11	23:LU:57:GLY:CA	2.43	0.49
26:LX:72:ASP:O	26:LX:76:ILE:HG12	2.12	0.49
31:Lc:42:LYS:O	31:Lc:97:ILE:HG23	2.13	0.49
32:Ld:98:SER:OG	32:Ld:100:ASN:O	2.22	0.49
39:Lk:52:LYS:O	39:Lk:56:LEU:HD13	2.12	0.49
43:Lo:70:LEU:O	43:Lo:80:LYS:HA	2.13	0.49
45:Lr:32:LEU:C	45:Lr:34:ALA:H	2.20	0.49
47:S2:90:G:N1	47:S2:91:A:N3	2.61	0.49
47:S2:416:U:C2'	47:S2:417:C:C5'	2.88	0.49
47:S2:478:G:C2	47:S2:479:C:C4	3.01	0.49
47:S2:540:U:O2'	47:S2:541:U:OP1	2.29	0.49
47:S2:819:G:H2'	47:S2:820:U:H6	1.76	0.49
47:S2:1162:C:H2'	47:S2:1163:C:C5'	2.43	0.49
47:S2:1354:G:N2	47:S2:1357:A:OP2	2.46	0.49
47:S2:1401:A:H2	47:S2:1402:A:C2	2.30	0.49
47:S2:1507:G:C6	80:Sf:91:ASN:HA	2.48	0.49
47:S2:1860:A:O2'	47:S2:1861:G:OP2	2.23	0.49
48:SA:184:ARG:O	63:SV:45:ARG:HA	2.12	0.49
50:SD:67:ARG:NH2	55:SK:97:SER:O	2.45	0.49
50:SD:132:LYS:CE	50:SD:189:MET:HE2	2.42	0.49
52:SF:162:ALA:HB2	52:SF:172:CYS:SG	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:SI:76:THR:HG22	54:SI:108:PRO:CG	2.42	0.49
55:SK:81:ASP:HA	55:SK:85:LEU:CD2	2.41	0.49
60:SS:23:ARG:HD2	77:SZ:48:VAL:HG21	1.94	0.49
65:Sa:47:ALA:O	65:Sa:50:VAL:HG12	2.13	0.49
68:Sg:226:HIS:O	68:Sg:227:LEU:HD23	2.12	0.49
68:Sg:284:PRO:HB3	68:Sg:304:ASP:OD2	2.13	0.49
70:SG:145:PHE:HB2	70:SG:148:SER:O	2.13	0.49
70:SG:160:LYS:HE2	70:SG:172:LYS:HD3	1.94	0.49
71:SJ:16:PRO:HG2	71:SJ:24:ARG:CZ	2.43	0.49
75:SW:6:VAL:CG1	75:SW:29:PRO:HB2	2.43	0.49
75:SW:95:PRO:HG3	75:SW:130:PHE:HB2	1.94	0.49
78:Sb:62:VAL:HG22	78:Sb:64:CYS:H	1.78	0.49
1:L5:39:A:O2'	1:L5:1654:G:O6	2.18	0.49
1:L5:86:U:OP2	1:L5:97:G:N1	2.40	0.49
1:L5:655:C:H2'	1:L5:655:C:O2	2.12	0.49
1:L5:957:G:H1'	1:L5:958:G:P	2.52	0.49
1:L5:973:G:O3'	9:LF:43:ARG:NH1	2.45	0.49
1:L5:1198:G:H2'	1:L5:1199:G:C8	2.35	0.49
1:L5:1240:G:O6	1:L5:1270:A:O2'	2.28	0.49
1:L5:1281:G:O2'	6:LC:323:ARG:HB2	2.12	0.49
1:L5:1340:C:H2'	1:L5:1341:U:C6	2.47	0.49
1:L5:1596:U:O2'	1:L5:1597:G:OP2	2.30	0.49
1:L5:1689:G:O2'	1:L5:1690:C:H5'	2.13	0.49
1:L5:1998:A:HO2'	1:L5:1999:A:C5'	2.24	0.49
1:L5:2090:U:H3'	1:L5:2259:G:P	2.53	0.49
1:L5:2854:G:O2'	1:L5:2855:G:H5'	2.12	0.49
1:L5:2863:G:C4	1:L5:3619:G:H1'	2.48	0.49
1:L5:3826:C:H3'	1:L5:3826:C:C6	2.47	0.49
1:L5:4207:C:O4'	1:L5:4335:C:H1'	2.13	0.49
1:L5:4221:C:O3'	12:LI:117:GLY:HA2	2.13	0.49
1:L5:4240:G:N2	1:L5:4241:C:H1'	2.27	0.49
1:L5:4433:G:C8	12:LI:7:ARG:NH1	2.81	0.49
1:L5:4567:G:OP1	5:LB:19:ARG:N	2.43	0.49
1:L5:4742:G:H5"	1:L5:4743:G:P	2.52	0.49
3:L8:37:A:C8	3:L8:39:G:N1	2.80	0.49
3:L8:41:A:C2'	3:L8:42:G:H5'	2.43	0.49
5:LB:308:ASP:O	5:LB:309:LEU:HG	2.12	0.49
11:LH:1:MET:HE2	21:LS:140:PRO:HB2	1.93	0.49
14:LL:194:ILE:HA	14:LL:197:LYS:CB	2.43	0.49
16:LN:38:ARG:HB2	16:LN:62:TYR:CD1	2.47	0.49
16:LN:63:ARG:HG2	16:LN:131:GLU:CG	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:LQ:101:CYS:HB3	19:LQ:121:LEU:HB2	1.95	0.49
24:LV:101:ASN:N	24:LV:101:ASN:OD1	2.45	0.49
33:Le:24:GLN:CG	33:Le:27:ARG:HD3	2.42	0.49
34:Lf:28:LEU:CD2	34:Lf:101:ILE:HD13	2.42	0.49
36:Lh:22:ASP:O	36:Lh:26:VAL:HG23	2.13	0.49
46:Lz:124:LEU:HD23	46:Lz:128:LEU:HB2	1.95	0.49
47:S2:12:U:C2'	47:S2:1356:G:H21	2.25	0.49
47:S2:665:G:N2	47:S2:1163:C:H1'	2.28	0.49
47:S2:839:C:C6	47:S2:839:C:C3'	2.96	0.49
47:S2:1203:G:N1	47:S2:1697:A:C6	2.80	0.49
51:SE:229:GLY:CA	51:SE:234:PRO:HA	2.30	0.49
53:SH:27:LEU:O	53:SH:30:LEU:HD13	2.12	0.49
54:SI:56:ARG:HG2	54:SI:56:ARG:O	2.13	0.49
54:SI:126:GLY:O	54:SI:127:ALA:HB3	2.12	0.49
55:SK:6:LYS:CA	55:SK:9:ILE:HG22	2.38	0.49
65:Sa:59:PHE:HE2	74:SO:128:ARG:CZ	2.26	0.49
68:Sg:85:GLY:HA3	68:Sg:104:HIS:O	2.12	0.49
68:Sg:275:ILE:HG22	68:Sg:275:ILE:O	2.12	0.49
69:SC:199:PRO:O	69:SC:202:THR:OG1	2.27	0.49
72:SM:27:ILE:C	72:SM:29:ASP:H	2.21	0.49
77:SZ:67:LEU:HA	77:SZ:110:THR:HG22	1.95	0.49
1:L5:73:A:N6	14:LL:103:ARG:HH22	2.10	0.49
1:L5:415:G:C6	1:L5:416:U:C2	3.01	0.49
1:L5:740:G:H2'	1:L5:741:C:H5'	1.95	0.49
1:L5:982:U:H1'	8:LE:70:LYS:HZ3	1.75	0.49
1:L5:1182:C:H2'	1:L5:1183:C:H5"	1.95	0.49
1:L5:1280:C:C2'	1:L5:1281:G:H2'	2.43	0.49
1:L5:1741:G:HO2'	1:L5:1742:A:P	2.31	0.49
1:L5:1743:A:H1'	7:LD:15:ARG:HH21	1.75	0.49
1:L5:1875:C:H3'	1:L5:1875:C:C6	2.47	0.49
1:L5:1875:C:H3'	1:L5:1875:C:H6	1.78	0.49
1:L5:1955:G:H1	1:L5:2028:C:H42	1.59	0.49
1:L5:2283:G:O2'	1:L5:2284:G:H5'	2.13	0.49
1:L5:2340:C:O2'	6:LC:45:ARG:NH2	2.44	0.49
1:L5:2588:C:H5"	1:L5:2589:C:H5"	1.95	0.49
1:L5:4275:G:N2	1:L5:4334:U:O2	2.45	0.49
1:L5:4321:U:H2'	1:L5:4322:G:O4'	2.12	0.49
1:L5:4730:C:C5'	1:L5:4734:A:H2	2.26	0.49
4:LA:238:ILE:HG22	4:LA:239:ALA:N	2.28	0.49
5:LB:19:ARG:HG3	5:LB:275:HIS:CE1	2.47	0.49
5:LB:168:MET:HG3	5:LB:178:ALA:CA	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:257:TRP:NE1	5:LB:258:HIS:HD2	2.10	0.49
5:LB:312:LYS:HZ2	5:LB:370:THR:CG2	2.26	0.49
8:LE:87:LYS:HE3	8:LE:106:VAL:HG11	1.94	0.49
11:LH:105:ILE:HG22	11:LH:134:CYS:O	2.13	0.49
17:LO:34:VAL:HG11	17:LO:112:TYR:CE2	2.48	0.49
17:LO:202:LEU:HD23	17:LO:202:LEU:O	2.11	0.49
20:LR:115:ILE:HA	20:LR:119:MET:HE2	1.94	0.49
20:LR:146:LYS:O	20:LR:149:LYS:HB3	2.13	0.49
20:LR:159:ALA:O	20:LR:162:ARG:HB2	2.13	0.49
21:LS:84:TYR:HE1	21:LS:93:MET:HE3	1.78	0.49
25:LW:113:LYS:HA	25:LW:116:LYS:CB	2.42	0.49
32:Ld:54:MET:HG2	32:Ld:60:PRO:O	2.13	0.49
35:Lg:49:CYS:HB3	35:Lg:50:PRO:HD2	1.94	0.49
37:Li:58:MET:O	37:Li:62:LYS:HG3	2.13	0.49
37:Li:63:VAL:HG12	37:Li:65:LYS:HG3	1.95	0.49
37:Li:102:ALA:HB3	46:Lz:10:LEU:CG	2.43	0.49
38:Lj:19:CYS:HB2	38:Lj:27:TYR:HB2	1.94	0.49
39:Lk:62:PRO:O	39:Lk:64:LEU:N	2.40	0.49
43:Lo:12:CYS:HB3	43:Lo:17:LYS:O	2.12	0.49
47:S2:216:C:O2	47:S2:216:C:H3'	2.13	0.49
47:S2:524:U:H5"	47:S2:525:A:H1'	1.94	0.49
47:S2:638:C:H2'	47:S2:639:C:H5'	1.94	0.49
47:S2:814:U:P	51:SE:22:LYS:HZ2	2.35	0.49
47:S2:837:A:N3	47:S2:837:A:H2'	2.28	0.49
47:S2:1227:G:N2	47:S2:1635:C:H4'	2.26	0.49
47:S2:1279:C:H3'	47:S2:1280:G:H4'	1.95	0.49
47:S2:1309:C:H41	72:SM:39:ALA:CB	2.25	0.49
47:S2:1518:C:H3'	47:S2:1518:C:O2	2.13	0.49
47:S2:1541:G:C2'	47:S2:1542:C:H5'	2.43	0.49
47:S2:1712:A:C6	47:S2:1822:A:H2	2.30	0.49
47:S2:1730:U:C2	47:S2:1731:A:C8	3.01	0.49
48:SA:169:HIS:HB3	48:SA:203:PHE:CE1	2.47	0.49
49:SB:67:PHE:CB	74:SO:48:SER:HA	2.22	0.49
49:SB:79:VAL:HG13	49:SB:81:PHE:CZ	2.48	0.49
49:SB:212:VAL:O	49:SB:212:VAL:HG23	2.13	0.49
51:SE:125:LYS:H	51:SE:142:HIS:CE1	2.31	0.49
51:SE:247:THR:HG23	51:SE:250:GLU:OE1	2.13	0.49
52:SF:127:ARG:HD2	66:Sc:68:LEU:HD23	1.94	0.49
52:SF:140:ASP:OD2	66:Sc:46:VAL:HB	2.13	0.49
52:SF:144:LEU:HG	52:SF:148:ASN:HD21	1.75	0.49
53:SH:144:ILE:HG23	75:SW:52:ILE:CG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:31:LEU:CG	58:SQ:33:LYS:HG2	2.42	0.49
59:SR:27:ASP:OD1	59:SR:29:HIS:N	2.42	0.49
61:ST:18:LEU:CA	61:ST:134:ILE:HD12	2.42	0.49
61:ST:69:GLY:H	61:ST:122:LYS:HB3	1.78	0.49
64:SX:29:LYS:O	64:SX:35:ALA:HB3	2.12	0.49
68:Sg:194:TYR:O	68:Sg:211:GLY:HA2	2.12	0.49
68:Sg:250:ALA:O	68:Sg:257:LYS:HB3	2.12	0.49
68:Sg:261:LEU:C	68:Sg:261:LEU:HD12	2.38	0.49
71:SJ:137:VAL:HG12	71:SJ:138:ARG:HG2	1.95	0.49
76:SY:28:LEU:HD13	76:SY:68:LYS:CG	2.37	0.49
76:SY:79:LEU:O	76:SY:82:ALA:HB3	2.13	0.49
1:L5:66:A:HO2'	1:L5:326:C:HO2'	1.52	0.49
1:L5:458:C:H5"	8:LE:115:TYR:O	2.13	0.49
1:L5:502:C:H3'	1:L5:503:C:C5	2.48	0.49
1:L5:994:G:N2	1:L5:995:C:O4'	2.46	0.49
1:L5:1078:A:H5'	1:L5:1079:C:P	2.52	0.49
1:L5:1635:C:C5	1:L5:1636:U:C5	3.01	0.49
1:L5:1743:A:H1'	7:LD:15:ARG:HH22	1.75	0.49
1:L5:2380:G:N2	1:L5:2425:U:OP1	2.35	0.49
1:L5:2616:C:OP1	20:LR:64:ARG:HD3	2.13	0.49
1:L5:2689:C:N3	1:L5:2690:C:C4	2.81	0.49
1:L5:2840:A:O2'	1:L5:2841:G:H5'	2.13	0.49
1:L5:2907:G:H1'	1:L5:3589:G:H22	1.76	0.49
1:L5:3889:G:C5	1:L5:4720:C:H2'	2.48	0.49
1:L5:3906:A:O2'	1:L5:3907:G:OP2	2.22	0.49
1:L5:4103:C:O2'	1:L5:4106:G:N2	2.46	0.49
1:L5:4129:G:C4'	10:LG:34:LYS:HB3	2.42	0.49
3:L8:37:A:H8	3:L8:39:G:N1	2.11	0.49
3:L8:143:G:H2'	3:L8:144:U:C6	2.40	0.49
4:LA:43:GLY:HA3	4:LA:63:PHE:CE1	2.48	0.49
4:LA:45:VAL:HG12	4:LA:86:GLN:O	2.13	0.49
6:LC:136:LEU:CD2	45:Lr:10:VAL:HG13	2.43	0.49
6:LC:232:VAL:HG22	6:LC:263:LEU:HD11	1.94	0.49
6:LC:289:LEU:HA	6:LC:292:ILE:HB	1.95	0.49
9:LF:92:VAL:HG23	9:LF:142:TRP:HB3	1.95	0.49
11:LH:172:ILE:HD11	41:Lm:124:LYS:HZ1	1.77	0.49
14:LL:106:SER:OG	37:Li:17:VAL:HG11	2.13	0.49
14:LL:107:THR:HB	37:Li:18:THR:CG2	2.43	0.49
18:LP:4:TYR:HE1	18:LP:18:ARG:HB3	1.78	0.49
20:LR:17:CYS:N	20:LR:52:ARG:HH22	2.11	0.49
23:LU:43:LEU:O	23:LU:47:ILE:HD12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:La:98:ALA:CB	29:La:123:ILE:HD11	2.43	0.49
29:La:115:GLY:O	29:La:116:LYS:HG2	2.12	0.49
35:Lg:93:ARG:O	35:Lg:97:ILE:HG22	2.12	0.49
44:Lp:89:LEU:O	44:Lp:89:LEU:HD23	2.13	0.49
47:S2:57:U:O2	47:S2:500:A:N6	2.38	0.49
47:S2:70:G:N2	47:S2:79:A:H62	2.07	0.49
47:S2:444:G:N7	54:SI:47:ARG:NH1	2.60	0.49
47:S2:667:U:O5'	47:S2:667:U:H6	1.96	0.49
47:S2:991:G:H3'	47:S2:991:G:N3	2.28	0.49
47:S2:1201:U:O2'	47:S2:1358:U:O2'	2.27	0.49
47:S2:1309:C:H2'	47:S2:1310:U:O5'	2.13	0.49
47:S2:1503:C:H2'	47:S2:1504:U:O4'	2.13	0.49
47:S2:1526:G:N1	47:S2:1527:C:C4	2.81	0.49
47:S2:1547:C:H5	47:S2:1548:G:C4	2.31	0.49
47:S2:1834:A:H5'	47:S2:1836:G:N7	2.27	0.49
49:SB:39:PHE:HB3	49:SB:74:LEU:CD1	2.33	0.49
49:SB:127:VAL:HG11	49:SB:173:THR:HA	1.95	0.49
50:SD:38:GLU:HG2	50:SD:39:VAL:N	2.28	0.49
52:SF:122:ARG:HD2	66:Sc:57:THR:O	2.13	0.49
53:SH:23:ILE:HD11	53:SH:50:GLU:OE2	2.13	0.49
53:SH:157:HIS:HB3	53:SH:190:PRO:HG3	1.94	0.49
55:SK:2:LEU:HG	55:SK:48:ALA:HB2	1.94	0.49
61:ST:116:ASP:HB3	61:ST:117:GLN:OE1	2.13	0.49
68:Sg:28:PRO:HG2	68:Sg:29:ASP:H	1.78	0.49
68:Sg:77:PHE:CD1	68:Sg:89:LEU:HD21	2.48	0.49
69:SC:274:VAL:HG13	69:SC:275:LYS:HG2	1.94	0.49
71:SJ:38:ARG:HB2	71:SJ:127:ARG:CZ	2.42	0.49
72:SM:53:ALA:HB1	72:SM:82:ASN:OD1	2.13	0.49
76:SY:107:ARG:O	76:SY:111:LYS:N	2.45	0.49
77:SZ:69:THR:H	77:SZ:73:VAL:HG23	1.77	0.49
1:L5:259:C:C2'	1:L5:260:C:C5'	2.87	0.48
1:L5:442:G:N2	1:L5:443:G:N3	2.61	0.48
1:L5:442:G:O2'	1:L5:443:G:H5'	2.13	0.48
1:L5:479:G:H2'	1:L5:480:C:C6	2.48	0.48
1:L5:500:G:H5'	1:L5:501:C:C2	2.47	0.48
1:L5:722:G:O2'	1:L5:723:A:H5'	2.12	0.48
1:L5:994:G:N7	1:L5:1050:C:O2'	2.34	0.48
1:L5:1181:C:C3'	1:L5:1182:C:H4'	2.25	0.48
1:L5:1203:G:H3'	1:L5:1204:C:C6	2.48	0.48
1:L5:1266:G:N2	1:L5:2111:G:H21	2.10	0.48
1:L5:1273:G:O5'	8:LE:74:SER:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1529:G:N2	1:L5:1646:A:N3	2.60	0.48
1:L5:1530:G:H5'	38:Lj:47:TYR:OH	2.12	0.48
1:L5:2019:C:O2'	1:L5:2020:U:O5'	2.31	0.48
1:L5:2649:G:O2'	1:L5:2650:G:H5'	2.13	0.48
1:L5:2752:G:N1	1:L5:2753:G:N3	2.60	0.48
1:L5:3887:C:O2'	1:L5:3888:G:H5'	2.13	0.48
1:L5:4280:A:H62	7:LD:26:GLY:HA2	1.78	0.48
1:L5:4352:U:H2'	1:L5:4353:U:O4'	2.13	0.48
1:L5:4438:U:H5"	1:L5:4439:U:OP2	2.13	0.48
1:L5:4602:A:C2	1:L5:4610:A:C4	3.01	0.48
1:L5:4871:C:H3'	15:LM:91:TRP:HZ3	1.77	0.48
2:L7:15:C:O2'	2:L7:16:A:H5'	2.12	0.48
2:L7:28:C:O3'	13:LJ:138:GLY:HA2	2.13	0.48
3:L8:152:U:O2'	10:LG:160:ASP:OD2	2.24	0.48
4:LA:44:ILE:O	4:LA:44:ILE:HG23	2.13	0.48
6:LC:315:LYS:HD2	9:LF:159:TYR:HE1	1.77	0.48
6:LC:331:TYR:HA	9:LF:51:TYR:HE1	1.70	0.48
9:LF:53:LYS:HE2	9:LF:189:ASP:OD2	2.13	0.48
9:LF:143:GLY:HA3	9:LF:240:ILE:CG2	2.43	0.48
14:LL:196:ALA:O	14:LL:200:LYS:N	2.45	0.48
15:LM:20:HIS:CD2	15:LM:48:GLN:HE22	2.31	0.48
16:LN:51:LEU:HD12	16:LN:51:LEU:N	2.28	0.48
19:LQ:93:GLN:CD	19:LQ:93:GLN:H	2.21	0.48
20:LR:171:LYS:HA	20:LR:174:GLU:OE2	2.12	0.48
35:Lg:107:LEU:HD23	35:Lg:107:LEU:C	2.38	0.48
47:S2:194:C:O2'	47:S2:195:C:H5'	2.11	0.48
47:S2:373:G:O2'	47:S2:374:G:H5'	2.13	0.48
47:S2:798:A:H5'	47:S2:800:U:OP1	2.13	0.48
47:S2:808:A:H2'	47:S2:809:A:O4'	2.13	0.48
47:S2:913:A:H62	53:SH:98:ARG:HD2	1.77	0.48
47:S2:1096:G:H2'	47:S2:1097:G:O4'	2.12	0.48
47:S2:1630:A:H4'	60:SS:35:GLY:O	2.12	0.48
48:SA:63:ARG:CB	48:SA:185:MET:HE1	2.42	0.48
49:SB:71:LEU:CG	49:SB:74:LEU:HD23	2.41	0.48
52:SF:47:LYS:HZ2	52:SF:70:GLU:HG3	1.78	0.48
58:SQ:88:ILE:HG13	58:SQ:89:SER:N	2.28	0.48
59:SR:78:ARG:CA	59:SR:81:ARG:NE	2.71	0.48
60:SS:48:ALA:HB2	60:SS:66:ARG:CD	2.42	0.48
60:SS:110:ASP:C	60:SS:113:ARG:H	2.20	0.48
62:SU:23:THR:HB	62:SU:113:GLU:HG3	1.93	0.48
68:Sg:47:ARG:HH12	68:Sg:309:VAL:CG1	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:177:TRP:HZ3	68:Sg:184:LEU:CD1	2.26	0.48
69:SC:165:VAL:HG22	69:SC:244:ILE:CD1	2.41	0.48
69:SC:187:ARG:HD2	69:SC:192:LEU:CD1	2.38	0.48
73:SN:92:ILE:HA	73:SN:95:ALA:CB	2.43	0.48
74:SO:14:VAL:HB	74:SO:15:ILE:CA	2.34	0.48
74:SO:23:GLU:HG2	74:SO:24:GLY:H	1.78	0.48
76:SY:128:GLY:O	76:SY:132:LYS:HG2	2.13	0.48
1:L5:1:C:C3'	1:L5:2:G:H5'	2.43	0.48
1:L5:440:U:O3'	34:Lf:90:SER:OG	2.30	0.48
1:L5:498:C:H4'	1:L5:499:G:H5"	1.93	0.48
1:L5:499:G:C2	1:L5:500:G:H1'	2.48	0.48
1:L5:754:U:H3	1:L5:909:A:H61	1.59	0.48
1:L5:932:A:H3'	1:L5:932:A:N3	2.28	0.48
1:L5:961:G:H4'	1:L5:962:C:C5	2.48	0.48
1:L5:1221:G:O2'	1:L5:1222:A:O4'	2.31	0.48
1:L5:1391:A:N6	1:L5:1392:A:N1	2.61	0.48
1:L5:1676:C:O2'	1:L5:3914:U:N3	2.46	0.48
1:L5:1864:G:H2'	1:L5:1865:G:C5'	2.43	0.48
1:L5:1875:C:H2'	1:L5:1876:U:C6	2.48	0.48
1:L5:1887:G:H21	1:L5:1938:C:N4	2.11	0.48
1:L5:2520:C:HO2'	1:L5:2640:G:HO2'	1.56	0.48
1:L5:2529:A:N6	1:L5:2532:C:C2	2.81	0.48
1:L5:2530:U:C5	35:Lg:8:ARG:HG2	2.48	0.48
1:L5:2736:G:O2'	1:L5:2737:C:H5'	2.12	0.48
1:L5:3733:A:H2'	1:L5:3734:U:C5'	2.40	0.48
1:L5:3902:A:N1	1:L5:4523:A:C2	2.82	0.48
1:L5:4403:U:O2'	1:L5:4404:U:H5'	2.12	0.48
1:L5:5045:G:C2'	1:L5:5046:U:H5'	2.44	0.48
3:L8:133:G:O3'	26:LX:66:PRO:HB3	2.12	0.48
4:LA:145:LYS:HD2	4:LA:157:VAL:CG1	2.43	0.48
5:LB:108:GLU:HG2	5:LB:109:HIS:ND1	2.28	0.48
6:LC:222:ARG:NH2	27:LY:3:PHE:CE2	2.81	0.48
10:LG:154:LEU:HD22	10:LG:204:PHE:CE2	2.48	0.48
11:LH:92:MET:HG2	11:LH:146:LEU:HD21	1.94	0.48
12:LI:125:THR:HG22	12:LI:126:VAL:N	2.27	0.48
15:LM:70:GLN:C	15:LM:73:VAL:HG12	2.38	0.48
15:LM:86:TRP:C	15:LM:88:ALA:H	2.21	0.48
17:LO:22:ILE:HD11	21:LS:166:ARG:NH1	2.29	0.48
17:LO:179:LYS:HA	17:LO:182:GLU:HB2	1.94	0.48
33:Le:28:TYR:HB3	33:Le:30:LYS:HG2	1.94	0.48
37:Li:92:ASN:O	37:Li:95:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:Lo:65:LYS:HE3	43:Lo:87:ARG:NH2	2.29	0.48
43:Lo:93:LEU:HD23	43:Lo:93:LEU:C	2.38	0.48
47:S2:101:U:H5"	54:SI:19:LYS:HE3	1.94	0.48
47:S2:145:G:OP2	70:SG:137:ARG:NE	2.43	0.48
47:S2:171:A:O2'	47:S2:172:U:O5'	2.30	0.48
47:S2:542:U:H2'	47:S2:543:C:H5'	1.95	0.48
47:S2:1043:G:O2'	47:S2:1044:G:H5'	2.13	0.48
47:S2:1047:C:C2'	47:S2:1048:G:H5'	2.44	0.48
47:S2:1280:G:H5'	72:SM:101:ARG:HD2	1.95	0.48
47:S2:1446:A:C5'	62:SU:57:PRO:HA	2.43	0.48
47:S2:1551:U:H4'	47:S2:1552:G:OP1	2.13	0.48
47:S2:1673:U:H2'	47:S2:1674:G:H5'	1.95	0.48
49:SB:83:LYS:HE2	49:SB:106:THR:HG22	1.95	0.48
51:SE:48:LEU:HD21	51:SE:64:ILE:HD11	1.94	0.48
51:SE:86:PHE:O	51:SE:87:MET:HB2	2.11	0.48
51:SE:136:ILE:HG13	51:SE:138:HIS:HE1	1.77	0.48
52:SF:22:LYS:HG3	52:SF:23:TRP:CG	2.48	0.48
52:SF:127:ARG:CB	52:SF:137:GLN:HB2	2.42	0.48
52:SF:140:ASP:HB3	66:Sc:46:VAL:HG12	1.94	0.48
53:SH:7:LYS:HE3	53:SH:17:ASP:CB	2.33	0.48
54:SI:166:PHE:CE1	54:SI:171:LEU:HD11	2.48	0.48
57:SP:93:MET:HG3	57:SP:102:PHE:CB	2.42	0.48
61:ST:18:LEU:CD2	61:ST:58:ALA:HB1	2.43	0.48
68:Sg:206:LEU:HD13	68:Sg:218:LEU:CD2	2.39	0.48
70:SG:217:MET:CA	70:SG:220:ALA:HB3	2.37	0.48
71:SJ:32:ILE:HG23	71:SJ:37:LEU:CB	2.42	0.48
71:SJ:120:ALA:HB3	71:SJ:126:ALA:CA	2.42	0.48
73:SN:80:LEU:C	73:SN:80:LEU:HD12	2.37	0.48
78:Sb:18:LYS:O	78:Sb:19:HIS:HB3	2.13	0.48
1:L5:113:A:O2'	1:L5:114:G:H5'	2.12	0.48
1:L5:160:G:C2'	1:L5:161:G:H5'	2.43	0.48
1:L5:355:A:O2'	1:L5:356:G:H5'	2.13	0.48
1:L5:1073:G:N2	1:L5:1239:C:N3	2.51	0.48
1:L5:1208:G:O2'	1:L5:1209:U:H5'	2.14	0.48
1:L5:1469:C:N4	1:L5:1495:G:H1	2.11	0.48
1:L5:1778:C:C4	1:L5:1779:U:H5	2.32	0.48
1:L5:2451:A:C2'	1:L5:2452:G:H5'	2.43	0.48
1:L5:2627:C:H2'	1:L5:2628:U:H6	1.78	0.48
1:L5:2769:U:OP2	1:L5:2769:U:H6	1.96	0.48
1:L5:2896:G:N1	1:L5:3606:U:O2	2.46	0.48
1:L5:3939:G:O6	1:L5:4170:A:H2'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4077:A:H2'	1:L5:4078:C:H5'	1.94	0.48
1:L5:4117:U:H2'	1:L5:4118:U:H5'	1.96	0.48
1:L5:4457:U:C2'	1:L5:4458:C:H5'	2.43	0.48
1:L5:4469:U:C2	1:L5:4708:A:N7	2.81	0.48
1:L5:4523:A:C2	1:L5:4559:A:C5	3.01	0.48
1:L5:4581:G:OP2	5:LB:26:ARG:NH2	2.46	0.48
1:L5:4948:C:HO2'	1:L5:4949:G:P	2.36	0.48
2:L7:12:U:H4'	2:L7:109:U:O2	2.13	0.48
2:L7:18:C:N3	2:L7:61:G:C2	2.80	0.48
3:L8:72:A:OP1	27:LY:51:LYS:HB2	2.12	0.48
5:LB:130:PHE:HA	5:LB:133:TYR:HB3	1.94	0.48
5:LB:391:PRO:HG2	5:LB:392:LEU:H	1.78	0.48
11:LH:27:VAL:HG11	11:LH:84:VAL:HG21	1.94	0.48
12:LI:60:LEU:HD11	12:LI:65:LEU:CD2	2.43	0.48
13:LJ:35:ARG:O	13:LJ:39:VAL:HG13	2.13	0.48
14:LL:63:THR:OG1	29:La:66:ASN:HB3	2.12	0.48
15:LM:97:ALA:HB1	17:LO:200:GLY:C	2.37	0.48
18:LP:119:VAL:CG1	18:LP:146:ILE:CD1	2.91	0.48
22:LT:18:PRO:HG2	22:LT:21:LYS:HB2	1.95	0.48
31:Lc:64:ALA:CB	31:Lc:69:THR:HG22	2.43	0.48
31:Lc:74:TYR:CE2	31:Lc:81:LEU:HB2	2.48	0.48
34:Lf:11:PHE:HZ	34:Lf:14:TYR:CE1	2.31	0.48
36:Lh:62:ASN:C	36:Lh:65:GLN:HG2	2.38	0.48
47:S2:113:G:C2	47:S2:292:A:H1'	2.48	0.48
47:S2:193:C:H2'	47:S2:194:C:H1'	1.95	0.48
47:S2:628:A:H2	47:S2:1500:G:H21	1.61	0.48
47:S2:638:C:H1'	79:Se:56:ASN:ND2	2.28	0.48
47:S2:646:G:C2'	47:S2:647:U:H5'	2.43	0.48
47:S2:942:G:H2'	47:S2:943:U:C5	2.48	0.48
47:S2:1056:U:C4	47:S2:1057:C:N3	2.81	0.48
47:S2:1102:G:C2	47:S2:1131:G:C2	3.02	0.48
47:S2:1104:G:O2'	47:S2:1105:G:H5'	2.13	0.48
47:S2:1407:U:OP1	47:S2:1407:U:H4'	2.14	0.48
50:SD:53:THR:HA	50:SD:91:VAL:CG2	2.43	0.48
51:SE:84:ALA:HB1	51:SE:101:LEU:HD22	1.96	0.48
52:SF:142:SER:HB2	66:Sc:47:LYS:O	2.13	0.48
59:SR:80:ARG:HG3	59:SR:84:TYR:CE2	2.44	0.48
68:Sg:24:THR:HG21	68:Sg:27:PHE:HB2	1.94	0.48
70:SG:3:LEU:C	70:SG:3:LEU:HD12	2.38	0.48
70:SG:50:VAL:HG12	70:SG:113:ILE:CD1	2.40	0.48
70:SG:230:LYS:HG2	70:SG:234:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:SJ:46:VAL:HG21	71:SJ:106:LEU:CD1	2.27	0.48
71:SJ:125:HIS:NE2	71:SJ:129:LEU:HD11	2.28	0.48
72:SM:35:ILE:CD1	72:SM:61:TYR:HE1	2.25	0.48
74:SO:14:VAL:CB	74:SO:15:ILE:HA	2.22	0.48
74:SO:62:VAL:HG12	74:SO:63:LYS:N	2.29	0.48
78:Sb:54:VAL:HG12	78:Sb:55:LEU:N	2.29	0.48
1:L5:67:C:H41	1:L5:326:C:C5'	2.26	0.48
1:L5:379:G:C2'	1:L5:380:U:H5'	2.42	0.48
1:L5:467:U:H2'	1:L5:468:U:C4'	2.43	0.48
1:L5:724:C:C2'	1:L5:725:G:H5'	2.44	0.48
1:L5:729:G:N1	9:LF:73:ARG:HD3	2.28	0.48
1:L5:975:C:O5'	1:L5:975:C:H6	1.95	0.48
1:L5:1067:G:C2	1:L5:1068:G:H1'	2.49	0.48
1:L5:1579:C:C2'	1:L5:1580:C:H5'	2.43	0.48
1:L5:2099:G:H2'	1:L5:2100:A:O4'	2.13	0.48
1:L5:2459:G:N2	1:L5:2462:C:OP2	2.45	0.48
1:L5:2558:C:C2'	1:L5:2559:G:H5'	2.43	0.48
1:L5:2735:G:C2'	1:L5:2736:G:H5'	2.44	0.48
1:L5:2768:C:O2	35:Lg:69:LYS:NZ	2.46	0.48
1:L5:2857:A:N6	1:L5:2858:A:C6	2.81	0.48
1:L5:3720:G:H2'	1:L5:3721:U:H5'	1.95	0.48
1:L5:3912:U:H2'	1:L5:3913:G:C5'	2.39	0.48
1:L5:4417:C:H2'	1:L5:4418:G:O4'	2.13	0.48
1:L5:4433:G:H5"	12:LI:7:ARG:NH1	2.28	0.48
1:L5:4588:U:C2'	1:L5:4589:A:H5"	2.43	0.48
1:L5:4685:U:H3	1:L5:4705:A:H61	1.61	0.48
1:L5:4728:U:OP1	5:LB:128:LYS:HD3	2.13	0.48
1:L5:4755:G:H1	1:L5:4878:C:H42	1.61	0.48
1:L5:4862:G:H2'	1:L5:4863:G:C4'	2.43	0.48
1:L5:4880:C:H5"	15:LM:120:ASN:ND2	2.28	0.48
3:L8:10:G:H2'	3:L8:11:C:O4'	2.12	0.48
3:L8:47:C:H3'	3:L8:47:C:H6	1.78	0.48
3:L8:64:U:H2'	3:L8:65:A:C8	2.43	0.48
3:L8:90:C:H2'	3:L8:91:A:O4'	2.14	0.48
4:LA:54:ARG:HG3	4:LA:56:ALA:H	1.79	0.48
5:LB:234:ARG:NH1	5:LB:235:TRP:HE1	2.10	0.48
5:LB:359:ALA:O	5:LB:360:LEU:HG	2.13	0.48
5:LB:382:MET:HG2	5:LB:386:LYS:HD3	1.95	0.48
6:LC:206:GLY:N	6:LC:226:GLY:O	2.42	0.48
6:LC:364:LYS:O	6:LC:367:GLU:HB2	2.12	0.48
7:LD:136:ASP:OD1	7:LD:137:GLY:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:258:LEU:CD2	8:LE:262:LYS:HE2	2.33	0.48
9:LF:85:ALA:HA	22:LT:138:ALA:HB3	1.91	0.48
11:LH:51:LYS:NZ	11:LH:52:LYS:HD3	2.29	0.48
12:LI:30:LYS:CB	12:LI:63:GLU:HG3	2.43	0.48
13:LJ:153:ALA:CB	13:LJ:156:ARG:HG2	2.40	0.48
15:LM:126:GLU:HA	15:LM:129:LYS:CG	2.42	0.48
16:LN:64:ILE:HD11	16:LN:102:ALA:CA	2.43	0.48
20:LR:172:ARG:O	20:LR:176:ARG:NH2	2.46	0.48
23:LU:27:HIS:HB2	23:LU:28:PRO:HD3	1.95	0.48
23:LU:103:VAL:HG11	23:LU:113:ARG:NH1	2.28	0.48
27:LY:80:ILE:CD1	27:LY:101:PRO:HG3	2.44	0.48
28:LZ:53:VAL:HG22	28:LZ:54:THR:N	2.27	0.48
31:Lc:60:ILE:HA	31:Lc:63:TYR:HD1	1.77	0.48
33:Le:63:ASN:OD1	33:Le:64:LYS:N	2.46	0.48
37:Li:72:PHE:O	37:Li:75:LYS:HB3	2.14	0.48
38:Lj:40:PRO:HD2	38:Lj:41:ALA:N	2.28	0.48
47:S2:818:A:H3'	47:S2:819:G:H5'	1.95	0.48
47:S2:924:G:C5	47:S2:925:G:N7	2.80	0.48
47:S2:934:G:O5'	47:S2:993:G:N2	2.46	0.48
47:S2:947:G:C2	47:S2:980:A:N1	2.81	0.48
47:S2:1065:G:O2'	47:S2:1066:U:H5'	2.13	0.48
47:S2:1555:U:O2'	47:S2:1556:A:H5"	2.14	0.48
47:S2:1601:A:O2'	47:S2:1635:C:N4	2.46	0.48
47:S2:1629:C:O2'	60:SS:85:ASN:ND2	2.46	0.48
48:SA:7:VAL:HG21	63:SV:42:VAL:O	2.14	0.48
48:SA:9:GLN:O	48:SA:11:LYS:HG2	2.13	0.48
48:SA:33:GLN:CB	48:SA:154:LEU:HD12	2.43	0.48
50:SD:43:PRO:C	50:SD:44:THR:HG1	2.18	0.48
50:SD:101:GLN:NE2	50:SD:104:SER:HB3	2.28	0.48
51:SE:96:GLY:C	51:SE:98:ASN:HD22	2.22	0.48
51:SE:124:CYS:HB3	51:SE:141:THR:HB	1.94	0.48
51:SE:180:LEU:HD12	51:SE:180:LEU:C	2.38	0.48
55:SK:76:ILE:HD12	55:SK:91:PRO:HB2	1.95	0.48
61:ST:72:VAL:HG23	61:ST:100:ALA:HB3	1.96	0.48
61:ST:77:LYS:O	61:ST:78:ILE:HB	2.13	0.48
64:SX:105:PHE:HB2	64:SX:119:ARG:C	2.39	0.48
68:Sg:291:TRP:CZ3	68:Sg:298:LEU:HA	2.48	0.48
69:SC:125:LYS:HA	69:SC:143:CYS:HA	1.95	0.48
70:SG:74:ARG:NH1	70:SG:95:LYS:HA	2.28	0.48
70:SG:171:THR:O	70:SG:172:LYS:HB3	2.13	0.48
71:SJ:32:ILE:HD11	71:SJ:40:LYS:HA	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:SJ:177:ASN:HA	71:SJ:180:LYS:HB2	1.94	0.48
74:SO:38:ASN:C	74:SO:69:SER:HB3	2.37	0.48
74:SO:83:GLN:CA	74:SO:86:LYS:HG2	2.31	0.48
77:SZ:68:ILE:HB	77:SZ:109:TYR:C	2.38	0.48
1:L5:170:C:H4'	1:L5:171:U:OP1	2.13	0.48
1:L5:242:U:H3'	1:L5:242:U:H6	1.78	0.48
1:L5:500:G:H5'	1:L5:501:C:O4'	2.13	0.48
1:L5:517:C:H5'	1:L5:518:G:OP1	2.14	0.48
1:L5:664:G:H4'	1:L5:665:C:H5'	1.95	0.48
1:L5:986:C:H42	1:L5:1068:G:N2	2.07	0.48
1:L5:1097:C:H6	1:L5:1097:C:H3'	1.77	0.48
1:L5:1348:U:H2'	1:L5:1349:G:C8	2.48	0.48
1:L5:1885:G:N2	1:L5:1895:G:H1'	2.27	0.48
1:L5:2000:G:H3'	1:L5:2000:G:N3	2.29	0.48
1:L5:2090:U:O2	1:L5:2090:U:H2'	2.12	0.48
1:L5:2094:G:O6	9:LF:185:ILE:HD11	2.13	0.48
1:L5:2598:A:H2'	1:L5:2599:G:C5'	2.43	0.48
1:L5:2767:U:H2'	1:L5:2769:U:C2	2.48	0.48
1:L5:3725:G:N2	1:L5:3728:A:OP2	2.28	0.48
1:L5:4135:G:N2	1:L5:4150:G:H1'	2.29	0.48
1:L5:4247:G:H2'	1:L5:4248:A:C8	2.48	0.48
1:L5:4384:U:O3'	1:L5:4385:A:H3'	2.14	0.48
1:L5:4532:U:H2'	1:L5:4533:A:O4'	2.13	0.48
1:L5:4546:A:C2'	1:L5:4547:C:H5'	2.43	0.48
1:L5:4572:U:H5"	1:L5:4573:G:OP1	2.13	0.48
1:L5:4690:G:O2'	11:LH:72:THR:HG22	2.13	0.48
1:L5:5022:U:H5'	1:L5:5024:C:O4'	2.13	0.48
1:L5:5057:C:H2'	1:L5:5058:A:O4'	2.14	0.48
2:L7:13:A:H3'	2:L7:14:C:C6	2.48	0.48
5:LB:21:ARG:HG2	5:LB:271:GLN:NE2	2.29	0.48
5:LB:223:THR:HG22	5:LB:224:LYS:N	2.29	0.48
7:LD:83:LEU:HA	7:LD:86:TYR:HD2	1.79	0.48
7:LD:211:LEU:HD22	7:LD:218:ALA:CB	2.44	0.48
8:LE:160:LYS:NZ	8:LE:182:ASN:O	2.43	0.48
8:LE:278:THR:O	8:LE:278:THR:HG23	2.13	0.48
11:LH:4:ILE:HD11	21:LS:152:PHE:CD1	2.49	0.48
15:LM:48:GLN:HE21	15:LM:50:MET:HE1	1.78	0.48
16:LN:159:ARG:HG3	16:LN:164:LEU:CD1	2.41	0.48
18:LP:4:TYR:CZ	18:LP:18:ARG:HD2	2.49	0.48
18:LP:119:VAL:CG1	18:LP:146:ILE:HD12	2.43	0.48
47:S2:90:G:N3	47:S2:90:G:H2'	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:195:C:C2	47:S2:205:G:C6	3.01	0.48
47:S2:377:G:C2'	47:S2:378:U:H5'	2.43	0.48
47:S2:918:U:H2'	47:S2:919:A:O4'	2.13	0.48
47:S2:924:G:O2'	47:S2:925:G:H5'	2.13	0.48
47:S2:1126:G:C6	47:S2:1127:C:C4	3.01	0.48
47:S2:1317:C:H5"	47:S2:1318:G:H5"	1.96	0.48
47:S2:1473:G:N2	47:S2:1475:G:H5"	2.28	0.48
47:S2:1542:C:H5"	61:ST:62:ARG:HH11	1.78	0.48
47:S2:1598:G:C8	77:SZ:82:SER:HA	2.48	0.48
50:SD:73:VAL:CG2	50:SD:84:VAL:HG21	2.43	0.48
50:SD:142:LEU:O	50:SD:143:ARG:HB3	2.13	0.48
52:SF:122:ARG:HA	52:SF:141:VAL:HG11	1.95	0.48
53:SH:49:LYS:N	53:SH:61:ILE:O	2.31	0.48
54:SI:65:PHE:CE2	54:SI:104:ILE:HG21	2.48	0.48
57:SP:77:LYS:HA	57:SP:78:THR:HA	1.52	0.48
58:SQ:81:ILE:O	58:SQ:85:ARG:N	2.46	0.48
60:SS:23:ARG:HD2	77:SZ:48:VAL:HG22	1.95	0.48
60:SS:24:ARG:C	60:SS:29:ALA:HB2	2.38	0.48
61:ST:22:LEU:HD22	61:ST:54:TYR:CB	2.43	0.48
61:ST:28:LEU:HD22	61:ST:54:TYR:CE1	2.48	0.48
63:SV:30:ALA:HB3	63:SV:57:GLY:CA	2.44	0.48
68:Sg:33:SER:N	68:Sg:41:ILE:O	2.46	0.48
68:Sg:256:ILE:HB	68:Sg:269:GLU:O	2.13	0.48
70:SG:195:LYS:HA	70:SG:198:ARG:HH11	1.79	0.48
72:SM:90:GLY:HA2	72:SM:93:LYS:CD	2.28	0.48
73:SN:88:LEU:HB2	73:SN:125:LEU:HD23	1.95	0.48
79:Se:39:ASN:HA	79:Se:43:VAL:HG23	1.91	0.48
1:L5:90:G:P	43:Lo:43:ARG:HH11	2.35	0.48
1:L5:98:A:C2	1:L5:99:A:C4	3.01	0.48
1:L5:294:G:N3	1:L5:294:G:C3'	2.74	0.48
1:L5:953:C:O3'	34:Lf:73:LYS:NZ	2.47	0.48
1:L5:1561:G:H2'	1:L5:1562:G:C5'	2.41	0.48
1:L5:1623:A:H4'	1:L5:1626:G:O2'	2.13	0.48
1:L5:2447:U:H6	1:L5:2447:U:O5'	1.96	0.48
1:L5:2480:G:H2'	1:L5:2481:G:H5'	1.96	0.48
1:L5:2521:G:P	35:Lg:8:ARG:HH12	2.37	0.48
1:L5:3976:C:O2'	1:L5:4036:G:O6	2.30	0.48
1:L5:4092:G:C4	1:L5:4093:G:C8	3.02	0.48
1:L5:4238:G:O2'	1:L5:4239:A:H5'	2.13	0.48
1:L5:4239:A:H61	1:L5:4284:C:H42	1.61	0.48
1:L5:4505:C:H2'	1:L5:4506:C:H6	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4551:U:O2'	1:L5:4552:U:H5'	2.12	0.48
1:L5:4765:G:O2'	1:L5:4766:C:H5'	2.13	0.48
1:L5:4941:G:N3	8:LE:190:HIS:HB2	2.28	0.48
1:L5:4988:U:C5	1:L5:5061:A:H5"	2.49	0.48
1:L5:5068:G:H1'	1:L5:5069:U:H5	1.79	0.48
2:L7:86:G:H5"	21:LS:120:ARG:NH2	2.28	0.48
9:LF:140:ILE:O	9:LF:140:ILE:HD12	2.13	0.48
10:LG:47:PRO:CG	10:LG:49:ARG:HH21	2.24	0.48
11:LH:30:PRO:HG3	11:LH:85:THR:HA	1.95	0.48
12:LI:49:GLY:HA2	12:LI:138:ILE:O	2.13	0.48
13:LJ:119:TYR:CG	13:LJ:120:ASP:N	2.81	0.48
14:LL:79:GLU:HA	14:LL:82:ARG:NH1	2.28	0.48
15:LM:97:ALA:HB1	17:LO:200:GLY:CA	2.44	0.48
21:LS:86:SER:OG	21:LS:87:ARG:N	2.46	0.48
24:LV:69:LYS:HE2	24:LV:71:GLU:HB3	1.96	0.48
24:LV:94:VAL:CB	25:LW:20:ARG:HH12	2.26	0.48
24:LV:112:MET:HE1	24:LV:117:ILE:CG1	2.44	0.48
25:LW:31:PHE:CD1	25:LW:37:GLU:HA	2.48	0.48
26:LX:102:VAL:HA	26:LX:134:LYS:HG3	1.96	0.48
26:LX:128:ILE:HG12	26:LX:134:LYS:HG2	1.94	0.48
28:LZ:53:VAL:HG21	28:LZ:62:ILE:HD12	1.95	0.48
28:LZ:125:GLY:O	28:LZ:128:LYS:HG3	2.13	0.48
35:Lg:59:VAL:HG22	35:Lg:60:ARG:N	2.28	0.48
39:Lk:60:LEU:CD1	39:Lk:64:LEU:HB2	2.43	0.48
45:Lr:6:GLN:O	45:Lr:10:VAL:HG22	2.13	0.48
45:Lr:51:VAL:HG22	45:Lr:52:GLU:N	2.28	0.48
47:S2:362:C:O2'	47:S2:363:A:H5'	2.14	0.48
47:S2:818:A:H2'	47:S2:819:G:H5'	1.96	0.48
47:S2:859:G:H2'	47:S2:860:G:H5'	1.94	0.48
47:S2:1233:G:H21	47:S2:1252:C:C2'	2.26	0.48
47:S2:1542:C:H5"	61:ST:62:ARG:NH1	2.29	0.48
47:S2:1545:A:O3'	58:SQ:75:GLY:HA2	2.13	0.48
49:SB:140:VAL:HG23	49:SB:141:GLY:N	2.28	0.48
50:SD:206:ASP:O	50:SD:208:VAL:HG23	2.14	0.48
53:SH:63:PHE:CE1	53:SH:95:ILE:HD11	2.49	0.48
53:SH:125:VAL:O	53:SH:128:ALA:N	2.47	0.48
54:SI:7:ASN:O	54:SI:10:LYS:HG2	2.14	0.48
56:SL:17:PHE:CE2	56:SL:19:ASN:C	2.92	0.48
60:SS:118:ARG:NH1	60:SS:152:LYS:HE2	2.28	0.48
61:ST:73:GLY:C	61:ST:76:THR:HG22	2.38	0.48
65:Sa:103:PRO:C	65:Sa:105:GLY:HA3	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:191:HIS:CE1	68:Sg:217:MET:HE2	2.48	0.48
71:SJ:4:ALA:CB	71:SJ:5:ARG:CA	2.74	0.48
71:SJ:109:ARG:NH2	71:SJ:145:PRO:HB2	2.28	0.48
73:SN:108:ASP:CG	73:SN:111:ALA:HB3	2.38	0.48
74:SO:72:TYR:CZ	74:SO:76:LEU:HD23	2.49	0.48
77:SZ:97:ILE:HD11	77:SZ:110:THR:N	2.16	0.48
1:L5:139:G:O2'	1:L5:140:G:H5'	2.13	0.48
1:L5:269:G:H3'	1:L5:270:U:C6	2.48	0.48
1:L5:297:U:H2'	1:L5:298:G:C8	2.48	0.48
1:L5:443:G:H2'	1:L5:444:G:O4'	2.13	0.48
1:L5:450:G:N2	1:L5:452:A:O5'	2.46	0.48
1:L5:1263:A:H2'	1:L5:1264:C:O4'	2.14	0.48
1:L5:1421:G:H3'	1:L5:1421:G:OP2	2.12	0.48
1:L5:1632:A:H4'	1:L5:4534:G:H4'	1.95	0.48
1:L5:1801:A:C2	1:L5:1802:A:C4	3.01	0.48
1:L5:1866:U:H5'	12:LI:4:ARG:HH22	1.79	0.48
1:L5:1952:G:N2	1:L5:1953:U:O2	2.47	0.48
1:L5:2253:A:N6	1:L5:2261:G:N7	2.61	0.48
1:L5:2539:C:H5"	35:Lg:66:ARG:HH11	1.79	0.48
1:L5:2762:G:O2'	1:L5:2763:U:OP2	2.25	0.48
1:L5:3663:A:O2'	1:L5:3664:G:OP1	2.31	0.48
1:L5:3700:C:H2'	1:L5:3746:A:N6	2.16	0.48
1:L5:4302:U:C5	1:L5:4303:C:H6	2.31	0.48
1:L5:4441:A:H2'	1:L5:4442:U:H5"	1.96	0.48
1:L5:4580:U:O2'	5:LB:182:GLU:HG3	2.13	0.48
1:L5:4619:U:C4	1:L5:4620:U:C4	3.02	0.48
1:L5:4633:G:N1	1:L5:4664:A:OP2	2.33	0.48
1:L5:4762:A:N3	21:LS:174:THR:HG22	2.29	0.48
4:LA:112:ILE:HA	4:LA:134:ALA:O	2.14	0.48
4:LA:158:ILE:CG2	4:LA:162:ASN:HD21	2.26	0.48
5:LB:143:LYS:O	5:LB:146:LEU:HB2	2.14	0.48
5:LB:293:ILE:C	5:LB:297:LYS:HA	2.37	0.48
7:LD:240:TYR:O	7:LD:243:ALA:HB3	2.13	0.48
8:LE:208:ILE:HD12	8:LE:209:PRO:HD2	1.95	0.48
12:LI:69:ARG:O	12:LI:73:ASN:HB2	2.14	0.48
18:LP:100:SER:O	18:LP:104:LEU:HD13	2.14	0.48
20:LR:20:LYS:HE3	20:LR:21:LYS:NZ	2.29	0.48
23:LU:96:LEU:HD13	23:LU:100:LEU:HD21	1.96	0.48
25:LW:20:ARG:HD3	25:LW:28:VAL:HG12	1.95	0.48
25:LW:107:GLN:HG3	25:LW:108:ALA:N	2.29	0.48
34:Lf:28:LEU:HD22	34:Lf:101:ILE:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Lk:23:VAL:HG23	39:Lk:36:VAL:HA	1.96	0.48
40:Ll:27:ILE:HD12	40:Ll:30:LYS:HD2	1.95	0.48
45:Lr:26:SER:OG	45:Lr:28:GLU:OE1	2.18	0.48
47:S2:161:U:O4'	76:SY:116:LYS:HG3	2.13	0.48
47:S2:188:C:H3'	47:S2:189:U:C5	2.48	0.48
47:S2:452:G:N2	47:S2:453:C:O2	2.47	0.48
47:S2:597:G:C2	47:S2:640:A:H2	2.31	0.48
47:S2:600:G:H2'	47:S2:601:G:O4'	2.13	0.48
47:S2:690:G:H2'	47:S2:691:G:O4'	2.13	0.48
47:S2:730:C:O2'	47:S2:731:G:H5'	2.13	0.48
47:S2:1097:G:H4'	48:SA:32:PHE:CD2	2.48	0.48
47:S2:1161:U:OP2	64:SX:4:CYS:HB3	2.14	0.48
47:S2:1178:U:C2'	47:S2:1179:G:H5'	2.44	0.48
47:S2:1323:U:H2'	47:S2:1324:G:H8	1.79	0.48
47:S2:1521:C:N4	60:SS:137:LYS:HG2	2.28	0.48
47:S2:1832:A:N6	47:S2:1833:C:H42	2.11	0.48
48:SA:109:THR:C	69:SC:89:LYS:HZ2	2.12	0.48
49:SB:98:THR:OG1	49:SB:99:ASN:N	2.46	0.48
50:SD:40:ARG:HD2	50:SD:49:ILE:HD11	1.95	0.48
51:SE:99:PHE:HB3	51:SE:113:ARG:HA	1.94	0.48
52:SF:54:GLY:CA	58:SQ:125:ARG:HH12	2.27	0.48
54:SI:110:ARG:NH2	54:SI:122:GLY:O	2.36	0.48
54:SI:172:LEU:CD1	54:SI:190:LEU:HD12	2.43	0.48
55:SK:77:GLN:HA	55:SK:80:ARG:CG	2.42	0.48
57:SP:97:TYR:HD1	57:SP:100:LYS:HG2	1.78	0.48
58:SQ:9:SER:OG	58:SQ:26:LYS:HB3	2.14	0.48
58:SQ:10:VAL:HG23	58:SQ:99:TYR:CE2	2.49	0.48
58:SQ:85:ARG:O	58:SQ:88:ILE:HG12	2.12	0.48
60:SS:118:ARG:HH12	60:SS:152:LYS:HE2	1.78	0.48
65:Sa:67:LEU:HD12	65:Sa:67:LEU:C	2.39	0.48
66:Sc:14:VAL:CG1	66:Sc:56:LEU:HD12	2.42	0.48
66:Sc:30:VAL:CG1	66:Sc:50:VAL:HG11	2.36	0.48
68:Sg:149:GLU:HG2	68:Sg:150:TRP:N	2.29	0.48
69:SC:67:GLY:O	69:SC:70:VAL:HB	2.13	0.48
70:SG:20:ASP:O	70:SG:24:LEU:HG	2.13	0.48
75:SW:50:PHE:C	75:SW:51:GLU:HG3	2.39	0.48
76:SY:42:GLU:O	76:SY:45:ALA:HB3	2.12	0.48
1:L5:458:C:H42	1:L5:698:G:H1	1.60	0.48
1:L5:479:G:H2'	1:L5:480:C:H6	1.78	0.48
1:L5:738:C:N4	1:L5:739:G:O6	2.46	0.48
1:L5:959:G:O2'	8:LE:123:ARG:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:979:C:C2'	1:L5:980:U:H5'	2.43	0.48
1:L5:1608:G:C6	1:L5:1609:U:N3	2.82	0.48
1:L5:1764:G:H3'	1:L5:1765:A:C5'	2.43	0.48
1:L5:1864:G:C2'	1:L5:1865:G:H5'	2.44	0.48
1:L5:1877:G:P	30:Lb:14:ARG:HH11	2.36	0.48
1:L5:1947:U:O2'	1:L5:1948:G:H5"	2.14	0.48
1:L5:2022:C:H5"	1:L5:2023:C:C6	2.49	0.48
1:L5:2255:C:N3	1:L5:2258:C:C2	2.82	0.48
1:L5:2664:G:H2'	1:L5:2665:U:C5'	2.41	0.48
1:L5:2799:G:C2'	1:L5:2800:G:H5'	2.44	0.48
1:L5:2895:A:H61	1:L5:3606:U:H3	1.61	0.48
1:L5:3921:U:H3'	1:L5:3921:U:H6	1.79	0.48
1:L5:4098:A:C2	1:L5:4099:G:H1'	2.49	0.48
1:L5:4162:C:H5'	1:L5:4162:C:O2	2.14	0.48
1:L5:4470:G:N2	1:L5:4471:U:O2	2.46	0.48
1:L5:4683:U:C5	1:L5:4706:G:N2	2.82	0.48
1:L5:4745:G:N3	1:L5:4745:G:H2'	2.29	0.48
3:L8:127:U:C6	3:L8:127:U:C3'	2.97	0.48
4:LA:102:LEU:C	4:LA:102:LEU:HD12	2.38	0.48
5:LB:56:ILE:HG22	5:LB:368:ILE:HA	1.95	0.48
5:LB:147:GLU:O	5:LB:151:SER:HB3	2.14	0.48
6:LC:94:ASN:HA	6:LC:100:ARG:O	2.14	0.48
6:LC:156:ASP:OD1	6:LC:253:THR:HG22	2.13	0.48
7:LD:132:VAL:HG21	7:LD:171:LEU:C	2.38	0.48
7:LD:211:LEU:HB3	7:LD:219:TYR:HA	1.95	0.48
10:LG:137:ARG:CB	10:LG:146:LEU:HD11	2.43	0.48
10:LG:255:LYS:O	10:LG:258:ALA:HB3	2.14	0.48
13:LJ:36:ALA:O	13:LJ:39:VAL:HG22	2.14	0.48
13:LJ:76:GLY:O	13:LJ:79:ALA:N	2.46	0.48
15:LM:34:ASN:HA	15:LM:52:PHE:HD2	1.78	0.48
16:LN:198:LEU:HD23	16:LN:198:LEU:C	2.38	0.48
17:LO:93:LYS:HA	17:LO:96:GLN:HB3	1.95	0.48
20:LR:72:LYS:HE2	20:LR:74:ARG:HH12	1.78	0.48
24:LV:90:ARG:NH2	24:LV:96:LEU:HD13	2.27	0.48
26:LX:106:LYS:HE3	26:LX:124:VAL:O	2.13	0.48
27:LY:115:ARG:O	27:LY:118:ILE:HG22	2.13	0.48
28:LZ:49:TYR:CE2	28:LZ:133:LYS:HG3	2.48	0.48
28:LZ:68:ILE:CG2	28:LZ:69:LYS:N	2.77	0.48
30:Lb:62:ALA:O	30:Lb:65:MET:HB2	2.13	0.48
41:Lm:95:ILE:HG12	41:Lm:124:LYS:HB2	1.95	0.48
45:Lr:32:LEU:HD23	45:Lr:110:ALA:CA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:27:A:N1	47:S2:647:U:H5	2.12	0.48
47:S2:116:U:H2'	47:S2:117:C:O4'	2.14	0.48
47:S2:151:C:H2'	47:S2:152:U:C5'	2.44	0.48
47:S2:159:A:H2	47:S2:467:G:H21	1.57	0.48
47:S2:849:A:H5"	47:S2:850:C:OP2	2.14	0.48
47:S2:980:A:C2'	47:S2:981:A:H5'	2.44	0.48
47:S2:1099:G:N3	47:S2:1134:G:N2	2.62	0.48
47:S2:1233:G:H21	47:S2:1252:C:H2'	1.79	0.48
47:S2:1346:U:H2'	47:S2:1347:U:C6	2.47	0.48
47:S2:1555:U:H2'	47:S2:1556:A:H5"	1.95	0.48
47:S2:1703:C:H2'	47:S2:1704:C:H5'	1.95	0.48
48:SA:76:VAL:HG13	48:SA:123:VAL:HG23	1.95	0.48
49:SB:119:THR:CG2	49:SB:120:MET:N	2.76	0.48
49:SB:207:LEU:HD12	49:SB:207:LEU:O	2.13	0.48
50:SD:116:ARG:HG2	50:SD:150:MET:HE1	1.96	0.48
51:SE:137:PRO:HB2	51:SE:150:PRO:HG2	1.96	0.48
52:SF:25:THR:HA	52:SF:26:ASP:C	2.38	0.48
52:SF:92:ILE:HG23	52:SF:170:ALA:CA	2.32	0.48
52:SF:103:LEU:HD21	52:SF:178:ILE:HG13	1.94	0.48
53:SH:134:VAL:HG21	53:SH:158:LEU:HD21	1.96	0.48
55:SK:80:ARG:O	55:SK:85:LEU:HB3	2.13	0.48
56:SL:126:VAL:HG23	56:SL:144:LYS:O	2.14	0.48
58:SQ:27:ARG:HB2	58:SQ:65:GLY:O	2.14	0.48
58:SQ:105:LYS:HA	58:SQ:108:ILE:CG2	2.44	0.48
68:Sg:122:SER:HB2	68:Sg:129:ILE:HG23	1.96	0.48
69:SC:66:LEU:HD13	69:SC:87:PRO:O	2.14	0.48
74:SO:26:ASN:HB2	74:SO:91:THR:OG1	2.13	0.48
75:SW:7:LEU:O	75:SW:11:LEU:HG	2.14	0.48
75:SW:69:LEU:HG	75:SW:70:ASN:N	2.28	0.48
75:SW:93:LEU:O	75:SW:94:LEU:HD23	2.14	0.48
77:SZ:62:VAL:HB	77:SZ:63:PRO:HD3	1.94	0.48
78:Sb:63:LEU:HD12	78:Sb:77:CYS:SG	2.54	0.48
1:L5:137:G:O2'	1:L5:138:G:H5'	2.14	0.48
1:L5:181:C:H2'	1:L5:182:G:H8	1.79	0.48
1:L5:376:A:N6	1:L5:377:A:C6	2.82	0.48
1:L5:486:C:C2	1:L5:671:G:N2	2.81	0.48
1:L5:962:C:H4'	1:L5:2264:C:C4	2.49	0.48
1:L5:1272:C:H2'	8:LE:72:LYS:HB3	1.96	0.48
1:L5:1455:G:O2'	1:L5:1456:C:H5'	2.14	0.48
1:L5:1629:G:N1	4:LA:208:GLU:OE1	2.44	0.48
1:L5:1848:C:H2'	1:L5:1849:U:C5'	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1904:G:C2'	1:L5:1905:U:H5'	2.43	0.48
1:L5:1973:G:H3'	1:L5:1974:U:C5'	2.44	0.48
1:L5:1987:C:H2'	1:L5:1989:G:H1	1.78	0.48
1:L5:2389:A:H4'	32:Ld:70:LYS:HG3	1.96	0.48
1:L5:3748:A:C2	1:L5:3749:C:C4	3.02	0.48
1:L5:3859:G:H4'	18:LP:139:TYR:CE1	2.49	0.48
1:L5:3934:G:N2	1:L5:4177:C:O2	2.47	0.48
1:L5:4200:G:C1'	12:LI:111:LEU:HD23	2.44	0.48
1:L5:4433:G:H5"	12:LI:7:ARG:CZ	2.44	0.48
1:L5:4482:U:C2'	1:L5:4483:C:H5'	2.43	0.48
1:L5:4970:C:O2'	1:L5:4971:A:H5'	2.14	0.48
3:L8:42:G:C6	3:L8:43:A:N7	2.82	0.48
3:L8:92:U:C2'	3:L8:93:C:H5'	2.44	0.48
4:LA:100:ASN:O	4:LA:165:VAL:HG23	2.14	0.48
5:LB:228:TYR:CE1	5:LB:270:GLY:HA2	2.48	0.48
10:LG:201:THR:CG2	10:LG:202:VAL:N	2.77	0.48
14:LL:170:THR:HB	14:LL:173:GLU:CG	2.40	0.48
18:LP:97:ASN:OD1	18:LP:98:ALA:N	2.47	0.48
19:LQ:43:PHE:CE1	19:LQ:138:LEU:HD12	2.49	0.48
24:LV:70:PRO:HG3	47:S2:1724:A:H5'	1.95	0.48
27:LY:51:LYS:HE3	27:LY:72:GLN:CA	2.29	0.48
31:Lc:35:LEU:HD21	31:Lc:63:TYR:CZ	2.48	0.48
46:Lz:136:SER:H	46:Lz:139:THR:CG2	2.27	0.48
47:S2:377:G:C6	47:S2:378:U:C4	3.01	0.48
47:S2:444:G:O6	54:SI:26:LYS:NZ	2.47	0.48
47:S2:808:A:N6	47:S2:809:A:H2	2.11	0.48
47:S2:813:A:OP1	51:SE:16:LYS:NZ	2.45	0.48
47:S2:919:A:P	73:SN:20:ARG:HH12	2.37	0.48
47:S2:995:G:H5'	47:S2:996:A:OP2	2.14	0.48
47:S2:1011:A:H2'	47:S2:1012:A:O4'	2.14	0.48
47:S2:1540:G:H2'	47:S2:1541:G:O4'	2.13	0.48
47:S2:1619:A:H2'	47:S2:1620:A:C5'	2.44	0.48
47:S2:1620:A:N6	47:S2:1662:U:O2	2.43	0.48
47:S2:1627:C:OP1	61:ST:41:LYS:HD2	2.13	0.48
48:SA:30:LEU:HD12	48:SA:34:MET:HB2	1.95	0.48
48:SA:75:SER:OG	48:SA:117:ARG:NH2	2.47	0.48
48:SA:76:VAL:CG1	48:SA:87:VAL:HG13	2.44	0.48
49:SB:197:ILE:HD11	49:SB:210:VAL:CG2	2.44	0.48
51:SE:57:THR:OG1	51:SE:60:GLU:HG3	2.14	0.48
51:SE:146:THR:C	51:SE:147:ILE:HD12	2.39	0.48
52:SF:48:TYR:HB3	58:SQ:49:TYR:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:SI:36:THR:HA	54:SI:58:LEU:O	2.13	0.48
57:SP:22:LEU:HD12	57:SP:22:LEU:C	2.39	0.48
61:ST:42:HIS:CD2	61:ST:93:SER:HB3	2.48	0.48
61:ST:101:ARG:HA	61:ST:104:LEU:CG	2.43	0.48
62:SU:50:VAL:HG23	62:SU:90:ASP:O	2.13	0.48
62:SU:56:MET:CG	62:SU:57:PRO:CD	2.89	0.48
63:SV:23:ILE:CD1	69:SC:251:LEU:HD13	2.44	0.48
68:Sg:77:PHE:CD1	68:Sg:89:LEU:HD11	2.48	0.48
68:Sg:114:SER:HA	68:Sg:156:PHE:CE2	2.33	0.48
68:Sg:165:ILE:O	68:Sg:176:VAL:HA	2.14	0.48
69:SC:278:THR:HA	69:SC:279:ARG:HA	1.56	0.48
72:SM:20:GLU:HA	72:SM:117:GLU:OE1	2.14	0.48
74:SO:31:CYS:SG	74:SO:32:HIS:N	2.87	0.48
76:SY:91:LEU:O	76:SY:97:TYR:N	2.47	0.48
1:L5:124:C:OP1	16:LN:144:ARG:HD2	2.14	0.48
1:L5:350:C:C2	1:L5:351:C:H5	2.32	0.48
1:L5:379:G:C5	1:L5:380:U:C5	3.02	0.48
1:L5:420:A:C8	1:L5:421:C:C6	3.02	0.48
1:L5:425:U:O2'	1:L5:426:A:H5'	2.14	0.48
1:L5:964:A:H61	1:L5:2251:G:C4'	2.27	0.48
1:L5:1256:G:C5	1:L5:1257:A:H1'	2.49	0.48
1:L5:1406:G:O6	1:L5:1408:G:H4'	2.14	0.48
1:L5:1570:G:O2'	20:LR:130:ASN:ND2	2.47	0.48
1:L5:1594:C:O2'	1:L5:1595:G:H5'	2.14	0.48
1:L5:1944:A:C5	1:L5:2039:G:N2	2.82	0.48
1:L5:1964:A:C2'	1:L5:1965:G:H5'	2.37	0.48
1:L5:2297:G:O2'	6:LC:140:LYS:NZ	2.44	0.48
1:L5:2331:G:H4'	1:L5:2332:A:OP1	2.14	0.48
1:L5:3594:C:O2'	1:L5:3595:U:OP1	2.29	0.48
1:L5:3597:G:H5'	20:LR:143:HIS:CE1	2.49	0.48
1:L5:3709:U:H5'	1:L5:3710:G:C8	2.49	0.48
1:L5:3714:G:C6	1:L5:3740:G:N3	2.82	0.48
1:L5:3737:A:H2'	1:L5:3738:G:O4'	2.14	0.48
1:L5:3766:A:H3'	1:L5:3766:A:N3	2.28	0.48
1:L5:4103:C:O5'	1:L5:4103:C:H6	1.97	0.48
1:L5:4303:C:O2'	1:L5:4304:A:O5'	2.29	0.48
1:L5:4862:G:OP2	1:L5:4862:G:H3'	2.13	0.48
1:L5:4896:G:N7	1:L5:4897:G:C8	2.82	0.48
3:L8:116:C:H2'	3:L8:117:C:H6	1.78	0.48
3:L8:144:U:H2'	3:L8:145:C:C6	2.48	0.48
5:LB:27:GLY:HA3	5:LB:276:HIS:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:67:VAL:HG13	24:LV:14:PHE:HZ	1.78	0.48
5:LB:211:PHE:CE2	5:LB:347:LEU:HB3	2.48	0.48
5:LB:214:ASP:OD1	5:LB:215:GLU:N	2.46	0.48
5:LB:229:LYS:N	5:LB:270:GLY:O	2.47	0.48
6:LC:158:VAL:O	6:LC:161:TYR:HD2	1.97	0.48
6:LC:184:TYR:CE1	6:LC:225:PRO:HG2	2.49	0.48
7:LD:56:THR:O	7:LD:58:ARG:N	2.38	0.48
8:LE:130:LYS:O	8:LE:131:LYS:HB2	2.14	0.48
10:LG:63:LEU:HD21	16:LN:32:GLN:HB2	1.96	0.48
11:LH:12:ILE:HG23	11:LH:16:VAL:CG2	2.44	0.48
11:LH:89:ARG:NH2	11:LH:145:ILE:HG12	2.29	0.48
13:LJ:62:ILE:O	13:LJ:62:ILE:HD12	2.14	0.48
14:LL:107:THR:O	14:LL:110:LEU:N	2.47	0.48
16:LN:46:ASP:OD1	16:LN:47:LYS:N	2.46	0.48
17:LO:166:ILE:HA	17:LO:169:ARG:CG	2.41	0.48
21:LS:16:CYS:SG	21:LS:54:MET:HB3	2.54	0.48
21:LS:124:ILE:HD12	21:LS:124:ILE:C	2.39	0.48
22:LT:73:GLY:O	22:LT:74:ILE:HG13	2.14	0.48
25:LW:101:ARG:HE	25:LW:105:ARG:HG2	1.78	0.48
25:LW:103:ALA:O	25:LW:107:GLN:N	2.47	0.48
27:LY:47:MET:HE1	27:LY:118:ILE:HG21	1.95	0.48
29:La:78:LEU:CD2	29:La:101:ILE:HG21	2.43	0.48
36:Lh:21:LEU:HD12	36:Lh:57:VAL:CG1	2.44	0.48
36:Lh:86:LYS:N	38:Lj:80:GLU:OE2	2.47	0.48
41:Lm:115:CYS:SG	41:Lm:118:THR:HG22	2.54	0.48
44:Lp:46:LYS:HD2	44:Lp:59:SER:CB	2.43	0.48
46:Lz:23:ARG:C	46:Lz:212:LYS:HZ1	2.20	0.48
47:S2:12:U:OP1	69:SC:110:MET:HE1	2.14	0.48
47:S2:23:G:O2'	47:S2:416:U:H5"	2.14	0.48
47:S2:91:A:H5"	47:S2:92:A:H5"	1.94	0.48
47:S2:367:U:H1'	47:S2:371:A:C2	2.49	0.48
47:S2:429:C:C2	47:S2:430:C:C5	3.01	0.48
47:S2:636:C:O2'	47:S2:637:U:H5'	2.14	0.48
47:S2:1059:G:N7	47:S2:1060:A:C6	2.82	0.48
47:S2:1245:G:O2'	47:S2:1246:A:H5'	2.14	0.48
47:S2:1281:G:H2'	47:S2:1282:A:O5'	2.13	0.48
47:S2:1330:G:H3'	47:S2:1331:C:H5'	1.94	0.48
47:S2:1464:C:H4'	59:SR:60:ARG:NH2	2.27	0.48
47:S2:1651:A:N6	47:S2:1674:G:H21	2.08	0.48
49:SB:111:CYS:CB	65:Sa:68:TYR:HD2	2.23	0.48
50:SD:21:LEU:HD21	50:SD:77:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:42:LEU:HD23	51:SE:43:PRO:O	2.14	0.48
51:SE:95:THR:CB	76:SY:16:ARG:HD2	2.43	0.48
51:SE:133:THR:O	51:SE:134:LYS:HB2	2.14	0.48
52:SF:28:VAL:HG22	52:SF:107:ASN:HD22	1.79	0.48
55:SK:79:LEU:HG	55:SK:82:TYR:HE2	1.77	0.48
57:SP:61:ARG:O	57:SP:65:LYS:HD3	2.14	0.48
57:SP:81:ARG:CB	57:SP:96:VAL:HG13	2.43	0.48
58:SQ:71:ARG:HD2	58:SQ:73:LYS:HZ1	1.77	0.48
60:SS:79:ILE:HG23	60:SS:80:PRO:HD2	1.94	0.48
62:SU:38:ASP:OD2	62:SU:104:ILE:HD12	2.14	0.48
64:SX:112:VAL:CG1	64:SX:113:GLY:N	2.76	0.48
67:Sd:30:LEU:C	67:Sd:30:LEU:HD12	2.39	0.48
68:Sg:306:LEU:CD2	68:Sg:308:ARG:HH21	2.26	0.48
70:SG:36:VAL:C	70:SG:49:VAL:HG12	2.39	0.48
71:SJ:29:LEU:O	71:SJ:33:GLY:N	2.47	0.48
71:SJ:78:LEU:HD13	71:SJ:97:ILE:HD11	1.94	0.48
76:SY:15:ASN:HD21	76:SY:17:LEU:HB2	1.79	0.48
76:SY:27:VAL:CG1	76:SY:35:VAL:HG21	2.43	0.48
76:SY:54:VAL:HG23	76:SY:75:ILE:HG23	1.95	0.48
77:SZ:79:ILE:HG13	77:SZ:81:GLY:H	1.79	0.48
79:Se:24:LYS:CD	79:Se:27:LYS:HE2	2.34	0.48
1:L5:136:C:OP1	36:Lh:96:ASN:HB2	2.14	0.47
1:L5:184:U:C4	1:L5:254:G:C5	3.02	0.47
1:L5:317:A:H2'	1:L5:317:A:N3	2.28	0.47
1:L5:353:A:H2	1:L5:361:C:N4	2.12	0.47
1:L5:376:A:O2'	6:LC:86:ARG:HB2	2.13	0.47
1:L5:385:A:OP1	27:LY:77:LYS:NZ	2.41	0.47
1:L5:916:C:N3	1:L5:918:G:C2	2.82	0.47
1:L5:1636:U:H5'	1:L5:1636:U:H6	1.79	0.47
1:L5:1753:G:N2	1:L5:1777:C:H42	2.12	0.47
1:L5:1791:U:H4'	22:LT:19:PHE:CE1	2.49	0.47
1:L5:1833:G:N1	22:LT:125:TRP:O	2.46	0.47
1:L5:1858:A:H2'	1:L5:1859:C:H6	1.79	0.47
1:L5:2094:G:H5'	9:LF:46:ARG:NH2	2.30	0.47
1:L5:2121:C:H4'	9:LF:41:MET:CE	2.45	0.47
1:L5:2253:A:N1	1:L5:2260:C:C4	2.82	0.47
1:L5:2485:U:O2'	1:L5:2486:G:O5'	2.32	0.47
1:L5:2558:C:O2'	1:L5:2559:G:H5'	2.14	0.47
1:L5:2750:G:O2'	1:L5:2751:G:H5'	2.14	0.47
1:L5:3781:C:C6	1:L5:3781:C:H3'	2.48	0.47
1:L5:3892:U:O2'	18:LP:80:GLN:OE1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4102:C:N4	1:L5:4109:G:O6	2.47	0.47
1:L5:4103:C:H4'	1:L5:4104:G:N7	2.28	0.47
1:L5:4199:C:O2	12:LI:111:LEU:HA	2.14	0.47
1:L5:4200:G:H2'	1:L5:4201:G:O4'	2.14	0.47
1:L5:4206:C:HO2'	1:L5:4335:C:HO2'	1.49	0.47
1:L5:4414:A:H5"	12:LI:154:ARG:HH11	1.76	0.47
1:L5:4635:A:O2'	1:L5:4636:U:H5'	2.14	0.47
2:L7:44:C:H2'	2:L7:45:U:H5'	1.95	0.47
3:L8:15:G:C6	3:L8:16:G:N2	2.81	0.47
4:LA:42:LYS:CG	4:LA:89:TYR:HE1	2.27	0.47
5:LB:130:PHE:HD1	5:LB:133:TYR:CD2	2.31	0.47
6:LC:331:TYR:HA	9:LF:51:TYR:CD1	2.49	0.47
7:LD:64:ILE:HG22	7:LD:65:ALA:N	2.29	0.47
9:LF:143:GLY:HA3	9:LF:240:ILE:CB	2.43	0.47
14:LL:49:ARG:NH2	36:Lh:118:LYS:HA	2.28	0.47
14:LL:57:PRO:HG3	14:LL:75:GLY:C	2.39	0.47
15:LM:97:ALA:HB1	17:LO:200:GLY:HA2	1.96	0.47
17:LO:22:ILE:HG23	17:LO:23:VAL:N	2.28	0.47
21:LS:41:LYS:O	21:LS:44:PHE:HB3	2.14	0.47
21:LS:166:ARG:HD2	21:LS:167:PHE:CE2	2.49	0.47
23:LU:27:HIS:N	23:LU:28:PRO:HD2	2.28	0.47
26:LX:124:VAL:HA	26:LX:137:TYR:O	2.14	0.47
28:LZ:21:ARG:HA	28:LZ:49:TYR:OH	2.14	0.47
34:Lf:4:ARG:O	34:Lf:5:LEU:HB2	2.12	0.47
47:S2:27:A:H2'	47:S2:27:A:N3	2.27	0.47
47:S2:62:G:H2'	47:S2:63:U:C5'	2.43	0.47
47:S2:86:C:O2'	47:S2:87:U:H5'	2.14	0.47
47:S2:379:C:H2'	47:S2:380:G:O4'	2.13	0.47
47:S2:608:C:O4'	79:Se:58:ASN:ND2	2.47	0.47
47:S2:805:U:H4'	75:SW:120:HIS:CD2	2.49	0.47
47:S2:885:U:H3'	47:S2:885:U:H6	1.79	0.47
47:S2:1329:U:O4	47:S2:1493:C:H2'	2.14	0.47
47:S2:1345:G:OP2	47:S2:1688:C:O2'	2.32	0.47
47:S2:1523:C:H5'	47:S2:1524:G:OP1	2.14	0.47
47:S2:1537:A:H2'	47:S2:1538:C:C5'	2.44	0.47
47:S2:1587:G:OP1	61:ST:77:LYS:HE2	2.14	0.47
51:SE:15:PRO:CB	51:SE:18:TRP:CZ3	2.97	0.47
51:SE:49:ARG:O	51:SE:53:LYS:HG2	2.14	0.47
52:SF:128:ILE:HG13	66:Sc:23:SER:HB2	1.96	0.47
53:SH:121:THR:CG2	53:SH:123:THR:HB	2.44	0.47
54:SI:172:LEU:HD12	54:SI:172:LEU:C	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:SK:81:ASP:OD1	55:SK:81:ASP:N	2.43	0.47
56:SL:93:LEU:HD23	56:SL:102:PHE:CD2	2.49	0.47
57:SP:68:PRO:HA	57:SP:69:PRO:HD3	1.75	0.47
62:SU:56:MET:HG2	62:SU:57:PRO:HD2	1.92	0.47
64:SX:9:THR:OG1	64:SX:10:ALA:N	2.47	0.47
64:SX:67:ARG:HG3	64:SX:115:ILE:HG12	1.96	0.47
64:SX:68:LYS:HE2	79:Se:9:ALA:HB2	1.95	0.47
68:Sg:101:PHE:HB3	68:Sg:132:TRP:CZ3	2.49	0.47
68:Sg:107:ASP:O	68:Sg:125:ARG:HB3	2.13	0.47
68:Sg:107:ASP:CG	68:Sg:125:ARG:HD2	2.39	0.47
68:Sg:199:THR:CB	68:Sg:240:CYS:HA	2.44	0.47
68:Sg:214:GLY:O	68:Sg:231:ASP:HA	2.14	0.47
70:SG:39:ASP:HB2	70:SG:46:LYS:HA	1.95	0.47
71:SJ:47:LYS:HA	71:SJ:102:ILE:CD1	2.43	0.47
72:SM:24:THR:HG23	72:SM:115:GLY:HA2	1.96	0.47
1:L5:1:C:H3'	26:LX:37:LYS:HB3	1.96	0.47
1:L5:16:G:N2	3:L8:142:U:H3	2.11	0.47
1:L5:29:G:N2	1:L5:54:G:C4	2.82	0.47
1:L5:390:C:C2'	1:L5:391:U:H5'	2.44	0.47
1:L5:424:U:H5"	18:LP:34:GLN:HE22	1.79	0.47
1:L5:449:C:H5'	1:L5:450:G:OP1	2.13	0.47
1:L5:643:C:C6	1:L5:643:C:C3'	2.97	0.47
1:L5:1174:G:C5	1:L5:1187:G:N2	2.83	0.47
1:L5:1502:G:H22	29:La:77:LYS:HZ1	1.61	0.47
1:L5:1536:U:O2	1:L5:1636:U:H5"	2.14	0.47
1:L5:1625:G:H2'	16:LN:81:TYR:OH	2.14	0.47
1:L5:2002:A:O2'	1:L5:2003:G:OP1	2.25	0.47
1:L5:2121:C:H4'	9:LF:41:MET:HE3	1.96	0.47
1:L5:3603:G:N1	1:L5:3604:A:C2	2.81	0.47
1:L5:3720:G:H1	1:L5:3733:A:N6	1.99	0.47
1:L5:3765:G:H21	1:L5:3766:A:H3'	1.80	0.47
1:L5:3770:U:H2'	1:L5:3771:C:C5'	2.40	0.47
1:L5:3930:U:H2'	1:L5:3931:C:H6	1.78	0.47
1:L5:3965:A:C2	1:L5:4039:G:H5"	2.49	0.47
1:L5:4370:G:C4	81:L5:5101:3HE:H18	2.49	0.47
1:L5:4584:A:H1'	1:L5:4719:G:N1	2.29	0.47
1:L5:4654:C:OP1	32:Ld:78:ARG:NE	2.46	0.47
1:L5:4659:G:H2'	1:L5:4660:G:C8	2.48	0.47
1:L5:4766:C:C2'	1:L5:4767:C:H5'	2.43	0.47
1:L5:4975:G:O2'	1:L5:4977:A:N6	2.47	0.47
1:L5:5021:C:H3'	1:L5:5022:U:H5"	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:5051:C:H5”	5:LB:324:GLY:HA2	1.96	0.47
5:LB:41:VAL:CG1	5:LB:188:GLY:HA3	2.44	0.47
5:LB:293:ILE:HA	5:LB:297:LYS:HA	1.95	0.47
6:LC:5:ARG:HH11	6:LC:26:ALA:HB2	1.79	0.47
6:LC:76:ILE:HG13	6:LC:77:PRO:HD2	1.96	0.47
6:LC:209:ILE:CD1	6:LC:251:ILE:HD12	2.43	0.47
6:LC:235:LEU:HD23	6:LC:240:LEU:HD11	1.96	0.47
7:LD:92:LEU:O	7:LD:93:THR:OG1	2.17	0.47
8:LE:174:LEU:O	8:LE:174:LEU:HG	2.14	0.47
9:LF:27:GLU:O	9:LF:31:LYS:HB2	2.13	0.47
9:LF:80:ASN:ND2	22:LT:142:ARG:HG3	2.29	0.47
10:LG:100:HIS:CG	10:LG:103:ARG:HH12	2.32	0.47
15:LM:17:PHE:C	15:LM:21:ALA:HB2	2.39	0.47
15:LM:40:GLY:C	15:LM:43:THR:HG22	2.39	0.47
19:LQ:128:LEU:O	19:LQ:128:LEU:HD23	2.13	0.47
20:LR:174:GLU:O	20:LR:177:LEU:HG	2.14	0.47
23:LU:29:VAL:HG13	23:LU:35:ASP:HA	1.96	0.47
25:LW:55:TYR:CE1	25:LW:59:HIS:HD2	2.31	0.47
32:Ld:108:TYR:CD2	32:Ld:110:PRO:HD3	2.49	0.47
43:Lo:101:GLY:HA2	43:Lo:102:GLN:CB	2.39	0.47
46:Lz:203:ALA:HA	46:Lz:216:LEU:H	1.79	0.47
47:S2:514:U:O2’	47:S2:515:G:H5’	2.14	0.47
47:S2:936:G:O4’	73:SN:108:ASP:HB3	2.14	0.47
47:S2:942:G:H2’	47:S2:943:U:C6	2.49	0.47
47:S2:1002:U:H6	47:S2:1002:U:O5’	1.96	0.47
47:S2:1279:C:H3’	47:S2:1280:G:C4’	2.44	0.47
47:S2:1334:G:C2	47:S2:1498:A:C5	3.02	0.47
47:S2:1413:G:H2’	47:S2:1414:A:C4’	2.42	0.47
47:S2:1507:G:N1	80:Sf:90:LYS:O	2.47	0.47
47:S2:1550:G:H5’	47:S2:1551:U:OP1	2.14	0.47
47:S2:1724:A:O2’	47:S2:1725:U:H5’	2.14	0.47
48:SA:169:HIS:HB3	48:SA:203:PHE:CZ	2.49	0.47
48:SA:212:LYS:O	48:SA:215:GLN:HG2	2.13	0.47
51:SE:69:PHE:HB2	51:SE:70:ILE:HD12	1.97	0.47
51:SE:95:THR:HA	76:SY:16:ARG:CD	2.42	0.47
52:SF:38:TYR:O	52:SF:40:ALA:N	2.47	0.47
52:SF:126:THR:HG21	66:Sc:26:GLN:NE2	2.29	0.47
52:SF:162:ALA:HA	52:SF:165:ASN:CB	2.44	0.47
52:SF:174:ALA:O	52:SF:177:LEU:HB2	2.14	0.47
58:SQ:31:LEU:HD22	58:SQ:33:LYS:HE3	1.96	0.47
58:SQ:70:VAL:CG1	58:SQ:71:ARG:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:SR:52:GLY:O	59:SR:55:THR:OG1	2.25	0.47
59:SR:119:VAL:HG23	59:SR:119:VAL:O	2.14	0.47
60:SS:87:GLN:O	60:SS:88:LYS:HB3	2.14	0.47
63:SV:33:GLN:HA	63:SV:53:TYR:O	2.14	0.47
64:SX:8:ARG:O	64:SX:8:ARG:HG2	2.14	0.47
65:Sa:41:ILE:HG13	65:Sa:68:TYR:CD1	2.50	0.47
66:Sc:11:LEU:HD23	66:Sc:57:THR:HA	1.95	0.47
66:Sc:34:PHE:CE2	66:Sc:40:ARG:CG	2.97	0.47
68:Sg:119:GLN:CD	68:Sg:121:VAL:HG22	2.40	0.47
69:SC:170:TRP:CB	69:SC:178:HIS:HE1	2.27	0.47
70:SG:176:ILE:HG22	70:SG:177:GLN:N	2.28	0.47
70:SG:181:THR:HG23	70:SG:184:VAL:H	1.79	0.47
71:SJ:12:THR:O	71:SJ:13:TYR:HB3	2.14	0.47
72:SM:50:CYS:O	72:SM:77:ILE:HB	2.13	0.47
73:SN:11:LEU:HD12	73:SN:11:LEU:C	2.39	0.47
73:SN:54:LEU:HB3	73:SN:60:VAL:HG12	1.90	0.47
75:SW:62:VAL:HG12	75:SW:63:VAL:N	2.29	0.47
78:Sb:10:PRO:HB2	78:Sb:15:GLU:OE2	2.14	0.47
1:L5:957:G:HO2'	1:L5:958:G:P	2.37	0.47
1:L5:1070:G:H2'	1:L5:1071:C:C6	2.50	0.47
1:L5:1167:C:C2	1:L5:1168:G:H8	2.31	0.47
1:L5:1169:G:N2	1:L5:1193:C:H1'	2.30	0.47
1:L5:1635:C:C5	1:L5:1636:U:H5	2.31	0.47
1:L5:1796:U:H2'	1:L5:1797:G:C5'	2.44	0.47
1:L5:1873:A:H5'	30:Lb:7:HIS:O	2.14	0.47
1:L5:1940:G:HO2'	1:L5:1941:A:P	2.36	0.47
1:L5:2853:C:N4	1:L5:2854:G:O6	2.48	0.47
1:L5:4162:C:H6	10:LG:69:ILE:HD11	1.79	0.47
1:L5:4493:U:C2'	1:L5:4494:G:H5'	2.45	0.47
3:L8:2:G:H2'	3:L8:3:A:C8	2.49	0.47
3:L8:49:G:O2'	3:L8:50:C:H5'	2.13	0.47
6:LC:181:LYS:O	6:LC:184:TYR:HB2	2.14	0.47
7:LD:21:ARG:O	7:LD:25:GLU:HG2	2.14	0.47
7:LD:82:GLU:HG3	7:LD:86:TYR:HE2	1.80	0.47
8:LE:118:THR:HG22	33:Le:93:LYS:HD2	1.97	0.47
9:LF:173:ALA:O	9:LF:177:ARG:HG3	2.13	0.47
10:LG:191:GLY:HA3	10:LG:196:ARG:O	2.15	0.47
13:LJ:40:LEU:CD1	13:LJ:48:PRO:HG3	2.43	0.47
14:LL:50:PRO:HA	14:LL:150:LEU:HB3	1.94	0.47
14:LL:112:ALA:HA	14:LL:115:GLN:CG	2.43	0.47
14:LL:125:ILE:HA	14:LL:138:ASP:OD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:LM:11:ARG:HH11	15:LM:61:ILE:HG22	1.78	0.47
31:Lc:79:ILE:HG12	31:Lc:90:ARG:CG	2.42	0.47
33:Le:85:LEU:HD11	33:Le:120:ILE:HG21	1.97	0.47
34:Lf:27:LEU:HB3	34:Lf:83:MET:CE	2.44	0.47
35:Lg:96:LEU:O	35:Lg:100:GLN:N	2.40	0.47
35:Lg:104:VAL:HA	35:Lg:107:LEU:HB3	1.96	0.47
36:Lh:95:LEU:HD12	36:Lh:95:LEU:N	2.29	0.47
40:Ll:13:LEU:C	40:Ll:13:LEU:HD12	2.39	0.47
43:Lo:74:GLU:CG	43:Lo:75:PRO:HD2	2.41	0.47
45:Lr:32:LEU:O	45:Lr:33:LYS:HB2	2.14	0.47
46:Lz:86:ASP:CG	46:Lz:87:ILE:N	2.72	0.47
47:S2:126:G:H4'	47:S2:215:G:H22	1.79	0.47
47:S2:158:A:N3	47:S2:158:A:H2'	2.29	0.47
47:S2:309:G:H2'	47:S2:310:C:C2	2.48	0.47
47:S2:691:G:H1'	53:SH:182:GLY:HA3	1.96	0.47
47:S2:785:C:C4'	70:SG:231:ARG:HG2	2.44	0.47
47:S2:846:G:H5"	47:S2:847:A:O5'	2.13	0.47
47:S2:878:G:O2'	47:S2:909:G:N1	2.46	0.47
47:S2:894:G:H8	47:S2:895:G:H5"	1.79	0.47
47:S2:945:U:H3'	47:S2:945:U:H6	1.79	0.47
47:S2:1046:U:H1'	74:SO:140:THR:HG21	1.94	0.47
47:S2:1079:C:C2'	47:S2:1080:A:H5'	2.43	0.47
47:S2:1142:G:OP1	69:SC:187:ARG:NH2	2.45	0.47
47:S2:1162:C:C2'	47:S2:1163:C:H5'	2.45	0.47
47:S2:1240:A:H61	47:S2:1516:G:C1'	2.24	0.47
47:S2:1261:C:O2'	47:S2:1262:C:H5'	2.14	0.47
47:S2:1265:A:H4'	47:S2:1327:G:OP2	2.14	0.47
47:S2:1453:C:C1'	47:S2:1455:A:H5'	2.44	0.47
48:SA:110:ASN:O	48:SA:112:ILE:HD12	2.14	0.47
49:SB:224:GLU:HB3	49:SB:227:LYS:CB	2.41	0.47
51:SE:95:THR:CG2	51:SE:97:GLU:HB2	2.44	0.47
51:SE:168:LYS:NZ	70:SG:208:GLU:OE2	2.39	0.47
54:SI:79:ILE:CG2	54:SI:80:ASP:H	2.27	0.47
58:SQ:24:HIS:ND1	58:SQ:26:LYS:HG2	2.29	0.47
61:ST:42:HIS:HD2	61:ST:93:SER:HB3	1.79	0.47
62:SU:19:ARG:O	62:SU:19:ARG:HG3	2.15	0.47
67:Sd:36:LEU:HG	67:Sd:38:MET:HG2	1.97	0.47
70:SG:137:ARG:HB3	70:SG:140:ARG:CG	2.43	0.47
71:SJ:86:VAL:HG11	71:SJ:105:PHE:CD1	2.49	0.47
76:SY:20:ARG:CB	76:SY:76:TYR:CD1	2.97	0.47
1:L5:282:C:H2'	1:L5:283:G:C5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:299:C:C2'	1:L5:300:A:H5'	2.44	0.47
1:L5:385:A:H1'	1:L5:386:A:H5"	1.95	0.47
1:L5:468:U:H3'	1:L5:469:C:C6	2.49	0.47
1:L5:1520:C:N4	1:L5:1521:C:H41	2.12	0.47
1:L5:1942:A:N6	1:L5:2039:G:H2'	2.29	0.47
1:L5:2040:A:H4'	1:L5:2041:A:O5'	2.15	0.47
1:L5:2344:U:H2'	29:La:9:ARG:HH12	1.80	0.47
1:L5:2614:C:C1'	1:L5:2726:G:H22	2.26	0.47
1:L5:2677:G:O2'	1:L5:2678:A:H5'	2.14	0.47
1:L5:2735:G:O2'	1:L5:2736:G:H5'	2.15	0.47
1:L5:3897:G:C2	1:L5:4559:A:C2	3.02	0.47
1:L5:4271:A:H2'	1:L5:4272:G:H5'	1.96	0.47
1:L5:4281:A:C2	1:L5:4283:G:C5	3.03	0.47
1:L5:4357:G:O2'	1:L5:4358:U:H5'	2.14	0.47
1:L5:4566:U:C4	1:L5:4567:G:N7	2.83	0.47
1:L5:4687:A:H2'	1:L5:4687:A:N3	2.27	0.47
1:L5:4884:G:OP2	8:LE:273:SER:OG	2.23	0.47
1:L5:5022:U:H2'	1:L5:5024:C:C4'	2.44	0.47
3:L8:8:U:O2'	3:L8:9:A:H5'	2.14	0.47
7:LD:94:ASN:O	7:LD:97:ALA:HB3	2.15	0.47
8:LE:178:PRO:HD2	8:LE:181:LEU:HD11	1.95	0.47
9:LF:53:LYS:O	9:LF:56:HIS:HB3	2.14	0.47
9:LF:147:LEU:C	9:LF:147:LEU:HD23	2.40	0.47
17:LO:80:PHE:CA	17:LO:83:THR:HG22	2.44	0.47
22:LT:74:ILE:CG2	22:LT:75:VAL:N	2.78	0.47
23:LU:26:THR:CA	23:LU:30:GLU:HG2	2.39	0.47
24:LV:17:SER:CB	24:LV:86:LYS:HZ2	2.26	0.47
29:La:9:ARG:HD3	29:La:9:ARG:HA	1.71	0.47
31:Lc:38:ILE:CG2	31:Lc:63:TYR:HB3	2.44	0.47
47:S2:203:G:N3	47:S2:203:G:H2'	2.29	0.47
47:S2:456:C:H2'	47:S2:457:C:C6	2.49	0.47
47:S2:537:C:H5'	47:S2:538:U:H5	1.79	0.47
47:S2:816:A:C2	47:S2:849:A:N3	2.83	0.47
47:S2:841:G:O2'	47:S2:842:C:H5	1.97	0.47
47:S2:1458:G:N2	47:S2:1468:C:O2	2.40	0.47
47:S2:1597:C:C2'	77:SZ:82:SER:HB2	2.44	0.47
47:S2:1608:U:C5'	60:SS:134:GLN:HE22	2.27	0.47
47:S2:1693:G:O2'	47:S2:1694:U:O5'	2.25	0.47
47:S2:1848:U:C6	47:S2:1849:G:H3'	2.50	0.47
49:SB:135:LEU:C	49:SB:135:LEU:HD12	2.39	0.47
51:SE:140:VAL:HG13	51:SE:145:ARG:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:SF:86:LYS:O	52:SF:86:LYS:HG2	2.14	0.47
54:SI:79:ILE:CG2	54:SI:80:ASP:N	2.76	0.47
58:SQ:9:SER:O	58:SQ:99:TYR:OH	2.28	0.47
59:SR:126:MET:HB3	59:SR:128:PHE:HE1	1.79	0.47
60:SS:102:GLY:CA	60:SS:105:ASN:HD22	2.17	0.47
62:SU:66:ARG:CZ	62:SU:75:LYS:HA	2.45	0.47
63:SV:51:LYS:HD3	63:SV:76:ASP:CG	2.39	0.47
68:Sg:30:MET:CG	68:Sg:71:ILE:HD13	2.43	0.47
68:Sg:42:MET:CB	68:Sg:56:GLN:HB3	2.40	0.47
68:Sg:143:GLN:CG	68:Sg:144:ASP:H	2.19	0.47
68:Sg:169:GLY:N	68:Sg:195:LEU:HD12	2.26	0.47
69:SC:198:ALA:HB2	69:SC:223:TYR:CE2	2.49	0.47
70:SG:34:THR:HG22	70:SG:35:GLU:N	2.29	0.47
70:SG:128:THR:CB	70:SG:130:PRO:HD3	2.42	0.47
74:SO:35:ALA:HB2	74:SO:112:ALA:CB	2.40	0.47
75:SW:55:ASP:O	75:SW:57:ARG:N	2.42	0.47
78:Sb:59:CYS:SG	78:Sb:61:THR:HG22	2.54	0.47
1:L5:518:G:N2	1:L5:519:C:H1'	2.30	0.47
1:L5:906:C:P	1:L5:906:C:H6	2.38	0.47
1:L5:1200:G:N3	1:L5:1200:G:C2'	2.73	0.47
1:L5:1214:C:H3'	1:L5:1215:C:C5'	2.44	0.47
1:L5:1376:C:O2'	1:L5:1377:G:H5'	2.13	0.47
1:L5:1671:U:H4'	30:Lb:8:THR:OG1	2.15	0.47
1:L5:1937:C:N3	1:L5:1938:C:C5	2.83	0.47
1:L5:1977:C:H5'	1:L5:1978:C:OP2	2.15	0.47
1:L5:2092:G:O2'	1:L5:2093:A:O4'	2.33	0.47
1:L5:2357:G:H2'	1:L5:2358:G:C8	2.48	0.47
1:L5:2601:A:O2'	1:L5:2602:G:H5'	2.14	0.47
1:L5:2606:G:H5'	1:L5:2607:C:OP1	2.14	0.47
1:L5:3969:G:H22	1:L5:4052:C:C2'	2.27	0.47
1:L5:4680:G:O2'	1:L5:4681:A:H5'	2.14	0.47
1:L5:4730:C:H5	1:L5:4734:A:N6	2.11	0.47
1:L5:4733:C:O2'	1:L5:4734:A:H5'	2.14	0.47
2:L7:18:C:OP1	13:LJ:154:LYS:NZ	2.47	0.47
2:L7:94:C:C6	2:L7:95:C:H5	2.31	0.47
3:L8:62:A:OP1	36:Lh:51:ARG:NH2	2.32	0.47
4:LA:7:GLY:HA2	4:LA:10:LYS:HE3	1.95	0.47
5:LB:29:VAL:HG13	5:LB:348:ARG:HD3	1.95	0.47
6:LC:32:ILE:HG12	6:LC:129:ALA:HB3	1.95	0.47
9:LF:28:LEU:HA	9:LF:31:LYS:HB3	1.97	0.47
9:LF:82:TYR:CD1	22:LT:140:PHE:CD1	2.99	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:241:ASN:CA	9:LF:244:ILE:HG22	2.45	0.47
11:LH:168:LYS:O	11:LH:169:ASN:HB2	2.15	0.47
12:LI:3:ARG:HG2	12:LI:4:ARG:O	2.15	0.47
13:LJ:144:LYS:HG3	13:LJ:146:ARG:O	2.14	0.47
14:LL:192:PHE:CD1	14:LL:195:ARG:HD2	2.49	0.47
15:LM:47:ARG:HD2	15:LM:70:GLN:CG	2.45	0.47
22:LT:25:VAL:HG13	22:LT:26:PRO:HD2	1.96	0.47
23:LU:20:LYS:HA	23:LU:72:VAL:O	2.14	0.47
26:LX:38:LYS:O	26:LX:39:LYS:HB2	2.14	0.47
29:La:69:PHE:CE2	29:La:71:PRO:HD3	2.49	0.47
46:Lz:37:SER:HB2	46:Lz:205:TYR:HE2	1.78	0.47
46:Lz:130:LYS:O	46:Lz:130:LYS:HG3	2.15	0.47
47:S2:440:G:N2	47:S2:454:U:C2	2.82	0.47
47:S2:670:A:O2'	47:S2:1163:C:O2'	2.33	0.47
47:S2:795:A:H2'	47:S2:796:G:H3'	1.97	0.47
47:S2:1031:A:C6	47:S2:1032:C:N3	2.83	0.47
47:S2:1149:A:N6	47:S2:1151:G:H1'	2.29	0.47
47:S2:1335:G:C2'	47:S2:1336:C:H5'	2.44	0.47
47:S2:1339:U:H5'	62:SU:74:SER:OG	2.15	0.47
47:S2:1449:G:H1'	47:S2:1450:G:H5"	1.97	0.47
47:S2:1520:G:OP2	47:S2:1521:C:H5	1.97	0.47
47:S2:1524:G:N1	47:S2:1525:C:N3	2.63	0.47
47:S2:1545:A:H4'	58:SQ:75:GLY:C	2.39	0.47
47:S2:1737:G:H2'	47:S2:1738:C:O4'	2.14	0.47
47:S2:1756:C:C2	47:S2:1757:G:H1'	2.49	0.47
50:SD:167:TYR:O	50:SD:190:LEU:HB2	2.13	0.47
51:SE:137:PRO:HB2	51:SE:150:PRO:CD	2.43	0.47
51:SE:255:ARG:O	51:SE:259:LYS:HG3	2.14	0.47
52:SF:54:GLY:HA3	58:SQ:125:ARG:HH12	1.80	0.47
53:SH:51:ILE:HG23	53:SH:179:LYS:NZ	2.28	0.47
53:SH:53:VAL:HG22	53:SH:55:GLY:H	1.78	0.47
55:SK:76:ILE:HG13	55:SK:77:GLN:N	2.29	0.47
58:SQ:132:PHE:CG	62:SU:77:TRP:HB2	2.50	0.47
59:SR:99:ASP:OD1	59:SR:102:THR:HG22	2.15	0.47
65:Sa:58:VAL:HG23	74:SO:126:ILE:C	2.40	0.47
66:Sc:35:MET:HE1	66:Sc:55:VAL:HG13	1.95	0.47
69:SC:196:ILE:HG13	69:SC:197:PRO:CD	2.44	0.47
70:SG:5:ILE:HD11	70:SG:111:LEU:HD22	1.96	0.47
70:SG:219:GLU:C	70:SG:223:LYS:H	2.19	0.47
70:SG:220:ALA:CB	70:SG:223:LYS:HE2	2.44	0.47
71:SJ:91:LYS:HD3	71:SJ:96:TYR:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:SM:49:LEU:HD22	72:SM:128:PHE:HB2	1.95	0.47
75:SW:30:CYS:HB3	75:SW:61:ILE:HG13	1.96	0.47
75:SW:32:LYS:HA	75:SW:35:VAL:CG2	2.44	0.47
78:Sb:35:VAL:CG2	78:Sb:77:CYS:HB3	2.45	0.47
1:L5:323:C:C2'	1:L5:324:A:H5'	2.45	0.47
1:L5:685:C:H4'	8:LE:98:GLY:O	2.15	0.47
1:L5:1244:G:C1'	1:L5:2111:G:H22	2.28	0.47
1:L5:1251:C:C1'	1:L5:1259:G:H1	2.25	0.47
1:L5:1666:C:N4	1:L5:1667:G:C6	2.83	0.47
1:L5:1903:G:C2'	1:L5:1904:G:H5'	2.45	0.47
1:L5:2602:G:H2'	1:L5:2603:C:H6	1.79	0.47
1:L5:3731:C:O2'	1:L5:3732:A:H5'	2.13	0.47
1:L5:3781:C:O2'	1:L5:3782:C:H5'	2.14	0.47
1:L5:3928:A:H2'	1:L5:3929:G:O4'	2.14	0.47
1:L5:4078:C:H2'	1:L5:4079:C:H6	1.80	0.47
1:L5:4244:A:N6	1:L5:4264:G:H21	2.13	0.47
1:L5:4626:A:H4'	5:LB:53:MET:HG3	1.96	0.47
1:L5:4647:G:N2	1:L5:4648:A:H1'	2.29	0.47
1:L5:4739:C:H2'	1:L5:4740:G:C4'	2.44	0.47
1:L5:4863:G:N7	1:L5:4864:U:C2	2.82	0.47
1:L5:4939:C:H2'	1:L5:4939:C:O2	2.14	0.47
1:L5:4974:C:H4'	5:LB:174:ARG:HH12	1.78	0.47
2:L7:6:C:P	7:LD:54:ARG:HE	2.32	0.47
5:LB:321:VAL:C	5:LB:323:TYR:H	2.18	0.47
7:LD:28:THR:OG1	7:LD:29:ASP:N	2.47	0.47
7:LD:49:TYR:CE1	7:LD:66:TYR:CD1	3.03	0.47
8:LE:50:LEU:CD2	8:LE:56:ARG:HA	2.44	0.47
12:LI:19:LYS:HE2	12:LI:24:ARG:HA	1.97	0.47
12:LI:169:LYS:O	12:LI:178:ALA:HB2	2.14	0.47
14:LL:168:VAL:HG12	29:La:96:GLY:O	2.15	0.47
16:LN:16:SER:OG	37:Li:48:CYS:HB2	2.14	0.47
16:LN:92:LEU:C	16:LN:93:LYS:HD2	2.40	0.47
19:LQ:95:VAL:HA	19:LQ:96:PRO:HD2	1.77	0.47
20:LR:109:TYR:HA	20:LR:112:SER:OG	2.14	0.47
28:LZ:14:LEU:HD23	35:Lg:92:LYS:HE3	1.95	0.47
32:Ld:57:MET:SD	32:Ld:90:ARG:HB2	2.55	0.47
33:Le:44:ARG:HB2	33:Le:49:PHE:CD2	2.49	0.47
35:Lg:37:LYS:HD2	35:Lg:60:ARG:NH1	2.28	0.47
45:Lr:53:PRO:CB	45:Lr:117:ILE:HD11	2.45	0.47
47:S2:114:G:O2'	47:S2:383:G:H5'	2.15	0.47
47:S2:122:G:C2	47:S2:343:A:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:307:G:H3'	47:S2:308:G:C5'	2.43	0.47
47:S2:491:C:H1'	47:S2:574:A:C6	2.50	0.47
47:S2:798:A:H5'	47:S2:800:U:P	2.55	0.47
47:S2:873:G:H21	47:S2:874:G:H1'	1.78	0.47
47:S2:894:G:H3'	47:S2:895:G:C5'	2.44	0.47
47:S2:938:A:H2'	47:S2:939:U:O4'	2.15	0.47
47:S2:1024:A:H2'	47:S2:1025:U:O4'	2.15	0.47
47:S2:1219:C:H4'	66:Sc:24:GLN:OE1	2.13	0.47
47:S2:1229:G:N7	47:S2:1230:C:C4	2.81	0.47
47:S2:1461:G:N2	47:S2:1464:C:H5"	2.30	0.47
47:S2:1479:G:N2	47:S2:1480:A:H1'	2.29	0.47
47:S2:1522:A:N3	60:SS:145:THR:OG1	2.45	0.47
47:S2:1630:A:O2'	47:S2:1631:U:H5'	2.14	0.47
47:S2:1715:A:C2	47:S2:1819:A:C2	3.03	0.47
48:SA:26:GLY:O	48:SA:47:TYR:HB2	2.14	0.47
48:SA:63:ARG:HB2	48:SA:185:MET:HE1	1.96	0.47
48:SA:125:THR:O	48:SA:147:LEU:N	2.42	0.47
49:SB:71:LEU:O	49:SB:71:LEU:HD23	2.15	0.47
50:SD:13:ALA:O	50:SD:16:ILE:N	2.46	0.47
50:SD:48:ILE:O	50:SD:86:LEU:HB2	2.14	0.47
50:SD:108:LYS:HD3	50:SD:118:ALA:CB	2.44	0.47
51:SE:11:ARG:NH1	51:SE:21:ASP:O	2.47	0.47
52:SF:157:GLY:O	52:SF:161:ALA:HB3	2.15	0.47
52:SF:187:SER:CB	52:SF:190:ILE:HG22	2.39	0.47
61:ST:18:LEU:CG	61:ST:134:ILE:HD11	2.23	0.47
69:SC:131:GLY:N	69:SC:216:MET:HE3	2.30	0.47
72:SM:18:LEU:O	72:SM:22:LEU:HD13	2.15	0.47
73:SN:89:TYR:OH	73:SN:150:VAL:HG13	2.15	0.47
76:SY:10:ARG:HH21	76:SY:70:THR:HG21	1.79	0.47
1:L5:80:C:O2'	1:L5:81:C:H5'	2.15	0.47
1:L5:143:C:H5"	1:L5:144:G:C5'	2.44	0.47
1:L5:255:C:N3	1:L5:256:G:C5	2.82	0.47
1:L5:388:A:N3	1:L5:388:A:H2'	2.30	0.47
1:L5:495:C:H2'	1:L5:496:G:O4'	2.15	0.47
1:L5:499:G:H3'	1:L5:500:G:C5'	2.42	0.47
1:L5:644:G:N1	1:L5:645:G:N3	2.62	0.47
1:L5:722:G:H2'	1:L5:723:A:H8	1.79	0.47
1:L5:924:C:H2'	1:L5:925:C:C6	2.49	0.47
1:L5:1074:G:C6	1:L5:1238:A:N1	2.82	0.47
1:L5:1095:A:N6	1:L5:1199:G:H1	2.13	0.47
1:L5:1202:C:N3	1:L5:1203:G:O2'	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1244:G:H22	1:L5:1246:G:C1'	2.28	0.47
1:L5:1280:C:H3'	1:L5:1281:G:C5'	2.37	0.47
1:L5:1327:C:O5'	1:L5:1327:C:H6	1.97	0.47
1:L5:1494:U:O2'	1:L5:4296:U:O2'	2.15	0.47
1:L5:1502:G:O2'	1:L5:1503:A:O5'	2.30	0.47
1:L5:1590:C:H5"	1:L5:1591:U:O5'	2.14	0.47
1:L5:1617:G:C2	1:L5:1618:G:C4	3.02	0.47
1:L5:1764:G:H1'	1:L5:1769:G:C2	2.48	0.47
1:L5:2082:G:N2	1:L5:2275:G:C4	2.83	0.47
1:L5:2091:C:H5'	1:L5:2259:G:N7	2.28	0.47
1:L5:2095:A:H2'	1:L5:2095:A:N3	2.30	0.47
1:L5:2355:G:O2'	1:L5:2356:U:H5'	2.14	0.47
1:L5:2668:G:C2'	1:L5:2669:C:H5'	2.45	0.47
1:L5:2725:A:H8	1:L5:2725:A:O5'	1.98	0.47
1:L5:2741:U:H2'	4:LA:50:HIS:HD2	1.80	0.47
1:L5:2764:A:O2'	1:L5:2765:A:H5'	2.15	0.47
1:L5:2817:C:H3'	1:L5:2817:C:C6	2.49	0.47
1:L5:2823:G:C2'	1:L5:2824:C:H5'	2.44	0.47
1:L5:2862:G:H2'	1:L5:3619:G:O6	2.15	0.47
1:L5:2872:C:C4	1:L5:2873:U:C2	3.03	0.47
1:L5:2884:G:N2	1:L5:2885:A:H1'	2.29	0.47
1:L5:3686:G:C4	1:L5:3687:A:N7	2.83	0.47
1:L5:3728:A:H3'	1:L5:3729:U:O4'	2.15	0.47
1:L5:4083:U:H3'	1:L5:4083:U:O2	2.15	0.47
1:L5:4248:A:H4'	13:LJ:101:ASP:OD2	2.15	0.47
1:L5:4370:G:C4	81:L5:5101:3HE:C14	2.97	0.47
1:L5:4383:U:O2'	1:L5:4384:U:H5'	2.15	0.47
1:L5:4615:C:O2'	1:L5:4616:A:H5'	2.15	0.47
1:L5:4628:U:C5	1:L5:4629:U:H5	2.33	0.47
1:L5:4654:C:O2'	1:L5:4655:A:H5'	2.15	0.47
1:L5:4654:C:P	32:Ld:78:ARG:HE	2.38	0.47
1:L5:4659:G:H2'	1:L5:4660:G:H8	1.80	0.47
1:L5:4872:G:H4'	1:L5:4873:G:OP2	2.15	0.47
2:L7:31:G:H22	2:L7:34:C:H42	1.61	0.47
3:L8:113:C:H2'	3:L8:113:C:O2	2.14	0.47
5:LB:46:PHE:O	5:LB:347:LEU:N	2.48	0.47
5:LB:94:GLU:HB3	5:LB:99:LEU:CD2	2.44	0.47
5:LB:216:MET:CE	5:LB:281:ASN:HB3	2.45	0.47
6:LC:22:VAL:HG22	6:LC:258:ARG:HH21	1.80	0.47
6:LC:84:THR:HG23	6:LC:86:ARG:HB3	1.96	0.47
6:LC:318:PRO:O	6:LC:319:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LD:82:GLU:O	7:LD:85:LYS:HB3	2.15	0.47
9:LF:67:THR:O	9:LF:71:MET:HG2	2.15	0.47
10:LG:47:PRO:HG2	10:LG:49:ARG:NH2	2.27	0.47
10:LG:150:LYS:HE3	10:LG:177:MET:SD	2.55	0.47
10:LG:263:THR:HG21	49:SB:225:LEU:HB3	1.95	0.47
12:LI:46:PHE:HA	12:LI:140:THR:O	2.15	0.47
12:LI:55:ASP:C	12:LI:131:ILE:HG23	2.40	0.47
12:LI:190:LEU:O	12:LI:190:LEU:HD12	2.15	0.47
13:LJ:20:LEU:HD23	13:LJ:20:LEU:O	2.14	0.47
13:LJ:109:ILE:CG2	13:LJ:128:LEU:HG	2.45	0.47
14:LL:178:ALA:HB1	29:La:146:LEU:HD11	1.95	0.47
15:LM:81:ASP:O	15:LM:85:LYS:NZ	2.36	0.47
15:LM:86:TRP:O	15:LM:87:ALA:HB3	2.14	0.47
16:LN:47:LYS:CD	16:LN:50:ARG:HH11	2.28	0.47
18:LP:106:GLY:O	18:LP:107:LEU:HD23	2.14	0.47
20:LR:9:ARG:O	20:LR:12:SER:OG	2.14	0.47
20:LR:69:ALA:HB1	20:LR:74:ARG:CB	2.44	0.47
20:LR:133:LYS:O	20:LR:133:LYS:HG3	2.15	0.47
20:LR:158:GLN:O	20:LR:162:ARG:HG2	2.15	0.47
20:LR:172:ARG:HG3	20:LR:176:ARG:NH2	2.30	0.47
20:LR:184:ILE:HG23	20:LR:188:LEU:O	2.14	0.47
21:LS:17:LEU:O	21:LS:17:LEU:HD12	2.13	0.47
21:LS:155:PRO:HB2	21:LS:156:HIS:H	1.54	0.47
23:LU:26:THR:HA	23:LU:30:GLU:CG	2.42	0.47
23:LU:29:VAL:HG11	23:LU:36:ALA:H	1.80	0.47
24:LV:26:ILE:O	24:LV:37:LEU:N	2.46	0.47
25:LW:55:TYR:CE1	25:LW:59:HIS:CD2	3.03	0.47
25:LW:101:ARG:HD3	25:LW:105:ARG:HD3	1.96	0.47
27:LY:34:LEU:HD22	27:LY:44:VAL:O	2.15	0.47
29:La:22:ILE:O	29:La:24:LYS:N	2.48	0.47
32:Ld:86:VAL:O	32:Ld:86:VAL:HG13	2.14	0.47
34:Lf:10:ILE:HD11	34:Lf:98:GLY:O	2.14	0.47
34:Lf:11:PHE:CD2	34:Lf:97:ILE:HD12	2.49	0.47
34:Lf:18:LEU:HD23	34:Lf:19:ARG:NH1	2.30	0.47
36:Lh:101:ASN:OD1	36:Lh:102:LEU:N	2.47	0.47
37:Li:11:LEU:O	37:Li:11:LEU:HD23	2.15	0.47
37:Li:86:LYS:O	37:Li:90:LEU:N	2.39	0.47
41:Lm:85:LEU:HD11	41:Lm:89:TYR:HE2	1.80	0.47
43:Lo:97:LYS:HD2	43:Lo:99:ARG:HE	1.80	0.47
45:Lr:61:VAL:HG13	45:Lr:80:THR:O	2.14	0.47
46:Lz:35:GLN:O	46:Lz:35:GLN:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:63:PHE:HB3	46:Lz:109:ALA:N	2.21	0.47
47:S2:67:C:H5'	70:SG:162:LEU:CD2	2.45	0.47
47:S2:144:U:H2'	47:S2:145:G:H8	1.78	0.47
47:S2:206:G:N3	47:S2:206:G:H2'	2.29	0.47
47:S2:292:A:H5'	56:SL:41:GLY:HA3	1.96	0.47
47:S2:326:C:H1'	47:S2:327:G:C5	2.49	0.47
47:S2:398:A:C3'	47:S2:399:C:H5'	2.43	0.47
47:S2:537:C:N4	47:S2:545:A:H1'	2.30	0.47
47:S2:789:G:H2'	47:S2:790:C:O4'	2.14	0.47
47:S2:804:U:OP1	75:SW:80:ASP:HB2	2.14	0.47
47:S2:874:G:H4'	53:SH:111:LYS:NZ	2.29	0.47
47:S2:902:G:H2'	47:S2:903:A:H4'	1.97	0.47
47:S2:1038:U:H2'	47:S2:1039:C:C5'	2.45	0.47
47:S2:1129:G:H5"	78:Sb:22:LYS:HZ2	1.79	0.47
47:S2:1143:A:N6	47:S2:1144:A:N1	2.63	0.47
47:S2:1226:G:H1'	47:S2:1640:A:H61	1.78	0.47
47:S2:1285:G:O3'	80:Sf:102:VAL:HG11	2.14	0.47
47:S2:1317:C:C3'	47:S2:1318:G:H5"	2.45	0.47
47:S2:1358:U:P	69:SC:123:ARG:HH11	2.38	0.47
47:S2:1391:C:H4'	67:Sd:56:ASP:HB2	1.94	0.47
47:S2:1578:U:H4'	47:S2:1579:A:C8	2.50	0.47
47:S2:1618:C:H3'	47:S2:1619:A:C8	2.44	0.47
47:S2:1676:U:OP1	52:SF:74:ASN:ND2	2.48	0.47
47:S2:1718:G:H5"	47:S2:1719:A:OP1	2.15	0.47
47:S2:1785:C:O2'	47:S2:1786:U:H6	1.97	0.47
47:S2:1833:C:C5	47:S2:1836:G:C4	3.03	0.47
47:S2:1860:A:H1'	47:S2:1861:G:OP2	2.15	0.47
47:S2:1867:U:O2	65:Sa:38:LYS:NZ	2.47	0.47
48:SA:16:LEU:HD23	59:SR:93:GLN:HB2	1.96	0.47
48:SA:107:THR:O	48:SA:116:PHE:HA	2.14	0.47
48:SA:111:GLN:HE21	48:SA:112:ILE:CD1	2.21	0.47
48:SA:111:GLN:CB	69:SC:89:LYS:HZ1	2.28	0.47
48:SA:203:PHE:HB2	48:SA:205:ARG:HH12	1.78	0.47
50:SD:56:GLN:OE1	50:SD:59:LEU:HB2	2.14	0.47
50:SD:162:ASP:N	50:SD:163:PRO:HD2	2.30	0.47
52:SF:22:LYS:HE2	52:SF:23:TRP:CD1	2.50	0.47
53:SH:138:GLU:OE1	73:SN:19:ARG:HB2	2.15	0.47
54:SI:87:ASN:OD1	54:SI:88:ASN:N	2.47	0.47
55:SK:14:LEU:HD11	55:SK:34:GLU:HB3	1.97	0.47
58:SQ:43:GLU:HA	58:SQ:48:GLN:OE1	2.15	0.47
58:SQ:53:GLU:HB2	58:SQ:54:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:88:ILE:O	58:SQ:92:LEU:N	2.41	0.47
58:SQ:92:LEU:HD21	58:SQ:96:TYR:CE2	2.50	0.47
58:SQ:95:TYR:CE1	58:SQ:99:TYR:HD2	2.33	0.47
58:SQ:104:SER:O	58:SQ:108:ILE:HG22	2.15	0.47
59:SR:27:ASP:OD2	59:SR:30:THR:N	2.36	0.47
59:SR:103:LYS:O	59:SR:106:LEU:HG	2.15	0.47
60:SS:30:ILE:O	60:SS:33:ILE:HB	2.15	0.47
62:SU:108:PRO:HG2	62:SU:110:VAL:CG1	2.45	0.47
63:SV:60:ARG:HA	63:SV:65:SER:OG	2.14	0.47
63:SV:70:LEU:HD11	63:SV:83:PHE:HE2	1.72	0.47
66:Sc:42:ILE:HG13	66:Sc:43:ILE:N	2.30	0.47
67:Sd:24:CYS:O	67:Sd:26:ASN:N	2.40	0.47
67:Sd:30:LEU:HD12	67:Sd:30:LEU:O	2.14	0.47
68:Sg:3:GLU:HB3	68:Sg:267:VAL:CG2	2.44	0.47
68:Sg:43:TRP:CD1	68:Sg:55:PRO:HA	2.49	0.47
68:Sg:89:LEU:HD23	68:Sg:98:THR:HB	1.96	0.47
68:Sg:126:ASP:O	68:Sg:128:THR:HG23	2.15	0.47
69:SC:206:SER:HB2	69:SC:224:THR:CG2	2.45	0.47
70:SG:5:ILE:HG12	70:SG:111:LEU:CG	2.45	0.47
70:SG:67:VAL:HG11	70:SG:99:GLY:HA2	1.96	0.47
71:SJ:86:VAL:HG13	71:SJ:108:ARG:HG3	1.95	0.47
71:SJ:109:ARG:HH21	71:SJ:145:PRO:C	2.21	0.47
72:SM:24:THR:CG2	72:SM:116:LYS:H	2.25	0.47
73:SN:89:TYR:CZ	73:SN:150:VAL:HG13	2.49	0.47
73:SN:149:LEU:CD2	73:SN:150:VAL:HG23	2.45	0.47
74:SO:14:VAL:H	74:SO:15:ILE:CA	2.27	0.47
76:SY:7:ILE:HG23	76:SY:44:LEU:CD1	2.36	0.47
76:SY:83:LYS:HA	76:SY:86:GLU:OE2	2.14	0.47
77:SZ:64:ASN:O	77:SZ:111:ARG:NE	2.47	0.47
1:L5:41:C:N4	1:L5:91:G:H1	2.10	0.47
1:L5:75:G:O2'	14:LL:101:ARG:HD2	2.15	0.47
1:L5:91:G:H8	1:L5:91:G:H3'	1.80	0.47
1:L5:227:A:N6	1:L5:241:G:O2'	2.45	0.47
1:L5:234:G:N2	1:L5:2332:A:O2'	2.47	0.47
1:L5:318:A:O2'	1:L5:319:A:H5'	2.14	0.47
1:L5:460:C:H2'	1:L5:461:G:H8	1.78	0.47
1:L5:495:C:O2'	1:L5:496:G:H5'	2.14	0.47
1:L5:515:C:N4	1:L5:647:G:H21	2.12	0.47
1:L5:517:C:N4	1:L5:646:G:H1'	2.30	0.47
1:L5:744:G:O6	1:L5:916:C:H5'	2.15	0.47
1:L5:987:C:H2'	1:L5:988:C:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1088:C:C2	1:L5:1089:G:C8	3.03	0.47
1:L5:1336:G:C5	1:L5:2346:C:C4	3.03	0.47
1:L5:1464:C:OP1	30:Lb:32:LEU:HB2	2.14	0.47
1:L5:1466:G:N2	1:L5:1467:C:C2	2.83	0.47
1:L5:1525:A:N3	1:L5:1525:A:H2'	2.29	0.47
1:L5:1613:A:C2	4:LA:196:TRP:CH2	3.03	0.47
1:L5:1624:G:O6	1:L5:1643:A:H1'	2.15	0.47
1:L5:1805:A:C4'	30:Lb:28:ARG:HD2	2.44	0.47
1:L5:1945:G:N2	1:L5:1946:G:N3	2.62	0.47
1:L5:1970:A:H4'	1:L5:2000:G:O6	2.14	0.47
1:L5:2290:C:O2'	1:L5:2291:G:H5'	2.15	0.47
1:L5:2334:C:O2'	1:L5:2335:C:O5'	2.31	0.47
1:L5:2346:C:O2'	1:L5:2347:A:H3'	2.15	0.47
1:L5:2417:A:H2'	1:L5:2417:A:N3	2.29	0.47
1:L5:2543:A:C2'	1:L5:2546:G:H21	2.28	0.47
1:L5:2594:C:H2'	1:L5:2595:C:H6	1.80	0.47
1:L5:2600:A:H5'	1:L5:2601:A:C2	2.50	0.47
1:L5:2769:U:H4'	1:L5:2770:C:H5"	1.96	0.47
1:L5:2805:C:C5	1:L5:2806:A:C5	3.03	0.47
1:L5:3893:C:OP1	18:LP:66:GLY:N	2.33	0.47
1:L5:3916:G:H2'	1:L5:3917:A:O4'	2.15	0.47
1:L5:4076:G:O2'	1:L5:4170:A:N6	2.48	0.47
1:L5:4268:A:O2'	1:L5:4269:G:H5'	2.15	0.47
1:L5:4399:U:O2'	1:L5:4400:G:H5'	2.14	0.47
1:L5:4690:G:C2	1:L5:4699:U:H5	2.32	0.47
1:L5:4740:G:N3	1:L5:4740:G:H2'	2.29	0.47
3:L8:70:G:H1'	3:L8:71:A:N7	2.29	0.47
5:LB:141:ASP:O	5:LB:144:LYS:HB2	2.14	0.47
6:LC:204:ARG:HG2	6:LC:205:ARG:O	2.15	0.47
6:LC:221:PHE:HB2	6:LC:229:LEU:HD21	1.97	0.47
6:LC:272:SER:C	6:LC:273:LEU:HD12	2.40	0.47
8:LE:242:ILE:HG22	8:LE:243:THR:N	2.29	0.47
10:LG:91:THR:HA	10:LG:94:GLN:HB3	1.96	0.47
11:LH:60:TRP:CE3	21:LS:153:PRO:HD2	2.50	0.47
14:LL:150:LEU:HD12	36:Lh:121:VAL:O	2.14	0.47
15:LM:8:GLU:H	15:LM:11:ARG:CG	2.26	0.47
16:LN:62:TYR:CD2	16:LN:134:LEU:HD11	2.50	0.47
18:LP:113:VAL:HG11	18:LP:153:LYS:HE3	1.97	0.47
21:LS:44:PHE:CZ	21:LS:48:VAL:HG21	2.50	0.47
21:LS:137:CYS:C	21:LS:143:LYS:HZ1	2.23	0.47
26:LX:39:LYS:O	26:LX:40:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LX:100:VAL:CG1	26:LX:101:ASP:N	2.76	0.47
27:LY:77:LYS:O	27:LY:77:LYS:HG2	2.15	0.47
36:Lh:21:LEU:HD12	36:Lh:57:VAL:HG11	1.96	0.47
39:Lk:7:GLU:H	39:Lk:7:GLU:CD	2.18	0.47
43:Lo:12:CYS:SG	43:Lo:72:CYS:HB3	2.55	0.47
44:Lp:46:LYS:HD2	44:Lp:59:SER:CA	2.44	0.47
46:Lz:147:LYS:NZ	46:Lz:150:GLU:OE1	2.31	0.47
47:S2:24:C:O2'	47:S2:25:A:O5'	2.32	0.47
47:S2:330:G:N7	70:SG:189:ARG:NH1	2.63	0.47
47:S2:376:A:H2'	47:S2:377:G:O4'	2.14	0.47
47:S2:749:U:C5	47:S2:794:A:H2	2.32	0.47
47:S2:821:G:N2	71:SJ:150:ARG:HG3	2.30	0.47
47:S2:829:C:OP1	51:SE:22:LYS:N	2.47	0.47
47:S2:903:A:H3'	47:S2:903:A:N3	2.29	0.47
47:S2:925:G:N3	47:S2:926:A:C8	2.83	0.47
47:S2:1003:U:H5"	49:SB:165:ARG:NH2	2.30	0.47
47:S2:1073:U:H2'	47:S2:1074:C:C6	2.42	0.47
47:S2:1532:C:O2'	47:S2:1635:C:O2	2.21	0.47
48:SA:67:ALA:CA	63:SV:47:ASN:HD21	2.21	0.47
48:SA:123:VAL:HG23	48:SA:123:VAL:O	2.15	0.47
49:SB:69:VAL:O	49:SB:69:VAL:HG13	2.14	0.47
53:SH:8:ILE:CG2	53:SH:28:LEU:HD12	2.40	0.47
53:SH:10:LYS:NZ	53:SH:20:GLU:HB2	2.29	0.47
53:SH:182:GLY:C	53:SH:183:LYS:HG3	2.40	0.47
54:SI:141:ARG:HB3	54:SI:145:ILE:HG12	1.97	0.47
54:SI:149:TYR:CE1	54:SI:152:ARG:HD2	2.50	0.47
55:SK:9:ILE:HA	55:SK:12:TYR:HD2	1.80	0.47
55:SK:48:ALA:O	55:SK:51:SER:HB2	2.14	0.47
62:SU:26:SER:OG	62:SU:110:VAL:HG12	2.15	0.47
64:SX:66:ILE:HG22	64:SX:66:ILE:O	2.14	0.47
68:Sg:237:ASN:OD1	68:Sg:253:GLY:N	2.39	0.47
71:SJ:65:GLU:HG2	71:SJ:66:LYS:HG2	1.97	0.47
73:SN:89:TYR:CE1	73:SN:150:VAL:HG22	2.50	0.47
1:L5:375:G:N7	38:Lj:56:ARG:NH1	2.63	0.47
1:L5:500:G:N3	1:L5:500:G:C2'	2.78	0.47
1:L5:515:C:N4	1:L5:646:G:H22	2.13	0.47
1:L5:1240:G:H5"	1:L5:1272:C:OP2	2.14	0.47
1:L5:1240:G:H5'	1:L5:1271:G:O2'	2.14	0.47
1:L5:1506:G:C6	1:L5:1507:C:C4	3.03	0.47
1:L5:1600:A:H1'	18:LP:133:HIS:HD2	1.80	0.47
1:L5:1639:U:O2	1:L5:1644:C:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1868:A:N6	1:L5:1870:C:O2	2.47	0.47
1:L5:1876:U:O3'	9:LF:103:PRO:HD3	2.15	0.47
1:L5:2113:G:H22	1:L5:2115:G:H5'	1.75	0.47
1:L5:2257:C:H4'	1:L5:2258:C:O5'	2.13	0.47
1:L5:2551:A:C6	1:L5:2552:G:C5	3.03	0.47
1:L5:2570:U:H2'	1:L5:2571:C:C1'	2.45	0.47
1:L5:2596:G:C2	1:L5:2750:G:C2	3.03	0.47
1:L5:2660:A:H1'	1:L5:2661:U:H5"	1.96	0.47
1:L5:3606:U:H2'	1:L5:3607:U:C6	2.50	0.47
1:L5:3690:U:O2'	1:L5:3691:G:H5'	2.14	0.47
1:L5:3802:U:H3'	1:L5:4497:U:O2'	2.15	0.47
1:L5:4099:G:H3'	1:L5:4099:G:H8	1.80	0.47
1:L5:4584:A:C5	1:L5:4585:U:C2	3.02	0.47
1:L5:4649:G:C2'	1:L5:4650:G:H5'	2.45	0.47
1:L5:4864:U:H2'	1:L5:4865:C:C5	2.49	0.47
1:L5:4889:G:C2	1:L5:4931:G:C6	3.02	0.47
1:L5:4912:G:H5'	1:L5:4913:G:O4'	2.15	0.47
1:L5:4924:C:H6	1:L5:4924:C:H3'	1.80	0.47
5:LB:86:VAL:HG13	5:LB:163:ILE:O	2.15	0.47
6:LC:24:LEU:HD12	6:LC:25:PRO:CD	2.30	0.47
6:LC:262:GLU:O	6:LC:273:LEU:HD22	2.15	0.47
6:LC:267:TRP:CZ2	6:LC:279:LEU:HD22	2.49	0.47
6:LC:350:ARG:O	6:LC:354:ALA:N	2.47	0.47
7:LD:112:ARG:O	7:LD:113:PHE:HB2	2.15	0.47
8:LE:254:ASP:CA	8:LE:257:ILE:HG22	2.36	0.47
11:LH:107:GLU:HG2	11:LH:108:ASN:OD1	2.15	0.47
12:LI:32:ARG:HG3	12:LI:33:ILE:HG12	1.97	0.47
15:LM:131:GLN:O	15:LM:134:ALA:HB3	2.15	0.47
17:LO:16:LEU:H	17:LO:43:ILE:HG22	1.80	0.47
19:LQ:47:VAL:HG22	19:LQ:47:VAL:O	2.15	0.47
19:LQ:84:GLY:H	19:LQ:103:LEU:HD13	1.79	0.47
28:LZ:9:LYS:HG2	28:LZ:10:VAL:O	2.15	0.47
28:LZ:13:VAL:C	28:LZ:14:LEU:HD12	2.40	0.47
28:LZ:14:LEU:CD2	35:Lg:92:LYS:HE3	2.45	0.47
37:Li:53:TYR:HB2	37:Li:76:ARG:HD2	1.97	0.47
40:Ll:27:ILE:CD1	40:Ll:30:LYS:HD3	2.42	0.47
47:S2:201:C:H5"	47:S2:202:G:C8	2.50	0.47
47:S2:420:G:H2'	47:S2:420:G:N3	2.29	0.47
47:S2:460:A:O2'	47:S2:461:U:H5'	2.14	0.47
47:S2:475:C:H1'	47:S2:507:G:H1'	1.97	0.47
47:S2:818:A:H2'	47:S2:819:G:H5"	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:983:A:N6	47:S2:984:C:N3	2.63	0.47
47:S2:1175:G:C2	47:S2:1176:G:N9	2.83	0.47
47:S2:1466:G:H2'	47:S2:1467:C:C6	2.50	0.47
47:S2:1493:C:C4'	47:S2:1494:U:H5"	2.38	0.47
47:S2:1504:U:H2'	47:S2:1505:U:O4'	2.15	0.47
47:S2:1664:A:H2'	47:S2:1665:G:H5"	1.94	0.47
47:S2:1672:U:H5'	58:SQ:76:GLY:HA3	1.96	0.47
47:S2:1672:U:H4'	58:SQ:76:GLY:HA2	1.97	0.47
47:S2:1743:G:N2	47:S2:1792:G:C4	2.83	0.47
50:SD:185:LYS:CG	50:SD:187:LYS:HG3	2.45	0.47
52:SF:66:CYS:HB2	52:SF:67:PRO:HD2	1.97	0.47
53:SH:49:LYS:O	53:SH:61:ILE:N	2.31	0.47
53:SH:170:VAL:CG2	53:SH:187:PHE:HB2	2.45	0.47
57:SP:94:VAL:HB	57:SP:96:VAL:CG2	2.43	0.47
61:ST:70:ALA:HB1	61:ST:74:SER:HB3	1.94	0.47
63:SV:39:VAL:HG12	63:SV:45:ARG:O	2.14	0.47
63:SV:70:LEU:HD21	63:SV:83:PHE:CD2	2.50	0.47
68:Sg:140:TYR:CZ	68:Sg:142:VAL:HG13	2.49	0.47
68:Sg:176:VAL:O	68:Sg:185:LYS:HB3	2.14	0.47
68:Sg:194:TYR:CE2	68:Sg:212:LYS:HG3	2.49	0.47
68:Sg:217:MET:SD	68:Sg:219:TRP:NE1	2.88	0.47
68:Sg:245:ARG:O	68:Sg:245:ARG:HG2	2.15	0.47
69:SC:196:ILE:CG1	69:SC:197:PRO:HD2	2.44	0.47
69:SC:264:SER:C	69:SC:266:TYR:N	2.65	0.47
70:SG:220:ALA:HB2	70:SG:223:LYS:HE2	1.95	0.47
72:SM:85:LEU:CD1	72:SM:109:VAL:HG22	2.45	0.47
73:SN:142:GLU:CB	73:SN:145:THR:HG23	2.45	0.47
74:SO:151:LEU:C	74:SO:151:LEU:HD12	2.39	0.47
75:SW:28:ARG:HA	75:SW:60:LYS:HB2	1.97	0.47
75:SW:81:VAL:CG2	75:SW:125:ILE:HG13	2.44	0.47
78:Sb:7:LEU:O	78:Sb:10:PRO:HD3	2.15	0.47
1:L5:169:G:N2	1:L5:267:G:C4	2.83	0.47
1:L5:468:U:H3'	1:L5:469:C:H6	1.79	0.47
1:L5:485:C:H4'	1:L5:486:C:H5"	1.96	0.47
1:L5:491:G:O2'	1:L5:492:U:H5'	2.15	0.47
1:L5:670:G:N2	1:L5:671:G:N3	2.63	0.47
1:L5:978:G:C8	1:L5:979:C:H5	2.33	0.47
1:L5:1220:G:H5"	1:L5:1221:G:P	2.55	0.47
1:L5:1560:A:H2	1:L5:1568:C:C2	2.33	0.47
1:L5:1576:G:O2'	1:L5:1577:G:H5'	2.15	0.47
1:L5:1609:U:H4'	1:L5:3638:G:OP1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1736:A:H2'	1:L5:1737:A:H5'	1.97	0.47
1:L5:2094:G:C2	9:LF:180:GLY:HA3	2.50	0.47
1:L5:2532:C:H2'	1:L5:2533:C:H5'	1.96	0.47
1:L5:2743:A:H1'	4:LA:21:LYS:NZ	2.30	0.47
1:L5:2854:G:O2'	1:L5:2855:G:OP1	2.32	0.47
1:L5:3689:G:C6	1:L5:3690:U:N3	2.83	0.47
1:L5:3971:G:H3'	1:L5:3972:A:H5"	1.96	0.47
1:L5:4125:C:C5'	10:LG:45:ILE:HG12	2.44	0.47
1:L5:4128:A:N6	1:L5:4156:G:H1'	2.30	0.47
1:L5:4364:G:H1'	29:La:58:MET:CE	2.45	0.47
1:L5:4550:G:N2	1:L5:4551:U:O2	2.48	0.47
1:L5:4624:A:O3'	5:LB:223:THR:HG23	2.15	0.47
1:L5:4627:U:H4'	5:LB:373:LYS:CG	2.45	0.47
2:L7:6:C:H4'	7:LD:52:ILE:CD1	2.45	0.47
2:L7:92:C:H2'	2:L7:93:G:C8	2.49	0.47
5:LB:60:VAL:HG12	5:LB:61:ASP:N	2.28	0.47
5:LB:219:VAL:CG2	5:LB:345:LEU:HD13	2.45	0.47
6:LC:115:VAL:CG1	6:LC:119:GLN:HE21	2.15	0.47
6:LC:209:ILE:HB	6:LC:229:LEU:CD2	2.43	0.47
11:LH:126:VAL:CG1	11:LH:161:ILE:HG22	2.44	0.47
12:LI:62:SER:HA	12:LI:65:LEU:HD12	1.97	0.47
12:LI:115:MET:HG2	12:LI:118:ALA:HB2	1.98	0.47
22:LT:79:GLN:O	22:LT:79:GLN:HG3	2.15	0.47
29:La:43:ILE:HG22	29:La:43:ILE:O	2.15	0.47
33:Le:21:ILE:HD12	33:Le:22:ARG:O	2.15	0.47
34:Lf:41:PHE:HD2	34:Lf:42:TYR:CE1	2.32	0.47
34:Lf:45:LYS:HD2	34:Lf:105:LEU:CA	2.45	0.47
35:Lg:15:THR:CG2	35:Lg:16:ALA:H	2.24	0.47
37:Li:9:VAL:HG22	37:Li:10:GLY:N	2.30	0.47
39:Lk:33:LYS:CG	39:Lk:46:VAL:HG22	2.32	0.47
45:Lr:61:VAL:HG22	45:Lr:81:THR:HA	1.96	0.47
45:Lr:119:ARG:HA	45:Lr:122:LYS:NZ	2.30	0.47
46:Lz:95:LYS:HD3	46:Lz:126:PRO:CD	2.43	0.47
47:S2:113:G:H2'	47:S2:113:G:OP1	2.15	0.47
47:S2:128:U:OP2	47:S2:215:G:H5"	2.14	0.47
47:S2:160:U:H3'	47:S2:160:U:OP1	2.15	0.47
47:S2:182:C:H5'	47:S2:183:G:P	2.54	0.47
47:S2:207:G:C6	47:S2:208:G:H1'	2.50	0.47
47:S2:356:C:O2	47:S2:356:C:C2'	2.64	0.47
47:S2:361:U:C5'	47:S2:362:C:H5'	2.43	0.47
47:S2:377:G:H2'	47:S2:378:U:H5'	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:538:U:H1'	47:S2:544:G:O6	2.15	0.47
47:S2:567:C:H2'	47:S2:568:C:C6	2.50	0.47
47:S2:677:G:O6	47:S2:1026:C:H3'	2.14	0.47
47:S2:1083:A:H4'	47:S2:1085:C:C4	2.50	0.47
47:S2:1215:C:H42	47:S2:1646:C:H41	1.63	0.47
47:S2:1258:A:H1'	47:S2:1664:A:C6	2.50	0.47
47:S2:1258:A:H61	47:S2:1660:C:C1'	2.28	0.47
47:S2:1391:C:C6	47:S2:1391:C:H3'	2.50	0.47
47:S2:1449:G:O2'	47:S2:1450:G:OP2	2.23	0.47
47:S2:1553:C:HO2'	47:S2:1554:C:P	2.37	0.47
47:S2:1553:C:N4	47:S2:1557:C:O4'	2.48	0.47
47:S2:1562:C:P	61:ST:71:GLY:HA3	2.55	0.47
47:S2:1787:G:O2'	47:S2:1788:A:H5'	2.14	0.47
48:SA:12:GLU:HG3	59:SR:109:LEU:CD2	2.37	0.47
48:SA:80:ARG:HH12	48:SA:166:LYS:HA	1.80	0.47
48:SA:89:LYS:HZ2	59:SR:81:ARG:HG3	1.79	0.47
50:SD:186:VAL:O	50:SD:186:VAL:HG12	2.14	0.47
51:SE:48:LEU:HD23	51:SE:61:VAL:HG13	1.96	0.47
53:SH:58:LYS:HD2	53:SH:90:LYS:HE2	1.97	0.47
58:SQ:57:LEU:CG	58:SQ:112:LEU:HD22	2.45	0.47
59:SR:117:LEU:O	59:SR:119:VAL:HG13	2.15	0.47
62:SU:48:LEU:HB3	62:SU:49:LYS:CB	2.44	0.47
65:Sa:39:PHE:CE2	65:Sa:41:ILE:HD12	2.37	0.47
66:Sc:13:ARG:CZ	66:Sc:35:MET:HA	2.45	0.47
68:Sg:44:LYS:HB2	68:Sg:54:ILE:HG22	1.93	0.47
68:Sg:87:LEU:HD23	68:Sg:101:PHE:CD2	2.50	0.47
68:Sg:101:PHE:HB3	68:Sg:132:TRP:HZ3	1.80	0.47
69:SC:170:TRP:HB3	69:SC:178:HIS:CE1	2.50	0.47
72:SM:35:ILE:HD11	72:SM:58:GLU:CD	2.40	0.47
72:SM:51:VAL:HA	72:SM:77:ILE:HG21	1.97	0.47
75:SW:77:PRO:O	75:SW:79:PHE:N	2.49	0.47
76:SY:37:LYS:O	76:SY:40:ILE:HG22	2.15	0.47
1:L5:279:A:P	16:LN:50:ARG:HH22	2.38	0.46
1:L5:730:G:N2	1:L5:933:G:C6	2.83	0.46
1:L5:740:G:O2'	1:L5:741:C:H5'	2.15	0.46
1:L5:746:A:H5'	21:LS:148:SER:OG	2.14	0.46
1:L5:931:C:H2'	1:L5:931:C:O2	2.15	0.46
1:L5:1240:G:H2'	1:L5:1241:C:C4'	2.45	0.46
1:L5:1403:G:N2	1:L5:1415:G:C4	2.83	0.46
1:L5:1720:C:N3	1:L5:1721:G:H1'	2.30	0.46
1:L5:1747:U:O5'	1:L5:1747:U:H6	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1834:U:O2'	1:L5:1835:G:OP2	2.31	0.46
1:L5:1861:U:C2'	1:L5:1862:U:H5'	2.45	0.46
1:L5:1872:G:N3	1:L5:4219:A:H2	2.13	0.46
1:L5:2004:U:O5'	1:L5:2004:U:H6	1.97	0.46
1:L5:2255:C:H5'	1:L5:2256:C:OP2	2.15	0.46
1:L5:2347:A:C2	33:Le:30:LYS:HE3	2.50	0.46
1:L5:2474:G:H5'	1:L5:2475:G:OP2	2.15	0.46
1:L5:3701:C:C4	1:L5:3746:A:C2	3.03	0.46
1:L5:3793:U:O4	1:L5:3794:C:N4	2.48	0.46
1:L5:4099:G:H3'	1:L5:4099:G:C8	2.50	0.46
1:L5:4136:G:C5	1:L5:4137:C:C5	3.03	0.46
1:L5:4628:U:H2'	1:L5:4629:U:H6	1.80	0.46
1:L5:5057:C:C2'	1:L5:5058:A:H5'	2.45	0.46
4:LA:83:HIS:HB3	44:Lp:64:VAL:HG22	1.97	0.46
5:LB:18:PRO:O	5:LB:20:LYS:HG2	2.15	0.46
5:LB:92:TYR:CE2	5:LB:161:ARG:HD2	2.35	0.46
6:LC:183:VAL:O	6:LC:186:SER:HB2	2.15	0.46
7:LD:64:ILE:HG23	7:LD:144:CYS:SG	2.55	0.46
7:LD:95:TYR:CE2	7:LD:198:HIS:HB3	2.50	0.46
8:LE:150:LEU:CD2	8:LE:196:ALA:HB2	2.46	0.46
9:LF:93:ILE:HG21	9:LF:247:MET:HE1	1.97	0.46
12:LI:51:HIS:NE2	12:LI:168:SER:HB2	2.29	0.46
14:LL:2:ALA:HA	29:La:41:HIS:CE1	2.49	0.46
14:LL:163:LYS:HD3	29:La:105:ARG:NH2	2.24	0.46
15:LM:6:PHE:HD1	21:LS:153:PRO:HD3	1.80	0.46
15:LM:7:VAL:O	21:LS:151:LYS:HG3	2.15	0.46
22:LT:40:VAL:HB	22:LT:96:ILE:HD12	1.97	0.46
24:LV:31:ASN:ND2	24:LV:115:SER:HB2	2.16	0.46
24:LV:40:ILE:HG13	24:LV:41:SER:N	2.30	0.46
26:LX:73:HIS:HA	26:LX:76:ILE:HG12	1.96	0.46
27:LY:8:THR:HG22	27:LY:9:SER:N	2.29	0.46
28:LZ:26:VAL:HG23	28:LZ:27:LYS:N	2.29	0.46
29:La:125:LYS:HA	29:La:145:VAL:O	2.14	0.46
30:Lb:75:LEU:O	30:Lb:76:VAL:HB	2.15	0.46
33:Le:9:LYS:NZ	33:Le:71:PRO:O	2.48	0.46
36:Lh:70:ARG:HD3	36:Lh:83:LEU:HD22	1.95	0.46
42:Ln:23:ARG:HG2	42:Ln:24:SER:N	2.30	0.46
44:Lp:64:VAL:HG12	44:Lp:65:ALA:O	2.16	0.46
46:Lz:12:GLU:OE1	46:Lz:216:LEU:HD22	2.14	0.46
46:Lz:206:ILE:CG2	46:Lz:213:PRO:HA	2.45	0.46
47:S2:78:C:P	70:SG:173:ALA:HB1	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:356:C:O2	47:S2:356:C:H2'	2.14	0.46
47:S2:380:G:H5'	47:S2:381:C:OP2	2.14	0.46
47:S2:919:A:O2'	47:S2:920:A:OP2	2.33	0.46
47:S2:1034:A:C2'	47:S2:1035:A:H5'	2.45	0.46
47:S2:1046:U:H2'	47:S2:1047:C:O4'	2.15	0.46
47:S2:1159:G:H2'	47:S2:1160:U:H5'	1.97	0.46
47:S2:1172:U:O2'	47:S2:1173:A:H5'	2.15	0.46
47:S2:1233:G:N3	47:S2:1252:C:O2'	2.45	0.46
47:S2:1704:C:H2'	47:S2:1705:C:H6	1.79	0.46
47:S2:1725:U:H2'	47:S2:1726:G:O4'	2.14	0.46
47:S2:1822:A:H5'	47:S2:1823:A:OP2	2.14	0.46
48:SA:27:GLY:HA3	48:SA:28:THR:HA	1.59	0.46
48:SA:184:ARG:HD3	48:SA:191:ARG:NH1	2.29	0.46
49:SB:163:GLN:O	49:SB:167:LYS:HG2	2.15	0.46
53:SH:103:LYS:HA	53:SH:116:ARG:HH11	1.80	0.46
58:SQ:31:LEU:HD11	58:SQ:33:LYS:HD3	1.96	0.46
59:SR:108:LEU:O	59:SR:109:LEU:HD12	2.14	0.46
60:SS:114:LEU:O	60:SS:119:ALA:HB3	2.15	0.46
61:ST:60:THR:O	61:ST:64:LEU:HB2	2.16	0.46
63:SV:38:GLU:OE2	63:SV:78:ILE:HD11	2.15	0.46
63:SV:38:GLU:HG3	63:SV:78:ILE:CD1	2.45	0.46
63:SV:66:ASP:O	63:SV:69:ILE:HB	2.15	0.46
65:Sa:58:VAL:N	74:SO:126:ILE:O	2.46	0.46
68:Sg:109:LEU:H	68:Sg:125:ARG:H	1.63	0.46
69:SC:195:LEU:CD1	69:SC:243:ALA:HB1	2.45	0.46
70:SG:160:LYS:HB3	70:SG:172:LYS:CG	2.45	0.46
78:Sb:25:VAL:HG12	78:Sb:26:GLN:N	2.30	0.46
1:L5:112:C:H5	1:L5:157:U:H3	1.63	0.46
1:L5:216:C:H2'	1:L5:216:C:O2	2.16	0.46
1:L5:230:G:O2'	1:L5:231:U:H5'	2.15	0.46
1:L5:282:C:H2'	1:L5:283:G:O4'	2.15	0.46
1:L5:353:A:N6	1:L5:379:G:H1'	2.31	0.46
1:L5:472:C:N3	1:L5:682:G:N2	2.63	0.46
1:L5:981:C:C5	8:LE:73:TYR:HA	2.49	0.46
1:L5:1279:A:C2'	1:L5:1280:C:C2	2.97	0.46
1:L5:1302:U:H5	1:L5:1303:A:C5	2.33	0.46
1:L5:1332:C:OP2	33:Le:30:LYS:HD3	2.16	0.46
1:L5:1772:C:O2'	1:L5:1773:U:H5'	2.14	0.46
1:L5:1914:C:C2	1:L5:2050:G:N2	2.83	0.46
1:L5:2090:U:OP1	6:LC:305:PRO:HG3	2.16	0.46
1:L5:2561:C:H2'	1:L5:2562:G:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2778:G:H2'	1:L5:2779:C:C6	2.50	0.46
1:L5:2855:G:H21	1:L5:2858:A:H61	1.62	0.46
1:L5:2863:G:C2	1:L5:3619:G:H1'	2.50	0.46
1:L5:2871:A:C5	1:L5:2872:C:H1'	2.50	0.46
1:L5:3807:A:H2'	1:L5:3808:C:H6	1.79	0.46
1:L5:4046:A:H3'	1:L5:4046:A:P	2.55	0.46
1:L5:4237:C:H6	1:L5:4237:C:H3'	1.80	0.46
1:L5:4343:U:OP1	43:Lo:37:GLY:N	2.37	0.46
1:L5:4345:C:C2	1:L5:4368:G:N2	2.84	0.46
1:L5:4568:A:P	5:LB:20:LYS:HB2	2.56	0.46
1:L5:4645:C:C5	20:LR:62:ARG:CD	2.98	0.46
1:L5:4988:U:P	1:L5:5061:A:H62	2.36	0.46
1:L5:5025:C:C6	1:L5:5026:U:H1'	2.51	0.46
2:L7:7:G:O2'	2:L7:8:G:H5'	2.16	0.46
5:LB:126:LYS:O	5:LB:127:LYS:HB2	2.14	0.46
5:LB:189:THR:HG22	5:LB:192:GLU:HB3	1.98	0.46
5:LB:295:ASP:HA	5:LB:296:GLY:HA2	1.72	0.46
6:LC:279:LEU:HG	6:LC:280:PRO:CD	2.44	0.46
7:LD:211:LEU:CB	7:LD:219:TYR:HA	2.44	0.46
8:LE:109:LEU:O	8:LE:111:LYS:N	2.41	0.46
9:LF:113:ARG:NH2	9:LF:208:LEU:O	2.48	0.46
11:LH:40:HIS:ND1	11:LH:41:ILE:HD12	2.30	0.46
12:LI:113:THR:HG23	12:LI:114:GLY:N	2.29	0.46
12:LI:193:ASP:N	12:LI:196:GLY:O	2.42	0.46
14:LL:86:ILE:O	14:LL:86:ILE:HG13	2.14	0.46
14:LL:171:GLU:O	14:LL:174:LYS:HB2	2.14	0.46
16:LN:88:GLY:HA2	43:Lo:48:TYR:CE1	2.50	0.46
17:LO:192:TYR:O	17:LO:195:VAL:HB	2.14	0.46
19:LQ:50:ARG:CG	19:LQ:83:VAL:HG21	2.39	0.46
23:LU:83:LEU:O	23:LU:87:THR:OG1	2.21	0.46
25:LW:86:SER:CB	25:LW:89:ASP:HB2	2.45	0.46
27:LY:99:ILE:HD11	27:LY:104:VAL:HG13	1.97	0.46
33:Le:67:LYS:O	33:Le:68:HIS:HB2	2.14	0.46
46:Lz:39:LYS:CG	46:Lz:202:ARG:HH22	2.28	0.46
47:S2:52:G:H2'	47:S2:53:C:O4'	2.15	0.46
47:S2:96:C:H1'	47:S2:474:G:H5"	1.97	0.46
47:S2:176:U:H2'	47:S2:177:G:O4'	2.16	0.46
47:S2:216:C:H2'	47:S2:217:A:H5'	1.96	0.46
47:S2:318:A:H2'	47:S2:319:C:C4'	2.45	0.46
47:S2:688:U:P	53:SH:121:THR:HG23	2.55	0.46
47:S2:807:G:O2'	51:SE:219:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1017:U:H6	73:SN:55:ARG:NH1	2.13	0.46
47:S2:1041:G:C6	47:S2:1042:A:N7	2.83	0.46
47:S2:1094:C:O2	47:S2:1151:G:N1	2.47	0.46
47:S2:1274:G:N1	67:Sd:8:TRP:HZ2	2.14	0.46
47:S2:1275:G:C8	47:S2:1506:A:C6	3.04	0.46
47:S2:1291:A:N6	47:S2:1302:G:C2	2.84	0.46
47:S2:1606:G:N2	47:S2:1632:G:H1'	2.29	0.46
50:SD:20:GLU:O	50:SD:23:GLU:HB3	2.15	0.46
51:SE:92:ILE:CG2	51:SE:95:THR:HG22	2.46	0.46
54:SI:165:GLN:HE22	54:SI:172:LEU:H	1.61	0.46
54:SI:194:GLU:HB2	56:SL:18:GLN:HE22	1.79	0.46
55:SK:25:LYS:O	55:SK:25:LYS:HG3	2.15	0.46
56:SL:55:TYR:OH	56:SL:116:CYS:HB3	2.15	0.46
57:SP:29:SER:O	57:SP:32:GLN:HB3	2.16	0.46
58:SQ:21:ALA:HB3	58:SQ:87:SER:HB3	1.97	0.46
58:SQ:28:GLY:CA	58:SQ:67:ASP:H	2.29	0.46
65:Sa:12:LYS:HG3	65:Sa:15:ARG:CG	2.44	0.46
68:Sg:70:VAL:H	68:Sg:79:LEU:HB2	1.80	0.46
68:Sg:88:ARG:NH1	68:Sg:100:ARG:HD3	2.30	0.46
68:Sg:248:LEU:HD12	68:Sg:249:CYS:H	1.80	0.46
69:SC:135:GLY:O	69:SC:136:HIS:ND1	2.49	0.46
69:SC:206:SER:OG	69:SC:207:ALA:N	2.45	0.46
73:SN:66:VAL:HG12	73:SN:67:THR:N	2.29	0.46
73:SN:129:TYR:HB3	73:SN:134:VAL:HG22	1.96	0.46
75:SW:30:CYS:SG	75:SW:59:GLY:C	2.98	0.46
75:SW:65:LEU:C	75:SW:65:LEU:HD12	2.41	0.46
75:SW:74:VAL:O	75:SW:74:VAL:HG13	2.15	0.46
76:SY:14:THR:HG22	76:SY:21:LYS:CB	2.45	0.46
79:Se:6:LEU:C	79:Se:6:LEU:HD12	2.40	0.46
1:L5:81:C:C2	1:L5:103:G:N2	2.84	0.46
1:L5:277:G:C5	37:Li:30:ARG:NH1	2.83	0.46
1:L5:398:A:H8	1:L5:398:A:O5'	1.98	0.46
1:L5:403:G:C2	1:L5:404:U:C4	3.03	0.46
1:L5:453:G:O6	1:L5:1294:A:H8	1.98	0.46
1:L5:724:C:H42	1:L5:942:G:H1	1.62	0.46
1:L5:1202:C:C4	1:L5:1203:G:C1'	2.90	0.46
1:L5:1203:G:H3'	1:L5:1204:C:H6	1.80	0.46
1:L5:1217:G:H5"	1:L5:1218:G:OP1	2.16	0.46
1:L5:1417:C:H2'	1:L5:1418:C:H6	1.80	0.46
1:L5:1471:U:H2'	1:L5:1472:C:C6	2.50	0.46
1:L5:1502:G:O6	19:LQ:89:ASP:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1666:C:O2'	1:L5:1667:G:H5'	2.15	0.46
1:L5:1695:U:H6	1:L5:1695:U:H3'	1.80	0.46
1:L5:2038:U:H3'	1:L5:2038:U:H6	1.80	0.46
1:L5:2055:G:HO2'	1:L5:2056:G:P	2.34	0.46
1:L5:2065:G:C6	1:L5:2066:C:N3	2.83	0.46
1:L5:2128:G:H21	1:L5:2246:C:H42	1.62	0.46
1:L5:2294:G:N2	1:L5:2295:C:O2	2.49	0.46
1:L5:2315:G:C6	1:L5:2325:C:N3	2.83	0.46
1:L5:2595:C:O2'	1:L5:2596:G:H5'	2.15	0.46
1:L5:2715:G:H2'	1:L5:2716:C:N1	2.29	0.46
1:L5:3613:U:O2'	1:L5:3614:G:H5'	2.14	0.46
1:L5:3807:A:H2'	1:L5:3808:C:C6	2.50	0.46
1:L5:4046:A:OP1	1:L5:4046:A:H8	1.97	0.46
1:L5:4440:G:H5'	1:L5:4441:A:OP2	2.15	0.46
1:L5:4476:C:O2	1:L5:4476:C:C2'	2.63	0.46
1:L5:4526:U:C5	1:L5:4527:G:C6	3.04	0.46
1:L5:4666:G:C5	1:L5:4667:C:C4	3.04	0.46
1:L5:4697:U:H5"	1:L5:4698:C:OP2	2.16	0.46
1:L5:4878:C:N4	1:L5:4879:C:H42	2.13	0.46
3:L8:27:U:H2'	3:L8:28:C:C6	2.49	0.46
3:L8:83:C:N4	27:LY:50:ARG:HH21	2.11	0.46
3:L8:103:A:C3'	3:L8:104:A:H5"	2.45	0.46
8:LE:178:PRO:O	8:LE:181:LEU:HB2	2.15	0.46
9:LF:75:ALA:HB1	9:LF:80:ASN:O	2.15	0.46
14:LL:8:MET:HE1	19:LQ:167:VAL:N	2.30	0.46
19:LQ:64:SER:HB3	19:LQ:89:ASP:OD2	2.16	0.46
19:LQ:79:THR:CG2	19:LQ:99:LYS:HE2	2.45	0.46
23:LU:91:LEU:HD22	23:LU:96:LEU:CB	2.44	0.46
23:LU:96:LEU:HB3	23:LU:100:LEU:CD2	2.44	0.46
25:LW:20:ARG:HD3	25:LW:28:VAL:CG1	2.45	0.46
28:LZ:10:VAL:HG23	28:LZ:86:SER:CA	2.29	0.46
33:Le:54:LEU:HD12	33:Le:54:LEU:N	2.30	0.46
33:Le:67:LYS:HE2	33:Le:68:HIS:ND1	2.31	0.46
37:Li:7:MET:O	37:Li:13:LYS:HA	2.15	0.46
37:Li:11:LEU:HD23	37:Li:11:LEU:C	2.41	0.46
37:Li:79:THR:CG2	37:Li:80:HIS:N	2.78	0.46
39:Lk:19:ASP:OD1	39:Lk:19:ASP:N	2.48	0.46
45:Lr:18:ILE:HD12	45:Lr:27:THR:HG23	1.96	0.46
46:Lz:23:ARG:HD2	46:Lz:32:VAL:HG21	1.97	0.46
47:S2:15:U:H2'	47:S2:16:G:C5'	2.45	0.46
47:S2:305:U:H4'	47:S2:306:C:OP2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:413:G:C5'	47:S2:813:A:H61	2.29	0.46
47:S2:808:A:C2'	47:S2:809:A:C5'	2.93	0.46
47:S2:1024:A:OP2	73:SN:124:ARG:NH2	2.49	0.46
47:S2:1146:C:C2	47:S2:1147:C:H5	2.33	0.46
47:S2:1154:U:O2'	69:SC:194:ARG:HD2	2.16	0.46
47:S2:1156:U:H5'	75:SW:71:LYS:CE	2.43	0.46
47:S2:1333:U:O2	50:SD:181:VAL:HG12	2.15	0.46
47:S2:1362:U:H4'	47:S2:1363:C:OP2	2.15	0.46
47:S2:1543:U:P	61:ST:62:ARG:HH22	2.37	0.46
47:S2:1643:U:O2'	47:S2:1644:C:O5'	2.29	0.46
47:S2:1660:C:H4'	47:S2:1663:A:H62	1.80	0.46
47:S2:1739:C:O2	47:S2:1796:G:N2	2.48	0.46
47:S2:1808:U:O2'	47:S2:1809:A:H5'	2.15	0.46
48:SA:103:PHE:CZ	48:SA:107:THR:HB	2.50	0.46
48:SA:189:ILE:HG13	48:SA:191:ARG:N	2.31	0.46
48:SA:200:ASP:HA	48:SA:203:PHE:CE2	2.51	0.46
49:SB:144:LYS:HB3	49:SB:206:PRO:O	2.16	0.46
50:SD:50:ILE:C	50:SD:51:LEU:HD12	2.41	0.46
51:SE:19:MET:SD	51:SE:108:ARG:HD2	2.56	0.46
51:SE:73:ASP:OD2	51:SE:122:LYS:NZ	2.44	0.46
51:SE:168:LYS:HG3	51:SE:170:THR:H	1.79	0.46
53:SH:160:LYS:CE	53:SH:192:PHE:HA	2.46	0.46
54:SI:41:ARG:HD2	54:SI:43:ILE:CD1	2.46	0.46
54:SI:67:TRP:NE1	54:SI:70:GLU:HG2	2.30	0.46
55:SK:43:LEU:HD12	55:SK:44:HIS:N	2.30	0.46
56:SL:8:ARG:O	56:SL:8:ARG:HD3	2.16	0.46
56:SL:78:THR:HG21	56:SL:89:ARG:HG3	1.97	0.46
56:SL:128:VAL:HG11	56:SL:140:PHE:CB	2.40	0.46
57:SP:103:ASN:HD21	60:SS:117:ILE:HD12	1.80	0.46
58:SQ:45:ARG:O	58:SQ:48:GLN:HG2	2.15	0.46
58:SQ:60:LYS:HD2	58:SQ:63:PHE:CD2	2.50	0.46
58:SQ:105:LYS:HA	58:SQ:108:ILE:HG22	1.97	0.46
60:SS:74:PRO:HG3	60:SS:97:GLN:CB	2.35	0.46
65:Sa:22:ARG:CG	74:SO:142:ARG:HD3	2.46	0.46
68:Sg:22:ALA:H	68:Sg:32:LEU:HD11	1.80	0.46
68:Sg:131:LEU:HD13	68:Sg:140:TYR:HB3	1.96	0.46
68:Sg:165:ILE:O	68:Sg:176:VAL:HG13	2.15	0.46
68:Sg:245:ARG:HD3	68:Sg:247:TRP:HZ2	1.79	0.46
69:SC:193:VAL:HG21	69:SC:240:THR:OG1	2.16	0.46
70:SG:228:ILE:HD12	70:SG:231:ARG:HH11	1.80	0.46
72:SM:43:ASP:HA	72:SM:71:GLU:OE2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:SO:29:GLY:C	74:SO:93:LEU:HB2	2.40	0.46
74:SO:98:ARG:HG2	74:SO:99:ALA:O	2.15	0.46
75:SW:60:LYS:C	75:SW:61:ILE:HG13	2.40	0.46
76:SY:48:TYR:C	76:SY:50:THR:H	2.22	0.46
1:L5:91:G:H5'	1:L5:92:C:H5"	1.96	0.46
1:L5:284:G:N2	1:L5:285:G:N3	2.63	0.46
1:L5:332:C:O2'	1:L5:333:U:H5'	2.16	0.46
1:L5:349:A:OP1	6:LC:49:ARG:HG3	2.15	0.46
1:L5:738:C:H2'	1:L5:739:G:H5'	1.98	0.46
1:L5:1240:G:H5'	1:L5:1271:G:O3'	2.15	0.46
1:L5:1303:A:OP2	33:Le:19:LYS:HG3	2.16	0.46
1:L5:1441:C:H2'	1:L5:1442:C:C5	2.50	0.46
1:L5:1441:C:H2'	1:L5:1442:C:C6	2.50	0.46
1:L5:1667:G:N1	1:L5:2281:U:OP2	2.47	0.46
1:L5:1893:C:O5'	1:L5:1893:C:H6	1.98	0.46
1:L5:1912:G:C2	1:L5:1913:C:N3	2.83	0.46
1:L5:1971:C:H3'	1:L5:1971:C:H6	1.79	0.46
1:L5:2270:G:H2'	1:L5:2271:C:C6	2.51	0.46
1:L5:2344:U:C2'	29:La:9:ARG:HH12	2.28	0.46
1:L5:2532:C:O2'	1:L5:2533:C:H5'	2.16	0.46
1:L5:2753:G:H4'	28:LZ:135:ARG:HH22	1.80	0.46
1:L5:3778:U:C2'	1:L5:3779:A:H5'	2.46	0.46
1:L5:3947:A:H5'	1:L5:3948:C:OP1	2.14	0.46
1:L5:4231:C:H5	43:Lo:2:VAL:HG11	1.81	0.46
1:L5:4457:U:H2'	1:L5:4458:C:H5'	1.96	0.46
1:L5:4767:C:H2'	1:L5:4768:G:O4'	2.15	0.46
1:L5:4991:U:HO2'	1:L5:4992:G:P	2.35	0.46
1:L5:5022:U:H2'	1:L5:5024:C:H4'	1.97	0.46
5:LB:14:LEU:HD12	5:LB:14:LEU:N	2.31	0.46
5:LB:54:THR:HG22	5:LB:373:LYS:HE2	1.97	0.46
5:LB:402:GLY:O	5:LB:403:ALA:HB3	2.15	0.46
9:LF:53:LYS:HA	9:LF:56:HIS:HB3	1.97	0.46
9:LF:112:LEU:CD1	9:LF:123:VAL:HG11	2.45	0.46
10:LG:63:LEU:HD22	16:LN:32:GLN:CB	2.45	0.46
10:LG:66:GLN:O	10:LG:69:ILE:HG22	2.16	0.46
11:LH:103:VAL:HG12	11:LH:104:VAL:N	2.31	0.46
12:LI:71:CYS:SG	12:LI:72:ALA:N	2.89	0.46
13:LJ:7:GLU:O	13:LJ:11:PRO:HD3	2.14	0.46
13:LJ:10:ASN:CG	13:LJ:11:PRO:HD3	2.40	0.46
13:LJ:83:LEU:C	13:LJ:83:LEU:HD23	2.40	0.46
14:LL:192:PHE:HA	14:LL:195:ARG:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:LM:118:MET:O	15:LM:121:ARG:HB2	2.15	0.46
16:LN:68:ARG:HE	16:LN:128:LYS:HD2	1.80	0.46
25:LW:83:THR:HA	70:SG:131:ARG:CA	2.45	0.46
28:LZ:22:LYS:HD2	28:LZ:130:PHE:O	2.16	0.46
28:LZ:96:VAL:O	28:LZ:96:VAL:HG12	2.14	0.46
33:Le:4:LEU:HD23	33:Le:121:ARG:CB	2.32	0.46
33:Le:76:LYS:HD2	33:Le:98:GLU:OE1	2.15	0.46
34:Lf:15:LYS:HZ2	34:Lf:22:ARG:HG3	1.80	0.46
47:S2:347:G:N2	47:S2:348:A:N3	2.63	0.46
47:S2:1016:U:H5'	73:SN:15:ALA:O	2.15	0.46
47:S2:1146:C:N3	47:S2:1147:C:N4	2.54	0.46
47:S2:1199:A:N6	47:S2:1200:A:N1	2.64	0.46
47:S2:1491:G:C1'	62:SU:72:GLU:HG2	2.44	0.46
49:SB:105:LEU:HD21	49:SB:211:PHE:HD2	1.79	0.46
49:SB:133:TYR:CD2	49:SB:181:LEU:HD22	2.50	0.46
49:SB:172:MET:HE1	49:SB:212:VAL:HG11	1.96	0.46
50:SD:73:VAL:CB	50:SD:84:VAL:HG21	2.45	0.46
53:SH:103:LYS:O	53:SH:105:THR:HG23	2.14	0.46
56:SL:103:GLU:OE1	64:SX:14:ARG:NH2	2.47	0.46
57:SP:43:ARG:O	57:SP:46:ASN:HB3	2.15	0.46
62:SU:62:ARG:C	62:SU:63:ILE:HG13	2.40	0.46
68:Sg:8:ARG:NH1	68:Sg:311:GLN:OE1	2.38	0.46
68:Sg:172:LYS:HG2	68:Sg:192:THR:O	2.15	0.46
69:SC:66:LEU:C	69:SC:66:LEU:HD23	2.41	0.46
69:SC:135:GLY:HA3	69:SC:167:ARG:HH22	1.80	0.46
69:SC:213:LEU:O	69:SC:216:MET:HB2	2.15	0.46
70:SG:55:GLY:N	70:SG:63:MET:HG2	2.25	0.46
70:SG:57:ASP:CG	70:SG:58:LYS:N	2.73	0.46
70:SG:145:PHE:HZ	70:SG:156:TYR:CD2	2.33	0.46
70:SG:220:ALA:CA	70:SG:223:LYS:HE2	2.45	0.46
71:SJ:170:PRO:CB	71:SJ:174:LYS:HG2	2.46	0.46
75:SW:3:ARG:HH12	75:SW:28:ARG:HH12	1.64	0.46
76:SY:104:ARG:HG3	76:SY:105:LYS:H	1.77	0.46
78:Sb:11:SER:HA	78:Sb:12:PRO:HD3	1.79	0.46
79:Se:43:VAL:HG12	79:Se:44:ASN:N	2.30	0.46
1:L5:210:C:O2	1:L5:234:G:H3'	2.16	0.46
1:L5:222:C:O2'	1:L5:223:G:H5'	2.16	0.46
1:L5:284:G:N2	1:L5:285:G:C4	2.84	0.46
1:L5:940:C:O2'	1:L5:941:C:H5'	2.15	0.46
1:L5:1271:G:N3	1:L5:1271:G:C3'	2.75	0.46
1:L5:1273:G:N7	1:L5:1274:A:N6	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1663:C:C2'	1:L5:1664:U:H5'	2.45	0.46
1:L5:1669:A:N3	1:L5:1852:U:H4'	2.29	0.46
1:L5:1838:A:H8	1:L5:1838:A:O5'	1.98	0.46
1:L5:2090:U:H3'	1:L5:2259:G:OP2	2.16	0.46
1:L5:2414:G:O2'	1:L5:2415:U:H5'	2.14	0.46
1:L5:2500:U:C2'	1:L5:2501:C:H5'	2.46	0.46
1:L5:2672:C:C2'	1:L5:2673:G:H21	2.27	0.46
1:L5:3767:C:H2'	1:L5:3768:U:O4'	2.15	0.46
1:L5:4060:U:HO2'	1:L5:4061:G:P	2.38	0.46
1:L5:4254:G:H2'	1:L5:4254:G:N3	2.30	0.46
1:L5:4271:A:C6	1:L5:4272:G:N7	2.84	0.46
1:L5:4273:A:H2'	1:L5:4274:A:C8	2.51	0.46
1:L5:4628:U:O5'	1:L5:4628:U:H6	1.98	0.46
1:L5:4638:U:H4'	1:L5:5044:A:H2	1.81	0.46
1:L5:4894:A:H5'	1:L5:4895:C:P	2.56	0.46
3:L8:76:C:C2'	3:L8:77:A:H5'	2.45	0.46
3:L8:77:A:C6	3:L8:78:G:C2	3.03	0.46
5:LB:29:VAL:O	5:LB:30:LYS:HB2	2.16	0.46
6:LC:314:LEU:HD12	6:LC:314:LEU:O	2.14	0.46
6:LC:348:LYS:O	6:LC:351:VAL:HG12	2.15	0.46
8:LE:287:VAL:HG12	8:LE:287:VAL:O	2.16	0.46
9:LF:241:ASN:C	9:LF:244:ILE:HG22	2.40	0.46
13:LJ:113:ILE:HD11	60:SS:14:ARG:HH21	1.79	0.46
14:LL:174:LYS:NZ	29:La:141:GLY:O	2.48	0.46
16:LN:89:VAL:O	16:LN:89:VAL:HG13	2.15	0.46
18:LP:63:TYR:O	18:LP:64:ASN:HB3	2.16	0.46
19:LQ:92:VAL:O	19:LQ:112:ARG:NH2	2.49	0.46
29:La:78:LEU:HD21	29:La:101:ILE:HG21	1.98	0.46
40:Ll:12:PHE:CZ	40:Ll:16:LYS:CD	2.99	0.46
47:S2:439:A:O2'	47:S2:440:G:H5'	2.16	0.46
47:S2:572:U:OP1	76:SY:60:PHE:N	2.45	0.46
47:S2:613:G:N1	47:S2:629:A:OP1	2.41	0.46
47:S2:619:A:N6	64:SX:67:ARG:HH11	2.13	0.46
47:S2:683:G:N1	47:S2:1022:U:OP2	2.34	0.46
47:S2:846:G:C6	51:SE:19:MET:HE1	2.50	0.46
47:S2:1279:C:H2'	47:S2:1280:G:H4'	1.97	0.46
47:S2:1293:A:N6	80:Sf:146:LEU:HA	2.31	0.46
47:S2:1356:G:O2'	47:S2:1357:A:H5'	2.15	0.46
47:S2:1605:G:OP1	61:ST:84:ARG:NH2	2.49	0.46
47:S2:1613:G:H1	47:S2:1626:C:N4	2.13	0.46
50:SD:45:ARG:HG3	50:SD:84:VAL:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:100:ARG:H	51:SE:114:ILE:HD12	1.81	0.46
51:SE:111:VAL:HG23	51:SE:111:VAL:O	2.16	0.46
53:SH:51:ILE:CG2	53:SH:179:LYS:HZ2	2.26	0.46
53:SH:63:PHE:CZ	53:SH:180:LEU:HD21	2.50	0.46
53:SH:135:PHE:N	53:SH:136:PRO:CD	2.77	0.46
53:SH:146:VAL:CG1	75:SW:42:MET:HE1	2.46	0.46
56:SL:35:ARG:HG2	56:SL:36:TYR:O	2.16	0.46
60:SS:15:VAL:HG12	60:SS:16:LEU:N	2.29	0.46
60:SS:52:LEU:C	60:SS:52:LEU:HD12	2.41	0.46
60:SS:65:GLU:CA	60:SS:68:ILE:HG12	2.45	0.46
61:ST:51:ASN:HB3	61:ST:54:TYR:CD2	2.50	0.46
68:Sg:131:LEU:HB2	68:Sg:140:TYR:HB3	1.97	0.46
68:Sg:156:PHE:C	68:Sg:200:VAL:HG11	2.40	0.46
68:Sg:165:ILE:O	68:Sg:165:ILE:HG13	2.15	0.46
69:SC:98:LEU:HD13	69:SC:132:ASP:OD2	2.16	0.46
70:SG:171:THR:HG22	70:SG:173:ALA:HB2	1.98	0.46
71:SJ:86:VAL:HG21	71:SJ:105:PHE:CE1	2.50	0.46
72:SM:14:VAL:HG23	72:SM:14:VAL:O	2.16	0.46
72:SM:81:ASP:O	72:SM:82:ASN:ND2	2.48	0.46
73:SN:23:PRO:HB3	73:SN:25:TRP:CZ2	2.50	0.46
74:SO:143:LYS:HG2	74:SO:144:GLY:N	2.30	0.46
77:SZ:47:LEU:N	77:SZ:80:ARG:HB2	2.30	0.46
1:L5:119:G:N1	10:LG:132:ARG:HD2	2.30	0.46
1:L5:131:C:H2'	1:L5:132:G:O4'	2.16	0.46
1:L5:468:U:C4	1:L5:469:C:C4	3.03	0.46
1:L5:489:C:H2'	1:L5:490:C:O4'	2.16	0.46
1:L5:700:G:O2'	1:L5:701:G:H5'	2.15	0.46
1:L5:707:C:N4	1:L5:1290:G:H22	2.14	0.46
1:L5:911:U:C4	1:L5:912:G:N7	2.83	0.46
1:L5:1410:U:H4'	1:L5:1410:U:OP1	2.16	0.46
1:L5:1517:G:H2'	1:L5:1517:G:N3	2.31	0.46
1:L5:1934:A:H2'	1:L5:2048:U:O2	2.16	0.46
1:L5:2051:C:C5	1:L5:2052:G:C4	3.00	0.46
1:L5:2288:G:N2	1:L5:2290:C:C2	2.83	0.46
1:L5:2342:G:C5	1:L5:2344:U:C5	3.04	0.46
1:L5:2493:G:C5	1:L5:2494:U:C4	3.04	0.46
1:L5:2781:G:OP1	40:Ll:10:LYS:NZ	2.48	0.46
1:L5:3661:G:N2	4:LA:126:LEU:HA	2.31	0.46
1:L5:3661:G:N3	4:LA:126:LEU:HD22	2.31	0.46
1:L5:3701:C:C4	1:L5:3745:U:C5	3.04	0.46
1:L5:3872:A:C2'	1:L5:3873:G:H5'	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3973:G:N2	1:L5:4037:C:H41	2.12	0.46
1:L5:4040:C:OP1	1:L5:4048:A:O2'	2.33	0.46
1:L5:4208:U:OP2	22:LT:4:THR:HG21	2.15	0.46
1:L5:4241:C:C2'	1:L5:4242:U:H5'	2.46	0.46
1:L5:4307:A:H4'	19:LQ:186:TYR:CE2	2.50	0.46
1:L5:4461:C:C2	1:L5:4516:G:C2	3.03	0.46
1:L5:4581:G:H3'	5:LB:28:LYS:NZ	2.31	0.46
1:L5:4730:C:C6	1:L5:4734:A:N1	2.84	0.46
1:L5:4764:A:C5	21:LS:175:PHE:HE2	2.32	0.46
1:L5:4945:G:N2	34:Lf:68:ARG:HG2	2.31	0.46
1:L5:5068:G:OP1	1:L5:5068:G:H3'	2.16	0.46
2:L7:10:C:C4	7:LD:20:PHE:HD1	2.34	0.46
3:L8:37:A:OP1	36:Lh:92:ARG:NH2	2.44	0.46
4:LA:84:THR:CG2	44:Lp:63:THR:CG2	2.94	0.46
6:LC:156:ASP:OD1	6:LC:255:SER:N	2.49	0.46
10:LG:98:LEU:HD13	10:LG:211:ASP:OD2	2.16	0.46
10:LG:232:GLU:O	10:LG:236:HIS:HB2	2.15	0.46
11:LH:160:LEU:O	11:LH:160:LEU:HD23	2.14	0.46
12:LI:142:LEU:HD12	12:LI:142:LEU:N	2.31	0.46
13:LJ:153:ALA:HB2	13:LJ:156:ARG:CG	2.43	0.46
16:LN:47:LYS:HE3	16:LN:51:LEU:HD11	1.98	0.46
17:LO:47:PHE:HE1	17:LO:141:LEU:HA	1.81	0.46
17:LO:54:TYR:O	17:LO:57:PHE:HB3	2.16	0.46
20:LR:47:ASP:HB3	20:LR:49:LEU:HD13	1.96	0.46
20:LR:167:LYS:HZ3	20:LR:171:LYS:HZ3	1.63	0.46
26:LX:101:ASP:O	26:LX:134:LYS:HD3	2.15	0.46
26:LX:106:LYS:HB3	26:LX:124:VAL:HG21	1.98	0.46
26:LX:106:LYS:CG	26:LX:126:THR:HG23	2.45	0.46
35:Lg:19:LYS:C	35:Lg:20:THR:HG23	2.41	0.46
38:Lj:64:MET:O	38:Lj:68:LYS:HG2	2.16	0.46
47:S2:22:A:H2'	47:S2:23:G:H5'	1.97	0.46
47:S2:39:A:H5'	71:SJ:7:TRP:HE1	1.80	0.46
47:S2:327:G:O3'	47:S2:328:U:H4'	2.16	0.46
47:S2:593:C:H3'	47:S2:593:C:P	2.56	0.46
47:S2:875:A:OP1	53:SH:112:ASN:ND2	2.49	0.46
47:S2:1255:G:H5'	47:S2:1256:G:O5'	2.16	0.46
47:S2:1299:A:H2'	47:S2:1301:A:OP1	2.16	0.46
47:S2:1304:U:H4'	80:Sf:93:HIS:NE2	2.30	0.46
47:S2:1529:C:H5"	47:S2:1530:U:OP2	2.14	0.46
47:S2:1540:G:H5'	61:ST:47:PRO:CB	2.45	0.46
47:S2:1752:C:N3	47:S2:1780:G:N2	2.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:SB:226:GLY:O	49:SB:230:GLU:HG3	2.16	0.46
50:SD:17:PHE:O	50:SD:21:LEU:N	2.40	0.46
54:SI:129:LEU:C	54:SI:131:PRO:HD2	2.40	0.46
55:SK:77:GLN:HA	55:SK:80:ARG:NE	2.31	0.46
57:SP:57:LEU:HD21	57:SP:86:LEU:HD21	1.97	0.46
58:SQ:16:LYS:CG	58:SQ:79:ALA:HB1	2.44	0.46
58:SQ:31:LEU:HD11	58:SQ:33:LYS:CD	2.45	0.46
58:SQ:106:LYS:HG3	58:SQ:107:GLU:CD	2.40	0.46
58:SQ:109:LYS:C	58:SQ:112:LEU:H	2.23	0.46
58:SQ:119:LEU:C	58:SQ:120:LEU:HD12	2.41	0.46
63:SV:46:PHE:CG	63:SV:47:ASN:N	2.83	0.46
66:Sc:43:ILE:HD12	66:Sc:66:ARG:HH11	1.79	0.46
68:Sg:100:ARG:HH22	68:Sg:102:VAL:HG12	1.81	0.46
68:Sg:277:THR:HG22	68:Sg:279:SER:N	2.31	0.46
69:SC:129:ALA:CA	69:SC:139:LEU:HD12	2.45	0.46
71:SJ:56:ALA:O	71:SJ:59:GLU:HB2	2.16	0.46
74:SO:33:ILE:HG23	74:SO:33:ILE:O	2.16	0.46
76:SY:13:MET:CG	76:SY:22:GLN:HE21	2.29	0.46
76:SY:91:LEU:CB	76:SY:96:LEU:HG	2.45	0.46
77:SZ:100:VAL:O	77:SZ:101:SER:OG	2.29	0.46
1:L5:39:A:C2	29:La:40:HIS:CD2	3.04	0.46
1:L5:169:G:C6	1:L5:170:C:C5	3.02	0.46
1:L5:272:U:H2'	1:L5:273:U:C6	2.50	0.46
1:L5:695:G:H3'	1:L5:696:C:C6	2.51	0.46
1:L5:1453:G:H2'	1:L5:1454:G:H5'	1.97	0.46
1:L5:1624:G:N7	1:L5:1643:A:C5	2.84	0.46
1:L5:1777:C:N4	1:L5:1778:C:N3	2.64	0.46
1:L5:1961:G:N1	1:L5:2024:G:H2'	2.29	0.46
1:L5:2406:G:O3'	40:Ll:48:LYS:HG3	2.15	0.46
1:L5:2601:A:O2'	1:L5:2743:A:OP2	2.27	0.46
1:L5:2615:C:C2'	1:L5:2616:C:H5'	2.46	0.46
1:L5:2620:G:OP1	23:LU:80:LYS:N	2.45	0.46
1:L5:2689:C:N3	1:L5:2690:C:N4	2.63	0.46
1:L5:3616:U:H4'	1:L5:3617:G:OP1	2.12	0.46
1:L5:3673:C:P	1:L5:3673:C:H2'	2.56	0.46
1:L5:3700:C:C2	1:L5:3746:A:N6	2.84	0.46
1:L5:3700:C:C2'	1:L5:3746:A:H61	2.16	0.46
1:L5:3720:G:C2'	1:L5:3721:U:H5'	2.45	0.46
1:L5:3823:G:H8	1:L5:3823:G:O5'	1.99	0.46
1:L5:3824:A:C2'	1:L5:3825:A:H5'	2.46	0.46
1:L5:4101:C:H2'	1:L5:4103:C:N4	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4477:A:H5'	1:L5:4478:G:OP2	2.15	0.46
1:L5:4916:G:H8	1:L5:4916:G:O5'	1.98	0.46
2:L7:82:G:C2	2:L7:83:A:C5	3.03	0.46
3:L8:75:G:C8	40:Ll:30:LYS:HG2	2.50	0.46
3:L8:108:A:C2	3:L8:109:C:N1	2.84	0.46
5:LB:116:ARG:HD3	5:LB:122:TRP:CD2	2.50	0.46
6:LC:27:VAL:CG2	6:LC:264:TYR:HB2	2.46	0.46
6:LC:169:LEU:O	6:LC:173:LYS:N	2.42	0.46
7:LD:183:TYR:HA	7:LD:190:PHE:HD1	1.81	0.46
9:LF:81:PHE:CD1	21:LS:63:TYR:HB2	2.51	0.46
17:LO:46:ASN:O	17:LO:49:ARG:HB3	2.16	0.46
20:LR:102:LEU:O	20:LR:106:LEU:HD13	2.16	0.46
20:LR:102:LEU:CD1	20:LR:127:VAL:HG13	2.43	0.46
21:LS:159:LEU:CD2	21:LS:172:PRO:HB2	2.44	0.46
22:LT:91:VAL:HG12	22:LT:92:ARG:O	2.16	0.46
24:LV:42:VAL:HB	24:LV:55:ALA:HB2	1.98	0.46
28:LZ:31:ASP:HA	28:LZ:39:SER:CB	2.46	0.46
28:LZ:112:ARG:HH12	28:LZ:116:VAL:CG1	2.29	0.46
29:La:148:ALA:HB2	37:Li:6:PRO:C	2.41	0.46
47:S2:338:G:C8	47:S2:339:A:C2	3.03	0.46
47:S2:932:G:OP2	49:SB:158:HIS:HB3	2.16	0.46
47:S2:951:C:C3'	47:S2:951:C:C6	2.99	0.46
47:S2:1258:A:H61	47:S2:1660:C:H1'	1.80	0.46
47:S2:1290:G:H2'	47:S2:1291:A:O4'	2.15	0.46
47:S2:1597:C:H3'	77:SZ:82:SER:CB	2.43	0.46
47:S2:1651:A:H1'	52:SF:83:ASN:ND2	2.30	0.46
48:SA:143:PRO:HB3	63:SV:32:ILE:HD13	1.98	0.46
49:SB:129:THR:CG2	49:SB:133:TYR:HB2	2.45	0.46
49:SB:197:ILE:CD1	49:SB:210:VAL:HG11	2.43	0.46
50:SD:38:GLU:H	50:SD:51:LEU:HD13	1.81	0.46
51:SE:101:LEU:HD12	51:SE:101:LEU:N	2.31	0.46
51:SE:114:ILE:HG22	51:SE:119:ALA:HB2	1.96	0.46
51:SE:185:GLY:HA2	51:SE:189:LEU:HD13	1.98	0.46
51:SE:252:ARG:HH22	71:SJ:72:PHE:HD1	1.62	0.46
52:SF:134:VAL:HG22	52:SF:134:VAL:O	2.16	0.46
53:SH:70:LYS:CE	53:SH:74:LYS:HG3	2.46	0.46
57:SP:56:LEU:O	57:SP:60:LEU:N	2.43	0.46
62:SU:32:LEU:O	62:SU:35:VAL:N	2.45	0.46
62:SU:49:LYS:HG2	62:SU:92:HIS:CD2	2.50	0.46
68:Sg:205:SER:O	68:Sg:221:LEU:HD13	2.15	0.46
68:Sg:239:LEU:CB	68:Sg:250:ALA:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:243:PRO:O	68:Sg:244:ASN:ND2	2.49	0.46
68:Sg:258:ILE:HD13	68:Sg:269:GLU:C	2.40	0.46
69:SC:209:VAL:HB	69:SC:236:PHE:CE2	2.51	0.46
70:SG:75:LEU:C	70:SG:75:LEU:HD12	2.41	0.46
70:SG:177:GLN:HG3	70:SG:178:ARG:N	2.31	0.46
70:SG:219:GLU:C	70:SG:222:GLU:HB3	2.40	0.46
71:SJ:38:ARG:CB	71:SJ:127:ARG:HH12	2.21	0.46
71:SJ:108:ARG:NH1	71:SJ:151:LEU:HA	2.30	0.46
73:SN:5:HIS:HB3	73:SN:117:LEU:HD21	1.98	0.46
75:SW:8:ALA:HA	75:SW:74:VAL:HG11	1.97	0.46
76:SY:117:VAL:HG11	76:SY:127:ALA:CB	2.45	0.46
77:SZ:72:VAL:O	77:SZ:75:GLU:HB3	2.15	0.46
78:Sb:23:ARG:NH2	78:Sb:29:ASN:OD1	2.49	0.46
1:L5:5:A:H2'	1:L5:6:C:H6	1.80	0.46
1:L5:51:A:N3	1:L5:1528:U:O2'	2.49	0.46
1:L5:97:G:H4'	1:L5:292:G:OP1	2.16	0.46
1:L5:171:U:O2'	1:L5:172:C:O5'	2.30	0.46
1:L5:301:G:C5	1:L5:302:C:C5	3.04	0.46
1:L5:350:C:C2	1:L5:351:C:C5	3.04	0.46
1:L5:707:C:N4	1:L5:1290:G:H1	2.13	0.46
1:L5:912:G:H2'	1:L5:913:U:C5'	2.36	0.46
1:L5:1465:G:C2'	1:L5:1466:G:H5'	2.46	0.46
1:L5:1833:G:N2	22:LT:125:TRP:CE2	2.83	0.46
1:L5:2297:G:H4'	6:LC:242:PRO:HB2	1.98	0.46
1:L5:2385:U:H5"	20:LR:5:ARG:HH11	1.81	0.46
1:L5:2660:A:H2'	1:L5:2660:A:N3	2.30	0.46
1:L5:3626:G:C2	1:L5:3627:G:C8	3.04	0.46
1:L5:3651:A:OP1	4:LA:200:ARG:HG3	2.15	0.46
1:L5:3826:C:C6	1:L5:3826:C:C3'	2.99	0.46
1:L5:4332:C:O2'	22:LT:49:GLN:HG3	2.15	0.46
1:L5:4530:U:H2'	1:L5:4531:U:C5	2.51	0.46
1:L5:4569:U:OP1	1:L5:4982:A:H1'	2.16	0.46
1:L5:4575:G:H3'	1:L5:4575:G:OP1	2.16	0.46
1:L5:4626:A:N3	1:L5:4626:A:H2'	2.31	0.46
1:L5:4933:C:H2'	1:L5:4934:A:C8	2.51	0.46
1:L5:4974:C:O2	1:L5:4985:U:N3	2.48	0.46
2:L7:60:G:OP1	7:LD:270:LYS:HD3	2.15	0.46
2:L7:103:A:H3'	2:L7:104:C:H5'	1.97	0.46
4:LA:77:ILE:HD11	4:LA:128:ARG:HD2	1.95	0.46
4:LA:133:TYR:HB3	4:LA:168:VAL:HG12	1.98	0.46
6:LC:11:TYR:CE1	6:LC:17:SER:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LD:93:THR:O	7:LD:158:LYS:NZ	2.36	0.46
15:LM:24:LEU:HD11	15:LM:86:TRP:CD2	2.51	0.46
16:LN:160:GLU:HG2	16:LN:161:MET:HG3	1.98	0.46
17:LO:46:ASN:OD1	17:LO:49:ARG:HB2	2.15	0.46
19:LQ:62:SER:HA	19:LQ:87:THR:O	2.16	0.46
19:LQ:79:THR:HG21	19:LQ:99:LYS:HE2	1.98	0.46
20:LR:51:ILE:HG22	20:LR:53:LYS:N	2.30	0.46
24:LV:13:LYS:CG	24:LV:128:LEU:HD21	2.45	0.46
24:LV:14:PHE:CD2	24:LV:91:LYS:HD3	2.51	0.46
24:LV:90:ARG:CD	24:LV:123:LYS:HD3	2.45	0.46
25:LW:56:ARG:HE	25:LW:61:LYS:HG3	1.81	0.46
26:LX:87:MET:O	26:LX:90:ILE:HB	2.16	0.46
28:LZ:9:LYS:HG3	28:LZ:86:SER:OG	2.16	0.46
29:La:21:ARG:NH2	33:Le:41:ILE:CG2	2.79	0.46
29:La:79:TRP:CZ2	29:La:122:VAL:CG1	2.99	0.46
31:Lc:21:VAL:HG11	31:Lc:96:ILE:HG23	1.97	0.46
34:Lf:94:ALA:O	34:Lf:97:ILE:HG22	2.15	0.46
45:Lr:53:PRO:HD3	45:Lr:117:ILE:CD1	2.46	0.46
47:S2:879:C:N3	47:S2:881:G:N1	2.64	0.46
47:S2:914:U:O2'	47:S2:915:G:H5'	2.16	0.46
47:S2:969:U:OP1	47:S2:970:G:H2'	2.16	0.46
47:S2:1092:G:N2	47:S2:1093:A:C2	2.84	0.46
47:S2:1170:A:H4'	47:S2:1171:G:OP1	2.16	0.46
47:S2:1198:G:C6	47:S2:1199:A:C6	3.04	0.46
47:S2:1236:G:H2'	47:S2:1237:C:H6	1.79	0.46
47:S2:1309:C:H6	47:S2:1309:C:H3'	1.81	0.46
47:S2:1334:G:O2'	47:S2:1335:G:H5'	2.16	0.46
47:S2:1549:U:H5"	67:Sd:34:TYR:OH	2.16	0.46
47:S2:1550:G:N3	47:S2:1550:G:H2'	2.30	0.46
47:S2:1594:A:C8	77:SZ:104:ARG:HD3	2.50	0.46
47:S2:1597:C:H2'	47:S2:1598:G:C8	2.50	0.46
48:SA:50:ASN:ND2	48:SA:53:ARG:NH1	2.63	0.46
50:SD:40:ARG:HD2	50:SD:49:ILE:CD1	2.46	0.46
50:SD:74:GLN:OE1	50:SD:81:GLU:HA	2.16	0.46
53:SH:157:HIS:HB3	53:SH:190:PRO:HG2	1.97	0.46
55:SK:35:LEU:HD11	55:SK:38:LYS:CB	2.44	0.46
61:ST:13:GLU:OE1	61:ST:13:GLU:N	2.48	0.46
62:SU:28:ASN:HB3	62:SU:31:SER:OG	2.16	0.46
64:SX:50:ILE:HG22	64:SX:51:VAL:O	2.16	0.46
64:SX:124:LYS:O	64:SX:124:LYS:HG2	2.16	0.46
65:Sa:21:ILE:HG13	65:Sa:22:ARG:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:6:THR:N	68:Sg:311:GLN:O	2.45	0.46
68:Sg:147:HIS:CD2	68:Sg:171:ASP:HB2	2.51	0.46
68:Sg:178:ASN:HB2	68:Sg:183:LYS:HB3	1.97	0.46
68:Sg:270:LEU:HD22	68:Sg:310:TRP:HE1	1.81	0.46
70:SG:141:ILE:O	70:SG:144:LEU:HB3	2.16	0.46
77:SZ:71:ALA:O	77:SZ:74:SER:OG	2.21	0.46
1:L5:124:C:H4'	16:LN:141:ALA:HB2	1.98	0.46
1:L5:155:C:H5"	1:L5:156:G:OP2	2.15	0.46
1:L5:180:C:H42	1:L5:255:C:N4	2.14	0.46
1:L5:305:A:H5'	37:Li:76:ARG:O	2.15	0.46
1:L5:453:G:O3'	1:L5:454:U:H4'	2.16	0.46
1:L5:462:G:N1	1:L5:694:C:N3	2.64	0.46
1:L5:665:C:C2	1:L5:667:A:N6	2.84	0.46
1:L5:958:G:O2'	1:L5:959:G:P	2.74	0.46
1:L5:1092:G:H1'	1:L5:1205:G:N2	2.30	0.46
1:L5:1723:A:H3'	1:L5:1724:G:C5'	2.46	0.46
1:L5:1764:G:C3'	1:L5:1765:A:H5"	2.46	0.46
1:L5:1864:G:H2'	1:L5:1865:G:H5'	1.98	0.46
1:L5:2025:A:H1'	1:L5:2026:A:C4'	2.46	0.46
1:L5:2404:A:H2	38:Lj:12:ARG:HG2	1.80	0.46
1:L5:2444:U:O2'	3:L8:112:G:H4'	2.15	0.46
1:L5:2503:G:O2'	1:L5:2504:C:OP1	2.31	0.46
1:L5:2549:G:H2'	1:L5:2550:G:H8	1.79	0.46
1:L5:2632:U:N3	1:L5:2633:U:O4	2.49	0.46
1:L5:2876:G:OP1	44:Lp:5:THR:HB	2.16	0.46
1:L5:3615:G:H1'	25:LW:44:ARG:HD2	1.98	0.46
1:L5:3650:C:N4	1:L5:3651:A:N1	2.64	0.46
1:L5:3895:G:N2	1:L5:4566:U:C2	2.84	0.46
1:L5:4064:C:H2'	1:L5:4065:G:H8	1.79	0.46
3:L8:25:G:N2	3:L8:26:C:H1'	2.31	0.46
3:L8:71:A:H4'	3:L8:72:A:O5'	2.16	0.46
3:L8:103:A:C8	3:L8:104:A:C8	3.04	0.46
3:L8:103:A:O5'	3:L8:104:A:H5"	2.16	0.46
3:L8:106:G:C2	3:L8:107:C:C2	3.04	0.46
4:LA:242:ARG:HG2	4:LA:242:ARG:O	2.15	0.46
6:LC:365:SER:C	6:LC:368:LYS:H	2.24	0.46
7:LD:50:ARG:O	7:LD:64:ILE:HG23	2.15	0.46
7:LD:52:ILE:HA	7:LD:147:ASP:HB3	1.97	0.46
8:LE:192:LYS:O	34:Lf:108:SER:HB3	2.16	0.46
8:LE:213:THR:O	8:LE:216:TYR:HB3	2.15	0.46
8:LE:246:ARG:O	8:LE:249:ASP:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:LF:30:ILE:HG13	9:LF:31:LYS:N	2.31	0.46
9:LF:95:ILE:HD13	9:LF:223:LYS:CG	2.38	0.46
10:LG:96:LEU:C	10:LG:96:LEU:HD12	2.41	0.46
10:LG:208:ASN:HB2	10:LG:210:GLU:OE2	2.15	0.46
10:LG:218:LEU:O	10:LG:222:ILE:HG12	2.16	0.46
13:LJ:75:ARG:O	13:LJ:79:ALA:HB2	2.16	0.46
14:LL:81:LEU:CD2	14:LL:86:ILE:HD11	2.46	0.46
18:LP:30:ARG:O	18:LP:33:ALA:N	2.48	0.46
18:LP:60:PHE:O	18:LP:78:TRP:HH2	1.99	0.46
21:LS:45:TRP:HH2	21:LS:59:GLY:C	2.23	0.46
21:LS:84:TYR:CZ	21:LS:113:MET:HE1	2.51	0.46
22:LT:149:GLU:HG3	22:LT:150:LEU:O	2.15	0.46
23:LU:49:VAL:HG11	23:LU:57:GLY:HA3	1.97	0.46
24:LV:121:VAL:HG12	24:LV:122:ALA:N	2.31	0.46
27:LY:47:MET:HE3	27:LY:48:PRO:HD2	1.97	0.46
27:LY:80:ILE:HD11	27:LY:101:PRO:HG3	1.98	0.46
28:LZ:108:ARG:O	28:LZ:112:ARG:N	2.49	0.46
31:Lc:50:ASN:HB2	31:Lc:76:GLY:H	1.81	0.46
32:Ld:119:THR:HG22	32:Ld:120:VAL:N	2.30	0.46
36:Lh:4:ILE:HG22	36:Lh:5:LYS:N	2.30	0.46
36:Lh:105:LYS:HA	36:Lh:108:GLN:HB2	1.97	0.46
42:Ln:5:TRP:CE3	42:Ln:5:TRP:HA	2.50	0.46
47:S2:84:A:H4'	76:SY:124:ASN:HD22	1.79	0.46
47:S2:192:C:H2'	47:S2:193:C:C5'	2.43	0.46
47:S2:368:U:H5"	47:S2:370:G:OP2	2.15	0.46
47:S2:842:C:O2'	47:S2:843:C:H5'	2.15	0.46
47:S2:862:A:H1'	75:SW:106:THR:O	2.15	0.46
47:S2:1175:G:H21	47:S2:1176:G:H1'	1.79	0.46
47:S2:1279:C:H2'	47:S2:1280:G:C4'	2.45	0.46
47:S2:1331:C:O2'	47:S2:1332:A:OP2	2.28	0.46
47:S2:1365:G:H2'	47:S2:1366:G:O4'	2.16	0.46
47:S2:1409:A:C4	47:S2:1410:C:H5	2.34	0.46
47:S2:1493:C:H5"	47:S2:1494:U:O5'	2.16	0.46
47:S2:1540:G:C4	47:S2:1541:G:C8	3.03	0.46
47:S2:1587:G:OP1	47:S2:1587:G:N2	2.36	0.46
47:S2:1588:A:O2'	47:S2:1589:A:OP2	2.31	0.46
47:S2:1707:U:C2'	47:S2:1708:C:H5'	2.46	0.46
47:S2:1774:C:H2'	47:S2:1775:U:O4'	2.16	0.46
50:SD:5:ILE:HG22	50:SD:6:SER:O	2.16	0.46
50:SD:67:ARG:HH21	55:SK:95:ARG:HA	1.81	0.46
50:SD:141:LYS:HB2	50:SD:179:GLN:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:139:LEU:CD2	51:SE:154:ILE:HD11	2.46	0.46
52:SF:46:ALA:O	52:SF:47:LYS:HG3	2.15	0.46
52:SF:74:ASN:O	52:SF:77:MET:HG2	2.16	0.46
52:SF:169:ILE:HG22	52:SF:169:ILE:O	2.16	0.46
52:SF:173:LEU:HD12	52:SF:173:LEU:C	2.40	0.46
53:SH:65:PRO:C	53:SH:67:PRO:HD2	2.41	0.46
54:SI:6:ASP:HB3	54:SI:28:GLU:HG3	1.96	0.46
57:SP:64:LYS:O	57:SP:67:ALA:HB3	2.16	0.46
57:SP:78:THR:OG1	57:SP:100:LYS:NZ	2.49	0.46
57:SP:83:MET:HG2	57:SP:85:ILE:H	1.81	0.46
58:SQ:25:CYS:SG	58:SQ:91:ALA:HB1	2.55	0.46
58:SQ:51:LEU:O	58:SQ:51:LEU:HD23	2.16	0.46
59:SR:37:GLU:CD	68:Sg:150:TRP:HE1	2.22	0.46
62:SU:19:ARG:H	62:SU:117:ALA:CB	2.22	0.46
63:SV:65:SER:O	63:SV:68:SER:OG	2.26	0.46
64:SX:84:PHE:O	64:SX:121:LYS:HA	2.16	0.46
67:Sd:36:LEU:HG	67:Sd:38:MET:CG	2.46	0.46
67:Sd:46:TYR:O	67:Sd:50:ILE:HG13	2.15	0.46
68:Sg:282:GLU:N	68:Sg:283:PRO:HD3	2.30	0.46
70:SG:48:TYR:OH	70:SG:113:ILE:HA	2.16	0.46
70:SG:84:TYR:HE2	70:SG:86:PRO:HB3	1.81	0.46
70:SG:195:LYS:HG2	70:SG:198:ARG:NH1	2.31	0.46
72:SM:54:SER:CB	72:SM:78:LYS:HZ1	2.28	0.46
72:SM:96:ARG:CD	72:SM:100:PRO:HD3	2.45	0.46
74:SO:45:THR:HG22	74:SO:52:THR:HG22	1.97	0.46
75:SW:102:ILE:O	75:SW:113:HIS:HB3	2.16	0.46
77:SZ:81:GLY:O	77:SZ:84:ALA:HB3	2.15	0.46
78:Sb:55:LEU:HD23	78:Sb:56:CYS:O	2.15	0.46
1:L5:301:G:C4	1:L5:302:C:C5	3.04	0.46
1:L5:460:C:H4'	8:LE:110:ARG:HH11	1.81	0.46
1:L5:460:C:H5"	1:L5:461:G:OP2	2.16	0.46
1:L5:731:G:C6	1:L5:939:G:N2	2.84	0.46
1:L5:734:G:H5'	15:LM:70:GLN:OE1	2.16	0.46
1:L5:1406:G:H3'	1:L5:1407:C:H5"	1.98	0.46
1:L5:1532:G:O2'	1:L5:1637:A:N6	2.43	0.46
1:L5:1733:G:N2	1:L5:1797:G:C2	2.84	0.46
1:L5:1973:G:H2'	1:L5:1973:G:N3	2.31	0.46
1:L5:2458:C:C2'	1:L5:2459:G:H5'	2.45	0.46
1:L5:2526:C:O2	1:L5:2526:C:H2'	2.16	0.46
1:L5:2759:G:C2'	1:L5:2760:G:H5'	2.46	0.46
1:L5:2881:A:N3	1:L5:2881:A:H2'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2884:G:N2	1:L5:2885:A:C4	2.84	0.46
1:L5:3730:U:H3'	1:L5:3730:U:C6	2.50	0.46
1:L5:3771:C:H3'	1:L5:3771:C:O2	2.16	0.46
1:L5:3824:A:O2'	1:L5:3825:A:H5'	2.16	0.46
1:L5:3961:G:H5'	1:L5:3962:A:H4'	1.97	0.46
1:L5:4312:U:O3'	22:LT:51:GLY:HA2	2.16	0.46
1:L5:4357:G:N2	1:L5:4358:U:O2	2.49	0.46
1:L5:4409:C:O5'	1:L5:4409:C:H6	1.99	0.46
1:L5:4542:U:H5"	1:L5:4543:G:OP2	2.16	0.46
1:L5:4552:U:O2'	1:L5:4553:A:H5'	2.16	0.46
1:L5:4607:A:C6	1:L5:4608:G:H1'	2.50	0.46
1:L5:4735:G:C2'	1:L5:4736:C:H5'	2.46	0.46
1:L5:4897:G:C6	1:L5:4923:C:N4	2.84	0.46
2:L7:43:U:H2'	2:L7:44:C:H5'	1.98	0.46
2:L7:45:U:C2'	2:L7:46:C:H5'	2.47	0.46
3:L8:111:U:O2	3:L8:111:U:C2'	2.63	0.46
4:LA:30:ARG:HG2	4:LA:31:ALA:O	2.15	0.46
5:LB:113:GLU:OE1	5:LB:113:GLU:N	2.38	0.46
5:LB:171:LEU:HB3	5:LB:172:PRO:HD2	1.98	0.46
5:LB:293:ILE:CA	5:LB:297:LYS:HA	2.46	0.46
5:LB:371:THR:HG21	25:LW:17:HIS:NE2	2.31	0.46
7:LD:233:PRO:O	7:LD:234:ASP:CB	2.64	0.46
8:LE:141:ARG:NH2	8:LE:196:ALA:H	2.14	0.46
13:LJ:96:LYS:HE2	13:LJ:163:MET:SD	2.55	0.46
15:LM:30:VAL:HG12	15:LM:31:ILE:N	2.30	0.46
15:LM:127:VAL:O	15:LM:131:GLN:HG2	2.16	0.46
23:LU:96:LEU:O	23:LU:100:LEU:HB2	2.16	0.46
28:LZ:76:ASN:ND2	28:LZ:78:ASN:HD22	2.14	0.46
31:Lc:47:ILE:CD1	31:Lc:94:LEU:HD11	2.20	0.46
37:Li:21:VAL:O	37:Li:21:VAL:HG12	2.16	0.46
38:Lj:47:TYR:CB	38:Lj:49:TRP:NE1	2.79	0.46
46:Lz:116:LEU:CD2	46:Lz:124:LEU:HD13	2.42	0.46
47:S2:31:U:O2'	47:S2:595:U:H4'	2.16	0.46
47:S2:173:A:C5	47:S2:174:C:C4	3.04	0.46
47:S2:524:U:H5"	47:S2:525:A:O4'	2.16	0.46
47:S2:604:A:C2	47:S2:605:A:C2	3.03	0.46
47:S2:676:C:H2'	47:S2:677:G:C5'	2.46	0.46
47:S2:822:U:H3	47:S2:826:A:H62	1.64	0.46
47:S2:927:C:H2'	47:S2:928:G:C8	2.44	0.46
47:S2:951:C:H2'	47:S2:952:G:H5'	1.97	0.46
47:S2:1421:A:H5'	61:ST:2:PRO:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1537:A:C2'	47:S2:1538:C:H5'	2.46	0.46
47:S2:1589:A:H1'	47:S2:1654:G:O4'	2.16	0.46
47:S2:1676:U:H5'	52:SF:74:ASN:HB3	1.97	0.46
47:S2:1746:U:H4'	70:SG:65:GLN:HE22	1.81	0.46
50:SD:39:VAL:HG22	50:SD:40:ARG:N	2.31	0.46
50:SD:225:GLU:O	68:Sg:186:THR:OG1	2.27	0.46
51:SE:9:LEU:CD2	51:SE:28:ALA:HB3	2.46	0.46
51:SE:91:SER:O	51:SE:92:ILE:HD13	2.16	0.46
51:SE:136:ILE:HB	51:SE:137:PRO:HD2	1.98	0.46
53:SH:65:PRO:O	53:SH:68:GLN:NE2	2.49	0.46
53:SH:127:ASP:O	53:SH:131:GLU:HB2	2.16	0.46
55:SK:24:LYS:CG	55:SK:26:ASP:HB2	2.46	0.46
58:SQ:90:LYS:HG2	58:SQ:120:LEU:HA	1.98	0.46
59:SR:126:MET:CG	59:SR:128:PHE:HD1	2.25	0.46
62:SU:91:LEU:CD1	62:SU:98:VAL:HG21	2.46	0.46
62:SU:99:LYS:O	62:SU:102:THR:OG1	2.24	0.46
64:SX:112:VAL:HG12	64:SX:113:GLY:N	2.31	0.46
64:SX:132:ALA:CB	64:SX:138:LYS:HG3	2.46	0.46
65:Sa:41:ILE:HG13	65:Sa:68:TYR:CE1	2.51	0.46
68:Sg:106:LYS:HD2	68:Sg:126:ASP:HB2	1.99	0.46
68:Sg:191:HIS:HA	68:Sg:215:GLN:HB2	1.97	0.46
68:Sg:191:HIS:ND1	68:Sg:195:LEU:HD21	2.31	0.46
69:SC:264:SER:O	69:SC:266:TYR:N	2.47	0.46
69:SC:271:ASP:OD1	69:SC:272:HIS:N	2.49	0.46
69:SC:274:VAL:HG13	69:SC:275:LYS:H	1.81	0.46
70:SG:216:ARG:HD3	70:SG:223:LYS:HZ2	1.81	0.46
71:SJ:19:PRO:O	71:SJ:20:PHE:HB2	2.16	0.46
72:SM:51:VAL:HG11	72:SM:109:VAL:HG23	1.97	0.46
74:SO:93:LEU:HD12	74:SO:95:ILE:HD11	1.97	0.46
79:Se:37:GLN:O	79:Se:40:ARG:HB2	2.16	0.46
1:L5:6:C:O2'	1:L5:7:C:H5'	2.17	0.45
1:L5:17:A:N3	1:L5:17:A:H2'	2.31	0.45
1:L5:85:G:C6	14:LL:13:HIS:ND1	2.84	0.45
1:L5:160:G:H2'	1:L5:161:G:H5'	1.97	0.45
1:L5:317:A:C2	1:L5:318:A:C4	3.04	0.45
1:L5:337:U:C2'	1:L5:338:A:H5'	2.47	0.45
1:L5:455:C:N4	1:L5:701:G:N2	2.63	0.45
1:L5:681:G:H2'	1:L5:682:G:C8	2.51	0.45
1:L5:972:C:N3	1:L5:973:G:N1	2.64	0.45
1:L5:984:C:C2	1:L5:1070:G:C2	3.04	0.45
1:L5:1234:G:C6	1:L5:1235:G:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1253:G:O2'	1:L5:1254:A:OP1	2.28	0.45
1:L5:1280:C:C2'	1:L5:1281:G:H5"	2.46	0.45
1:L5:1498:G:C2	1:L5:1499:C:C5	3.04	0.45
1:L5:1521:C:O2'	1:L5:1522:G:H5'	2.16	0.45
1:L5:1957:U:H2'	1:L5:1958:A:O4'	2.16	0.45
1:L5:2263:A:O2'	1:L5:2265:G:H8	1.97	0.45
1:L5:2459:G:H1'	1:L5:2463:G:H22	1.81	0.45
1:L5:2748:C:H2'	1:L5:2749:C:O4'	2.16	0.45
1:L5:2817:C:C6	1:L5:2817:C:C3'	2.99	0.45
1:L5:3659:G:C6	1:L5:3686:G:C6	3.05	0.45
1:L5:3661:G:N2	1:L5:3681:G:O2'	2.48	0.45
1:L5:3819:G:O2'	1:L5:3820:G:H5'	2.16	0.45
1:L5:4224:A:N6	1:L5:4225:G:O6	2.49	0.45
1:L5:4269:G:H8	1:L5:4269:G:O5'	1.99	0.45
1:L5:4292:A:H5'	1:L5:4330:G:O4'	2.16	0.45
1:L5:4379:A:C8	43:Lo:54:PRO:HB3	2.52	0.45
1:L5:4627:U:H5'	5:LB:53:MET:HB2	1.97	0.45
1:L5:4701:A:N1	11:LH:76:HIS:NE2	2.52	0.45
1:L5:4911:A:P	5:LB:97:ARG:HH12	2.39	0.45
1:L5:5004:C:O2'	1:L5:5005:G:H5'	2.16	0.45
1:L5:5012:G:O2'	1:L5:5013:C:H3'	2.16	0.45
4:LA:95:GLN:OE1	44:Lp:87:LYS:HD2	2.16	0.45
5:LB:19:ARG:CG	5:LB:275:HIS:CE1	2.99	0.45
7:LD:51:MET:HA	7:LD:64:ILE:HD13	1.98	0.45
8:LE:106:VAL:HG12	8:LE:106:VAL:O	2.16	0.45
8:LE:247:LYS:O	8:LE:250:GLN:HB3	2.16	0.45
8:LE:287:VAL:HG21	15:LM:104:MET:O	2.15	0.45
9:LF:53:LYS:C	9:LF:56:HIS:H	2.24	0.45
13:LJ:120:ASP:OD1	13:LJ:123:ILE:HG12	2.15	0.45
13:LJ:175:LEU:HD12	13:LJ:175:LEU:C	2.41	0.45
14:LL:18:TRP:CE3	16:LN:198:LEU:HD13	2.51	0.45
19:LQ:151:HIS:ND1	19:LQ:164:LYS:O	2.35	0.45
21:LS:137:CYS:HB2	21:LS:143:LYS:HZ3	1.79	0.45
23:LU:60:VAL:CG1	23:LU:76:VAL:HG22	2.46	0.45
23:LU:107:LYS:O	23:LU:108:GLU:HB2	2.16	0.45
27:LY:49:ILE:HG21	27:LY:80:ILE:HD11	1.99	0.45
28:LZ:3:LYS:HG2	31:Lc:40:GLN:C	2.41	0.45
37:Li:66:ASP:O	37:Li:69:ALA:N	2.49	0.45
46:Lz:50:SER:OG	46:Lz:138:LEU:HD13	2.16	0.45
46:Lz:95:LYS:NZ	46:Lz:126:PRO:HB2	2.31	0.45
46:Lz:124:LEU:HD23	46:Lz:128:LEU:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:34:U:H4'	47:S2:564:A:H4'	1.98	0.45
47:S2:330:G:H8	47:S2:330:G:OP2	1.98	0.45
47:S2:380:G:H5"	54:SI:54:LYS:HZ2	1.80	0.45
47:S2:505:G:OP1	76:SY:107:ARG:NH1	2.49	0.45
47:S2:815:U:H2'	47:S2:816:A:C5'	2.46	0.45
47:S2:1103:C:H2'	47:S2:1104:G:H8	1.81	0.45
47:S2:1129:G:C6	47:S2:1130:G:N1	2.83	0.45
47:S2:1263:U:H3'	47:S2:1264:C:C5'	2.46	0.45
47:S2:1297:U:H3'	47:S2:1299:A:OP2	2.15	0.45
47:S2:1425:G:H5"	47:S2:1426:U:H5	1.80	0.45
47:S2:1427:C:C3'	47:S2:1428:G:H5"	2.42	0.45
47:S2:1511:U:N3	47:S2:1512:C:C4	2.84	0.45
47:S2:1521:C:H2'	60:SS:136:THR:HG21	1.97	0.45
47:S2:1538:C:O2'	47:S2:1539:U:O5'	2.34	0.45
47:S2:1553:C:H4'	47:S2:1554:C:C6	2.51	0.45
50:SD:118:ALA:O	50:SD:122:VAL:HG23	2.16	0.45
50:SD:119:CYS:CB	50:SD:152:PHE:CD2	2.99	0.45
50:SD:216:GLU:O	50:SD:217:ILE:HG13	2.16	0.45
51:SE:47:PHE:HZ	51:SE:99:PHE:CE2	2.35	0.45
53:SH:192:PHE:C	53:SH:193:GLN:HG3	2.41	0.45
54:SI:79:ILE:HG22	54:SI:103:LEU:C	2.41	0.45
54:SI:161:LEU:HD22	54:SI:196:GLU:OE2	2.15	0.45
58:SQ:109:LYS:O	58:SQ:112:LEU:HB2	2.16	0.45
59:SR:69:ILE:HG21	59:SR:74:GLN:OE1	2.15	0.45
60:SS:26:ILE:HG23	60:SS:30:ILE:HD11	1.97	0.45
61:ST:5:THR:HG22	61:ST:8:ASP:HB2	1.98	0.45
61:ST:18:LEU:HD11	61:ST:131:LEU:CD1	2.38	0.45
63:SV:3:ASN:OD1	63:SV:7:GLU:HB2	2.15	0.45
68:Sg:198:VAL:HG13	68:Sg:198:VAL:O	2.16	0.45
68:Sg:261:LEU:O	68:Sg:261:LEU:HD12	2.15	0.45
69:SC:209:VAL:HB	69:SC:210:PRO:CD	2.45	0.45
70:SG:19:ASP:OD2	70:SG:22:ARG:NH1	2.49	0.45
70:SG:209:TYR:HA	70:SG:212:LEU:HB3	1.98	0.45
71:SJ:100:LEU:HD23	71:SJ:105:PHE:HZ	1.81	0.45
71:SJ:122:SER:O	71:SJ:126:ALA:N	2.43	0.45
72:SM:17:ALA:CB	72:SM:124:ILE:HG22	2.46	0.45
75:SW:81:VAL:HG21	75:SW:125:ILE:CG1	2.46	0.45
78:Sb:5:LYS:CG	78:Sb:6:ASP:H	2.26	0.45
1:L5:400:A:H4'	18:LP:16:LYS:O	2.17	0.45
1:L5:956:A:H3'	1:L5:957:G:C4	2.51	0.45
1:L5:1211:G:H2'	1:L5:1212:G:H8	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1405:C:C5	1:L5:1408:G:H5'	2.51	0.45
1:L5:1954:U:O2'	1:L5:1955:G:H5'	2.16	0.45
1:L5:2036:C:O2'	1:L5:2037:C:H5'	2.16	0.45
1:L5:2590:G:H1'	1:L5:2756:G:H22	1.80	0.45
1:L5:2743:A:C2	1:L5:2744:A:C5	3.05	0.45
1:L5:2760:G:H4'	1:L5:2761:U:O5'	2.16	0.45
1:L5:2831:G:H2'	1:L5:2832:A:O4'	2.16	0.45
1:L5:2904:U:C4	1:L5:3592:G:H4'	2.51	0.45
1:L5:3638:G:H2'	1:L5:3639:U:H5'	1.96	0.45
1:L5:3662:A:C4'	1:L5:3663:A:H5"	2.46	0.45
1:L5:3923:A:C4	1:L5:4381:A:N7	2.84	0.45
1:L5:3971:G:H2'	1:L5:3972:A:H4'	1.97	0.45
1:L5:4238:G:C2'	1:L5:4239:A:H5'	2.47	0.45
1:L5:4278:C:H1'	1:L5:4282:A:N7	2.31	0.45
1:L5:4674:C:H2'	1:L5:4675:U:C5	2.51	0.45
1:L5:4691:A:H5'	11:LH:71:ARG:NH1	2.31	0.45
1:L5:4761:G:N2	1:L5:4765:G:O4'	2.46	0.45
1:L5:4888:U:O2	1:L5:4932:U:H1'	2.17	0.45
1:L5:4920:C:H3'	1:L5:4921:C:H6	1.81	0.45
1:L5:4994:G:O2'	1:L5:4995:U:H5'	2.15	0.45
2:L7:38:U:H2'	2:L7:40:U:OP2	2.17	0.45
3:L8:117:C:H5'	26:LX:55:ARG:CZ	2.46	0.45
4:LA:116:LEU:H	4:LA:164:ALA:CB	2.29	0.45
5:LB:56:ILE:HG22	5:LB:368:ILE:CD1	2.43	0.45
5:LB:247:GLY:C	5:LB:248:LEU:HD12	2.41	0.45
6:LC:94:ASN:OD1	6:LC:95:MET:N	2.50	0.45
6:LC:325:MET:HE3	6:LC:329:ASN:HD22	1.81	0.45
8:LE:258:LEU:HD23	8:LE:258:LEU:C	2.42	0.45
10:LG:121:LYS:NZ	10:LG:127:ASP:O	2.27	0.45
10:LG:143:VAL:HA	10:LG:146:LEU:CB	2.46	0.45
11:LH:6:SER:HB2	11:LH:59:LYS:CB	2.46	0.45
12:LI:143:GLN:HG3	12:LI:144:ASN:CG	2.41	0.45
12:LI:181:PHE:CE1	12:LI:197:VAL:HG21	2.45	0.45
13:LJ:87:LEU:HD12	13:LJ:87:LEU:N	2.31	0.45
13:LJ:90:ARG:O	13:LJ:91:GLU:HG2	2.15	0.45
14:LL:110:LEU:O	14:LL:110:LEU:HD23	2.16	0.45
16:LN:65:ARG:HD2	16:LN:127:TYR:CZ	2.52	0.45
24:LV:139:ILE:O	24:LV:140:ALA:HB2	2.17	0.45
26:LX:77:ILE:HD11	26:LX:112:ALA:CB	2.46	0.45
29:La:128:PHE:N	29:La:128:PHE:CD1	2.83	0.45
46:Lz:20:GLY:O	46:Lz:23:ARG:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:208:SER:O	46:Lz:209:THR:HB	2.16	0.45
47:S2:66:G:C4	47:S2:83:A:C2	3.04	0.45
47:S2:166:A:H4'	70:SG:6:SER:HB2	1.99	0.45
47:S2:318:A:N1	47:S2:333:G:C6	2.84	0.45
47:S2:322:C:N3	47:S2:323:C:H5	2.14	0.45
47:S2:423:U:H2'	47:S2:424:C:H5'	1.98	0.45
47:S2:686:U:O5'	47:S2:686:U:H6	1.99	0.45
47:S2:698:G:C6	47:S2:731:G:H2'	2.51	0.45
47:S2:1219:C:H4'	66:Sc:24:GLN:CD	2.41	0.45
47:S2:1298:G:H8	57:SP:80:LEU:H	1.64	0.45
47:S2:1309:C:OP1	80:Sf:118:ARG:HG3	2.16	0.45
47:S2:1321:G:H2'	47:S2:1322:G:C1'	2.46	0.45
47:S2:1533:A:N7	47:S2:1604:G:H1'	2.32	0.45
47:S2:1680:G:O2'	47:S2:1681:U:H5'	2.16	0.45
47:S2:1698:C:HO2'	47:S2:1699:A:P	2.34	0.45
50:SD:40:ARG:O	50:SD:46:THR:HB	2.16	0.45
51:SE:208:VAL:N	51:SE:220:THR:O	2.49	0.45
54:SI:65:PHE:HA	54:SI:187:GLY:O	2.17	0.45
54:SI:158:ILE:HD11	54:SI:163:GLU:HB2	1.98	0.45
56:SL:60:CYS:O	56:SL:64:GLY:N	2.49	0.45
56:SL:94:HIS:ND1	56:SL:103:GLU:OE2	2.49	0.45
57:SP:15:PHE:O	57:SP:16:THR:OG1	2.33	0.45
58:SQ:90:LYS:CG	58:SQ:120:LEU:HA	2.45	0.45
58:SQ:93:VAL:O	58:SQ:97:GLN:HG2	2.16	0.45
58:SQ:106:LYS:HG3	58:SQ:107:GLU:N	2.31	0.45
58:SQ:117:ARG:O	58:SQ:118:THR:OG1	2.23	0.45
62:SU:55:ARG:HD2	62:SU:87:ARG:NH1	2.31	0.45
62:SU:66:ARG:HB3	67:Sd:40:ARG:NH1	2.31	0.45
64:SX:68:LYS:HG2	64:SX:91:LEU:HD22	1.97	0.45
65:Sa:7:ASN:HD21	65:Sa:10:ARG:C	2.23	0.45
68:Sg:32:LEU:C	68:Sg:32:LEU:HD12	2.41	0.45
68:Sg:149:GLU:CG	68:Sg:150:TRP:H	2.30	0.45
72:SM:51:VAL:HA	72:SM:77:ILE:HG22	1.99	0.45
74:SO:14:VAL:H	74:SO:15:ILE:CB	2.29	0.45
79:Se:58:ASN:O	79:Se:59:SER:OG	2.19	0.45
1:L5:61:A:O2'	16:LN:186:GLY:O	2.33	0.45
1:L5:724:C:N4	1:L5:942:G:H1	2.13	0.45
1:L5:1240:G:H3'	1:L5:1271:G:O2'	2.16	0.45
1:L5:1267:C:N4	1:L5:1271:G:O6	2.49	0.45
1:L5:1547:A:H2'	1:L5:1548:G:H5'	1.98	0.45
1:L5:1564:A:H5'	73:SN:123:HIS:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1602:U:OP1	38:Lj:2:THR:OG1	2.28	0.45
1:L5:1882:U:H4'	1:L5:1883:G:OP1	2.15	0.45
1:L5:1986:U:H5"	1:L5:2008:U:N3	2.26	0.45
1:L5:2038:U:H2'	1:L5:2039:G:O4'	2.17	0.45
1:L5:2078:C:P	33:Le:64:LYS:HZ3	2.39	0.45
1:L5:2290:C:O2	1:L5:2321:G:O2'	2.20	0.45
1:L5:2556:G:H2'	1:L5:2557:G:C8	2.50	0.45
1:L5:2743:A:H1'	4:LA:21:LYS:HZ3	1.81	0.45
1:L5:2753:G:H5'	28:LZ:135:ARG:NH1	2.28	0.45
1:L5:3635:A:N6	44:Lp:18:TYR:HA	2.30	0.45
1:L5:3706:C:O2'	1:L5:3707:U:H5'	2.16	0.45
1:L5:3865:A:C6	1:L5:3866:C:N4	2.84	0.45
1:L5:3936:A:C2	1:L5:4175:G:C2	3.04	0.45
1:L5:3943:A:C2'	1:L5:3944:G:H5'	2.46	0.45
1:L5:3961:G:C5'	1:L5:3962:A:H4'	2.46	0.45
1:L5:4523:A:C5	1:L5:4559:A:C6	3.05	0.45
1:L5:4586:G:H2'	1:L5:4587:G:H5'	1.98	0.45
1:L5:4633:G:N2	1:L5:4665:A:H62	2.14	0.45
1:L5:4695:C:H2'	1:L5:4696:C:H5'	1.99	0.45
2:L7:31:G:C4	2:L7:47:G:N1	2.85	0.45
3:L8:45:C:OP2	40:Ll:15:LYS:NZ	2.44	0.45
3:L8:70:G:H5"	27:LY:27:ARG:NH1	2.31	0.45
3:L8:87:G:C1'	3:L8:88:A:OP2	2.64	0.45
4:LA:42:LYS:HA	4:LA:89:TYR:CE1	2.51	0.45
5:LB:54:THR:O	5:LB:76:VAL:N	2.42	0.45
5:LB:312:LYS:HZ1	5:LB:368:ILE:HG23	1.80	0.45
5:LB:320:PHE:CD2	5:LB:326:VAL:HG23	2.52	0.45
6:LC:318:PRO:HG2	9:LF:155:TYR:HD2	1.82	0.45
7:LD:82:GLU:CG	7:LD:86:TYR:HE2	2.29	0.45
8:LE:124:LYS:C	8:LE:125:LEU:HD12	2.42	0.45
9:LF:225:THR:O	9:LF:231:GLY:HA3	2.16	0.45
12:LI:9:TYR:HB3	12:LI:97:ILE:CD1	2.44	0.45
13:LJ:40:LEU:HD12	13:LJ:48:PRO:HG3	1.98	0.45
13:LJ:112:HIS:HB2	13:LJ:126:TYR:O	2.16	0.45
16:LN:142:ILE:HD12	16:LN:142:ILE:O	2.17	0.45
17:LO:130:LYS:HB2	17:LO:133:ARG:HG2	1.98	0.45
19:LQ:54:SER:O	19:LQ:57:ASN:N	2.48	0.45
21:LS:147:ASP:H	21:LS:150:ILE:HD11	1.80	0.45
21:LS:173:ASN:ND2	21:LS:175:PHE:O	2.49	0.45
22:LT:27:LEU:O	22:LT:27:LEU:HG	2.16	0.45
23:LU:29:VAL:HG21	23:LU:36:ALA:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Lc:66:LEU:HD12	31:Lc:66:LEU:N	2.30	0.45
33:Le:5:ARG:NE	33:Le:6:PRO:HD2	2.27	0.45
33:Le:121:ARG:HG2	33:Le:122:VAL:N	2.32	0.45
34:Lf:10:ILE:HD12	34:Lf:99:HIS:C	2.41	0.45
36:Lh:58:LEU:C	36:Lh:62:ASN:HD22	2.23	0.45
36:Lh:62:ASN:O	36:Lh:65:GLN:HG2	2.16	0.45
38:Lj:69:ILE:O	38:Lj:72:ARG:HB3	2.17	0.45
46:Lz:111:LEU:HA	46:Lz:135:PRO:HB3	1.97	0.45
46:Lz:162:VAL:HG12	46:Lz:163:LEU:CG	2.39	0.45
47:S2:81:U:O5'	47:S2:81:U:H6	2.00	0.45
47:S2:193:C:H2'	47:S2:194:C:C1'	2.47	0.45
47:S2:391:C:O2'	47:S2:392:A:H5'	2.16	0.45
47:S2:407:G:H5"	47:S2:408:A:H5"	1.96	0.45
47:S2:495:U:C5	47:S2:496:C:C4	3.05	0.45
47:S2:561:A:H3'	47:S2:562:U:H5'	1.97	0.45
47:S2:595:U:H2'	47:S2:595:U:OP2	2.16	0.45
47:S2:655:A:H1'	47:S2:658:U:OP1	2.16	0.45
47:S2:991:G:O2'	65:Sa:13:LYS:HD3	2.17	0.45
47:S2:1445:U:O3'	62:SU:57:PRO:HA	2.16	0.45
47:S2:1481:G:C5	47:S2:1482:C:C4	3.04	0.45
47:S2:1643:U:O2'	47:S2:1644:C:H6	2.00	0.45
47:S2:1647:A:N6	47:S2:1675:A:C2	2.84	0.45
47:S2:1743:G:N2	47:S2:1792:G:C5	2.84	0.45
47:S2:1807:C:O2'	47:S2:1808:U:H5'	2.16	0.45
47:S2:1809:A:C5	47:S2:1810:U:C4	3.04	0.45
47:S2:1849:G:C1'	47:S2:1850:A:P	3.05	0.45
48:SA:111:GLN:HG3	48:SA:112:ILE:H	1.82	0.45
48:SA:198:MET:CG	48:SA:199:PRO:HD2	2.45	0.45
50:SD:98:ALA:HA	50:SD:188:ILE:HD12	1.97	0.45
51:SE:9:LEU:HD21	51:SE:14:ALA:CB	2.46	0.45
53:SH:183:LYS:O	53:SH:185:VAL:HG13	2.15	0.45
58:SQ:31:LEU:HG	58:SQ:33:LYS:H	1.81	0.45
58:SQ:32:ILE:HD13	58:SQ:60:LYS:CD	2.45	0.45
59:SR:13:ALA:HB1	59:SR:53:TYR:CD2	2.51	0.45
59:SR:64:GLY:O	59:SR:66:VAL:N	2.46	0.45
61:ST:126:GLN:HG3	61:ST:127:GLY:N	2.32	0.45
62:SU:46:LYS:CE	62:SU:93:SER:HB3	2.43	0.45
62:SU:59:LYS:HB2	62:SU:84:ILE:CG2	2.46	0.45
64:SX:51:VAL:HG12	64:SX:52:LEU:N	2.30	0.45
66:Sc:6:VAL:HG22	66:Sc:7:GLN:N	2.31	0.45
68:Sg:29:ASP:HB3	68:Sg:45:LEU:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:167:SER:HB2	68:Sg:175:LYS:N	2.29	0.45
68:Sg:288:SER:O	68:Sg:289:LEU:HD23	2.17	0.45
70:SG:48:TYR:CE2	70:SG:50:VAL:HG12	2.51	0.45
71:SJ:142:VAL:HG12	71:SJ:144:ILE:N	2.21	0.45
73:SN:37:ILE:HD13	73:SN:74:ILE:HG21	1.97	0.45
75:SW:61:ILE:CG2	75:SW:62:VAL:N	2.79	0.45
75:SW:121:THR:HG22	75:SW:122:GLY:O	2.17	0.45
77:SZ:89:GLN:OE1	77:SZ:96:LEU:HD22	2.17	0.45
79:Se:31:ARG:O	79:Se:34:ARG:HB2	2.17	0.45
1:L5:76:A:H61	1:L5:334:A:N6	2.13	0.45
1:L5:221:C:C2	1:L5:237:G:N2	2.85	0.45
1:L5:311:G:C2	1:L5:312:G:C5	3.04	0.45
1:L5:441:G:O4'	34:Lf:93:PRO:HB3	2.16	0.45
1:L5:453:G:N3	1:L5:453:G:C2'	2.80	0.45
1:L5:485:C:H4'	1:L5:486:C:C5'	2.46	0.45
1:L5:943:A:C6	1:L5:946:C:H5	2.35	0.45
1:L5:1177:U:H4'	7:LD:283:LYS:HG2	1.98	0.45
1:L5:1217:G:C4	1:L5:1218:G:N1	2.84	0.45
1:L5:1386:C:H3'	1:L5:1387:A:C5'	2.47	0.45
1:L5:1507:C:H3'	1:L5:1507:C:H6	1.81	0.45
1:L5:1821:G:O2'	1:L5:1822:U:OP1	2.26	0.45
1:L5:1822:U:O4	1:L5:1823:G:N1	2.49	0.45
1:L5:1881:C:C6	1:L5:2281:U:N3	2.85	0.45
1:L5:1887:G:H3'	1:L5:1888:A:C5'	2.47	0.45
1:L5:1899:G:H2'	33:Le:59:GLY:HA3	1.98	0.45
1:L5:1951:G:H21	21:LS:117:HIS:HE2	1.65	0.45
1:L5:2082:G:N2	1:L5:2275:G:N3	2.65	0.45
1:L5:2694:G:H4'	1:L5:2695:A:O5'	2.16	0.45
1:L5:2741:U:OP2	4:LA:52:PRO:HB3	2.16	0.45
1:L5:3684:G:H8	1:L5:3684:G:O5'	1.99	0.45
1:L5:3698:G:H2'	1:L5:3699:C:H6	1.81	0.45
1:L5:3754:G:H2'	1:L5:3755:G:O4'	2.16	0.45
1:L5:3836:A:H2'	1:L5:3837:C:O4'	2.16	0.45
1:L5:3897:G:H5'	5:LB:254:ILE:CD1	2.46	0.45
1:L5:3903:A:O2'	1:L5:3904:G:H5'	2.15	0.45
1:L5:4072:C:C2'	1:L5:4073:A:H5'	2.46	0.45
1:L5:4139:G:H2'	1:L5:4140:C:O4'	2.15	0.45
1:L5:4156:G:OP2	1:L5:4157:A:O2'	2.29	0.45
1:L5:4627:U:H4'	5:LB:373:LYS:HG2	1.99	0.45
1:L5:4659:G:C6	1:L5:4660:G:C5	3.04	0.45
1:L5:4900:C:H3'	1:L5:4900:C:OP2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:5027:C:C1'	1:L5:5028:G:P	3.03	0.45
3:L8:122:G:O6	3:L8:128:C:N4	2.49	0.45
3:L8:126:C:O2'	3:L8:127:U:O4'	2.28	0.45
5:LB:47:LEU:HD13	5:LB:84:MET:HE1	1.98	0.45
5:LB:206:PRO:HD2	5:LB:209:GLN:NE2	2.31	0.45
6:LC:67:TRP:NE1	6:LC:71:ARG:HD2	2.31	0.45
9:LF:201:PHE:HA	9:LF:204:ALA:HB3	1.98	0.45
12:LI:15:LYS:HG2	12:LI:16:PRO:CD	2.45	0.45
13:LJ:136:ARG:NH1	13:LJ:155:HIS:O	2.50	0.45
14:LL:31:ARG:HA	14:LL:34:ARG:CG	2.44	0.45
16:LN:132:VAL:HG12	16:LN:133:ILE:O	2.16	0.45
16:LN:139:HIS:CE1	16:LN:141:ALA:HB3	2.52	0.45
16:LN:151:ILE:HD12	16:LN:152:THR:N	2.30	0.45
17:LO:191:LYS:O	17:LO:194:GLU:HB3	2.16	0.45
20:LR:93:VAL:O	20:LR:97:ARG:N	2.50	0.45
25:LW:66:GLU:O	25:LW:69:LYS:HB3	2.15	0.45
26:LX:102:VAL:HA	26:LX:134:LYS:CD	2.47	0.45
28:LZ:68:ILE:HG22	28:LZ:69:LYS:N	2.31	0.45
28:LZ:79:HIS:O	28:LZ:80:LEU:HG	2.17	0.45
29:La:46:ASP:OD1	29:La:47:LYS:N	2.49	0.45
29:La:79:TRP:CE3	29:La:101:ILE:HD11	2.50	0.45
32:Ld:94:GLU:C	32:Ld:96:GLU:H	2.24	0.45
40:Ll:23:ILE:HG22	40:Ll:24:PRO:O	2.17	0.45
46:Lz:53:VAL:HG22	46:Lz:54:ARG:N	2.31	0.45
46:Lz:207:LYS:HZ2	46:Lz:213:PRO:HB3	1.79	0.45
47:S2:118:C:O5'	47:S2:118:C:H6	1.99	0.45
47:S2:668:A:H5'	47:S2:669:A:P	2.56	0.45
47:S2:744:G:H1'	53:SH:107:LYS:NZ	2.31	0.45
47:S2:902:G:C6	47:S2:903:A:H8	2.35	0.45
47:S2:1063:C:C6	47:S2:1064:C:H5	2.33	0.45
47:S2:1075:C:OP1	73:SN:107:LYS:NZ	2.49	0.45
47:S2:1111:U:O2'	47:S2:1112:U:H5'	2.15	0.45
47:S2:1248:U:H5'	58:SQ:146:ARG:HE	1.80	0.45
47:S2:1260:A:C6	47:S2:1619:A:C6	3.04	0.45
47:S2:1309:C:H41	72:SM:39:ALA:HB2	1.81	0.45
47:S2:1400:U:O2	62:SU:55:ARG:NH2	2.41	0.45
47:S2:1590:C:O4'	47:S2:1653:U:O2'	2.35	0.45
47:S2:1605:G:H2'	47:S2:1606:G:C4	2.52	0.45
47:S2:1779:G:H2'	47:S2:1780:G:H8	1.80	0.45
49:SB:28:LYS:CB	49:SB:48:LEU:HD11	2.47	0.45
50:SD:45:ARG:HA	50:SD:83:SER:CA	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:84:VAL:O	50:SD:84:VAL:HG13	2.17	0.45
51:SE:46:ILE:O	51:SE:50:ASN:HB3	2.16	0.45
51:SE:95:THR:HG23	51:SE:97:GLU:HB2	1.98	0.45
51:SE:117:GLU:C	51:SE:119:ALA:H	2.24	0.45
53:SH:64:VAL:HG21	53:SH:72:PHE:CE2	2.52	0.45
53:SH:154:ILE:O	53:SH:156:VAL:HG23	2.16	0.45
58:SQ:118:THR:HB	58:SQ:121:VAL:HG23	1.98	0.45
58:SQ:123:ASP:OD1	58:SQ:124:PRO:HD2	2.17	0.45
60:SS:47:LYS:HE2	60:SS:77:TYR:HB3	1.99	0.45
62:SU:108:PRO:CD	62:SU:110:VAL:HG22	2.47	0.45
66:Sc:37:ASP:HB3	66:Sc:39:SER:OG	2.16	0.45
68:Sg:38:LYS:CA	68:Sg:66:VAL:HG23	2.45	0.45
68:Sg:80:SER:HB2	68:Sg:90:TRP:CD1	2.52	0.45
70:SG:22:ARG:CG	70:SG:23:LYS:HG2	2.29	0.45
72:SM:49:LEU:C	72:SM:77:ILE:HD13	2.40	0.45
72:SM:85:LEU:HD21	72:SM:107:SER:C	2.42	0.45
74:SO:21:VAL:HG23	74:SO:25:GLU:OE1	2.16	0.45
74:SO:61:LYS:CB	74:SO:76:LEU:HD11	2.46	0.45
1:L5:95:G:C6	1:L5:96:U:C4	3.05	0.45
1:L5:169:G:N1	1:L5:170:C:H5	2.14	0.45
1:L5:209:U:N3	1:L5:233:U:C4	2.81	0.45
1:L5:1260:G:H22	1:L5:1261:G:H1'	1.78	0.45
1:L5:1805:A:O4'	30:Lb:28:ARG:HD2	2.16	0.45
1:L5:1809:C:N4	1:L5:1810:G:O6	2.50	0.45
1:L5:1826:G:C2'	1:L5:1827:C:H5'	2.46	0.45
1:L5:1986:U:H3'	1:L5:2008:U:C4	2.52	0.45
1:L5:2387:G:O3'	20:LR:23:TRP:NE1	2.46	0.45
1:L5:2476:G:N2	1:L5:2501:C:O2	2.47	0.45
1:L5:2480:G:C2'	1:L5:2481:G:H5'	2.46	0.45
1:L5:2511:A:H3'	1:L5:2512:A:C5'	2.46	0.45
1:L5:2539:C:H5"	35:Lg:66:ARG:NH1	2.31	0.45
1:L5:2844:A:C6	1:L5:3839:G:N7	2.84	0.45
1:L5:2848:G:O2'	1:L5:3838:U:O4	2.27	0.45
1:L5:3963:A:N6	1:L5:3966:A:P	2.90	0.45
1:L5:3973:G:O2'	1:L5:3974:G:O4'	2.29	0.45
1:L5:4165:C:H2'	1:L5:4166:G:C5'	2.47	0.45
1:L5:4402:C:H42	1:L5:4441:A:N6	2.14	0.45
1:L5:4437:U:O2	1:L5:4437:U:H2'	2.17	0.45
1:L5:4508:C:O2'	1:L5:4509:U:H5'	2.16	0.45
1:L5:4711:C:H5"	17:LO:58:LEU:HD21	1.98	0.45
1:L5:4767:C:N4	1:L5:4867:G:H1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:111:THR:O	4:LA:135:THR:HA	2.16	0.45
6:LC:134:PRO:HG3	6:LC:150:LEU:HD22	1.99	0.45
7:LD:159:VAL:CG1	7:LD:160:PHE:N	2.78	0.45
8:LE:96:VAL:HG13	8:LE:104:THR:HG23	1.97	0.45
8:LE:184:VAL:N	8:LE:185:PRO:HD3	2.32	0.45
9:LF:184:ILE:C	9:LF:185:ILE:HG13	2.42	0.45
10:LG:61:ILE:HG13	10:LG:62:ARG:N	2.31	0.45
11:LH:30:PRO:CG	11:LH:85:THR:HA	2.46	0.45
12:LI:35:ASP:O	12:LI:36:LEU:HD23	2.17	0.45
12:LI:60:LEU:HD22	12:LI:159:PHE:CD1	2.51	0.45
13:LJ:65:ASN:CB	43:Lo:103:VAL:CG2	2.87	0.45
13:LJ:85:LYS:CB	13:LJ:115:LEU:CD2	2.94	0.45
17:LO:192:TYR:O	17:LO:195:VAL:N	2.50	0.45
20:LR:138:LEU:O	20:LR:141:HIS:HB3	2.17	0.45
22:LT:128:LEU:O	22:LT:129:LYS:HG2	2.17	0.45
23:LU:35:ASP:OD2	23:LU:38:ASN:HB2	2.16	0.45
23:LU:96:LEU:HD13	23:LU:100:LEU:CD2	2.47	0.45
25:LW:83:THR:CA	70:SG:131:ARG:H	2.29	0.45
26:LX:64:SER:HB2	36:Lh:83:LEU:HD11	1.98	0.45
28:LZ:57:MET:CG	28:LZ:61:LYS:HD3	2.46	0.45
32:Ld:88:LEU:CD1	32:Ld:106:VAL:HG22	2.47	0.45
33:Le:90:MET:CE	45:Lr:33:LYS:H	2.29	0.45
36:Lh:62:ASN:HA	36:Lh:65:GLN:CG	2.47	0.45
38:Lj:34:CYS:HG	38:Lj:37:CYS:HG	1.54	0.45
43:Lo:101:GLY:CA	43:Lo:102:GLN:HB2	2.45	0.45
46:Lz:63:PHE:HD1	46:Lz:108:ASP:H	1.65	0.45
46:Lz:176:ASP:HA	46:Lz:179:LEU:HB2	1.99	0.45
47:S2:189:U:O2	47:S2:211:G:N1	2.50	0.45
47:S2:478:G:H2'	47:S2:479:C:C6	2.52	0.45
47:S2:492:C:OP2	76:SY:104:ARG:HB3	2.17	0.45
47:S2:638:C:C2'	47:S2:639:C:H5'	2.47	0.45
47:S2:845:G:H2'	47:S2:846:G:O4'	2.17	0.45
47:S2:925:G:H2'	47:S2:926:A:C8	2.44	0.45
47:S2:1034:A:H2'	47:S2:1035:A:H5'	1.99	0.45
47:S2:1261:C:C2'	47:S2:1262:C:H5'	2.46	0.45
47:S2:1284:A:HO2'	72:SM:107:SER:HG	1.49	0.45
47:S2:1301:A:C2	47:S2:1303:C:C4	3.04	0.45
47:S2:1408:U:C5	47:S2:1409:A:H1'	2.51	0.45
47:S2:1429:G:N2	61:ST:65:TYR:HH	2.13	0.45
47:S2:1538:C:O2'	61:ST:45:LEU:HD22	2.17	0.45
47:S2:1599:U:H4'	47:S2:1600:G:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1627:C:C5'	61:ST:41:LYS:CD	2.95	0.45
47:S2:1742:C:N4	47:S2:1743:G:C6	2.84	0.45
48:SA:154:LEU:C	48:SA:157:VAL:HG22	2.41	0.45
49:SB:36:PRO:HB2	49:SB:38:MET:HG2	1.98	0.45
49:SB:108:ASP:O	49:SB:112:SER:OG	2.22	0.45
50:SD:210:ILE:HG13	50:SD:211:VAL:N	2.31	0.45
51:SE:180:LEU:HB3	51:SE:194:VAL:CA	2.41	0.45
51:SE:195:ILE:HA	51:SE:210:VAL:HG22	1.99	0.45
54:SI:130:THR:N	54:SI:131:PRO:CD	2.80	0.45
56:SL:114:SER:OG	56:SL:115:PRO:HD2	2.17	0.45
58:SQ:50:LYS:O	58:SQ:53:GLU:HG3	2.17	0.45
64:SX:65:ALA:O	64:SX:66:ILE:HG13	2.17	0.45
64:SX:125:VAL:HG12	64:SX:130:LEU:HB2	1.98	0.45
68:Sg:40:ILE:HG21	68:Sg:59:LEU:HD22	1.98	0.45
69:SC:108:LYS:HE3	69:SC:110:MET:HB2	1.98	0.45
69:SC:200:ARG:HA	69:SC:221:ASP:OD2	2.16	0.45
69:SC:229:CYS:SG	69:SC:232:THR:HG23	2.57	0.45
72:SM:81:ASP:HB3	72:SM:82:ASN:H	1.65	0.45
72:SM:121:LYS:HD2	72:SM:125:GLU:OE1	2.17	0.45
73:SN:142:GLU:OE1	73:SN:145:THR:OG1	2.34	0.45
76:SY:28:LEU:HD13	76:SY:68:LYS:HZ2	1.81	0.45
1:L5:106:A:H2'	1:L5:107:G:C5'	2.46	0.45
1:L5:150:U:O2'	16:LN:41:ARG:NH2	2.50	0.45
1:L5:177:G:C2	1:L5:178:C:H1'	2.51	0.45
1:L5:239:C:H3'	1:L5:239:C:H6	1.81	0.45
1:L5:713:C:N4	1:L5:714:G:O6	2.49	0.45
1:L5:990:C:H1'	1:L5:1064:G:H22	1.82	0.45
1:L5:1185:G:H2'	1:L5:1186:U:C6	2.52	0.45
1:L5:1239:C:O2'	1:L5:1240:G:OP2	2.24	0.45
1:L5:1308:C:H6	1:L5:1308:C:H3'	1.81	0.45
1:L5:1511:U:C6	1:L5:1511:U:C3'	3.00	0.45
1:L5:1532:G:H2'	1:L5:1532:G:N3	2.31	0.45
1:L5:1758:G:H8	1:L5:1759:G:H5"	1.82	0.45
1:L5:2084:C:H3'	1:L5:2084:C:C6	2.47	0.45
1:L5:2096:G:C2	1:L5:2119:C:H5	2.34	0.45
1:L5:2627:C:O2'	1:L5:2628:U:H5'	2.17	0.45
1:L5:2660:A:C1'	1:L5:2661:U:H5"	2.46	0.45
1:L5:2677:G:H2'	1:L5:2678:A:C5'	2.47	0.45
1:L5:2753:G:C5'	28:LZ:135:ARG:HH12	2.29	0.45
1:L5:2769:U:OP2	1:L5:2769:U:H2'	2.15	0.45
1:L5:2771:G:C6	1:L5:2772:C:N3	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2838:G:H5"	5:LB:247:GLY:HA2	1.98	0.45
1:L5:3594:C:O2'	1:L5:3597:G:H1'	2.17	0.45
1:L5:3654:G:OP1	4:LA:179:ILE:HG12	2.16	0.45
1:L5:3861:A:H2'	1:L5:3862:A:H8	1.81	0.45
1:L5:3919:C:O2'	1:L5:3920:U:H5'	2.16	0.45
1:L5:4320:G:H1'	1:L5:4328:G:H22	1.82	0.45
1:L5:4525:C:N3	1:L5:4526:U:C4	2.84	0.45
1:L5:5009:G:C6	1:L5:5010:U:N3	2.85	0.45
1:L5:5047:C:O2'	1:L5:5050:C:H5'	2.17	0.45
3:L8:37:A:H4'	3:L8:38:U:O5'	2.16	0.45
5:LB:122:TRP:CZ2	5:LB:127:LYS:CD	3.00	0.45
5:LB:142:GLY:O	5:LB:145:GLN:HB2	2.17	0.45
6:LC:205:ARG:HE	6:LC:248:ARG:HH12	1.64	0.45
7:LD:129:GLU:H	7:LD:129:GLU:CD	2.24	0.45
8:LE:161:ARG:HD3	8:LE:270:TYR:CZ	2.51	0.45
8:LE:183:ARG:O	8:LE:183:ARG:HG3	2.16	0.45
8:LE:233:PHE:HD2	8:LE:235:THR:CG2	2.28	0.45
10:LG:155:VAL:O	10:LG:181:TYR:HA	2.15	0.45
11:LH:92:MET:HE1	11:LH:181:VAL:HG23	1.98	0.45
14:LL:128:PRO:HB2	14:LL:130:LYS:O	2.17	0.45
20:LR:133:LYS:O	20:LR:134:ASN:HB3	2.17	0.45
21:LS:17:LEU:HD12	21:LS:17:LEU:C	2.42	0.45
21:LS:76:LYS:HG3	21:LS:78:PHE:CE2	2.51	0.45
23:LU:60:VAL:HG11	23:LU:76:VAL:CG2	2.46	0.45
26:LX:119:ILE:HG12	26:LX:140:LEU:HD22	1.97	0.45
30:Lb:17:HIS:CE1	30:Lb:21:ILE:HD12	2.52	0.45
31:Lc:13:SER:O	31:Lc:17:ARG:NH1	2.49	0.45
33:Le:97:ALA:O	33:Le:122:VAL:HA	2.16	0.45
36:Lh:62:ASN:HA	36:Lh:65:GLN:NE2	2.31	0.45
46:Lz:66:CYS:HB2	46:Lz:82:ILE:CG2	2.47	0.45
47:S2:167:G:H5'	47:S2:168:C:OP2	2.15	0.45
47:S2:225:G:H22	47:S2:297:A:H61	1.63	0.45
47:S2:310:C:H2'	47:S2:311:C:C5'	2.46	0.45
47:S2:357:C:C4	47:S2:358:C:H5	2.34	0.45
47:S2:436:G:C5	47:S2:458:A:C2	3.05	0.45
47:S2:557:U:O2'	47:S2:558:G:O4'	2.18	0.45
47:S2:986:G:O4'	74:SO:138:ASP:HB2	2.17	0.45
47:S2:1137:U:C3'	48:SA:155:ARG:HH12	2.29	0.45
47:S2:1291:A:H3'	47:S2:1292:C:C5'	2.37	0.45
47:S2:1310:U:H6	47:S2:1310:U:H3'	1.81	0.45
50:SD:171:ALA:CB	50:SD:186:VAL:HB	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:15:PRO:CB	51:SE:18:TRP:HZ3	2.29	0.45
51:SE:198:ARG:HG3	51:SE:198:ARG:O	2.17	0.45
52:SF:133:THR:O	52:SF:134:VAL:HG12	2.16	0.45
53:SH:14:GLU:C	53:SH:16:PRO:HD2	2.40	0.45
53:SH:147:LYS:HE3	53:SH:151:SER:HB2	1.98	0.45
54:SI:132:GLU:OE1	54:SI:133:GLU:N	2.50	0.45
58:SQ:118:THR:HG22	58:SQ:121:VAL:CG2	2.46	0.45
59:SR:106:LEU:CD1	59:SR:110:ASP:HA	2.46	0.45
60:SS:16:LEU:HG	60:SS:71:MET:SD	2.56	0.45
61:ST:38:LYS:C	61:ST:39:LEU:HD12	2.42	0.45
61:ST:103:VAL:HG13	61:ST:107:LEU:HD13	1.97	0.45
62:SU:24:LEU:CD2	62:SU:87:ARG:HG3	2.46	0.45
62:SU:60:THR:HG22	62:SU:83:ARG:CD	2.44	0.45
68:Sg:101:PHE:HE1	68:Sg:136:GLY:HA2	1.80	0.45
68:Sg:114:SER:N	68:Sg:119:GLN:O	2.50	0.45
68:Sg:194:TYR:OH	68:Sg:235:ILE:HG21	2.16	0.45
68:Sg:220:ASP:H	68:Sg:227:LEU:CD1	2.29	0.45
70:SG:85:ARG:O	70:SG:85:ARG:HG3	2.17	0.45
72:SM:24:THR:O	72:SM:31:LEU:HD13	2.16	0.45
73:SN:37:ILE:HD13	73:SN:74:ILE:HG23	1.98	0.45
75:SW:86:LEU:O	75:SW:90:GLN:HG2	2.15	0.45
1:L5:152:U:H4'	16:LN:56:LYS:CG	2.45	0.45
1:L5:280:G:C5	16:LN:14:LYS:HD2	2.51	0.45
1:L5:470:A:C2	1:L5:687:U:H1'	2.46	0.45
1:L5:723:A:C2	1:L5:946:C:C5	3.05	0.45
1:L5:735:G:N3	1:L5:735:G:H2'	2.32	0.45
1:L5:1495:G:H4'	19:LQ:187:LYS:HE3	1.98	0.45
1:L5:1536:U:H6	1:L5:1536:U:O5'	2.00	0.45
1:L5:1547:A:C2'	1:L5:1548:G:H5'	2.46	0.45
1:L5:1612:G:N3	1:L5:1612:G:C2'	2.79	0.45
1:L5:1768:C:C4'	1:L5:1769:G:H8	2.30	0.45
1:L5:1778:C:OP1	7:LD:5:LYS:HB2	2.16	0.45
1:L5:1818:G:O2'	1:L5:1819:G:O5'	2.35	0.45
1:L5:2269:C:H4'	1:L5:2270:G:OP2	2.16	0.45
1:L5:2293:U:N3	1:L5:2294:G:N7	2.63	0.45
1:L5:2501:C:H2'	1:L5:2502:G:H5'	1.99	0.45
1:L5:2506:G:HO2'	1:L5:2507:A:P	2.40	0.45
1:L5:2509:C:O2'	1:L5:2510:G:H5'	2.17	0.45
1:L5:2537:A:OP2	39:Lk:37:ARG:NH1	2.41	0.45
1:L5:2639:U:H2'	1:L5:2694:G:C6	2.51	0.45
1:L5:2684:C:C2'	1:L5:2685:C:H5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3665:G:O3'	4:LA:227:ARG:NH2	2.50	0.45
1:L5:3672:G:C8	1:L5:3672:G:C3'	3.00	0.45
1:L5:3697:U:H5"	1:L5:3698:G:H5'	1.99	0.45
1:L5:3948:C:H2'	1:L5:3949:A:N1	2.32	0.45
1:L5:3955:G:O6	1:L5:4057:C:N4	2.50	0.45
1:L5:4049:U:P	1:L5:4049:U:H6	2.40	0.45
1:L5:4089:G:C4	1:L5:4161:G:N2	2.85	0.45
1:L5:4128:A:H2'	1:L5:4129:G:H5'	1.99	0.45
1:L5:4192:A:C2	1:L5:4204:C:N3	2.85	0.45
1:L5:4293:U:H2'	1:L5:4294:C:H5'	1.99	0.45
1:L5:4648:A:C6	1:L5:4649:G:N7	2.84	0.45
1:L5:4655:A:N6	1:L5:4658:G:C8	2.85	0.45
1:L5:4712:C:H3'	1:L5:4712:C:H6	1.82	0.45
2:L7:63:C:O5'	12:LI:206:LEU:HB2	2.15	0.45
5:LB:56:ILE:C	5:LB:56:ILE:HD12	2.42	0.45
5:LB:395:ASP:O	5:LB:398:ALA:HB3	2.17	0.45
7:LD:61:ILE:HG22	7:LD:62:CYS:N	2.31	0.45
7:LD:83:LEU:N	7:LD:84:PRO:CD	2.80	0.45
8:LE:62:MET:HE3	8:LE:66:LYS:NZ	2.31	0.45
8:LE:94:LYS:O	8:LE:104:THR:HG23	2.17	0.45
8:LE:167:GLN:HB3	8:LE:173:LEU:CD2	2.46	0.45
8:LE:237:LYS:HD3	8:LE:241:GLU:OE2	2.16	0.45
11:LH:5:LEU:HD13	11:LH:60:TRP:CE3	2.52	0.45
11:LH:173:ARG:HD2	41:Lm:127:VAL:HA	1.99	0.45
11:LH:176:LEU:HB2	41:Lm:86:ALA:HB1	1.99	0.45
12:LI:53:VAL:HG11	22:LT:160:ALA:O	2.16	0.45
12:LI:75:TYR:OH	12:LI:150:GLU:HG2	2.17	0.45
12:LI:191:ILE:HA	12:LI:192:PRO:HD3	1.62	0.45
13:LJ:113:ILE:HD11	60:SS:14:ARG:NH2	2.32	0.45
14:LL:31:ARG:HA	14:LL:34:ARG:HE	1.80	0.45
14:LL:138:ASP:OD1	14:LL:139:SER:N	2.49	0.45
17:LO:51:LYS:HZ2	17:LO:144:GLU:HB3	1.79	0.45
19:LQ:126:LEU:C	19:LQ:126:LEU:HD23	2.41	0.45
20:LR:99:MET:O	20:LR:103:ARG:N	2.38	0.45
20:LR:100:ARG:O	20:LR:104:ARG:HG2	2.16	0.45
25:LW:82:ILE:HB	70:SG:130:PRO:CB	2.42	0.45
25:LW:101:ARG:HG2	25:LW:105:ARG:CG	2.41	0.45
45:Lr:66:ARG:HH21	45:Lr:68:SER:HB3	1.82	0.45
46:Lz:77:ALA:HB3	46:Lz:84:HIS:CE1	2.52	0.45
46:Lz:100:VAL:HG23	46:Lz:102:LYS:H	1.82	0.45
46:Lz:203:ALA:CB	46:Lz:215:ARG:HG2	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:98:C:OP2	47:S2:426:A:O2'	2.29	0.45
47:S2:113:G:O2'	47:S2:292:A:H2	1.98	0.45
47:S2:310:C:H2'	47:S2:311:C:O4'	2.16	0.45
47:S2:418:A:H2'	47:S2:419:G:O5'	2.16	0.45
47:S2:443:U:C2'	47:S2:444:G:H5'	2.42	0.45
47:S2:617:G:OP1	64:SX:68:LYS:HD3	2.15	0.45
47:S2:789:G:H2'	47:S2:790:C:O5'	2.17	0.45
47:S2:1046:U:C1'	74:SO:140:THR:HG21	2.47	0.45
47:S2:1102:G:O2'	47:S2:1103:C:H5'	2.16	0.45
47:S2:1420:G:H21	47:S2:1421:A:N6	2.15	0.45
47:S2:1533:A:N3	47:S2:1536:G:O2'	2.50	0.45
47:S2:1601:A:H5'	47:S2:1602:U:C5	2.52	0.45
47:S2:1604:G:C6	47:S2:1605:G:C4	3.05	0.45
47:S2:1623:A:P	60:SS:133:GLY:HA3	2.57	0.45
47:S2:1630:A:OP1	60:SS:40:TYR:N	2.30	0.45
47:S2:1711:U:C6	47:S2:1711:U:C3'	2.99	0.45
48:SA:180:ARG:HH11	48:SA:184:ARG:CZ	2.29	0.45
50:SD:195:THR:OG1	50:SD:202:LYS:HD3	2.17	0.45
50:SD:213:PRO:O	50:SD:214:LYS:HB2	2.17	0.45
50:SD:223:ILE:HG23	50:SD:225:GLU:OE1	2.17	0.45
51:SE:182:MET:HE3	51:SE:192:ILE:HD11	1.98	0.45
52:SF:20:PHE:HB2	52:SF:25:THR:O	2.16	0.45
52:SF:39:ILE:HD11	52:SF:147:VAL:HG21	1.97	0.45
52:SF:68:ILE:HG13	52:SF:69:VAL:N	2.31	0.45
52:SF:109:LEU:HA	52:SF:112:LEU:HB3	1.99	0.45
53:SH:121:THR:HG21	53:SH:123:THR:HB	1.99	0.45
54:SI:42:ARG:NH1	54:SI:59:ARG:HH11	2.15	0.45
57:SP:17:TYR:O	57:SP:18:ARG:HG2	2.16	0.45
61:ST:33:TRP:CH2	61:ST:102:ARG:HG3	2.51	0.45
62:SU:47:ASN:HB3	62:SU:48:LEU:H	1.61	0.45
66:Sc:18:LEU:HD23	66:Sc:18:LEU:O	2.17	0.45
68:Sg:44:LYS:HG2	68:Sg:56:GLN:OE1	2.17	0.45
68:Sg:127:LYS:HG3	68:Sg:150:TRP:HA	1.94	0.45
70:SG:208:GLU:HA	70:SG:211:LYS:HE2	1.98	0.45
71:SJ:37:LEU:HD23	71:SJ:43:VAL:CG2	2.46	0.45
71:SJ:81:LEU:O	71:SJ:84:ILE:HB	2.16	0.45
71:SJ:109:ARG:HH21	71:SJ:145:PRO:HB2	1.81	0.45
77:SZ:87:ALA:HA	77:SZ:90:GLU:HG2	1.98	0.45
1:L5:50:C:H6	1:L5:50:C:O5'	2.00	0.45
1:L5:68:U:N3	1:L5:74:G:C6	2.85	0.45
1:L5:177:G:N2	1:L5:259:C:H42	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:353:A:N7	1:L5:379:G:C5	2.85	0.45
1:L5:487:G:C6	1:L5:488:G:C5	3.04	0.45
1:L5:1100:U:O2'	1:L5:1167:C:OP1	2.20	0.45
1:L5:1296:G:N2	1:L5:1297:U:O4	2.49	0.45
1:L5:1545:G:O2'	1:L5:1546:C:H5'	2.17	0.45
1:L5:1660:U:C6	1:L5:2346:C:N3	2.85	0.45
1:L5:1899:G:OP1	1:L5:2278:G:H2'	2.17	0.45
1:L5:2000:G:N3	1:L5:2000:G:C2'	2.79	0.45
1:L5:2354:G:O2'	1:L5:2355:G:H5'	2.17	0.45
1:L5:2430:C:H2'	1:L5:2431:A:H8	1.81	0.45
1:L5:3969:G:N1	1:L5:4053:A:H5"	2.32	0.45
1:L5:4272:G:N7	1:L5:4336:A:N1	2.65	0.45
1:L5:4410:G:C2	1:L5:4411:G:N7	2.85	0.45
1:L5:4433:G:H21	1:L5:4434:C:C1'	2.29	0.45
1:L5:4468:U:H6	1:L5:4468:U:H3'	1.82	0.45
1:L5:4755:G:N2	1:L5:4878:C:N3	2.61	0.45
1:L5:4915:G:O2'	1:L5:4916:G:H5'	2.17	0.45
1:L5:5059:C:C2'	1:L5:5060:A:H5"	2.46	0.45
3:L8:110:U:O2'	3:L8:111:U:H4'	2.16	0.45
4:LA:156:LYS:HG2	4:LA:157:VAL:N	2.31	0.45
5:LB:111:SER:HB2	5:LB:113:GLU:CD	2.41	0.45
6:LC:51:PRO:HG3	14:LL:26:PHE:CE1	2.52	0.45
8:LE:157:HIS:HD2	8:LE:187:ARG:NH1	2.15	0.45
9:LF:216:PRO:HB3	9:LF:247:MET:CG	2.46	0.45
10:LG:241:VAL:HG23	10:LG:241:VAL:O	2.17	0.45
11:LH:17:ASP:O	11:LH:27:VAL:HA	2.17	0.45
11:LH:80:MET:O	11:LH:84:VAL:HG23	2.16	0.45
11:LH:180:TYR:OH	41:Lm:90:ASN:ND2	2.43	0.45
12:LI:15:LYS:CG	12:LI:16:PRO:HD2	2.44	0.45
12:LI:21:ARG:O	12:LI:24:ARG:NH1	2.50	0.45
13:LJ:134:LEU:C	13:LJ:134:LEU:HD12	2.42	0.45
14:LL:130:LYS:HD2	14:LL:132:SER:HB2	1.98	0.45
14:LL:194:ILE:HA	14:LL:197:LYS:HB2	1.98	0.45
29:La:19:HIS:CE1	29:La:25:HIS:HD2	2.34	0.45
34:Lf:100:ARG:HG3	34:Lf:101:ILE:N	2.32	0.45
35:Lg:111:ALA:HA	35:Lg:114:GLN:OE1	2.17	0.45
38:Lj:60:GLY:HA2	38:Lj:64:MET:HE1	1.97	0.45
45:Lr:119:ARG:HG3	45:Lr:122:LYS:HZ3	1.82	0.45
47:S2:314:U:H6	47:S2:314:U:OP2	2.00	0.45
47:S2:512:A:H2'	47:S2:512:A:N3	2.32	0.45
47:S2:519:A:O2'	47:S2:520:A:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:661:U:OP2	47:S2:662:G:O2'	2.15	0.45
47:S2:671:A:O2'	47:S2:1089:G:O5'	2.35	0.45
47:S2:1256:G:H8	47:S2:1256:G:H5"	1.81	0.45
47:S2:1334:G:H2'	47:S2:1335:G:C5'	2.46	0.45
47:S2:1602:U:C4	47:S2:1604:G:C8	3.05	0.45
47:S2:1612:G:N1	47:S2:1628:C:N3	2.65	0.45
47:S2:1809:A:H2'	47:S2:1810:U:H6	1.76	0.45
49:SB:99:ASN:OD1	49:SB:100:PHE:N	2.49	0.45
50:SD:67:ARG:C	50:SD:70:THR:HG22	2.40	0.45
50:SD:76:ARG:HB2	55:SK:22:VAL:CG1	2.47	0.45
51:SE:124:CYS:HA	51:SE:142:HIS:CE1	2.45	0.45
52:SF:149:GLN:HG2	52:SF:153:LEU:HD23	1.98	0.45
52:SF:166:ILE:HG12	77:SZ:71:ALA:HB1	1.99	0.45
55:SK:86:PRO:C	55:SK:88:GLU:H	2.25	0.45
57:SP:14:LYS:HE3	57:SP:15:PHE:CE1	2.52	0.45
60:SS:13:LEU:O	60:SS:21:ASP:HA	2.16	0.45
60:SS:82:TRP:H	60:SS:82:TRP:CD1	2.34	0.45
62:SU:35:VAL:HA	62:SU:38:ASP:HB3	1.98	0.45
67:Sd:38:MET:HE3	67:Sd:42:CYS:SG	2.56	0.45
68:Sg:8:ARG:HH11	68:Sg:311:GLN:CD	2.23	0.45
68:Sg:24:THR:CG2	68:Sg:27:PHE:HB2	2.46	0.45
68:Sg:147:HIS:HB2	68:Sg:171:ASP:OD2	2.16	0.45
68:Sg:286:CYS:HB2	68:Sg:302:TYR:HE1	1.76	0.45
70:SG:67:VAL:HG21	70:SG:98:ARG:O	2.17	0.45
71:SJ:143:ASN:O	71:SJ:145:PRO:HD3	2.17	0.45
72:SM:90:GLY:O	72:SM:93:LYS:HB2	2.17	0.45
73:SN:5:HIS:ND1	73:SN:117:LEU:HG	2.32	0.45
74:SO:43:HIS:HD2	74:SO:55:ARG:HH11	1.64	0.45
75:SW:34:ILE:O	75:SW:37:PHE:HB3	2.17	0.45
77:SZ:99:LEU:HB2	77:SZ:100:VAL:CA	2.47	0.45
1:L5:15:A:H8	1:L5:15:A:O5'	1.99	0.45
1:L5:173:C:H2'	1:L5:174:C:C6	2.48	0.45
1:L5:239:C:H4'	27:LY:31:SER:O	2.16	0.45
1:L5:315:G:N3	1:L5:315:G:H5'	2.32	0.45
1:L5:507:G:H3'	1:L5:508:G:C8	2.51	0.45
1:L5:925:C:H3'	1:L5:926:G:H8	1.82	0.45
1:L5:1351:G:N2	1:L5:1357:C:OP1	2.47	0.45
1:L5:1470:G:H1'	1:L5:1495:G:N2	2.29	0.45
1:L5:1584:G:H2'	1:L5:1585:C:H5'	1.98	0.45
1:L5:1736:A:C2'	1:L5:1737:A:H5'	2.47	0.45
1:L5:1760:G:H5"	1:L5:1761:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1819:G:H21	7:LD:113:PHE:HB3	1.81	0.45
1:L5:1889:U:C5	1:L5:1890:G:C6	3.04	0.45
1:L5:2057:A:N6	17:LO:17:GLY:O	2.50	0.45
1:L5:2062:C:C2'	1:L5:2063:G:H5'	2.46	0.45
1:L5:2095:A:N3	1:L5:2095:A:C2'	2.80	0.45
1:L5:2282:A:H2'	1:L5:2282:A:N3	2.31	0.45
1:L5:3644:U:O5'	1:L5:3644:U:H6	2.00	0.45
1:L5:3767:C:O2'	1:L5:3768:U:P	2.75	0.45
1:L5:4136:G:O2'	1:L5:4137:C:H5'	2.17	0.45
1:L5:4207:C:H4'	1:L5:4335:C:O4'	2.17	0.45
1:L5:4305:G:O6	22:LT:80:VAL:HG11	2.17	0.45
1:L5:4334:U:O4'	22:LT:8:ARG:HD3	2.16	0.45
1:L5:4870:G:H5'	1:L5:4873:G:OP1	2.16	0.45
1:L5:4873:G:H22	15:LM:98:ARG:NH1	2.15	0.45
1:L5:4904:G:H2'	1:L5:4905:C:C6	2.52	0.45
1:L5:4906:C:N3	1:L5:4915:G:N1	2.50	0.45
2:L7:60:G:C4	2:L7:61:G:C8	3.04	0.45
5:LB:340:THR:HG22	5:LB:341:LYS:N	2.31	0.45
6:LC:128:LEU:HA	6:LC:131:SER:OG	2.17	0.45
7:LD:43:LYS:O	7:LD:46:THR:HG23	2.16	0.45
7:LD:128:ASP:CG	7:LD:129:GLU:N	2.75	0.45
7:LD:135:ILE:HG22	7:LD:136:ASP:O	2.17	0.45
7:LD:244:HIS:O	7:LD:248:ARG:HG3	2.17	0.45
9:LF:113:ARG:HH12	9:LF:206:ASN:HA	1.82	0.45
9:LF:166:ARG:HG2	9:LF:166:ARG:O	2.17	0.45
9:LF:226:HIS:CE1	9:LF:228:VAL:HG22	2.52	0.45
10:LG:174:CYS:O	10:LG:178:GLY:N	2.48	0.45
11:LH:20:LEU:HD13	11:LH:22:GLY:HA2	1.99	0.45
11:LH:89:ARG:HD3	11:LH:91:LYS:CE	2.30	0.45
15:LM:11:ARG:O	15:LM:26:ALA:HA	2.17	0.45
16:LN:29:GLN:O	16:LN:33:LEU:HD13	2.15	0.45
16:LN:36:LEU:HD23	16:LN:109:HIS:ND1	2.32	0.45
16:LN:46:ASP:O	16:LN:49:ARG:N	2.47	0.45
17:LO:9:LEU:HD11	17:LO:35:VAL:HG22	1.99	0.45
18:LP:117:ILE:HA	18:LP:147:GLU:O	2.17	0.45
20:LR:115:ILE:O	20:LR:115:ILE:HG13	2.15	0.45
22:LT:40:VAL:O	22:LT:40:VAL:HG23	2.16	0.45
22:LT:78:LYS:CD	22:LT:79:GLN:H	2.29	0.45
24:LV:69:LYS:NZ	24:LV:71:GLU:OE1	2.28	0.45
25:LW:47:ARG:HG2	25:LW:54:LEU:HD21	1.99	0.45
27:LY:50:ARG:HB3	27:LY:53:ASP:CG	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:La:78:LEU:HD23	29:La:78:LEU:C	2.41	0.45
31:Lc:15:ASN:OD1	31:Lc:16:SER:N	2.50	0.45
31:Lc:93:THR:CG2	31:Lc:94:LEU:N	2.80	0.45
33:Le:45:VAL:O	33:Le:48:ARG:N	2.49	0.45
33:Le:72:SER:OG	33:Le:121:ARG:NH1	2.50	0.45
35:Lg:59:VAL:HG22	35:Lg:60:ARG:H	1.82	0.45
39:Lk:53:ALA:HB1	39:Lk:57:LYS:CD	2.46	0.45
46:Lz:95:LYS:HD3	46:Lz:126:PRO:HB2	1.98	0.45
46:Lz:216:LEU:C	46:Lz:216:LEU:HD12	2.42	0.45
47:S2:27:A:N1	47:S2:28:U:C2	2.85	0.45
47:S2:95:G:H5'	47:S2:508:A:O2'	2.17	0.45
47:S2:318:A:H2'	47:S2:319:C:O4'	2.16	0.45
47:S2:801:U:O2'	47:S2:802:A:H5'	2.15	0.45
47:S2:857:U:H4'	51:SE:201:HIS:NE2	2.32	0.45
47:S2:894:G:H3'	47:S2:895:G:H5"	1.98	0.45
47:S2:916:A:C4	73:SN:73:ARG:NH1	2.85	0.45
47:S2:958:G:O2'	47:S2:959:G:H5'	2.17	0.45
47:S2:1005:G:N1	47:S2:1006:C:N3	2.65	0.45
47:S2:1203:G:C2	47:S2:1697:A:C6	3.04	0.45
47:S2:1261:C:H3'	47:S2:1261:C:P	2.57	0.45
47:S2:1266:C:C2'	47:S2:1267:C:H5'	2.47	0.45
47:S2:1361:G:C8	47:S2:1362:U:C2	3.05	0.45
47:S2:1368:U:N3	47:S2:1372:U:O4	2.50	0.45
47:S2:1432:U:H5'	47:S2:1433:C:OP2	2.16	0.45
47:S2:1476:A:H2'	47:S2:1477:U:H5'	1.99	0.45
48:SA:138:SER:HB2	48:SA:156:TYR:CZ	2.52	0.45
48:SA:191:ARG:HG3	48:SA:191:ARG:O	2.17	0.45
52:SF:127:ARG:HG3	66:Sc:68:LEU:CD2	2.40	0.45
52:SF:138:ALA:HB2	52:SF:203:ASN:O	2.17	0.45
54:SI:117:TYR:CD2	54:SI:156:ALA:HB1	2.52	0.45
54:SI:165:GLN:NE2	54:SI:171:LEU:HD23	2.31	0.45
56:SL:4:ILE:HD13	56:SL:54:THR:HG22	1.99	0.45
56:SL:57:ASP:OD2	56:SL:60:CYS:N	2.50	0.45
65:Sa:42:ARG:O	65:Sa:66:LYS:HB3	2.17	0.45
69:SC:192:LEU:N	69:SC:227:ARG:HB3	2.30	0.45
71:SJ:32:ILE:HG22	71:SJ:32:ILE:O	2.16	0.45
71:SJ:50:LEU:HD23	71:SJ:50:LEU:C	2.42	0.45
74:SO:13:GLN:HA	74:SO:14:VAL:HA	1.68	0.45
1:L5:107:G:H4'	1:L5:335:A:H2	1.81	0.45
1:L5:167:C:N3	1:L5:269:G:C2	2.85	0.45
1:L5:207:G:H1'	1:L5:406:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:315:G:C8	29:La:62:HIS:HB2	2.52	0.45
1:L5:317:A:C2'	1:L5:318:A:H5'	2.40	0.45
1:L5:489:C:H42	1:L5:664:G:H1	1.65	0.45
1:L5:679:C:H2'	1:L5:680:G:C5'	2.47	0.45
1:L5:707:C:H42	1:L5:1290:G:H1	1.65	0.45
1:L5:970:G:P	1:L5:970:G:N2	2.87	0.45
1:L5:972:C:C4	1:L5:973:G:N1	2.84	0.45
1:L5:1359:G:N3	1:L5:1359:G:H2'	2.32	0.45
1:L5:1392:A:H2'	1:L5:1393:G:H8	1.82	0.45
1:L5:1422:G:C2'	1:L5:1423:U:H5'	2.47	0.45
1:L5:1629:G:H8	1:L5:1629:G:O5'	2.00	0.45
1:L5:1661:C:H5'	29:La:13:GLY:CA	2.47	0.45
1:L5:1875:C:C6	1:L5:1875:C:C3'	3.00	0.45
1:L5:2114:G:O2'	1:L5:2115:G:N7	2.45	0.45
1:L5:2338:C:O2'	45:Lr:13:CYS:HB3	2.17	0.45
1:L5:2593:C:N4	1:L5:2753:G:H22	2.15	0.45
1:L5:2598:A:H2'	1:L5:2599:G:H5'	1.99	0.45
1:L5:2854:G:H3'	1:L5:2854:G:H8	1.82	0.45
1:L5:3724:A:H2'	1:L5:3725:G:H5'	1.99	0.45
1:L5:3872:A:H2'	1:L5:3873:G:C5'	2.47	0.45
1:L5:3918:G:C2	1:L5:3919:C:C2	3.05	0.45
1:L5:3928:A:C4	1:L5:4184:G:N2	2.85	0.45
1:L5:4037:C:N4	1:L5:4050:A:H2'	2.32	0.45
1:L5:4250:G:H4'	13:LJ:106:GLY:C	2.42	0.45
1:L5:4301:U:H4'	22:LT:54:HIS:CD2	2.52	0.45
1:L5:4319:C:C2'	1:L5:4320:G:H5'	2.47	0.45
1:L5:4421:C:H6	1:L5:4421:C:O5'	1.99	0.45
1:L5:4422:A:C2	1:L5:4423:U:H1'	2.52	0.45
1:L5:4439:U:H2'	1:L5:4440:G:O4'	2.17	0.45
1:L5:4886:C:H2'	1:L5:4887:C:H5'	1.98	0.45
1:L5:4941:G:C2	8:LE:190:HIS:HB2	2.52	0.45
2:L7:65:G:H8	2:L7:65:G:O5'	2.00	0.45
4:LA:28:ARG:HD2	4:LA:123:ARG:CD	2.47	0.45
4:LA:104:VAL:HG12	4:LA:146:THR:HG21	1.98	0.45
5:LB:144:LYS:HG2	5:LB:147:GLU:OE2	2.16	0.45
5:LB:284:ILE:HG22	5:LB:285:TYR:N	2.32	0.45
6:LC:156:ASP:CG	6:LC:254:GLU:HB3	2.42	0.45
8:LE:182:ASN:O	8:LE:184:VAL:HG23	2.17	0.45
9:LF:66:ARG:HA	9:LF:69:ILE:HD12	2.00	0.45
13:LJ:39:VAL:O	13:LJ:43:LEU:HB2	2.17	0.45
14:LL:55:ILE:HD12	14:LL:55:ILE:HA	1.87	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:LQ:12:LYS:HE2	19:LQ:14:ARG:NH2	2.32	0.45
19:LQ:101:CYS:SG	19:LQ:126:LEU:HD13	2.56	0.45
24:LV:16:ILE:HD11	24:LV:57:VAL:O	2.16	0.45
24:LV:113:LYS:O	24:LV:113:LYS:HG2	2.17	0.45
25:LW:102:LYS:HA	25:LW:105:ARG:NH1	2.31	0.45
25:LW:113:LYS:O	25:LW:116:LYS:HB3	2.17	0.45
27:LY:118:ILE:HG23	27:LY:119:LEU:N	2.31	0.45
28:LZ:49:TYR:HB3	28:LZ:50:PRO:HD2	1.99	0.45
33:Le:82:VAL:HG22	33:Le:111:ILE:HG13	1.99	0.45
40:Ll:12:PHE:CE1	40:Ll:16:LYS:HD2	2.52	0.45
44:Lp:8:VAL:O	44:Lp:11:VAL:HG22	2.15	0.45
47:S2:6:G:H5'	47:S2:602:G:H4'	1.98	0.45
47:S2:312:G:H5'	47:S2:313:A:OP2	2.16	0.45
47:S2:439:A:C2	47:S2:440:G:C4	3.05	0.45
47:S2:459:C:H3'	47:S2:460:A:H8	1.81	0.45
47:S2:554:A:H2	47:S2:555:A:N6	2.15	0.45
47:S2:556:U:O2'	47:S2:557:U:OP2	2.34	0.45
47:S2:635:G:C6	47:S2:636:C:C4	3.05	0.45
47:S2:1165:G:H2'	47:S2:1165:G:N3	2.32	0.45
47:S2:1534:C:O2	47:S2:1598:G:N2	2.50	0.45
47:S2:1598:G:C5'	77:SZ:80:ARG:HD3	2.47	0.45
47:S2:1622:U:H4'	47:S2:1623:A:OP2	2.17	0.45
47:S2:1869:A:H5'	47:S2:1869:A:N3	2.31	0.45
49:SB:79:VAL:HG12	49:SB:80:ALA:N	2.32	0.45
50:SD:158:ILE:HD11	50:SD:189:MET:HE1	1.99	0.45
51:SE:73:ASP:C	51:SE:164:LEU:HD23	2.42	0.45
51:SE:198:ARG:HA	51:SE:208:VAL:HA	1.99	0.45
52:SF:34:SER:HA	66:Sc:55:VAL:CB	2.47	0.45
56:SL:132:ARG:O	56:SL:134:LEU:HD12	2.17	0.45
57:SP:43:ARG:NH2	57:SP:47:ARG:NH2	2.64	0.45
58:SQ:81:ILE:HA	58:SQ:84:ILE:CD1	2.42	0.45
60:SS:111:LEU:HA	60:SS:114:LEU:CD1	2.46	0.45
62:SU:20:ILE:CG2	62:SU:114:VAL:HG13	2.36	0.45
62:SU:39:LEU:HD13	62:SU:89:ILE:HD13	1.99	0.45
65:Sa:26:CYS:SG	65:Sa:74:CYS:HB3	2.57	0.45
65:Sa:45:VAL:HG21	65:Sa:50:VAL:HA	1.99	0.45
68:Sg:24:THR:HG23	68:Sg:30:MET:HG2	1.98	0.45
68:Sg:32:LEU:HD12	68:Sg:32:LEU:O	2.17	0.45
69:SC:142:LYS:HG2	69:SC:143:CYS:N	2.31	0.45
70:SG:23:LYS:HA	70:SG:40:ALA:O	2.17	0.45
74:SO:30:VAL:HA	74:SO:94:HIS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:SY:129:LYS:CA	76:SY:132:LYS:HG2	2.47	0.45
1:L5:68:U:O2'	1:L5:100:C:H4'	2.17	0.44
1:L5:103:G:H1'	1:L5:1381:U:O2	2.17	0.44
1:L5:203:U:N3	1:L5:213:G:N1	2.64	0.44
1:L5:290:U:H3'	1:L5:290:U:H6	1.82	0.44
1:L5:444:G:P	34:Lf:54:LYS:HZ1	2.39	0.44
1:L5:516:C:H3'	1:L5:516:C:C6	2.50	0.44
1:L5:737:C:H42	1:L5:927:G:H1	1.63	0.44
1:L5:741:C:O2	1:L5:742:G:H1'	2.17	0.44
1:L5:962:C:N3	1:L5:2263:A:H2	2.14	0.44
1:L5:1097:C:N3	1:L5:1199:G:N2	2.64	0.44
1:L5:1208:G:C2'	1:L5:1209:U:C5'	2.94	0.44
1:L5:1288:G:H8	8:LE:135:GLN:HE22	1.65	0.44
1:L5:1563:A:H5"	1:L5:1564:A:OP2	2.17	0.44
1:L5:1618:G:C2'	1:L5:1619:G:H5'	2.47	0.44
1:L5:1633:G:O2'	1:L5:1634:A:H5"	2.16	0.44
1:L5:1634:A:N6	4:LA:3:ARG:HH12	2.15	0.44
1:L5:1928:C:O2	1:L5:1928:C:O2'	2.33	0.44
1:L5:2084:C:C6	1:L5:2084:C:C3'	2.99	0.44
1:L5:2245:G:N3	1:L5:2245:G:C3'	2.80	0.44
1:L5:2273:G:H2'	1:L5:2274:C:H6	1.82	0.44
1:L5:2385:U:H5"	20:LR:5:ARG:NH1	2.31	0.44
1:L5:2454:U:H2'	1:L5:2455:G:H5'	1.99	0.44
1:L5:2596:G:C2	1:L5:2750:G:N1	2.85	0.44
1:L5:2659:A:C2	1:L5:2676:A:H1'	2.52	0.44
1:L5:2861:C:H2'	1:L5:2862:G:O4'	2.17	0.44
1:L5:4104:G:OP2	1:L5:4105:A:N6	2.50	0.44
1:L5:4370:G:C6	81:L5:5101:3HE:H18	2.51	0.44
1:L5:4897:G:C5	1:L5:4898:G:N7	2.85	0.44
1:L5:5028:G:H2'	1:L5:5029:C:O4'	2.16	0.44
2:L7:79:U:O2	2:L7:98:G:N1	2.51	0.44
3:L8:155:C:P	10:LG:89:ARG:HH12	2.40	0.44
4:LA:4:VAL:O	4:LA:4:VAL:HG13	2.16	0.44
5:LB:345:LEU:C	5:LB:345:LEU:HD12	2.42	0.44
9:LF:197:VAL:HG22	9:LF:198:GLY:N	2.26	0.44
10:LG:90:GLN:HG3	10:LG:91:THR:HG23	1.99	0.44
10:LG:180:PRO:HG2	10:LG:219:VAL:HG13	1.99	0.44
10:LG:263:THR:CG2	49:SB:225:LEU:HD22	2.47	0.44
13:LJ:99:PHE:HD2	13:LJ:163:MET:CG	2.25	0.44
14:LL:104:ASN:HD22	14:LL:110:LEU:CD1	2.30	0.44
16:LN:47:LYS:HE2	16:LN:51:LEU:CD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:LO:179:LYS:HA	17:LO:182:GLU:HB3	1.99	0.44
18:LP:13:LYS:O	18:LP:13:LYS:HG3	2.17	0.44
18:LP:39:MET:C	18:LP:113:VAL:HG23	2.42	0.44
19:LQ:88:ASP:CB	19:LQ:112:ARG:HH11	2.31	0.44
20:LR:23:TRP:HB2	20:LR:53:LYS:HE3	1.98	0.44
23:LU:26:THR:HG23	23:LU:68:SER:OG	2.17	0.44
23:LU:42:PHE:CE1	23:LU:46:ARG:HD2	2.52	0.44
24:LV:40:ILE:O	24:LV:41:SER:HB3	2.16	0.44
25:LW:13:ILE:CD1	25:LW:30:GLN:HB3	2.47	0.44
25:LW:96:GLN:HA	25:LW:101:ARG:HB2	1.98	0.44
26:LX:78:LYS:HE2	26:LX:78:LYS:HB3	1.82	0.44
27:LY:87:ARG:O	27:LY:95:VAL:N	2.45	0.44
41:Lm:82:LEU:O	41:Lm:82:LEU:HG	2.17	0.44
46:Lz:40:ASN:HD22	46:Lz:198:TRP:N	2.15	0.44
46:Lz:162:VAL:HG12	46:Lz:163:LEU:N	2.32	0.44
46:Lz:191:VAL:HA	46:Lz:199:GLN:OE1	2.17	0.44
46:Lz:194:LEU:HD23	46:Lz:198:TRP:O	2.17	0.44
47:S2:53:C:O2'	47:S2:54:A:H5'	2.18	0.44
47:S2:70:G:H2'	47:S2:70:G:N3	2.31	0.44
47:S2:108:G:N2	47:S2:354:U:C2	2.85	0.44
47:S2:122:G:C2	47:S2:123:G:C4	3.05	0.44
47:S2:124:U:C5	47:S2:125:C:C5	3.06	0.44
47:S2:160:U:H3	47:S2:162:C:HO2'	1.65	0.44
47:S2:395:G:C5'	56:SL:82:MET:HE3	2.42	0.44
47:S2:447:A:OP1	54:SI:49:ARG:NH1	2.50	0.44
47:S2:531:A:H3'	47:S2:531:A:H8	1.82	0.44
47:S2:568:C:H1'	47:S2:583:C:N4	2.32	0.44
47:S2:658:U:O4	64:SX:24:ASP:HB2	2.16	0.44
47:S2:908:A:C2	47:S2:909:G:C8	3.05	0.44
47:S2:1073:U:O2'	47:S2:1074:C:H5'	2.17	0.44
47:S2:1155:U:O3'	75:SW:71:LYS:HE2	2.17	0.44
47:S2:1419:C:O2'	47:S2:1420:G:O4'	2.36	0.44
47:S2:1505:U:H5'	47:S2:1506:A:OP1	2.17	0.44
47:S2:1546:G:OP1	58:SQ:18:THR:HG22	2.16	0.44
47:S2:1563:G:H2'	47:S2:1564:C:O4'	2.18	0.44
47:S2:1597:C:H5'	77:SZ:83:LEU:HD23	1.99	0.44
47:S2:1726:G:N2	47:S2:1809:A:O4'	2.49	0.44
49:SB:31:TYR:O	49:SB:46:LYS:HA	2.17	0.44
49:SB:71:LEU:HA	49:SB:74:LEU:HB2	1.99	0.44
49:SB:123:ALA:O	49:SB:138:PHE:HA	2.16	0.44
49:SB:133:TYR:CD1	49:SB:221:PRO:HD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:7:LYS:HZ2	62:SU:25:THR:HG22	1.80	0.44
50:SD:27:ARG:O	55:SK:61:GLN:NE2	2.49	0.44
50:SD:185:LYS:HD3	50:SD:187:LYS:CD	2.47	0.44
50:SD:212:GLU:CB	50:SD:213:PRO:HD2	2.33	0.44
51:SE:11:ARG:HH11	51:SE:20:LEU:CB	2.23	0.44
51:SE:158:ASP:CG	51:SE:175:PHE:H	2.24	0.44
53:SH:146:VAL:CG1	53:SH:147:LYS:N	2.81	0.44
56:SL:88:ILE:O	56:SL:88:ILE:HG13	2.17	0.44
58:SQ:28:GLY:HA3	58:SQ:67:ASP:HB3	1.99	0.44
58:SQ:72:VAL:O	58:SQ:73:LYS:HD3	2.17	0.44
58:SQ:109:LYS:HA	58:SQ:112:LEU:CB	2.46	0.44
60:SS:82:TRP:CZ3	60:SS:83:PHE:HE1	2.34	0.44
61:ST:28:LEU:HD13	61:ST:54:TYR:HE1	1.81	0.44
62:SU:38:ASP:OD1	62:SU:104:ILE:HD12	2.17	0.44
62:SU:56:MET:HG2	62:SU:57:PRO:CD	2.48	0.44
65:Sa:21:ILE:HG13	65:Sa:22:ARG:N	2.31	0.44
65:Sa:26:CYS:O	65:Sa:27:ALA:HB3	2.17	0.44
66:Sc:51:ARG:HA	66:Sc:52:GLU:HA	1.67	0.44
68:Sg:127:LYS:HD2	68:Sg:148:SER:O	2.17	0.44
68:Sg:198:VAL:HA	68:Sg:208:ALA:O	2.17	0.44
70:SG:52:ILE:HG22	70:SG:110:ASN:O	2.17	0.44
72:SM:85:LEU:HD11	72:SM:109:VAL:HG22	1.99	0.44
74:SO:22:ALA:O	74:SO:25:GLU:HB3	2.17	0.44
74:SO:33:ILE:HD11	74:SO:115:ALA:HB3	1.99	0.44
78:Sb:55:LEU:HD11	78:Sb:60:SER:O	2.17	0.44
1:L5:22:G:N1	3:L8:35:C:C4	2.85	0.44
1:L5:27:C:O5'	1:L5:27:C:H6	2.00	0.44
1:L5:280:G:H5"	16:LN:14:LYS:HZ1	1.79	0.44
1:L5:324:A:H2'	1:L5:325:U:O4'	2.18	0.44
1:L5:335:A:N7	1:L5:336:A:C6	2.85	0.44
1:L5:347:A:C2	1:L5:348:G:C5	3.05	0.44
1:L5:494:U:N3	1:L5:660:A:C2	2.85	0.44
1:L5:725:G:H2'	1:L5:726:G:C8	2.50	0.44
1:L5:752:G:H2'	1:L5:753:C:O4'	2.18	0.44
1:L5:1100:U:H2'	1:L5:1167:C:H5	1.83	0.44
1:L5:1208:G:N1	1:L5:1209:U:H5	2.16	0.44
1:L5:1349:G:C6	1:L5:1350:C:C4	3.06	0.44
1:L5:1479:G:N2	14:LL:184:MET:HE1	2.32	0.44
1:L5:1502:G:H22	29:La:77:LYS:HZ3	1.65	0.44
1:L5:1631:A:N7	4:LA:199:VAL:HG21	2.31	0.44
1:L5:2354:G:C2	1:L5:2355:G:C4	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2390:G:O2'	32:Ld:73:TRP:HE3	1.99	0.44
1:L5:2430:C:H2'	1:L5:2431:A:C8	2.52	0.44
1:L5:2442:G:C2	1:L5:2443:G:C8	3.05	0.44
1:L5:2476:G:N3	1:L5:2502:G:C2	2.85	0.44
1:L5:3623:C:O5'	1:L5:3623:C:H6	1.99	0.44
1:L5:3687:A:C2	1:L5:3688:U:C2	3.05	0.44
1:L5:3879:G:H4'	1:L5:3880:G:OP1	2.17	0.44
1:L5:4302:U:H5	1:L5:4303:C:H6	1.64	0.44
1:L5:4303:C:C4	1:L5:4305:G:N1	2.85	0.44
1:L5:4408:G:N2	1:L5:4435:U:O2	2.50	0.44
1:L5:4494:G:C6	1:L5:4507:A:C2	3.05	0.44
1:L5:4691:A:C2	1:L5:4700:A:C4	3.06	0.44
1:L5:4737:G:N3	1:L5:4737:G:H2'	2.32	0.44
1:L5:4751:G:C2'	1:L5:4752:U:H5'	2.47	0.44
1:L5:4754:G:H2'	1:L5:4755:G:H5'	1.99	0.44
1:L5:4864:U:H6	1:L5:4864:U:O5'	2.01	0.44
1:L5:4938:A:H3'	8:LE:156:ARG:HH22	1.82	0.44
1:L5:4985:U:H4'	5:LB:175:GLN:HG3	1.99	0.44
1:L5:5047:C:H4'	1:L5:5048:A:OP1	2.16	0.44
2:L7:43:U:C2'	2:L7:44:C:H5'	2.47	0.44
2:L7:103:A:H3'	2:L7:104:C:C5'	2.46	0.44
5:LB:163:ILE:HG22	5:LB:164:ALA:N	2.32	0.44
5:LB:225:GLY:HA2	5:LB:274:TYR:HB2	1.99	0.44
6:LC:39:PHE:HE2	6:LC:119:GLN:NE2	2.15	0.44
6:LC:51:PRO:HG3	14:LL:26:PHE:CD1	2.53	0.44
8:LE:59:ARG:O	8:LE:62:MET:HB3	2.16	0.44
8:LE:253:VAL:O	8:LE:256:GLN:HB3	2.16	0.44
9:LF:143:GLY:HA3	9:LF:240:ILE:HG21	2.00	0.44
9:LF:176:ALA:O	9:LF:180:GLY:N	2.44	0.44
10:LG:58:PRO:CG	26:LX:46:PHE:CD2	3.01	0.44
10:LG:82:GLN:HB3	10:LG:233:ILE:CG2	2.47	0.44
12:LI:31:ILE:HG13	12:LI:66:GLU:OE1	2.16	0.44
12:LI:135:ILE:HG22	12:LI:136:MET:N	2.32	0.44
13:LJ:22:LEU:HD11	13:LJ:44:THR:CG2	2.39	0.44
14:LL:130:LYS:HG3	14:LL:132:SER:O	2.17	0.44
15:LM:42:CYS:SG	15:LM:77:TRP:CE2	3.11	0.44
15:LM:64:PHE:CZ	15:LM:73:VAL:HA	2.52	0.44
17:LO:127:VAL:HG12	17:LO:127:VAL:O	2.17	0.44
18:LP:9:GLU:OE2	18:LP:151:THR:HG21	2.17	0.44
28:LZ:29:ILE:HB	28:LZ:40:HIS:O	2.17	0.44
28:LZ:49:TYR:CD2	28:LZ:133:LYS:HG3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:La:118:PRO:C	29:La:120:GLN:N	2.75	0.44
32:Ld:22:THR:CB	32:Ld:89:SER:HA	2.47	0.44
32:Ld:47:LYS:O	32:Ld:50:ARG:HB2	2.17	0.44
34:Lf:11:PHE:CE1	34:Lf:26:ALA:HB1	2.44	0.44
35:Lg:9:ARG:HG3	35:Lg:34:TYR:HE2	1.82	0.44
46:Lz:53:VAL:CG1	46:Lz:157:PHE:HE1	2.27	0.44
46:Lz:60:ARG:CB	46:Lz:61:PRO:HD3	2.42	0.44
47:S2:29:G:H4'	64:SX:129:SER:OG	2.17	0.44
47:S2:59:U:O2'	47:S2:60:A:O5'	2.34	0.44
47:S2:499:G:C2	47:S2:501:C:H1'	2.52	0.44
47:S2:582:C:H4'	71:SJ:162:ARG:HH22	1.82	0.44
47:S2:820:U:H6	47:S2:820:U:O5'	1.99	0.44
47:S2:941:C:HO2'	47:S2:942:G:H5'	1.82	0.44
47:S2:1119:A:H2'	47:S2:1120:U:O4'	2.17	0.44
47:S2:1135:C:O2'	47:S2:1136:U:H5'	2.16	0.44
47:S2:1270:G:N2	47:S2:1513:C:C2	2.85	0.44
47:S2:1317:C:H5'	47:S2:1318:G:H5"	1.98	0.44
47:S2:1491:G:O2'	62:SU:71:GLY:HA2	2.16	0.44
47:S2:1721:U:C3'	47:S2:1722:G:C5'	2.86	0.44
48:SA:90:PHE:CZ	48:SA:94:THR:HG21	2.50	0.44
49:SB:137:LEU:HA	49:SB:215:VAL:HG12	1.99	0.44
49:SB:231:LEU:C	49:SB:231:LEU:HD23	2.42	0.44
50:SD:217:ILE:CG2	50:SD:218:LEU:CD1	2.94	0.44
53:SH:20:GLU:C	53:SH:23:ILE:H	2.24	0.44
53:SH:68:GLN:O	53:SH:71:SER:N	2.40	0.44
55:SK:11:ILE:HG21	55:SK:49:MET:HE3	1.99	0.44
55:SK:16:PHE:HE1	55:SK:80:ARG:CB	2.30	0.44
56:SL:142:VAL:C	56:SL:143:LEU:HD12	2.42	0.44
59:SR:77:GLU:HA	59:SR:80:ARG:HB3	2.00	0.44
59:SR:120:THR:HG22	59:SR:120:THR:O	2.17	0.44
62:SU:35:VAL:HA	62:SU:38:ASP:CB	2.48	0.44
68:Sg:193:GLY:HA3	68:Sg:213:ASP:N	2.31	0.44
68:Sg:236:ILE:HG12	68:Sg:257:LYS:HZ3	1.83	0.44
68:Sg:297:THR:CG2	68:Sg:311:GLN:HE21	2.29	0.44
74:SO:37:PHE:O	74:SO:38:ASN:HB2	2.17	0.44
79:Se:45:VAL:CG2	79:Se:46:VAL:H	2.27	0.44
1:L5:89:C:H2'	1:L5:90:G:C5'	2.47	0.44
1:L5:268:G:C2	1:L5:269:G:C8	3.05	0.44
1:L5:370:U:H2'	1:L5:371:A:O5'	2.17	0.44
1:L5:516:C:C6	1:L5:516:C:C3'	3.00	0.44
1:L5:956:A:H3'	1:L5:957:G:N7	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1077:C:H3'	1:L5:1078:A:O2'	2.18	0.44
1:L5:1176:C:N4	1:L5:1183:C:C4	2.85	0.44
1:L5:1216:C:H3'	1:L5:1217:G:C8	2.52	0.44
1:L5:1597:G:C2	1:L5:1599:A:N6	2.85	0.44
1:L5:1812:C:O2'	30:Lb:53:GLY:O	2.35	0.44
1:L5:1862:U:H2'	1:L5:1863:U:C6	2.51	0.44
1:L5:1949:U:C4'	11:LH:65:LYS:HD2	2.44	0.44
1:L5:2072:C:C6	1:L5:2072:C:H3'	2.52	0.44
1:L5:2079:G:N2	1:L5:2278:G:C4	2.85	0.44
1:L5:2532:C:C5	1:L5:2533:C:H5	2.36	0.44
1:L5:2651:C:O2'	35:Lg:54:ARG:NH2	2.51	0.44
1:L5:2818:C:H2'	1:L5:2819:U:O5'	2.17	0.44
1:L5:2876:G:N2	1:L5:2877:G:C8	2.85	0.44
1:L5:3635:A:H61	44:Lp:18:TYR:N	2.15	0.44
1:L5:3651:A:H62	1:L5:3652:A:N6	2.16	0.44
1:L5:3709:U:H5'	1:L5:3710:G:H8	1.83	0.44
1:L5:3781:C:H3'	1:L5:3781:C:H6	1.82	0.44
1:L5:3821:A:N1	1:L5:3822:U:C2	2.85	0.44
1:L5:4329:G:H5'	1:L5:4330:G:O5'	2.18	0.44
2:L7:27:G:O3'	13:LJ:147:ARG:NH2	2.50	0.44
2:L7:33:U:H2'	2:L7:34:C:O5'	2.17	0.44
2:L7:86:G:N2	2:L7:92:C:O2	2.51	0.44
2:L7:98:G:OP1	21:LS:57:SER:HB3	2.17	0.44
3:L8:29:G:C2	3:L8:30:U:C6	3.06	0.44
4:LA:148:VAL:O	4:LA:155:LYS:HA	2.17	0.44
5:LB:136:LYS:CD	5:LB:145:GLN:HB3	2.46	0.44
6:LC:153:VAL:HG12	6:LC:154:VAL:N	2.30	0.44
7:LD:54:ARG:HB2	7:LD:61:ILE:HD13	1.98	0.44
7:LD:146:LEU:CD1	7:LD:163:LEU:HD13	2.43	0.44
7:LD:152:ARG:NH1	7:LD:154:THR:HG22	2.32	0.44
9:LF:93:ILE:HD13	9:LF:247:MET:HE3	1.99	0.44
9:LF:161:LYS:HG3	9:LF:209:TRP:CZ3	2.53	0.44
9:LF:243:LEU:CD2	9:LF:247:MET:HE2	2.32	0.44
10:LG:207:VAL:HG23	10:LG:212:LYS:HB3	1.98	0.44
10:LG:225:ASN:O	10:LG:229:ARG:HD3	2.17	0.44
11:LH:1:MET:HG3	11:LH:2:LYS:N	2.33	0.44
11:LH:47:LEU:HD23	11:LH:55:LEU:CD1	2.46	0.44
11:LH:91:LYS:HG2	11:LH:144:LEU:O	2.17	0.44
18:LP:112:LEU:HD12	18:LP:112:LEU:N	2.32	0.44
20:LR:137:ILE:O	20:LR:137:ILE:HG13	2.17	0.44
21:LS:9:GLU:HG2	21:LS:33:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:LS:33:PHE:CE2	21:LS:106:VAL:HG21	2.53	0.44
24:LV:106:VAL:HG12	24:LV:107:ASN:N	2.32	0.44
28:LZ:11:VAL:CG2	28:LZ:80:LEU:HD22	2.46	0.44
28:LZ:31:ASP:O	28:LZ:33:THR:HG22	2.17	0.44
29:La:94:LYS:O	29:La:95:THR:OG1	2.28	0.44
32:Ld:120:VAL:HG12	32:Ld:122:VAL:N	2.33	0.44
33:Le:122:VAL:HG12	33:Le:124:ASN:H	1.83	0.44
34:Lf:50:VAL:HA	34:Lf:69:VAL:CG1	2.29	0.44
47:S2:92:A:C6	47:S2:446:G:C6	3.05	0.44
47:S2:153:G:C2	47:S2:154:U:C4	3.05	0.44
47:S2:161:U:C4'	76:SY:116:LYS:HG3	2.46	0.44
47:S2:190:G:C2'	47:S2:209:A:N6	2.79	0.44
47:S2:370:G:N2	47:S2:372:U:C5	2.86	0.44
47:S2:423:U:C2'	47:S2:424:C:H5'	2.48	0.44
47:S2:804:U:H2'	47:S2:805:U:C6	2.53	0.44
47:S2:999:G:C6	47:S2:1000:C:C4	3.06	0.44
47:S2:1065:G:C2	47:S2:1066:U:C4	3.05	0.44
47:S2:1174:U:H2'	47:S2:1175:G:H8	1.81	0.44
47:S2:1203:G:N2	47:S2:1697:A:C4	2.85	0.44
47:S2:1245:G:O2'	47:S2:1492:U:OP1	2.35	0.44
47:S2:1334:G:OP1	50:SD:139:SER:OG	2.34	0.44
47:S2:1369:A:H2'	47:S2:1370:A:C8	2.52	0.44
47:S2:1533:A:C3'	47:S2:1534:C:H5"	2.47	0.44
47:S2:1553:C:H1'	47:S2:1555:U:H4'	2.00	0.44
47:S2:1664:A:HO2'	47:S2:1665:G:P	2.39	0.44
47:S2:1731:A:O2'	47:S2:1732:G:H5'	2.17	0.44
47:S2:1777:G:H2'	47:S2:1778:C:C4'	2.48	0.44
48:SA:3:GLY:N	48:SA:56:GLU:OE1	2.50	0.44
48:SA:39:TYR:HB3	48:SA:48:ILE:O	2.17	0.44
48:SA:57:LYS:HD3	63:SV:83:PHE:CZ	2.52	0.44
49:SB:105:LEU:HD21	49:SB:211:PHE:CD2	2.53	0.44
49:SB:189:ILE:CB	49:SB:190:PRO:HD3	2.47	0.44
51:SE:212:ASP:CG	51:SE:216:ASN:HB2	2.43	0.44
53:SH:79:LEU:HD23	53:SH:94:PHE:CE2	2.53	0.44
53:SH:147:LYS:O	53:SH:148:LEU:HB2	2.17	0.44
54:SI:110:ARG:HA	54:SI:121:LEU:CD2	2.43	0.44
57:SP:80:LEU:HD12	57:SP:82:ASP:H	1.82	0.44
57:SP:98:ASN:CB	57:SP:99:GLY:HA3	2.40	0.44
58:SQ:107:GLU:N	58:SQ:107:GLU:OE1	2.40	0.44
60:SS:117:ILE:O	60:SS:117:ILE:HG13	2.16	0.44
62:SU:88:LEU:O	62:SU:89:ILE:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:SV:9:VAL:HG23	63:SV:10:ASP:N	2.32	0.44
72:SM:63:LYS:C	72:SM:66:GLU:HG2	2.43	0.44
73:SN:85:PRO:HD3	73:SN:135:LEU:HD21	1.99	0.44
1:L5:21:G:N2	1:L5:22:G:H1'	2.32	0.44
1:L5:119:G:H1	10:LG:132:ARG:CB	2.22	0.44
1:L5:292:G:H2'	1:L5:293:G:O4'	2.18	0.44
1:L5:327:U:O2'	37:Li:30:ARG:HD2	2.17	0.44
1:L5:384:A:N1	1:L5:386:A:C5	2.85	0.44
1:L5:488:G:C2	1:L5:489:C:H1'	2.52	0.44
1:L5:495:C:H6	1:L5:495:C:O5'	2.00	0.44
1:L5:977:C:P	8:LE:62:MET:HE2	2.57	0.44
1:L5:989:U:HO2'	1:L5:990:C:H6	1.63	0.44
1:L5:1212:G:H4'	9:LF:63:GLN:NE2	2.33	0.44
1:L5:1510:G:O2'	1:L5:1511:U:H5'	2.18	0.44
1:L5:1624:G:H4'	1:L5:1624:G:OP1	2.16	0.44
1:L5:1764:G:C3'	1:L5:1765:A:C5'	2.95	0.44
1:L5:1803:G:N2	1:L5:1806:G:H21	2.15	0.44
1:L5:1899:G:C6	1:L5:1900:C:N3	2.86	0.44
1:L5:2088:A:OP1	19:LQ:38:ARG:NH1	2.50	0.44
1:L5:2428:A:C2	1:L5:2789:A:C6	3.06	0.44
1:L5:2475:G:O6	26:LX:51:THR:N	2.23	0.44
1:L5:2580:U:OP1	28:LZ:36:ARG:NH1	2.48	0.44
1:L5:2708:U:H2'	1:L5:2708:U:O2	2.18	0.44
1:L5:2774:C:C4	1:L5:2775:C:N4	2.85	0.44
1:L5:2853:C:H2'	1:L5:2854:G:C5'	2.47	0.44
1:L5:2863:G:N3	1:L5:3619:G:H1'	2.33	0.44
1:L5:3658:C:O2'	4:LA:238:ILE:O	2.35	0.44
1:L5:3708:C:H2'	1:L5:3710:G:C5	2.52	0.44
1:L5:3745:U:C2'	1:L5:3746:A:H5'	2.47	0.44
1:L5:3777:G:N2	1:L5:3815:G:H2'	2.32	0.44
1:L5:4302:U:C5	1:L5:4303:C:C6	3.06	0.44
1:L5:4344:U:H2'	1:L5:4345:C:H6	1.77	0.44
1:L5:4507:A:C2	1:L5:4508:C:N3	2.85	0.44
1:L5:4523:A:C2	1:L5:4559:A:C4	3.05	0.44
1:L5:4661:G:H2'	1:L5:4662:C:O4'	2.18	0.44
1:L5:4922:C:H2'	1:L5:4923:C:C5	2.52	0.44
1:L5:4993:G:H2'	1:L5:4994:G:O4'	2.18	0.44
4:LA:129:ALA:O	4:LA:131:GLY:N	2.51	0.44
5:LB:189:THR:HG22	5:LB:192:GLU:CB	2.48	0.44
5:LB:334:LYS:HG2	5:LB:335:GLY:N	2.31	0.44
6:LC:37:VAL:HG11	6:LC:246:VAL:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LD:157:ASN:CG	7:LD:159:VAL:HG12	2.42	0.44
8:LE:140:LEU:HD21	8:LE:144:ILE:HG22	1.97	0.44
8:LE:270:TYR:HA	15:LM:110:PHE:CZ	2.52	0.44
10:LG:165:GLU:O	10:LG:166:LEU:CB	2.65	0.44
11:LH:51:LYS:HZ1	11:LH:52:LYS:HD3	1.82	0.44
12:LI:86:HIS:CD2	12:LI:87:MET:N	2.85	0.44
12:LI:200:VAL:HA	12:LI:201:PRO:HD2	1.87	0.44
13:LJ:85:LYS:CG	13:LJ:115:LEU:HD23	2.47	0.44
19:LQ:151:HIS:CG	19:LQ:166:TYR:CE1	3.05	0.44
22:LT:27:LEU:HD12	22:LT:30:TYR:HD2	1.81	0.44
25:LW:62:GLY:O	25:LW:65:GLU:HG2	2.18	0.44
26:LX:106:LYS:HB3	26:LX:124:VAL:CG2	2.47	0.44
27:LY:47:MET:HE1	27:LY:118:ILE:CG2	2.48	0.44
28:LZ:13:VAL:O	28:LZ:14:LEU:HD12	2.17	0.44
28:LZ:100:VAL:HG22	28:LZ:100:VAL:O	2.17	0.44
32:Ld:22:THR:HB	32:Ld:89:SER:HA	1.99	0.44
39:Lk:49:ASP:HB2	39:Lk:52:LYS:HE3	1.96	0.44
41:Lm:95:ILE:CG1	41:Lm:124:LYS:HB2	2.47	0.44
41:Lm:101:ALA:HB2	41:Lm:112:LYS:HG3	1.97	0.44
45:Lr:28:GLU:OE1	45:Lr:28:GLU:N	2.45	0.44
46:Lz:177:ASP:O	46:Lz:180:VAL:HG12	2.16	0.44
47:S2:89:C:H2'	47:S2:90:G:O4'	2.17	0.44
47:S2:170:A:OP2	70:SG:140:ARG:NH1	2.51	0.44
47:S2:377:G:H5'	54:SI:98:LYS:HE2	1.99	0.44
47:S2:659:G:O2'	47:S2:662:G:H1'	2.16	0.44
47:S2:673:G:C6	47:S2:674:C:C4	3.05	0.44
47:S2:821:G:O6	71:SJ:147:PHE:HZ	1.99	0.44
47:S2:1098:C:OP1	48:SA:32:PHE:HB3	2.16	0.44
47:S2:1166:G:H2'	47:S2:1167:G:O4'	2.18	0.44
47:S2:1241:A:H1'	47:S2:1516:G:N2	2.33	0.44
47:S2:1309:C:N4	72:SM:39:ALA:HB2	2.33	0.44
47:S2:1369:A:OP1	59:SR:1:MET:HB3	2.17	0.44
47:S2:1408:U:H5	47:S2:1409:A:C4	2.36	0.44
47:S2:1414:A:N3	47:S2:1414:A:H2'	2.32	0.44
47:S2:1514:G:H2'	47:S2:1515:G:C8	2.53	0.44
47:S2:1553:C:O2'	47:S2:1554:C:P	2.74	0.44
47:S2:1711:U:H3'	47:S2:1711:U:C6	2.49	0.44
47:S2:1723:G:H2'	47:S2:1723:G:N3	2.32	0.44
49:SB:195:LYS:O	49:SB:198:GLU:HB3	2.18	0.44
51:SE:121:TYR:CA	51:SE:164:LEU:HD13	2.48	0.44
52:SF:21:GLY:HA3	52:SF:48:TYR:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:SF:60:ARG:HH21	66:Sc:49:PRO:CB	2.29	0.44
53:SH:50:GLU:HG2	53:SH:60:ILE:CG1	2.46	0.44
54:SI:103:LEU:CD1	54:SI:172:LEU:HB3	2.47	0.44
55:SK:8:ARG:O	55:SK:11:ILE:HG22	2.17	0.44
57:SP:33:LEU:HA	57:SP:36:LEU:HB2	2.00	0.44
62:SU:59:LYS:N	62:SU:84:ILE:O	2.50	0.44
63:SV:3:ASN:HD21	63:SV:7:GLU:CD	2.26	0.44
63:SV:14:PRO:HB2	63:SV:23:ILE:HG23	2.00	0.44
64:SX:136:GLY:O	64:SX:139:GLU:HG3	2.17	0.44
68:Sg:40:ILE:CG2	68:Sg:59:LEU:HB2	2.46	0.44
68:Sg:109:LEU:CG	68:Sg:110:SER:H	2.29	0.44
68:Sg:198:VAL:HB	68:Sg:209:SER:HB3	2.00	0.44
68:Sg:208:ALA:HB3	68:Sg:239:LEU:HD22	1.98	0.44
72:SM:126:GLU:O	72:SM:129:LYS:HB2	2.17	0.44
75:SW:11:LEU:CD1	75:SW:74:VAL:HB	2.46	0.44
76:SY:55:ILE:HG13	76:SY:75:ILE:HD13	2.00	0.44
1:L5:154:G:C6	1:L5:155:C:N3	2.86	0.44
1:L5:207:G:C6	1:L5:208:A:C6	3.06	0.44
1:L5:227:A:OP1	27:LY:1:MET:HE2	2.18	0.44
1:L5:1244:G:H5”	1:L5:1269:G:C6	2.53	0.44
1:L5:1377:G:N2	1:L5:1380:G:O4’	2.51	0.44
1:L5:1417:C:H2’	1:L5:1418:C:C6	2.52	0.44
1:L5:1550:G:C6	1:L5:1551:C:C4	3.06	0.44
1:L5:1905:U:P	34:Lf:76:ARG:HH12	2.40	0.44
1:L5:1915:C:H4’	1:L5:1916:G:H5’	2.00	0.44
1:L5:1983:A:C3’	1:L5:1984:A:H4’	2.37	0.44
1:L5:2101:C:H2’	1:L5:2102:G:O4’	2.17	0.44
1:L5:2281:U:H2’	1:L5:2282:A:H5’	1.98	0.44
1:L5:2344:U:C3’	29:La:9:ARG:HH12	2.30	0.44
1:L5:2458:C:O2’	1:L5:2459:G:H5’	2.18	0.44
1:L5:2481:G:H21	1:L5:2498:C:N4	2.15	0.44
1:L5:2549:G:H2’	1:L5:2550:G:O4’	2.17	0.44
1:L5:3781:C:C2’	1:L5:3782:C:H5’	2.47	0.44
1:L5:3811:G:H21	1:L5:3814:U:H1’	1.81	0.44
1:L5:3935:C:C2’	1:L5:3936:A:H5’	2.47	0.44
1:L5:3944:G:H2’	1:L5:3945:A:O4’	2.17	0.44
1:L5:4044:U:OP1	1:L5:4045:G:H4’	2.17	0.44
1:L5:4077:A:C5	1:L5:4170:A:N1	2.85	0.44
1:L5:4104:G:O2’	1:L5:4105:A:H5’	2.17	0.44
1:L5:4201:G:N2	1:L5:4202:U:O4’	2.50	0.44
1:L5:4239:A:H2’	1:L5:4240:G:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4246:G:O2'	1:L5:4247:G:H5'	2.17	0.44
1:L5:4343:U:N3	1:L5:4344:U:C4	2.85	0.44
1:L5:4345:C:H2'	1:L5:4346:U:C6	2.52	0.44
1:L5:4649:G:C8	1:L5:4650:G:C8	3.05	0.44
1:L5:4745:G:N2	1:L5:4955:A:H2	2.09	0.44
2:L7:23:A:O2'	2:L7:24:C:H5"	2.18	0.44
4:LA:107:MET:HE1	4:LA:113:VAL:HG11	2.00	0.44
4:LA:242:ARG:HG2	4:LA:242:ARG:HH11	1.82	0.44
5:LB:4:ARG:O	5:LB:5:LYS:HB3	2.17	0.44
5:LB:194:LEU:C	5:LB:194:LEU:HD23	2.42	0.44
5:LB:218:ASP:CG	5:LB:280:ILE:HG22	2.42	0.44
5:LB:237:THR:CG2	5:LB:238:LYS:N	2.80	0.44
5:LB:378:ARG:HG3	5:LB:379:PHE:CD2	2.53	0.44
8:LE:67:ALA:HA	8:LE:69:TYR:CE2	2.52	0.44
9:LF:95:ILE:CD1	9:LF:223:LYS:HG3	2.40	0.44
9:LF:112:LEU:O	9:LF:113:ARG:CG	2.65	0.44
16:LN:108:ARG:HD2	16:LN:161:MET:CE	2.47	0.44
17:LO:193:THR:O	17:LO:197:LYS:HG2	2.17	0.44
19:LQ:88:ASP:HB2	19:LQ:112:ARG:HH11	1.83	0.44
24:LV:97:TYR:CZ	25:LW:21:TYR:HD1	2.35	0.44
27:LY:34:LEU:HD13	27:LY:45:ARG:C	2.43	0.44
29:La:103:VAL:HG21	29:La:126:ALA:CB	2.48	0.44
41:Lm:85:LEU:HD12	41:Lm:88:LYS:HE2	1.99	0.44
44:Lp:55:TRP:HZ2	44:Lp:70:THR:N	2.16	0.44
46:Lz:23:ARG:HA	46:Lz:212:LYS:CE	2.48	0.44
47:S2:491:C:OP1	76:SY:104:ARG:HG2	2.17	0.44
47:S2:616:A:N3	79:Se:12:VAL:HG21	2.33	0.44
47:S2:1096:G:N2	47:S2:1136:U:O2	2.47	0.44
47:S2:1106:C:O2'	47:S2:1107:G:H5'	2.18	0.44
47:S2:1325:G:O4'	47:S2:1510:G:H5"	2.17	0.44
47:S2:1344:A:C4'	47:S2:1345:G:OP1	2.65	0.44
47:S2:1373:C:O2	47:S2:1465:A:O2'	2.28	0.44
47:S2:1552:G:O3'	47:S2:1553:C:H3'	2.17	0.44
47:S2:1567:G:H1'	61:ST:37:VAL:HG21	2.00	0.44
47:S2:1722:G:C4	47:S2:1723:G:C8	3.05	0.44
47:S2:1802:C:C4	47:S2:1803:U:C5	3.05	0.44
47:S2:1859:A:H62	47:S2:1860:A:H61	1.64	0.44
48:SA:177:MET:SD	48:SA:180:ARG:NH2	2.90	0.44
49:SB:30:TRP:CD1	74:SO:19:PRO:CD	3.00	0.44
49:SB:71:LEU:HG	49:SB:74:LEU:CB	2.47	0.44
50:SD:17:PHE:HD1	50:SD:77:PHE:CE1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:SD:141:LYS:O	50:SD:142:LEU:HG	2.18	0.44
50:SD:213:PRO:HD3	59:SR:19:LYS:HD2	1.97	0.44
55:SK:58:VAL:CG2	55:SK:69:TRP:HB3	2.46	0.44
58:SQ:113:ILE:HG22	58:SQ:113:ILE:O	2.17	0.44
59:SR:28:PHE:HD1	59:SR:52:GLY:HA2	1.83	0.44
61:ST:16:ARG:O	61:ST:19:ALA:HB3	2.17	0.44
63:SV:33:GLN:HG3	63:SV:53:TYR:O	2.18	0.44
64:SX:49:GLY:N	64:SX:99:GLU:OE2	2.50	0.44
64:SX:68:LYS:HG2	64:SX:91:LEU:CD2	2.47	0.44
64:SX:100:VAL:HG12	64:SX:125:VAL:CG2	2.19	0.44
67:Sd:23:VAL:HG21	67:Sd:38:MET:SD	2.58	0.44
69:SC:63:VAL:HG23	69:SC:64:THR:HG23	1.99	0.44
71:SJ:86:VAL:HB	71:SJ:105:PHE:HE1	1.82	0.44
72:SM:126:GLU:HA	72:SM:129:LYS:HE2	1.99	0.44
73:SN:16:LEU:CG	73:SN:17:PRO:HD2	2.34	0.44
73:SN:23:PRO:CB	73:SN:25:TRP:CE2	3.01	0.44
76:SY:37:LYS:HA	76:SY:40:ILE:CG2	2.47	0.44
1:L5:451:C:C2	1:L5:1295:C:C5	3.05	0.44
1:L5:1445:U:O2'	1:L5:1446:C:OP1	2.27	0.44
1:L5:1536:U:C2'	1:L5:1537:A:H5'	2.47	0.44
1:L5:1553:A:C2	1:L5:1575:A:H1'	2.53	0.44
1:L5:1689:G:N2	1:L5:1848:C:N3	2.65	0.44
1:L5:2399:G:C4'	1:L5:2822:G:H21	2.31	0.44
1:L5:2545:U:C6	1:L5:2546:G:H4'	2.53	0.44
1:L5:2700:G:H1	1:L5:2717:G:H1'	1.83	0.44
1:L5:2773:G:OP1	39:Lk:40:ARG:HB3	2.18	0.44
1:L5:3970:G:H2'	1:L5:3971:G:H5'	2.00	0.44
1:L5:4148:C:H2'	1:L5:4149:C:H6	1.81	0.44
1:L5:4148:C:O5'	1:L5:4148:C:H6	2.00	0.44
1:L5:4167:G:N2	1:L5:4168:G:H1'	2.33	0.44
1:L5:4227:U:O2'	1:L5:4228:G:H5'	2.18	0.44
1:L5:4307:A:H4'	19:LQ:186:TYR:CD1	2.52	0.44
1:L5:4499:G:H1'	1:L5:4528:G:N3	2.33	0.44
2:L7:44:C:H2'	2:L7:45:U:C5'	2.47	0.44
2:L7:47:G:H1	2:L7:48:G:H21	1.66	0.44
3:L8:14:U:O4	3:L8:15:G:N1	2.51	0.44
3:L8:94:G:H21	38:Lj:82:THR:CB	2.29	0.44
3:L8:96:C:H5"	36:Lh:66:LYS:CD	2.47	0.44
4:LA:48:ILE:CG2	44:Lp:54:ILE:HG12	2.48	0.44
4:LA:103:PRO:O	4:LA:106:THR:HG22	2.18	0.44
5:LB:29:VAL:HG21	5:LB:32:PHE:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:168:MET:CE	5:LB:175:GLN:HB3	2.47	0.44
5:LB:251:VAL:HG12	5:LB:252:ALA:N	2.33	0.44
7:LD:278:ASP:CA	7:LD:281:ALA:HB3	2.47	0.44
8:LE:191:GLN:O	8:LE:194:VAL:HG12	2.17	0.44
11:LH:24:THR:HG23	11:LH:35:ARG:HG3	2.00	0.44
13:LJ:56:THR:HB	13:LJ:64:ARG:HB3	1.99	0.44
15:LM:38:VAL:HG22	15:LM:39:ASP:H	1.80	0.44
15:LM:39:ASP:CG	15:LM:47:ARG:HG2	2.42	0.44
17:LO:191:LYS:HE3	17:LO:192:TYR:CE1	2.52	0.44
18:LP:124:LYS:HD2	18:LP:140:MET:HE2	1.99	0.44
22:LT:134:PRO:HA	22:LT:135:PRO:HD3	1.80	0.44
28:LZ:33:THR:HG21	28:LZ:37:PRO:CA	2.48	0.44
29:La:118:PRO:O	29:La:120:GLN:N	2.45	0.44
34:Lf:6:TRP:HB3	34:Lf:104:MET:HG2	1.99	0.44
35:Lg:83:CYS:SG	35:Lg:86:CYS:HB2	2.57	0.44
44:Lp:64:VAL:HG11	44:Lp:71:TYR:CE1	2.46	0.44
45:Lr:92:SER:C	45:Lr:96:MET:HE3	2.43	0.44
46:Lz:17:VAL:HG22	46:Lz:17:VAL:O	2.16	0.44
46:Lz:116:LEU:CD2	46:Lz:120:ILE:HB	2.43	0.44
47:S2:491:C:OP2	76:SY:104:ARG:HD3	2.17	0.44
47:S2:500:A:C3'	47:S2:501:C:H6	2.18	0.44
47:S2:868:G:C5	53:SH:115:LYS:HB2	2.52	0.44
47:S2:921:G:C6	75:SW:28:ARG:HD3	2.53	0.44
47:S2:1161:U:C5	47:S2:1162:C:C5	3.06	0.44
47:S2:1273:C:O2'	47:S2:1274:G:OP2	2.32	0.44
47:S2:1318:G:C6	47:S2:1319:U:C4	3.05	0.44
47:S2:1522:A:N1	60:SS:145:THR:HG21	2.32	0.44
47:S2:1784:G:H2'	47:S2:1785:C:C5'	2.45	0.44
47:S2:1853:C:O2'	47:S2:1854:U:O5'	2.32	0.44
48:SA:121:LEU:HD12	48:SA:122:LEU:H	1.83	0.44
51:SE:11:ARG:HE	51:SE:20:LEU:HB3	1.83	0.44
51:SE:44:LEU:HG	51:SE:48:LEU:CD1	2.46	0.44
51:SE:207:VAL:HG12	51:SE:219:ALA:HB1	2.00	0.44
52:SF:38:TYR:C	52:SF:40:ALA:N	2.75	0.44
53:SH:8:ILE:HG21	53:SH:28:LEU:CD1	2.41	0.44
54:SI:82:VAL:HG21	54:SI:103:LEU:CD1	2.47	0.44
55:SK:15:LEU:O	55:SK:15:LEU:HD23	2.17	0.44
55:SK:34:GLU:HA	55:SK:35:LEU:HA	1.44	0.44
56:SL:46:THR:OG1	56:SL:50:ALA:HB3	2.17	0.44
57:SP:97:TYR:HD1	57:SP:100:LYS:HD3	1.82	0.44
58:SQ:38:PRO:HG3	61:ST:8:ASP:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:SR:78:ARG:O	59:SR:81:ARG:HG2	2.17	0.44
59:SR:103:LYS:HZ2	59:SR:117:LEU:HD21	1.81	0.44
59:SR:120:THR:O	59:SR:121:GLN:HB3	2.18	0.44
61:ST:9:VAL:HG11	61:ST:138:VAL:CB	2.42	0.44
62:SU:21:ARG:HA	62:SU:90:ASP:HA	1.99	0.44
64:SX:57:VAL:HB	64:SX:116:PRO:CG	2.47	0.44
65:Sa:23:CYS:SG	65:Sa:24:THR:N	2.91	0.44
66:Sc:13:ARG:HH22	66:Sc:35:MET:HG3	1.80	0.44
66:Sc:35:MET:HE1	66:Sc:55:VAL:CB	2.47	0.44
67:Sd:20:SER:HB3	67:Sd:27:ARG:HH11	1.81	0.44
68:Sg:5:MET:HA	68:Sg:311:GLN:O	2.17	0.44
68:Sg:79:LEU:HD11	68:Sg:113:PHE:HB3	1.96	0.44
68:Sg:89:LEU:O	68:Sg:97:THR:HA	2.18	0.44
68:Sg:120:ILE:HB	68:Sg:132:TRP:HB3	1.98	0.44
68:Sg:146:SER:OG	68:Sg:147:HIS:N	2.47	0.44
70:SG:10:THR:O	70:SG:10:THR:HG22	2.18	0.44
70:SG:15:LEU:C	70:SG:16:ILE:HG13	2.42	0.44
70:SG:20:ASP:HB3	70:SG:21:GLU:H	1.59	0.44
70:SG:37:ALA:HA	70:SG:49:VAL:HG12	1.97	0.44
71:SJ:121:LYS:H	71:SJ:125:HIS:HD2	1.66	0.44
73:SN:2:GLY:O	73:SN:3:ARG:HB2	2.16	0.44
75:SW:52:ILE:HD12	75:SW:53:ILE:N	2.32	0.44
75:SW:113:HIS:CE1	75:SW:114:GLU:HG2	2.52	0.44
78:Sb:63:LEU:O	78:Sb:63:LEU:HG	2.17	0.44
1:L5:269:G:H2'	1:L5:269:G:N3	2.32	0.44
1:L5:646:G:N1	1:L5:647:G:N3	2.66	0.44
1:L5:1077:C:OP2	1:L5:1078:A:H1'	2.17	0.44
1:L5:1089:G:H2'	1:L5:1089:G:N3	2.32	0.44
1:L5:1180:C:H5'	1:L5:1181:C:C6	2.51	0.44
1:L5:1273:G:H5"	1:L5:1273:G:N3	2.33	0.44
1:L5:1758:G:C3'	1:L5:1759:G:H5"	2.48	0.44
1:L5:1833:G:O2'	1:L5:1834:U:P	2.76	0.44
1:L5:1853:G:H5"	1:L5:1854:G:C5'	2.48	0.44
1:L5:1933:G:H21	1:L5:2058:G:C4'	2.30	0.44
1:L5:2006:U:P	1:L5:2007:G:H22	2.41	0.44
1:L5:2034:G:OP1	21:LS:86:SER:OG	2.35	0.44
1:L5:2042:A:H2	1:L5:4463:U:O4'	2.00	0.44
1:L5:2461:G:HO2'	1:L5:2462:C:C5'	2.31	0.44
1:L5:2706:G:O2'	1:L5:2708:U:H3'	2.18	0.44
1:L5:2793:G:O2'	38:Lj:8:PHE:HD2	2.00	0.44
1:L5:3709:U:H3'	1:L5:3710:G:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3781:C:C6	1:L5:3781:C:C3'	3.00	0.44
1:L5:3782:C:C4	1:L5:3809:G:C2	3.05	0.44
1:L5:3796:U:C4	1:L5:3797:C:N4	2.85	0.44
1:L5:4122:G:N2	35:Lg:98:GLU:OE2	2.32	0.44
1:L5:4238:G:N2	1:L5:4239:A:C1'	2.81	0.44
1:L5:4376:A:H5"	1:L5:4377:G:O5'	2.18	0.44
1:L5:4582:C:O2'	5:LB:99:LEU:N	2.27	0.44
1:L5:4770:U:H5	1:L5:4862:G:H1	1.64	0.44
1:L5:4904:G:H2'	1:L5:4905:C:N1	2.33	0.44
3:L8:41:A:C8	3:L8:42:G:C8	3.05	0.44
3:L8:81:C:H6	3:L8:81:C:H3'	1.83	0.44
5:LB:222:VAL:HG12	5:LB:223:THR:O	2.17	0.44
5:LB:303:ALA:CB	5:LB:368:ILE:HG21	2.35	0.44
6:LC:109:ARG:O	6:LC:110:ARG:CB	2.66	0.44
6:LC:218:ILE:HA	6:LC:229:LEU:HD12	1.97	0.44
6:LC:292:ILE:HG12	19:LQ:128:LEU:HD12	2.00	0.44
6:LC:331:TYR:HB2	9:LF:54:ALA:HB3	2.00	0.44
8:LE:186:LEU:HG	8:LE:250:GLN:OE1	2.17	0.44
9:LF:112:LEU:O	9:LF:114:LEU:HD12	2.17	0.44
10:LG:57:TRP:HB3	10:LG:61:ILE:CG1	2.46	0.44
11:LH:107:GLU:OE1	11:LH:107:GLU:N	2.46	0.44
13:LJ:83:LEU:O	13:LJ:87:LEU:HD13	2.17	0.44
13:LJ:120:ASP:HB2	13:LJ:121:PRO:HD2	2.00	0.44
14:LL:79:GLU:HG2	14:LL:82:ARG:NH1	2.33	0.44
14:LL:106:SER:OG	14:LL:107:THR:N	2.42	0.44
24:LV:62:MET:HA	24:LV:78:PRO:HA	2.00	0.44
28:LZ:57:MET:HG2	28:LZ:61:LYS:HD3	1.99	0.44
31:Lc:104:ILE:O	31:Lc:105:ILE:HG23	2.18	0.44
33:Le:16:ARG:NE	33:Le:20:PHE:CE1	2.85	0.44
34:Lf:48:ALA:HB2	34:Lf:71:TRP:CE3	2.53	0.44
35:Lg:31:VAL:HG22	35:Lg:32:TYR:N	2.33	0.44
35:Lg:86:CYS:O	35:Lg:90:ARG:HG2	2.17	0.44
36:Lh:24:LEU:O	36:Lh:27:GLU:N	2.50	0.44
36:Lh:51:ARG:O	36:Lh:54:ILE:HG22	2.18	0.44
44:Lp:10:ILE:O	44:Lp:10:ILE:CG1	2.65	0.44
45:Lr:94:ARG:O	45:Lr:98:ARG:HB3	2.18	0.44
46:Lz:67:VAL:HG23	46:Lz:67:VAL:O	2.18	0.44
46:Lz:176:ASP:OD1	46:Lz:179:LEU:HD12	2.17	0.44
47:S2:61:A:N1	47:S2:334:C:O2'	2.35	0.44
47:S2:102:A:H5'	47:S2:104:A:C4	2.53	0.44
47:S2:197:U:H5'	47:S2:198:U:OP2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:333:G:C2	47:S2:334:C:H1'	2.53	0.44
47:S2:914:U:C2'	47:S2:915:G:H5'	2.48	0.44
47:S2:957:A:OP1	74:SO:57:THR:HB	2.18	0.44
47:S2:991:G:H8	65:Sa:13:LYS:HZ3	1.66	0.44
47:S2:1030:A:N1	47:S2:1031:A:C5	2.85	0.44
47:S2:1040:G:H2'	47:S2:1041:G:O4'	2.18	0.44
47:S2:1271:C:HO2'	47:S2:1272:C:P	2.38	0.44
47:S2:1368:U:N3	47:S2:1370:A:O5'	2.51	0.44
47:S2:1633:A:N3	47:S2:1633:A:H2'	2.32	0.44
47:S2:1775:U:N3	47:S2:1776:G:O6	2.50	0.44
47:S2:1785:C:O2'	47:S2:1786:U:O5'	2.32	0.44
47:S2:1861:G:H4'	47:S2:1862:G:OP2	2.18	0.44
48:SA:30:LEU:HG	48:SA:31:ASP:O	2.18	0.44
48:SA:140:VAL:HG13	48:SA:142:LEU:HB2	1.99	0.44
49:SB:44:ILE:O	49:SB:44:ILE:HG13	2.17	0.44
51:SE:238:LEU:C	51:SE:238:LEU:HD12	2.43	0.44
53:SH:58:LYS:HG3	53:SH:90:LYS:HG2	2.00	0.44
56:SL:17:PHE:HE2	56:SL:19:ASN:C	2.25	0.44
56:SL:72:ILE:O	56:SL:73:LEU:HD23	2.17	0.44
56:SL:127:THR:HG22	56:SL:144:LYS:HB3	1.99	0.44
57:SP:71:GLU:C	57:SP:73:PRO:HD3	2.43	0.44
57:SP:98:ASN:N	57:SP:99:GLY:O	2.45	0.44
57:SP:103:ASN:HD21	60:SS:117:ILE:HA	1.83	0.44
58:SQ:108:ILE:CG2	58:SQ:109:LYS:H	2.12	0.44
58:SQ:118:THR:HB	58:SQ:121:VAL:O	2.17	0.44
61:ST:22:LEU:HD13	61:ST:54:TYR:O	2.16	0.44
62:SU:95:SER:HA	62:SU:98:VAL:HG12	2.00	0.44
68:Sg:19:THR:OG1	68:Sg:20:GLN:N	2.50	0.44
68:Sg:35:SER:O	68:Sg:66:VAL:HB	2.18	0.44
68:Sg:43:TRP:CH2	68:Sg:307:VAL:HG11	2.53	0.44
68:Sg:122:SER:O	68:Sg:154:VAL:HG21	2.17	0.44
70:SG:148:SER:HA	70:SG:149:LYS:HA	1.77	0.44
71:SJ:87:LEU:HD21	71:SJ:91:LYS:O	2.17	0.44
72:SM:37:GLU:CD	72:SM:110:VAL:HG21	2.43	0.44
73:SN:121:ARG:HA	73:SN:124:ARG:HB3	2.00	0.44
74:SO:140:THR:HG22	74:SO:141:ARG:N	2.33	0.44
78:Sb:55:LEU:HD11	78:Sb:60:SER:C	2.43	0.44
1:L5:37:U:N3	1:L5:45:U:O2	2.51	0.44
1:L5:41:C:O2'	1:L5:42:A:H5'	2.17	0.44
1:L5:109:G:H5'	14:LL:92:ARG:HH21	1.83	0.44
1:L5:284:G:H1'	37:Li:78:GLY:HA3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:317:A:H2	1:L5:318:A:C8	2.36	0.44
1:L5:408:A:H5"	1:L5:409:G:P	2.57	0.44
1:L5:708:G:C4	1:L5:1290:G:N2	2.86	0.44
1:L5:931:C:H1'	1:L5:932:A:OP1	2.18	0.44
1:L5:1257:A:H62	1:L5:1258:G:N2	2.16	0.44
1:L5:1271:G:H3'	1:L5:1272:C:H5'	2.00	0.44
1:L5:1338:G:O2'	1:L5:1339:U:OP1	2.31	0.44
1:L5:1633:G:N7	1:L5:1641:G:C5	2.85	0.44
1:L5:1725:U:C2	9:LF:111:LEU:CD1	3.00	0.44
1:L5:1791:U:H4'	22:LT:19:PHE:CG	2.53	0.44
1:L5:1807:C:H42	1:L5:1832:C:H42	1.64	0.44
1:L5:1904:G:C2	1:L5:1905:U:C2	3.06	0.44
1:L5:1912:G:N1	1:L5:1913:C:N3	2.66	0.44
1:L5:1929:A:H3'	1:L5:1929:A:N3	2.32	0.44
1:L5:2050:G:C2	1:L5:2051:C:O2	2.71	0.44
1:L5:2081:C:C2	1:L5:2276:A:H2	2.36	0.44
1:L5:2102:G:H5'	1:L5:2103:G:P	2.58	0.44
1:L5:2480:G:C4	1:L5:2481:G:C1'	3.01	0.44
1:L5:2642:A:C2	39:Lk:2:PRO:HD2	2.52	0.44
1:L5:2695:A:H1'	1:L5:2696:A:OP2	2.18	0.44
1:L5:2854:G:HO2'	1:L5:2855:G:P	2.40	0.44
1:L5:3726:A:N1	1:L5:3727:A:N6	2.66	0.44
1:L5:3737:A:H2'	1:L5:3738:G:C8	2.52	0.44
1:L5:3820:G:C5	1:L5:3821:A:C8	3.06	0.44
1:L5:3856:A:N6	1:L5:3857:G:O6	2.51	0.44
1:L5:4612:C:H1'	11:LH:120:GLU:OE2	2.18	0.44
1:L5:4622:A:C2	1:L5:4676:G:C2	3.06	0.44
1:L5:5021:C:H2'	1:L5:5022:U:O4'	2.17	0.44
3:L8:24:G:OP1	27:LY:16:LYS:HE3	2.18	0.44
5:LB:234:ARG:HH11	5:LB:235:TRP:NE1	2.14	0.44
5:LB:331:VAL:HG12	5:LB:332:MET:N	2.32	0.44
8:LE:154:THR:OG1	8:LE:154:THR:O	2.31	0.44
10:LG:148:GLU:OE1	10:LG:149:ASN:HB3	2.18	0.44
10:LG:184:ILE:HG22	10:LG:185:LYS:O	2.17	0.44
12:LI:105:CYS:HA	12:LI:106:ALA:HA	1.71	0.44
14:LL:54:PRO:CA	14:LL:55:ILE:CB	2.96	0.44
14:LL:169:ILE:HD11	29:La:123:ILE:CG1	2.48	0.44
15:LM:60:PHE:CD2	15:LM:82:ILE:HG23	2.53	0.44
16:LN:38:ARG:HB2	16:LN:62:TYR:HE1	1.77	0.44
16:LN:139:HIS:ND1	16:LN:141:ALA:HB3	2.33	0.44
18:LP:24:VAL:HG12	18:LP:86:LYS:HG2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:LP:99:GLU:O	18:LP:102:ALA:HB3	2.17	0.44
20:LR:45:ILE:HG12	20:LR:50:ILE:HG13	1.98	0.44
20:LR:185:ILE:HD11	20:LR:186:LYS:HZ2	1.83	0.44
21:LS:132:ILE:HG22	21:LS:133:ALA:N	2.33	0.44
23:LU:24:ASP:OD1	23:LU:111:GLU:HA	2.17	0.44
28:LZ:23:ALA:HA	28:LZ:45:GLY:HA2	2.00	0.44
28:LZ:110:ALA:O	28:LZ:114:ALA:HB3	2.18	0.44
31:Lc:94:LEU:C	31:Lc:94:LEU:HD12	2.42	0.44
35:Lg:10:ARG:HH12	40:Ll:3:SER:CB	2.31	0.44
37:Li:40:VAL:O	37:Li:44:ILE:HG12	2.18	0.44
43:Lo:104:ILE:HG23	43:Lo:105:GLN:CA	2.44	0.44
45:Lr:65:LYS:HB2	45:Lr:77:TYR:HE1	1.81	0.44
45:Lr:66:ARG:HH21	45:Lr:68:SER:CB	2.31	0.44
47:S2:85:A:O2'	47:S2:86:C:H5'	2.18	0.44
47:S2:317:C:C5'	70:SG:183:ARG:HH22	2.13	0.44
47:S2:613:G:H4'	47:S2:615:C:N3	2.33	0.44
47:S2:868:G:O2'	47:S2:869:A:OP2	2.30	0.44
47:S2:917:U:C4'	53:SH:118:ARG:HG3	2.48	0.44
47:S2:1057:C:H5	47:S2:1059:G:C5'	2.29	0.44
47:S2:1096:G:H2'	47:S2:1097:G:C5'	2.47	0.44
47:S2:1166:G:O2'	47:S2:1167:G:H5'	2.17	0.44
47:S2:1603:G:H4'	60:SS:38:ARG:CZ	2.48	0.44
47:S2:1758:G:C2'	47:S2:1774:C:H42	2.31	0.44
49:SB:121:ILE:HG12	49:SB:161:VAL:HG13	1.99	0.44
49:SB:140:VAL:HG13	49:SB:213:ARG:CB	2.40	0.44
50:SD:69:LEU:HD23	50:SD:72:VAL:HG21	2.00	0.44
51:SE:141:THR:OG1	51:SE:145:ARG:HB2	2.17	0.44
52:SF:48:TYR:HD2	58:SQ:53:GLU:CG	2.29	0.44
52:SF:156:THR:HB	52:SF:188:TYR:HE2	1.83	0.44
52:SF:171:GLU:OE1	52:SF:175:ASP:HB3	2.18	0.44
52:SF:184:SER:O	52:SF:185:SER:HB2	2.18	0.44
53:SH:23:ILE:O	53:SH:27:LEU:HD13	2.18	0.44
54:SI:100:CYS:HB3	54:SI:175:ILE:HD12	2.00	0.44
59:SR:34:VAL:HG12	59:SR:38:ILE:HG21	1.99	0.44
59:SR:95:ILE:O	59:SR:95:ILE:HG13	2.18	0.44
59:SR:126:MET:HB3	59:SR:128:PHE:CE1	2.52	0.44
61:ST:22:LEU:O	61:ST:25:SER:OG	2.33	0.44
63:SV:73:ALA:HB1	63:SV:78:ILE:HG13	2.00	0.44
64:SX:29:LYS:HG3	64:SX:35:ALA:CB	2.47	0.44
64:SX:132:ALA:HB1	64:SX:138:LYS:HG3	1.98	0.44
68:Sg:24:THR:OG1	68:Sg:27:PHE:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:87:LEU:HD21	68:Sg:120:ILE:HD12	1.99	0.44
68:Sg:158:PRO:HG2	68:Sg:202:PRO:N	2.32	0.44
68:Sg:301:GLY:HA2	68:Sg:306:LEU:O	2.18	0.44
69:SC:157:LEU:O	69:SC:160:LEU:N	2.50	0.44
70:SG:44:GLU:HB3	70:SG:121:ILE:HA	1.99	0.44
73:SN:129:TYR:HD1	73:SN:134:VAL:HG21	1.77	0.44
74:SO:93:LEU:CD1	74:SO:95:ILE:HD11	2.48	0.44
75:SW:51:GLU:O	75:SW:61:ILE:HG23	2.18	0.44
77:SZ:91:LEU:HB2	77:SZ:95:GLY:HA3	2.00	0.44
1:L5:2:G:N2	3:L8:156:U:O2	2.51	0.44
1:L5:128:C:N4	1:L5:129:C:H41	2.15	0.44
1:L5:140:G:C2'	1:L5:141:C:H5'	2.48	0.44
1:L5:221:C:H6	1:L5:221:C:H3'	1.82	0.44
1:L5:243:A:H2'	1:L5:244:G:H5'	2.00	0.44
1:L5:304:C:H2'	1:L5:305:A:O4'	2.17	0.44
1:L5:725:G:C4	1:L5:726:G:C8	3.06	0.44
1:L5:1217:G:N3	1:L5:1218:G:N2	2.66	0.44
1:L5:1251:C:H1'	1:L5:1259:G:N1	2.26	0.44
1:L5:1296:G:H4'	1:L5:1297:U:O4'	2.18	0.44
1:L5:1388:A:O2'	1:L5:1389:U:H5'	2.17	0.44
1:L5:1457:G:O2'	1:L5:1458:C:H5'	2.18	0.44
1:L5:1511:U:C2'	1:L5:1512:G:H5'	2.47	0.44
1:L5:1625:G:N1	1:L5:3918:G:OP1	2.38	0.44
1:L5:1723:A:O2'	9:LF:107:LYS:NZ	2.51	0.44
1:L5:1899:G:H2'	1:L5:1899:G:N3	2.33	0.44
1:L5:2129:C:H42	1:L5:2244:C:N4	2.15	0.44
1:L5:3685:C:C6	1:L5:3685:C:H3'	2.53	0.44
1:L5:3846:C:O2'	1:L5:3847:C:H5'	2.17	0.44
1:L5:3861:A:H2'	1:L5:3862:A:C8	2.52	0.44
1:L5:4128:A:H2'	1:L5:4129:G:O4'	2.17	0.44
1:L5:4263:C:O2'	7:LD:7:VAL:HG11	2.17	0.44
1:L5:4347:G:C6	1:L5:4348:A:C6	3.06	0.44
1:L5:4391:G:O2'	1:L5:4392:G:H5'	2.18	0.44
1:L5:4433:G:H21	1:L5:4434:C:H1'	1.83	0.44
1:L5:4433:G:N2	1:L5:4434:C:N1	2.66	0.44
5:LB:18:PRO:O	5:LB:20:LYS:N	2.44	0.44
5:LB:117:ARG:HD2	5:LB:177:LYS:CD	2.47	0.44
7:LD:86:TYR:CE1	7:LD:247:ILE:HD13	2.53	0.44
8:LE:88:VAL:HA	8:LE:89:LEU:HA	1.82	0.44
8:LE:188:ARG:HH22	8:LE:218:LYS:HD3	1.83	0.44
9:LF:123:VAL:O	9:LF:123:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:LG:73:ARG:HB2	10:LG:74:LEU:HD12	1.99	0.44
14:LL:9:VAL:O	14:LL:9:VAL:HG13	2.18	0.44
15:LM:25:VAL:HG22	15:LM:38:VAL:CG2	2.48	0.44
24:LV:81:VAL:HA	24:LV:103:GLY:HA2	2.00	0.44
28:LZ:93:LYS:HA	28:LZ:96:VAL:HB	1.98	0.44
29:La:56:VAL:HG22	29:La:57:GLY:N	2.32	0.44
31:Lc:18:LEU:CD1	31:Lc:22:MET:HE2	2.45	0.44
35:Lg:114:GLN:O	35:Lg:115:LYS:HB3	2.17	0.44
47:S2:319:C:H5'	47:S2:320:G:P	2.58	0.44
47:S2:804:U:N3	47:S2:805:U:C4	2.86	0.44
47:S2:1255:G:H5'	47:S2:1256:G:H4'	2.00	0.44
47:S2:1314:U:H2'	47:S2:1315:U:C5'	2.47	0.44
47:S2:1441:U:H4'	47:S2:1442:U:H6	1.83	0.44
47:S2:1598:G:P	60:SS:55:ARG:HH12	2.40	0.44
47:S2:1598:G:H8	77:SZ:82:SER:HA	1.83	0.44
47:S2:1624:U:H2'	47:S2:1625:U:C5'	2.48	0.44
47:S2:1628:C:O2'	47:S2:1629:C:H5'	2.18	0.44
47:S2:1673:U:H2'	47:S2:1674:G:C4'	2.47	0.44
47:S2:1736:G:O2'	47:S2:1737:G:H5'	2.17	0.44
48:SA:110:ASN:C	48:SA:111:GLN:HG2	2.43	0.44
49:SB:28:LYS:HB3	49:SB:50:THR:HA	1.99	0.44
49:SB:98:THR:HG1	49:SB:99:ASN:H	1.65	0.44
49:SB:127:VAL:HG11	49:SB:173:THR:O	2.18	0.44
49:SB:146:ARG:CG	49:SB:147:ASN:H	2.31	0.44
49:SB:222:LYS:HG3	49:SB:223:PHE:H	1.83	0.44
50:SD:22:ASN:O	50:SD:26:THR:OG1	2.25	0.44
50:SD:124:ARG:O	50:SD:128:GLU:N	2.50	0.44
52:SF:106:GLU:CD	52:SF:107:ASN:N	2.76	0.44
53:SH:157:HIS:HB3	53:SH:190:PRO:CD	2.48	0.44
54:SI:93:THR:HG23	54:SI:95:THR:N	2.31	0.44
54:SI:134:GLU:OE2	54:SI:137:LEU:HD11	2.18	0.44
56:SL:112:HIS:ND1	56:SL:112:HIS:O	2.51	0.44
56:SL:143:LEU:O	56:SL:144:LYS:CB	2.65	0.44
59:SR:25:GLY:HA2	59:SR:58:MET:SD	2.58	0.44
59:SR:125:GLY:HA2	59:SR:126:MET:C	2.43	0.44
60:SS:20:ILE:O	60:SS:20:ILE:HG22	2.18	0.44
60:SS:118:ARG:O	60:SS:120:HIS:N	2.51	0.44
62:SU:88:LEU:C	62:SU:89:ILE:HD12	2.42	0.44
62:SU:99:LYS:CA	62:SU:102:THR:HG23	2.44	0.44
68:Sg:111:VAL:HG23	68:Sg:122:SER:CA	2.47	0.44
68:Sg:156:PHE:O	68:Sg:200:VAL:HG21	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Sg:236:ILE:CA	68:Sg:252:THR:HG22	2.47	0.44
70:SG:70:HIS:HB3	70:SG:101:ILE:CG2	2.48	0.44
71:SJ:97:ILE:HA	71:SJ:100:LEU:HD13	2.00	0.44
71:SJ:110:LEU:HB2	71:SJ:147:PHE:HD2	1.82	0.44
73:SN:16:LEU:HD12	73:SN:62:GLN:OE1	2.17	0.44
73:SN:49:GLN:OE1	73:SN:49:GLN:N	2.40	0.44
1:L5:48:G:O2'	1:L5:49:U:P	2.76	0.43
1:L5:137:G:H2'	1:L5:138:G:O4'	2.18	0.43
1:L5:493:G:O2'	1:L5:494:U:H5'	2.17	0.43
1:L5:665:C:H2'	1:L5:667:A:N7	2.32	0.43
1:L5:671:G:N7	1:L5:672:C:N4	2.65	0.43
1:L5:716:C:N3	1:L5:717:U:C4	2.86	0.43
1:L5:916:C:O2	1:L5:917:A:H5'	2.17	0.43
1:L5:1272:C:C6	8:LE:72:LYS:HG3	2.53	0.43
1:L5:1414:C:C3'	1:L5:1415:G:H5"	2.38	0.43
1:L5:1524:A:C2	1:L5:1525:A:H1'	2.53	0.43
1:L5:1635:C:H2'	1:L5:1636:U:H5'	1.99	0.43
1:L5:1897:A:H3'	1:L5:1897:A:N3	2.33	0.43
1:L5:2017:A:C8	1:L5:2018:C:C5	3.05	0.43
1:L5:2117:G:N3	1:L5:2117:G:C3'	2.69	0.43
1:L5:2599:G:C8	1:L5:2600:A:C8	3.06	0.43
1:L5:2700:G:N2	1:L5:2717:G:H1'	2.28	0.43
1:L5:2707:U:P	1:L5:2708:U:H5'	2.57	0.43
1:L5:2792:C:H2'	1:L5:2793:G:O4'	2.17	0.43
1:L5:2854:G:H2'	1:L5:2855:G:C5'	2.48	0.43
1:L5:3651:A:H2'	1:L5:3652:A:O4'	2.18	0.43
1:L5:3672:G:O3'	1:L5:3673:C:H2'	2.18	0.43
1:L5:3736:A:N6	1:L5:3737:A:N6	2.66	0.43
1:L5:3757:G:HO2'	1:L5:3758:U:C5'	2.30	0.43
1:L5:3907:G:C4	1:L5:4449:A:C8	3.06	0.43
1:L5:4036:G:O2'	1:L5:4037:C:O5'	2.20	0.43
1:L5:4045:G:C2	1:L5:4048:A:H8	2.36	0.43
1:L5:4268:A:H61	1:L5:4281:A:H62	1.64	0.43
1:L5:4364:G:O2'	1:L5:4365:C:H5'	2.18	0.43
1:L5:4376:A:O2'	29:La:42:ARG:NH1	2.51	0.43
1:L5:4395:U:H4'	1:L5:4396:A:OP1	2.18	0.43
1:L5:4571:A:H2'	1:L5:4572:U:H5'	2.00	0.43
1:L5:4667:C:N4	1:L5:4668:U:H3	2.15	0.43
3:L8:88:A:N1	3:L8:89:U:H1'	2.33	0.43
4:LA:58:LEU:CD1	4:LA:75:LEU:HD21	2.43	0.43
5:LB:89:ILE:O	5:LB:104:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:LC:315:LYS:NZ	9:LF:155:TYR:O	2.39	0.43
7:LD:38:ILE:C	7:LD:38:ILE:HD12	2.43	0.43
7:LD:132:VAL:HG11	7:LD:170:GLY:CA	2.48	0.43
7:LD:278:ASP:O	7:LD:282:GLN:HG3	2.18	0.43
8:LE:287:VAL:HG21	15:LM:104:MET:N	2.33	0.43
10:LG:115:LEU:HD12	10:LG:115:LEU:C	2.43	0.43
18:LP:32:THR:CB	18:LP:58:VAL:HG11	2.48	0.43
19:LQ:43:PHE:O	19:LQ:47:VAL:HG12	2.18	0.43
21:LS:109:CYS:O	21:LS:113:MET:N	2.35	0.43
21:LS:134:ALA:HA	21:LS:137:CYS:SG	2.58	0.43
21:LS:154:LEU:HD22	21:LS:157:ARG:HH22	1.82	0.43
22:LT:72:VAL:HG23	22:LT:93:ILE:HG22	2.00	0.43
22:LT:118:GLU:OE1	22:LT:122:LYS:HE3	2.17	0.43
24:LV:65:VAL:HG21	24:LV:72:LEU:HB3	1.99	0.43
24:LV:87:SER:HB3	25:LW:19:ARG:HH12	1.81	0.43
24:LV:131:ARG:NH2	24:LV:131:ARG:HB2	2.33	0.43
35:Lg:11:LEU:HD11	35:Lg:13:TYR:HB2	2.00	0.43
36:Lh:31:LEU:O	36:Lh:34:ALA:HB3	2.18	0.43
42:Ln:19:LYS:O	42:Ln:22:GLN:HB3	2.18	0.43
47:S2:29:G:N3	47:S2:646:G:C2	2.86	0.43
47:S2:190:G:HO2'	47:S2:209:A:N6	2.16	0.43
47:S2:332:G:O2'	47:S2:333:G:H5'	2.18	0.43
47:S2:335:G:H2'	47:S2:336:A:C5'	2.46	0.43
47:S2:368:U:H3'	47:S2:369:C:C2'	2.47	0.43
47:S2:434:G:OP1	54:SI:23:LYS:HG3	2.18	0.43
47:S2:795:A:C8	47:S2:796:G:C8	3.05	0.43
47:S2:818:A:H1'	47:S2:847:A:C6	2.53	0.43
47:S2:829:C:H5"	51:SE:21:ASP:CB	2.48	0.43
47:S2:977:C:C3'	47:S2:978:G:H5"	2.48	0.43
47:S2:982:G:H21	47:S2:1045:U:H1'	1.82	0.43
47:S2:1710:C:O2'	47:S2:1711:U:H5'	2.19	0.43
49:SB:40:ASN:HB2	49:SB:75:GLN:HG2	1.95	0.43
49:SB:189:ILE:HB	49:SB:190:PRO:CD	2.48	0.43
50:SD:24:PHE:HD2	50:SD:25:LEU:HD12	1.81	0.43
50:SD:33:GLY:HA2	50:SD:103:GLU:HG3	2.00	0.43
53:SH:108:SER:OG	53:SH:109:ARG:N	2.40	0.43
53:SH:158:LEU:CB	53:SH:189:PHE:HE1	2.22	0.43
54:SI:58:LEU:C	54:SI:59:ARG:HG3	2.42	0.43
55:SK:79:LEU:HD23	55:SK:79:LEU:C	2.42	0.43
57:SP:47:ARG:HA	57:SP:47:ARG:HD3	1.73	0.43
58:SQ:13:PHE:O	58:SQ:90:LYS:NZ	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:104:SER:HA	58:SQ:107:GLU:OE1	2.18	0.43
59:SR:17:ILE:CD1	59:SR:57:LEU:HD21	2.44	0.43
60:SS:139:THR:HG22	60:SS:140:GLY:N	2.32	0.43
61:ST:128:GLN:OE1	61:ST:131:LEU:HD23	2.18	0.43
62:SU:66:ARG:HH22	62:SU:75:LYS:CA	2.27	0.43
64:SX:105:PHE:HE2	64:SX:112:VAL:HG12	1.83	0.43
68:Sg:77:PHE:HD1	68:Sg:89:LEU:CD1	2.31	0.43
68:Sg:106:LYS:NZ	68:Sg:127:LYS:HE2	2.33	0.43
68:Sg:146:SER:OG	68:Sg:175:LYS:HD3	2.18	0.43
70:SG:224:ARG:O	70:SG:228:ILE:HB	2.17	0.43
71:SJ:46:VAL:CG2	71:SJ:102:ILE:HG23	2.48	0.43
71:SJ:61:LEU:HA	71:SJ:70:ARG:HH12	1.82	0.43
71:SJ:80:ARG:O	71:SJ:83:ARG:HB2	2.18	0.43
77:SZ:44:LEU:O	77:SZ:45:ASN:HB2	2.18	0.43
78:Sb:21:LYS:C	78:Sb:23:ARG:H	2.26	0.43
1:L5:40:G:H5"	1:L5:41:C:OP2	2.17	0.43
1:L5:191:G:C2	1:L5:192:G:C8	3.06	0.43
1:L5:334:A:N6	1:L5:335:A:N1	2.66	0.43
1:L5:913:U:H2'	1:L5:914:U:C5	2.53	0.43
1:L5:1097:C:H3'	1:L5:1097:C:C6	2.52	0.43
1:L5:1414:C:N4	1:L5:1415:G:N7	2.65	0.43
1:L5:1506:G:N1	1:L5:1507:C:N3	2.65	0.43
1:L5:1530:G:N2	1:L5:1645:C:C2	2.87	0.43
1:L5:1731:C:C2'	1:L5:1732:C:H5'	2.48	0.43
1:L5:1872:G:H5"	30:Lb:3:LYS:HE3	1.99	0.43
1:L5:2050:G:N2	1:L5:2051:C:O2	2.51	0.43
1:L5:2106:G:O2'	1:L5:2108:G:H4'	2.18	0.43
1:L5:2688:G:H2'	1:L5:2688:G:N3	2.32	0.43
1:L5:2751:G:P	35:Lg:69:LYS:HZ1	2.40	0.43
1:L5:2839:U:O5'	1:L5:2839:U:H6	2.00	0.43
1:L5:2853:C:C3'	1:L5:2854:G:H5'	2.48	0.43
1:L5:2865:U:H2'	1:L5:2866:C:H5'	2.00	0.43
1:L5:3617:G:OP1	25:LW:44:ARG:NH2	2.44	0.43
1:L5:3686:G:H2'	1:L5:3687:A:C8	2.48	0.43
1:L5:3776:G:N3	1:L5:3776:G:H2'	2.33	0.43
1:L5:4187:G:C5	1:L5:4188:U:C6	3.06	0.43
1:L5:4306:U:H2'	1:L5:4307:A:C5'	2.47	0.43
1:L5:4407:G:H2'	1:L5:4408:G:C8	2.53	0.43
1:L5:4415:A:H2	1:L5:4428:A:H1'	1.83	0.43
1:L5:4428:A:H2'	1:L5:4429:C:H6	1.83	0.43
1:L5:4612:C:O2	11:LH:122:TYR:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4626:A:C6	1:L5:4668:U:C5	3.06	0.43
1:L5:5004:C:H2'	1:L5:5005:G:O4'	2.18	0.43
1:L5:5064:G:N2	1:L5:5065:U:C2	2.86	0.43
3:L8:125:C:H4'	3:L8:125:C:OP2	2.18	0.43
5:LB:41:VAL:HG12	5:LB:188:GLY:HA3	2.00	0.43
5:LB:81:THR:O	5:LB:81:THR:HG22	2.16	0.43
6:LC:27:VAL:HG21	6:LC:264:TYR:HB2	1.99	0.43
6:LC:153:VAL:HG22	6:LC:252:TRP:HB2	1.99	0.43
7:LD:82:GLU:OE2	7:LD:104:LEU:HD21	2.18	0.43
8:LE:127:SER:O	8:LE:130:LYS:HD3	2.18	0.43
9:LF:95:ILE:HB	9:LF:220:MET:HE1	1.98	0.43
9:LF:159:TYR:CD1	9:LF:168:ALA:HA	2.53	0.43
11:LH:31:ARG:CG	11:LH:32:GLY:N	2.78	0.43
11:LH:170:LYS:HD2	11:LH:175:PHE:HE2	1.83	0.43
12:LI:79:SER:OG	12:LI:80:CYS:N	2.52	0.43
13:LJ:35:ARG:HD2	13:LJ:122:SER:O	2.17	0.43
14:LL:47:ALA:CB	14:LL:48:PRO:HD2	2.30	0.43
14:LL:50:PRO:HB3	14:LL:154:VAL:HG11	2.00	0.43
15:LM:96:GLU:O	15:LM:100:ARG:N	2.46	0.43
15:LM:104:MET:SD	17:LO:199:HIS:HB3	2.58	0.43
15:LM:121:ARG:O	15:LM:125:ASN:HB2	2.18	0.43
16:LN:65:ARG:HD2	16:LN:127:TYR:CD1	2.53	0.43
17:LO:95:GLY:O	17:LO:98:ALA:HB3	2.17	0.43
18:LP:130:TYR:HD1	18:LP:136:ILE:HD13	1.84	0.43
20:LR:81:ARG:HG3	20:LR:81:ARG:O	2.18	0.43
21:LS:25:PRO:HA	21:LS:26:PRO:HD3	1.65	0.43
23:LU:26:THR:O	23:LU:30:GLU:HG2	2.18	0.43
23:LU:56:LEU:HB3	23:LU:61:VAL:HG22	1.99	0.43
28:LZ:23:ALA:HA	28:LZ:45:GLY:CA	2.48	0.43
31:Lc:68:LYS:HG2	31:Lc:68:LYS:O	2.18	0.43
32:Ld:57:MET:HB2	32:Ld:104:THR:OG1	2.18	0.43
34:Lf:4:ARG:NH1	34:Lf:8:LYS:NZ	2.67	0.43
35:Lg:3:GLN:HE21	35:Lg:30:ILE:HB	1.83	0.43
36:Lh:34:ALA:O	36:Lh:38:GLY:N	2.51	0.43
44:Lp:6:LYS:O	44:Lp:7:LYS:HG3	2.18	0.43
47:S2:144:U:H3	47:S2:175:A:H61	1.65	0.43
47:S2:151:C:H2'	47:S2:152:U:H5'	1.99	0.43
47:S2:185:G:N2	47:S2:214:U:O2	2.49	0.43
47:S2:378:U:H2'	47:S2:379:C:C6	2.53	0.43
47:S2:641:A:OP1	71:SJ:40:LYS:NZ	2.39	0.43
47:S2:937:C:H2'	47:S2:938:A:H8	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:956:G:H21	47:S2:972:A:H2	1.64	0.43
47:S2:1091:C:O2'	47:S2:1092:G:H5'	2.18	0.43
47:S2:1332:A:C2	47:S2:1500:G:H1'	2.53	0.43
47:S2:1349:G:H2'	47:S2:1350:U:O4'	2.18	0.43
47:S2:1589:A:C5'	61:ST:92:PHE:HD1	2.30	0.43
48:SA:120:ARG:HE	69:SC:267:GLN:CB	2.24	0.43
48:SA:179:ALA:O	48:SA:183:LEU:HG	2.17	0.43
49:SB:21:VAL:CG1	49:SB:22:VAL:H	2.20	0.43
49:SB:175:GLU:O	49:SB:179:ASN:ND2	2.43	0.43
52:SF:39:ILE:HG22	52:SF:39:ILE:O	2.18	0.43
53:SH:60:ILE:CG2	53:SH:92:VAL:HB	2.48	0.43
53:SH:72:PHE:O	53:SH:76:GLN:HB2	2.17	0.43
54:SI:42:ARG:NH2	54:SI:59:ARG:HH11	2.16	0.43
55:SK:35:LEU:CD1	55:SK:38:LYS:CB	2.96	0.43
57:SP:85:ILE:HD11	57:SP:105:VAL:CG1	2.45	0.43
57:SP:97:TYR:HA	57:SP:99:GLY:O	2.18	0.43
58:SQ:109:LYS:HE2	58:SQ:120:LEU:CD1	2.47	0.43
60:SS:7:GLU:HG2	60:SS:8:LYS:N	2.33	0.43
60:SS:20:ILE:CD1	60:SS:33:ILE:HG12	2.48	0.43
60:SS:124:ARG:NH1	60:SS:129:LEU:HD21	2.33	0.43
61:ST:9:VAL:HG12	61:ST:10:ASN:N	2.32	0.43
61:ST:28:LEU:CG	61:ST:30:VAL:HG13	2.46	0.43
64:SX:100:VAL:HG23	64:SX:101:LEU:N	2.33	0.43
64:SX:128:VAL:HG21	64:SX:138:LYS:CG	2.48	0.43
64:SX:132:ALA:CB	64:SX:138:LYS:CG	2.93	0.43
64:SX:133:LEU:HD21	64:SX:140:ARG:O	2.18	0.43
68:Sg:51:ASN:OD1	68:Sg:52:TYR:N	2.40	0.43
68:Sg:109:LEU:H	68:Sg:124:SER:HA	1.84	0.43
68:Sg:174:VAL:HG23	68:Sg:217:MET:HE1	1.99	0.43
71:SJ:70:ARG:O	71:SJ:74:GLY:HA3	2.18	0.43
71:SJ:84:ILE:CG2	71:SJ:86:VAL:HG22	2.48	0.43
72:SM:113:ASP:HB3	72:SM:114:TYR:H	1.52	0.43
1:L5:510:U:H5'	29:La:86:THR:OG1	2.18	0.43
1:L5:515:C:H41	1:L5:646:G:H1	1.67	0.43
1:L5:752:G:C2	1:L5:753:C:H1'	2.53	0.43
1:L5:1072:C:H42	8:LE:63:TYR:HE2	1.66	0.43
1:L5:1074:G:C6	1:L5:1075:G:C6	3.07	0.43
1:L5:1081:C:C5	1:L5:1220:G:N2	2.87	0.43
1:L5:1268:G:C1'	1:L5:1269:G:C5	3.01	0.43
1:L5:1271:G:H21	1:L5:1272:C:H5"	1.83	0.43
1:L5:1446:C:N4	1:L5:2098:G:H22	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1464:C:OP1	30:Lb:32:LEU:HD12	2.18	0.43
1:L5:1617:G:H5'	1:L5:2802:C:C5'	2.48	0.43
1:L5:1766:A:H5'	1:L5:1767:A:C5'	2.48	0.43
1:L5:1802:A:H4'	22:LT:105:PHE:CE1	2.54	0.43
1:L5:1861:U:C5	1:L5:1862:U:C5	3.06	0.43
1:L5:1866:U:HO2'	1:L5:1867:A:P	2.39	0.43
1:L5:2014:C:H2'	1:L5:2015:U:O4'	2.17	0.43
1:L5:2023:C:H2'	1:L5:2024:G:O4'	2.19	0.43
1:L5:2094:G:C2'	1:L5:2095:A:C8	2.98	0.43
1:L5:2094:G:N1	9:LF:180:GLY:HA3	2.33	0.43
1:L5:2373:C:O2'	1:L5:2374:A:H5'	2.18	0.43
1:L5:2517:A:N3	1:L5:2539:C:O2'	2.52	0.43
1:L5:2779:C:O2'	3:L8:112:G:OP1	2.28	0.43
1:L5:3669:G:H8	1:L5:3669:G:O5'	2.02	0.43
1:L5:3746:A:H5"	4:LA:244:GLY:CA	2.42	0.43
1:L5:3914:U:H5'	1:L5:3915:U:OP1	2.17	0.43
1:L5:4118:U:C5	4:LA:95:GLN:HG2	2.53	0.43
1:L5:4652:G:H4'	32:Ld:75:LYS:NZ	2.34	0.43
1:L5:4701:A:H2'	1:L5:4702:G:H5'	1.99	0.43
2:L7:114:U:HO2'	7:LD:74:ILE:H	1.66	0.43
3:L8:61:A:OP2	36:Lh:51:ARG:NH1	2.51	0.43
3:L8:67:U:OP1	38:Lj:86:PRO:HA	2.17	0.43
4:LA:42:LYS:HA	4:LA:89:TYR:HD1	1.80	0.43
5:LB:201:LEU:C	5:LB:201:LEU:HD23	2.43	0.43
5:LB:224:LYS:O	5:LB:274:TYR:N	2.49	0.43
8:LE:150:LEU:HD13	8:LE:194:VAL:HG21	2.00	0.43
10:LG:96:LEU:CB	10:LG:99:ALA:HB3	2.43	0.43
10:LG:164:ILE:O	10:LG:165:GLU:CB	2.65	0.43
11:LH:4:ILE:HA	11:LH:61:TRP:CE3	2.53	0.43
11:LH:115:ARG:NH1	11:LH:123:ILE:HD13	2.26	0.43
12:LI:60:LEU:C	12:LI:126:VAL:HG23	2.43	0.43
12:LI:203:HIS:ND1	12:LI:203:HIS:O	2.51	0.43
13:LJ:57:VAL:HG23	13:LJ:59:SER:O	2.18	0.43
13:LJ:120:ASP:HB2	13:LJ:121:PRO:CD	2.49	0.43
15:LM:3:PHE:HB3	21:LS:153:PRO:HB3	2.00	0.43
15:LM:95:ILE:CG2	15:LM:96:GLU:N	2.76	0.43
15:LM:130:LEU:C	15:LM:130:LEU:HD23	2.43	0.43
16:LN:47:LYS:HB2	16:LN:50:ARG:NH1	2.34	0.43
19:LQ:61:LEU:HD13	19:LQ:141:GLY:HA2	2.01	0.43
26:LX:127:LEU:HD11	26:LX:135:LYS:CD	2.47	0.43
38:Lj:33:THR:HG23	38:Lj:33:THR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:Lz:175:THR:CG2	46:Lz:177:ASP:HB3	2.46	0.43
46:Lz:203:ALA:CB	46:Lz:215:ARG:HB3	2.48	0.43
46:Lz:206:ILE:HG22	46:Lz:213:PRO:HA	2.00	0.43
47:S2:101:U:C4	47:S2:408:A:C2	3.06	0.43
47:S2:222:U:H2'	47:S2:223:C:H6	1.84	0.43
47:S2:314:U:H2'	47:S2:315:C:C6	2.54	0.43
47:S2:421:G:N2	47:S2:653:A:H5'	2.33	0.43
47:S2:535:G:H2'	47:S2:536:A:O5'	2.17	0.43
47:S2:636:C:OP2	79:Se:21:LYS:NZ	2.40	0.43
47:S2:880:G:H22	47:S2:907:G:N2	2.15	0.43
47:S2:1174:U:C4	47:S2:1175:G:N7	2.86	0.43
47:S2:1252:C:OP1	62:SU:75:LYS:NZ	2.31	0.43
47:S2:1258:A:C6	47:S2:1663:A:C6	3.06	0.43
47:S2:1449:G:H1'	47:S2:1450:G:C5'	2.49	0.43
47:S2:1545:A:P	58:SQ:74:GLY:HA2	2.58	0.43
47:S2:1592:C:OP1	52:SF:88:MET:HB3	2.18	0.43
48:SA:19:LEU:HD23	48:SA:24:HIS:CE1	2.53	0.43
48:SA:137:ALA:O	48:SA:140:VAL:HG12	2.17	0.43
48:SA:179:ALA:HA	48:SA:182:VAL:CG2	2.42	0.43
49:SB:164:ILE:HD11	49:SB:204:ILE:CG2	2.48	0.43
51:SE:36:HIS:CD2	51:SE:85:GLY:HA3	2.53	0.43
52:SF:88:MET:O	52:SF:91:ARG:HB3	2.19	0.43
56:SL:37:TYR:CD2	56:SL:51:ILE:HG12	2.53	0.43
58:SQ:20:THR:HG22	58:SQ:21:ALA:H	1.82	0.43
58:SQ:35:ASN:CB	58:SQ:37:ARG:HH11	2.23	0.43
59:SR:80:ARG:CG	59:SR:84:TYR:HE2	2.27	0.43
60:SS:20:ILE:HG12	60:SS:33:ILE:HG12	1.99	0.43
63:SV:70:LEU:HD11	63:SV:83:PHE:CZ	2.53	0.43
65:Sa:23:CYS:SG	65:Sa:26:CYS:SG	3.16	0.43
65:Sa:49:ALA:HB1	74:SO:117:ARG:HD3	2.00	0.43
68:Sg:17:TRP:HZ2	68:Sg:36:ARG:HE	1.65	0.43
68:Sg:216:ALA:O	68:Sg:229:THR:HG23	2.18	0.43
69:SC:134:ASN:O	69:SC:167:ARG:NH2	2.45	0.43
69:SC:147:VAL:O	69:SC:151:ILE:HG13	2.19	0.43
70:SG:176:ILE:CG2	70:SG:177:GLN:N	2.81	0.43
71:SJ:15:THR:CG2	71:SJ:16:PRO:CD	2.97	0.43
72:SM:69:LEU:HA	72:SM:72:HIS:O	2.18	0.43
75:SW:26:LEU:HD11	75:SW:60:LYS:CD	2.41	0.43
75:SW:26:LEU:HD12	75:SW:61:ILE:O	2.17	0.43
75:SW:80:ASP:HA	75:SW:124:LYS:HA	2.01	0.43
78:Sb:19:HIS:CG	78:Sb:20:LYS:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Sb:32:PHE:HE1	78:Sb:47:PHE:CD1	2.35	0.43
1:L5:107:G:OP2	14:LL:42:LYS:HE2	2.18	0.43
1:L5:260:C:H2'	1:L5:261:G:C8	2.53	0.43
1:L5:364:G:O6	38:Lj:52:LYS:HE2	2.18	0.43
1:L5:443:G:N2	1:L5:1305:C:C2	2.86	0.43
1:L5:665:C:H2'	1:L5:667:A:C6	2.54	0.43
1:L5:665:C:H2'	1:L5:667:A:C5	2.54	0.43
1:L5:668:C:OP1	45:Lr:69:GLY:HA2	2.19	0.43
1:L5:1266:G:N2	1:L5:1268:G:O5'	2.52	0.43
1:L5:1357:C:C2	1:L5:1380:G:C6	3.06	0.43
1:L5:1368:A:C4	27:LY:1:MET:HG2	2.53	0.43
1:L5:1552:G:H2'	1:L5:1574:G:H21	1.77	0.43
1:L5:1579:C:H6	1:L5:1579:C:O5'	2.02	0.43
1:L5:1596:U:O2'	1:L5:1597:G:P	2.76	0.43
1:L5:1627:G:C6	1:L5:1628:C:N3	2.86	0.43
1:L5:1735:U:O4	1:L5:1736:A:N6	2.42	0.43
1:L5:1745:G:N2	1:L5:1785:C:O2	2.43	0.43
1:L5:1833:G:HO2'	1:L5:1834:U:P	2.41	0.43
1:L5:1874:A:C2	1:L5:1875:C:C2	3.07	0.43
1:L5:1943:A:H2'	1:L5:1944:A:C5'	2.46	0.43
1:L5:1956:A:H2'	1:L5:1956:A:N3	2.33	0.43
1:L5:1973:G:H3'	1:L5:1974:U:H5'	2.01	0.43
1:L5:2011:C:H3'	1:L5:2012:A:C5'	2.48	0.43
1:L5:2121:C:H5'	9:LF:41:MET:HE2	1.99	0.43
1:L5:2344:U:H2'	29:La:9:ARG:NH1	2.33	0.43
1:L5:2405:G:H5"	38:Lj:14:LYS:HZ2	1.82	0.43
1:L5:2468:U:H1'	1:L5:2469:C:C6	2.54	0.43
1:L5:2499:C:H2'	1:L5:2500:U:O4'	2.18	0.43
1:L5:2649:G:C2'	1:L5:2650:G:H5'	2.49	0.43
1:L5:2870:A:C2	1:L5:2881:A:N1	2.87	0.43
1:L5:3673:C:O2'	1:L5:3674:G:O5'	2.37	0.43
1:L5:4392:G:C6	1:L5:4447:C:H2'	2.54	0.43
1:L5:4540:C:C2'	1:L5:4541:G:H5'	2.48	0.43
1:L5:4585:U:O5'	1:L5:4585:U:H6	2.02	0.43
1:L5:4587:G:N1	1:L5:4715:C:O2	2.52	0.43
1:L5:4723:A:H2'	1:L5:4724:A:C8	2.54	0.43
1:L5:4741:C:O2	1:L5:4741:C:C2'	2.67	0.43
1:L5:4749:C:H2'	1:L5:4750:G:C5'	2.37	0.43
1:L5:4916:G:H2'	1:L5:4917:C:N1	2.33	0.43
1:L5:4982:A:H2'	1:L5:4983:C:H5'	2.01	0.43
2:L7:8:G:O2'	2:L7:9:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:65:A:N1	3:L8:66:A:C4	2.86	0.43
3:L8:108:A:C2	3:L8:109:C:C6	3.06	0.43
3:L8:135:C:C2'	3:L8:136:U:H5'	2.48	0.43
5:LB:314:ILE:O	5:LB:316:PRO:HD3	2.19	0.43
5:LB:384:GLU:OE2	25:LW:14:TYR:OH	2.36	0.43
5:LB:391:PRO:O	5:LB:392:LEU:HB2	2.17	0.43
6:LC:136:LEU:O	6:LC:139:SER:N	2.52	0.43
6:LC:147:VAL:HG13	6:LC:148:PRO:HD2	1.99	0.43
6:LC:194:GLY:O	6:LC:199:ARG:HB2	2.18	0.43
7:LD:109:LEU:HD21	7:LD:113:PHE:HE2	1.82	0.43
10:LG:166:LEU:HD21	16:LN:45:PRO:HG2	2.00	0.43
12:LI:90:ARG:NH2	12:LI:134:VAL:HG21	2.33	0.43
12:LI:150:GLU:CD	12:LI:153:ARG:HH21	2.20	0.43
13:LJ:12:MET:HA	13:LJ:137:PRO:HB2	2.00	0.43
13:LJ:33:LEU:O	13:LJ:36:ALA:HB3	2.19	0.43
13:LJ:99:PHE:CE1	13:LJ:105:PHE:HB3	2.51	0.43
13:LJ:118:LYS:HA	60:SS:13:LEU:HD22	2.00	0.43
17:LO:23:VAL:HG13	17:LO:33:VAL:HG11	1.99	0.43
19:LQ:5:ILE:CG1	19:LQ:6:ARG:N	2.81	0.43
19:LQ:64:SER:CB	19:LQ:92:VAL:HG21	2.48	0.43
19:LQ:100:VAL:CG2	19:LQ:101:CYS:N	2.81	0.43
19:LQ:159:PRO:HA	19:LQ:160:HIS:HA	1.66	0.43
23:LU:101:ARG:CD	23:LU:115:PHE:HE1	2.24	0.43
36:Lh:89:ARG:O	36:Lh:92:ARG:N	2.50	0.43
36:Lh:105:LYS:HA	36:Lh:108:GLN:OE1	2.19	0.43
39:Lk:61:PRO:N	39:Lk:62:PRO:CD	2.81	0.43
42:Ln:8:LYS:O	42:Ln:11:ARG:HB2	2.19	0.43
43:Lo:66:ILE:CD1	43:Lo:88:CYS:SG	3.06	0.43
45:Lr:43:LEU:C	45:Lr:43:LEU:HD12	2.43	0.43
47:S2:29:G:H5"	64:SX:129:SER:HB2	1.99	0.43
47:S2:75:G:C2	70:SG:159:ARG:HD3	2.53	0.43
47:S2:89:C:H2'	47:S2:90:G:H8	1.82	0.43
47:S2:514:U:C2'	47:S2:515:G:H5'	2.48	0.43
47:S2:589:G:O2'	47:S2:590:A:H2'	2.19	0.43
47:S2:659:G:O2'	47:S2:662:G:O2'	2.36	0.43
47:S2:871:U:O2'	47:S2:872:A:O5'	2.31	0.43
47:S2:874:G:C1'	53:SH:114:GLN:HE22	2.32	0.43
47:S2:936:G:C6	47:S2:937:C:C4	3.06	0.43
47:S2:957:A:O2'	47:S2:958:G:O5'	2.35	0.43
47:S2:970:G:O2'	47:S2:971:G:OP1	2.24	0.43
47:S2:1014:G:N7	73:SN:12:SER:HB2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1093:A:N6	47:S2:1151:G:O6	2.50	0.43
47:S2:1260:A:C8	47:S2:1261:C:H5	2.36	0.43
47:S2:1325:G:N2	47:S2:1503:C:C2	2.86	0.43
47:S2:1391:C:C6	47:S2:1391:C:C3'	3.01	0.43
48:SA:90:PHE:CD1	48:SA:179:ALA:HB2	2.53	0.43
50:SD:67:ARG:NH2	55:SK:95:ARG:HD3	2.33	0.43
50:SD:157:MET:HG3	50:SD:159:HIS:CE1	2.54	0.43
50:SD:215:ASP:C	50:SD:216:GLU:HG3	2.44	0.43
51:SE:54:TYR:HB3	76:SY:15:ASN:ND2	2.33	0.43
51:SE:259:LYS:HA	51:SE:262:SER:CA	2.48	0.43
57:SP:73:PRO:HA	57:SP:74:GLU:HB2	1.99	0.43
58:SQ:92:LEU:HD23	58:SQ:92:LEU:C	2.43	0.43
59:SR:35:CYS:SG	59:SR:47:ARG:HG3	2.59	0.43
59:SR:107:LYS:HA	59:SR:110:ASP:CG	2.43	0.43
60:SS:17:ASN:ND2	60:SS:101:ASN:HD21	2.17	0.43
60:SS:44:VAL:O	60:SS:47:LYS:HG2	2.19	0.43
61:ST:4:VAL:CG2	61:ST:5:THR:H	2.07	0.43
62:SU:67:LYS:HB3	62:SU:76:THR:O	2.19	0.43
68:Sg:68:ASP:O	68:Sg:81:GLY:N	2.51	0.43
70:SG:63:MET:HB3	70:SG:98:ARG:CG	2.49	0.43
71:SJ:73:GLU:O	71:SJ:76:ALA:HB3	2.17	0.43
71:SJ:112:THR:O	71:SJ:116:LYS:N	2.22	0.43
71:SJ:114:VAL:CA	71:SJ:119:LEU:HD12	2.44	0.43
72:SM:42:LEU:O	72:SM:42:LEU:HD23	2.19	0.43
77:SZ:58:LEU:C	77:SZ:58:LEU:HD12	2.44	0.43
1:L5:5:A:H2'	1:L5:6:C:C6	2.52	0.43
1:L5:146:G:C2	1:L5:147:A:C8	3.06	0.43
1:L5:216:C:O2	1:L5:217:C:H5"	2.18	0.43
1:L5:245:C:O5'	1:L5:245:C:H6	2.01	0.43
1:L5:247:G:H2'	1:L5:248:C:C6	2.52	0.43
1:L5:393:U:H5'	1:L5:393:U:H6	1.83	0.43
1:L5:498:C:HO2'	1:L5:501:C:H42	1.63	0.43
1:L5:665:C:C2'	1:L5:667:A:N7	2.81	0.43
1:L5:744:G:H2'	1:L5:745:G:C8	2.54	0.43
1:L5:957:G:O2'	1:L5:958:G:OP1	2.35	0.43
1:L5:1173:G:C5	1:L5:1174:G:N1	2.87	0.43
1:L5:1217:G:N3	1:L5:1218:G:N1	2.67	0.43
1:L5:1751:A:H2'	1:L5:1752:G:O4'	2.19	0.43
1:L5:1973:G:H5'	1:L5:1974:U:OP2	2.18	0.43
1:L5:2373:C:H4'	32:Ld:64:ILE:CG1	2.49	0.43
1:L5:2442:G:H2'	1:L5:2442:G:N3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2503:G:C4	1:L5:4084:G:C2	3.06	0.43
1:L5:2751:G:O2'	1:L5:2752:G:H5'	2.18	0.43
1:L5:2753:G:H5'	1:L5:2754:G:OP2	2.19	0.43
1:L5:3597:G:H2'	1:L5:3598:C:O4'	2.17	0.43
1:L5:3634:G:C6	1:L5:3827:G:N1	2.86	0.43
1:L5:3763:A:H2'	1:L5:3764:U:C5'	2.41	0.43
1:L5:4082:G:N2	1:L5:4165:C:C2	2.86	0.43
1:L5:4148:C:O2'	1:L5:4149:C:H5'	2.19	0.43
1:L5:4232:U:H4'	1:L5:4233:A:O4'	2.18	0.43
1:L5:4266:G:C8	1:L5:4279:A:N7	2.87	0.43
1:L5:4462:C:N3	1:L5:4515:G:C2	2.86	0.43
1:L5:4481:U:C2'	1:L5:4482:U:H5'	2.49	0.43
1:L5:4688:C:H6	1:L5:4688:C:O5'	2.01	0.43
1:L5:4730:C:H6	1:L5:4734:A:N1	2.17	0.43
1:L5:4920:C:H3'	1:L5:4921:C:C5	2.53	0.43
1:L5:4920:C:C5	1:L5:4921:C:C4	3.06	0.43
2:L7:48:G:C2'	2:L7:49:A:C5'	2.95	0.43
3:L8:53:G:O2'	40:Ll:40:LYS:HE2	2.18	0.43
3:L8:61:A:OP1	36:Lh:52:LYS:NZ	2.26	0.43
3:L8:85:U:HO2'	3:L8:86:U:P	2.41	0.43
5:LB:81:THR:CG2	5:LB:207:VAL:HB	2.48	0.43
5:LB:283:LYS:NZ	5:LB:361:GLU:HB3	2.33	0.43
7:LD:190:PHE:CZ	7:LD:192:ALA:HA	2.51	0.43
8:LE:90:ALA:C	8:LE:109:LEU:HD12	2.43	0.43
8:LE:153:LEU:HD21	8:LE:195:ILE:HD11	2.01	0.43
9:LF:159:TYR:HD2	9:LF:166:ARG:CZ	2.31	0.43
10:LG:80:ILE:CD1	16:LN:22:LEU:HD21	2.49	0.43
10:LG:182:CYS:HB3	10:LG:222:ILE:HG21	2.01	0.43
11:LH:4:ILE:O	11:LH:4:ILE:HG12	2.18	0.43
11:LH:10:VAL:HG12	11:LH:11:ASP:O	2.18	0.43
13:LJ:56:THR:HG21	13:LJ:64:ARG:NH1	2.34	0.43
13:LJ:76:GLY:C	13:LJ:79:ALA:H	2.26	0.43
13:LJ:100:SER:C	13:LJ:159:LYS:HD3	2.43	0.43
15:LM:119:ARG:HG3	17:LO:189:ILE:HD11	2.00	0.43
17:LO:14:HIS:HD2	17:LO:123:ALA:HB3	1.84	0.43
20:LR:112:SER:O	20:LR:113:LYS:HB2	2.18	0.43
20:LR:177:LEU:C	20:LR:177:LEU:HD12	2.44	0.43
24:LV:65:VAL:O	24:LV:65:VAL:HG23	2.18	0.43
25:LW:9:SER:OG	25:LW:52:THR:HG22	2.19	0.43
29:La:70:CYS:HA	29:La:71:PRO:HD2	1.80	0.43
35:Lg:37:LYS:HD2	35:Lg:60:ARG:CZ	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:Lp:56:HIS:NE2	44:Lp:61:MET:SD	2.92	0.43
46:Lz:56:LYS:CE	46:Lz:174:MET:HE1	2.49	0.43
46:Lz:67:VAL:HA	46:Lz:68:LEU:HA	1.60	0.43
47:S2:57:U:O2'	47:S2:58:C:H5'	2.17	0.43
47:S2:109:U:H2'	47:S2:110:U:O4'	2.18	0.43
47:S2:409:C:C2	47:S2:432:G:N2	2.87	0.43
47:S2:487:U:C5	47:S2:513:G:N2	2.86	0.43
47:S2:523:A:N7	47:S2:524:U:C2	2.86	0.43
47:S2:534:G:C2	47:S2:535:G:C4	3.06	0.43
47:S2:662:G:H4'	47:S2:663:C:C5'	2.49	0.43
47:S2:870:A:H2'	47:S2:870:A:OP2	2.18	0.43
47:S2:944:A:N3	74:SO:139:SER:OG	2.48	0.43
47:S2:1048:G:C2	47:S2:1069:U:H5	2.36	0.43
47:S2:1519:U:H4'	60:SS:135:HIS:HD2	1.84	0.43
47:S2:1520:G:N3	47:S2:1520:G:C2'	2.81	0.43
47:S2:1791:A:O2'	47:S2:1792:G:H5'	2.18	0.43
47:S2:1842:C:C2	47:S2:1858:G:N2	2.87	0.43
51:SE:18:TRP:HB3	51:SE:20:LEU:HG	1.99	0.43
52:SF:76:MET:HE3	52:SF:173:LEU:HB3	1.99	0.43
53:SH:127:ASP:O	53:SH:131:GLU:N	2.52	0.43
55:SK:94:LEU:CD2	55:SK:96:ARG:HG2	2.48	0.43
56:SL:57:ASP:OD2	56:SL:60:CYS:HB2	2.18	0.43
57:SP:67:ALA:HB2	57:SP:74:GLU:OE1	2.19	0.43
59:SR:99:ASP:O	59:SR:102:THR:HG22	2.18	0.43
60:SS:34:LYS:HE3	60:SS:34:LYS:HB3	1.85	0.43
60:SS:48:ALA:C	60:SS:50:ILE:N	2.76	0.43
62:SU:51:LYS:HB2	62:SU:90:ASP:OD2	2.19	0.43
68:Sg:89:LEU:O	68:Sg:98:THR:N	2.47	0.43
69:SC:272:HIS:ND1	69:SC:276:THR:HG21	2.33	0.43
70:SG:58:LYS:HB2	70:SG:105:ASN:O	2.18	0.43
72:SM:35:ILE:HD11	72:SM:61:TYR:CE1	2.53	0.43
74:SO:30:VAL:CG1	74:SO:94:HIS:HB2	2.11	0.43
78:Sb:47:PHE:CE2	78:Sb:49:HIS:HB2	2.53	0.43
1:L5:34:A:H2'	1:L5:34:A:N3	2.32	0.43
1:L5:75:G:H1'	14:LL:101:ARG:HD2	2.00	0.43
1:L5:106:A:C6	1:L5:107:G:C5	3.07	0.43
1:L5:169:G:N1	1:L5:170:C:C5	2.86	0.43
1:L5:228:C:C4	1:L5:241:G:N2	2.86	0.43
1:L5:482:G:N1	1:L5:483:G:N3	2.66	0.43
1:L5:493:G:C5	1:L5:494:U:C5	3.06	0.43
1:L5:971:U:H3'	1:L5:971:U:P	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:972:C:C4	1:L5:973:G:C6	3.07	0.43
1:L5:1341:U:H2'	1:L5:1342:A:H8	1.83	0.43
1:L5:1358:G:N7	1:L5:1379:C:N4	2.66	0.43
1:L5:1433:A:C2	1:L5:1452:A:C2	3.07	0.43
1:L5:1520:C:H6	1:L5:1520:C:O5'	2.02	0.43
1:L5:1541:C:C2	1:L5:1542:U:C5	3.07	0.43
1:L5:1582:U:H2'	1:L5:1583:A:H5'	2.00	0.43
1:L5:1726:U:O2'	1:L5:1727:U:O5'	2.28	0.43
1:L5:1826:G:O2'	1:L5:1827:C:H5'	2.18	0.43
1:L5:1855:G:H2'	1:L5:1856:C:C6	2.52	0.43
1:L5:1951:G:C2	1:L5:1952:G:H1'	2.54	0.43
1:L5:2046:G:C4	17:LO:60:LYS:HD3	2.54	0.43
1:L5:2279:A:C2	1:L5:2280:G:C4	3.07	0.43
1:L5:2520:C:O2'	1:L5:2521:G:H5'	2.19	0.43
1:L5:2576:G:H5"	28:LZ:69:LYS:NZ	2.32	0.43
1:L5:3769:C:O2	1:L5:3769:C:H2'	2.16	0.43
1:L5:3796:U:C6	1:L5:3797:C:H5	2.36	0.43
1:L5:3811:G:H21	1:L5:3814:U:C1'	2.31	0.43
1:L5:3859:G:H5'	18:LP:139:TYR:CE2	2.54	0.43
1:L5:3922:G:O2'	1:L5:3923:A:H5"	2.18	0.43
1:L5:4097:G:H5"	35:Lg:115:LYS:CG	2.46	0.43
1:L5:4266:G:H1'	1:L5:4279:A:N6	2.33	0.43
1:L5:4364:G:C1'	29:La:58:MET:HE2	2.48	0.43
1:L5:4888:U:O2	1:L5:4931:G:N2	2.49	0.43
2:L7:25:G:H2'	2:L7:26:C:H5'	2.00	0.43
3:L8:106:G:N2	3:L8:107:C:O2	2.52	0.43
5:LB:36:ASP:OD1	5:LB:39:LYS:HG3	2.18	0.43
6:LC:106:LYS:HD3	6:LC:108:TRP:CH2	2.54	0.43
8:LE:63:TYR:CD1	8:LE:68:MET:HB3	2.53	0.43
9:LF:91:PHE:CE2	9:LF:244:ILE:HD13	2.53	0.43
9:LF:200:ARG:O	9:LF:204:ALA:HB2	2.18	0.43
11:LH:112:VAL:HG22	11:LH:126:VAL:O	2.19	0.43
12:LI:91:LEU:CD2	12:LI:127:ALA:HB3	2.46	0.43
14:LL:20:ARG:NH1	14:LL:21:ARG:HE	2.16	0.43
14:LL:110:LEU:HD23	14:LL:110:LEU:C	2.43	0.43
14:LL:168:VAL:HG12	29:La:96:GLY:C	2.44	0.43
17:LO:77:SER:OG	17:LO:106:ASP:HB3	2.19	0.43
18:LP:137:ASN:CB	18:LP:138:PRO:HD2	2.47	0.43
21:LS:157:ARG:CG	21:LS:176:PHE:HE2	2.32	0.43
23:LU:91:LEU:CD2	23:LU:96:LEU:HD12	2.48	0.43
31:Lc:37:MET:O	31:Lc:40:GLN:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Ld:61:ASP:OD1	32:Ld:62:VAL:N	2.52	0.43
36:Lh:64:THR:O	36:Lh:68:ASN:N	2.33	0.43
40:Ll:23:ILE:HD11	40:Ll:38:ASN:H	1.77	0.43
46:Lz:23:ARG:HA	46:Lz:212:LYS:NZ	2.34	0.43
47:S2:60:A:C2	47:S2:317:C:H1'	2.54	0.43
47:S2:363:A:O2'	47:S2:398:A:N6	2.52	0.43
47:S2:560:A:P	71:SJ:177:ASN:HD22	2.39	0.43
47:S2:1049:A:H2'	47:S2:1050:A:H5'	1.98	0.43
47:S2:1144:A:H2'	47:S2:1145:A:O4'	2.18	0.43
47:S2:1158:G:O3'	75:SW:76:SER:OG	2.37	0.43
47:S2:1218:C:H2'	47:S2:1219:C:C5'	2.48	0.43
47:S2:1264:C:O2	47:S2:1517:G:N1	2.46	0.43
47:S2:1452:A:N6	47:S2:1474:A:C4	2.87	0.43
47:S2:1453:C:N4	47:S2:1475:G:N1	2.65	0.43
47:S2:1471:C:C4	47:S2:1472:C:C4	3.07	0.43
47:S2:1553:C:H42	47:S2:1557:C:C4'	2.31	0.43
47:S2:1567:G:H2'	47:S2:1568:C:O5'	2.19	0.43
47:S2:1598:G:H5'	77:SZ:80:ARG:NH2	2.21	0.43
48:SA:142:LEU:HA	48:SA:143:PRO:HD2	1.83	0.43
48:SA:200:ASP:HB2	59:SR:89:SER:CB	2.49	0.43
49:SB:129:THR:OG1	49:SB:179:ASN:O	2.37	0.43
50:SD:119:CYS:HB2	50:SD:152:PHE:CD2	2.54	0.43
51:SE:87:MET:CE	51:SE:226:PHE:HE2	2.31	0.43
52:SF:59:LYS:HB3	52:SF:62:ARG:CG	2.47	0.43
53:SH:58:LYS:HD2	53:SH:90:LYS:HD3	1.99	0.43
54:SI:140:LYS:HG3	54:SI:141:ARG:N	2.33	0.43
54:SI:178:ARG:HA	54:SI:179:PRO:HD2	1.87	0.43
56:SL:24:LEU:C	56:SL:24:LEU:HD12	2.44	0.43
59:SR:12:ALA:HA	59:SR:15:VAL:HB	2.00	0.43
62:SU:64:THR:HG23	62:SU:78:ASP:O	2.18	0.43
64:SX:51:VAL:HG23	64:SX:98:ASP:O	2.19	0.43
66:Sc:34:PHE:HZ	66:Sc:40:ARG:HE	1.66	0.43
68:Sg:72:SER:OG	68:Sg:77:PHE:HB2	2.18	0.43
68:Sg:88:ARG:NH2	68:Sg:97:THR:HG21	2.33	0.43
70:SG:191:ARG:O	70:SG:195:LYS:HG3	2.18	0.43
70:SG:237:LEU:C	70:SG:237:LEU:HD12	2.44	0.43
78:Sb:50:ALA:HB3	78:Sb:71:ALA:HB2	1.99	0.43
1:L5:73:A:C2	1:L5:74:G:C8	3.07	0.43
1:L5:116:G:H2'	1:L5:117:C:O4'	2.18	0.43
1:L5:319:A:H5'	1:L5:3727:A:O2'	2.18	0.43
1:L5:374:G:H2'	1:L5:375:G:C5'	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:495:C:H2'	1:L5:496:G:H5'	1.99	0.43
1:L5:697:G:H2'	1:L5:698:G:C5'	2.49	0.43
1:L5:1171:G:N1	1:L5:1189:G:N2	2.66	0.43
1:L5:1265:G:C8	1:L5:1266:G:N7	2.87	0.43
1:L5:1544:G:N2	1:L5:1545:G:H1'	2.34	0.43
1:L5:1669:A:P	30:Lb:18:ARG:HH12	2.41	0.43
1:L5:1913:C:H2'	1:L5:1914:C:O4'	2.19	0.43
1:L5:2095:A:HO2'	1:L5:2096:G:P	2.38	0.43
1:L5:2109:G:C4	1:L5:2110:C:H5	2.37	0.43
1:L5:2254:G:H3'	1:L5:2254:G:N3	2.34	0.43
1:L5:2519:U:O2'	1:L5:2530:U:O2	2.36	0.43
1:L5:2537:A:C5	1:L5:2538:U:C2	3.07	0.43
1:L5:2647:A:H62	1:L5:2686:G:H8	1.64	0.43
1:L5:2802:C:O5'	1:L5:2802:C:H6	2.01	0.43
1:L5:2868:G:H1'	1:L5:2883:G:N2	2.33	0.43
1:L5:2888:G:C2	1:L5:3614:G:C2	3.06	0.43
1:L5:3661:G:O6	4:LA:151:PRO:HD2	2.19	0.43
1:L5:3686:G:C5	1:L5:3687:A:N7	2.87	0.43
1:L5:3766:A:C8	47:S2:1849:G:N7	2.86	0.43
1:L5:3824:A:H2'	1:L5:3825:A:H5'	2.01	0.43
1:L5:3897:G:H5'	5:LB:254:ILE:HD11	2.01	0.43
1:L5:4221:C:H5"	1:L5:4222:G:OP1	2.18	0.43
1:L5:4532:U:O2'	1:L5:4533:A:H5'	2.19	0.43
1:L5:4630:G:N2	1:L5:4669:A:C4	2.86	0.43
1:L5:4639:G:C8	1:L5:4661:G:C2	3.07	0.43
1:L5:4648:A:N6	1:L5:4649:G:O6	2.51	0.43
2:L7:116:G:C2	2:L7:117:G:C8	3.07	0.43
3:L8:84:A:O2'	3:L8:85:U:OP2	2.35	0.43
5:LB:229:LYS:HG2	5:LB:272:LYS:HB3	2.01	0.43
5:LB:285:TYR:CD1	5:LB:363:ILE:HD13	2.46	0.43
7:LD:90:VAL:HG11	7:LD:229:ASN:CG	2.44	0.43
8:LE:84:LYS:O	8:LE:85:LYS:NZ	2.42	0.43
8:LE:145:THR:HG23	8:LE:146:PRO:HD2	2.01	0.43
8:LE:277:LEU:CD1	8:LE:281:ILE:CD1	2.96	0.43
9:LF:190:LEU:HD21	9:LF:208:LEU:HD21	2.01	0.43
9:LF:236:ARG:O	9:LF:238:ASP:N	2.52	0.43
10:LG:60:TYR:CZ	10:LG:61:ILE:CG2	3.02	0.43
10:LG:128:VAL:HA	10:LG:129:PRO:HD2	1.87	0.43
10:LG:161:VAL:HG12	10:LG:163:PRO:HD2	2.01	0.43
10:LG:165:GLU:HA	10:LG:168:VAL:HG13	2.00	0.43
12:LI:86:HIS:CD2	12:LI:87:MET:H	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:LI:212:LEU:HD12	12:LI:212:LEU:O	2.19	0.43
13:LJ:59:SER:C	13:LJ:61:GLY:H	2.27	0.43
13:LJ:95:ARG:N	13:LJ:98:ASN:OD1	2.51	0.43
15:LM:86:TRP:CE2	15:LM:92:ALA:HB2	2.54	0.43
16:LN:7:ILE:CA	16:LN:10:LEU:HB3	2.48	0.43
21:LS:112:ASP:OD1	21:LS:116:ARG:NE	2.52	0.43
21:LS:154:LEU:CD1	21:LS:157:ARG:HH22	2.27	0.43
23:LU:112:LEU:HD12	23:LU:112:LEU:N	2.34	0.43
24:LV:82:ILE:O	24:LV:83:ARG:HG3	2.18	0.43
27:LY:27:ARG:CD	27:LY:75:ARG:HH22	2.29	0.43
34:Lf:4:ARG:HH11	34:Lf:8:LYS:NZ	2.17	0.43
35:Lg:57:ARG:HH21	35:Lg:71:LYS:HD3	1.83	0.43
36:Lh:21:LEU:HD23	36:Lh:25:LYS:CD	2.46	0.43
41:Lm:88:LYS:HA	41:Lm:92:ASP:OD1	2.18	0.43
45:Lr:60:VAL:HG22	45:Lr:61:VAL:N	2.32	0.43
46:Lz:38:LEU:O	46:Lz:38:LEU:HD23	2.19	0.43
47:S2:47:G:N2	47:S2:48:C:C2	2.87	0.43
47:S2:373:G:C2	47:S2:392:A:C2	3.06	0.43
47:S2:532:C:O2	47:S2:532:C:C2'	2.66	0.43
47:S2:671:A:H4'	47:S2:672:A:H5"	2.00	0.43
47:S2:878:G:N3	47:S2:878:G:H2'	2.33	0.43
47:S2:1052:A:H61	47:S2:1067:C:N4	2.17	0.43
47:S2:1158:G:H8	47:S2:1158:G:O5'	2.01	0.43
47:S2:1423:C:O2	47:S2:1423:C:H2'	2.18	0.43
47:S2:1561:A:C2	47:S2:1575:G:N3	2.87	0.43
47:S2:1582:C:H2'	47:S2:1583:C:O4'	2.18	0.43
47:S2:1618:C:H2'	47:S2:1619:A:O4'	2.18	0.43
47:S2:1673:U:C2'	47:S2:1674:G:C5'	2.96	0.43
47:S2:1731:A:H2'	47:S2:1731:A:N3	2.33	0.43
49:SB:133:TYR:CE1	49:SB:221:PRO:HD2	2.54	0.43
49:SB:201:CYS:SG	49:SB:207:LEU:HG	2.59	0.43
50:SD:109:LEU:O	50:SD:112:GLY:N	2.47	0.43
51:SE:45:ILE:HB	51:SE:80:ILE:O	2.17	0.43
52:SF:165:ASN:OD1	52:SF:166:ILE:N	2.52	0.43
53:SH:46:THR:OG1	53:SH:65:PRO:HD3	2.19	0.43
53:SH:64:VAL:HG11	53:SH:72:PHE:CZ	2.53	0.43
54:SI:48:VAL:HG12	54:SI:54:LYS:HE2	2.01	0.43
55:SK:94:LEU:HD21	55:SK:96:ARG:HE	1.84	0.43
58:SQ:31:LEU:CD1	58:SQ:33:LYS:HG2	2.49	0.43
59:SR:5:ARG:HD3	59:SR:9:VAL:HG11	2.01	0.43
61:ST:96:SER:OG	61:ST:99:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:ST:128:GLN:CD	61:ST:131:LEU:HD23	2.44	0.43
65:Sa:43:ASN:CA	65:Sa:66:LYS:HG2	2.35	0.43
68:Sg:248:LEU:HB2	68:Sg:259:TRP:HB2	1.99	0.43
69:SC:146:GLU:HB2	69:SC:149:THR:OG1	2.19	0.43
70:SG:32:MET:O	70:SG:33:ALA:HB3	2.19	0.43
70:SG:54:GLY:HA2	70:SG:63:MET:SD	2.59	0.43
72:SM:23:LYS:O	72:SM:116:LYS:HB2	2.18	0.43
75:SW:77:PRO:CG	75:SW:79:PHE:CZ	3.00	0.43
76:SY:44:LEU:HD12	76:SY:44:LEU:N	2.34	0.43
76:SY:56:PHE:N	76:SY:74:MET:O	2.51	0.43
76:SY:62:THR:HA	76:SY:69:THR:HA	2.00	0.43
76:SY:90:ARG:HB2	76:SY:91:LEU:HD12	2.01	0.43
76:SY:119:GLY:HA2	76:SY:124:ASN:OD1	2.18	0.43
1:L5:191:G:H2'	1:L5:192:G:C5'	2.49	0.43
1:L5:462:G:N2	1:L5:694:C:C2	2.87	0.43
1:L5:1280:C:H3'	1:L5:1280:C:C6	2.52	0.43
1:L5:1280:C:C3'	1:L5:1281:G:C5'	2.91	0.43
1:L5:1307:A:O2'	1:L5:1308:C:H5'	2.18	0.43
1:L5:1898:C:O2'	1:L5:1899:G:H5'	2.19	0.43
1:L5:1994:C:O2	1:L5:1994:C:H2'	2.18	0.43
1:L5:2051:C:H5	1:L5:2052:G:N3	2.17	0.43
1:L5:2090:U:H1'	6:LC:307:LYS:NZ	2.33	0.43
1:L5:2460:A:H1'	16:LN:96:ARG:HH11	1.82	0.43
1:L5:2541:G:H2'	1:L5:2542:G:C5'	2.49	0.43
1:L5:2613:C:O2'	1:L5:2614:C:H5'	2.18	0.43
1:L5:2765:A:N7	1:L5:2766:A:C8	2.86	0.43
1:L5:2856:C:N4	1:L5:2857:A:C2	2.87	0.43
1:L5:2909:C:H5'	1:L5:2910:G:P	2.58	0.43
1:L5:3655:C:H3'	1:L5:3655:C:C6	2.53	0.43
1:L5:3758:U:H5"	1:L5:3759:A:OP1	2.19	0.43
1:L5:3956:G:O5'	1:L5:3964:U:N3	2.52	0.43
1:L5:4077:A:H4'	16:LN:28:TRP:CD1	2.54	0.43
1:L5:4268:A:H2'	1:L5:4269:G:O4'	2.19	0.43
1:L5:4283:G:C2	1:L5:4284:C:C2	3.07	0.43
1:L5:4361:U:H2'	1:L5:4362:A:H8	1.83	0.43
1:L5:4366:A:OP1	19:LQ:181:ARG:HD2	2.19	0.43
1:L5:4457:U:O2	5:LB:252:ALA:HB3	2.18	0.43
1:L5:4530:U:H2'	1:L5:4531:U:H6	1.80	0.43
1:L5:4669:A:C5	1:L5:4672:A:N7	2.87	0.43
1:L5:4900:C:HO2'	1:L5:4901:G:P	2.38	0.43
1:L5:4928:C:OP1	15:LM:117:LYS:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:32:C:H2'	3:L8:33:G:H5'	2.01	0.43
3:L8:154:G:C5'	10:LG:89:ARG:HH22	2.28	0.43
4:LA:216:HIS:HB2	4:LA:218:HIS:HD2	1.84	0.43
5:LB:26:ARG:HH12	5:LB:181:MET:CE	2.32	0.43
6:LC:5:ARG:HA	6:LC:6:PRO:HD2	1.82	0.43
6:LC:232:VAL:HA	6:LC:235:LEU:HD12	2.00	0.43
6:LC:348:LYS:CA	6:LC:351:VAL:HG12	2.49	0.43
10:LG:258:ALA:O	10:LG:262:ALA:N	2.52	0.43
13:LJ:119:TYR:CB	60:SS:13:LEU:HD13	2.28	0.43
15:LM:100:ARG:HG2	17:LO:199:HIS:C	2.43	0.43
17:LO:9:LEU:HD12	17:LO:9:LEU:C	2.44	0.43
20:LR:18:GLY:C	20:LR:20:LYS:H	2.26	0.43
28:LZ:76:ASN:CG	28:LZ:78:ASN:HD22	2.26	0.43
30:Lb:36:ASP:OD1	30:Lb:37:PRO:HD2	2.19	0.43
32:Ld:33:ILE:CD1	32:Ld:44:ARG:HB3	2.44	0.43
34:Lf:33:VAL:O	34:Lf:33:VAL:HG23	2.19	0.43
40:Ll:12:PHE:CZ	40:Ll:16:LYS:HD2	2.53	0.43
43:Lo:69:ARG:HH21	43:Lo:80:LYS:CE	2.28	0.43
47:S2:78:C:H1'	70:SG:175:LYS:NZ	2.34	0.43
47:S2:107:A:C2	47:S2:355:G:C2	3.07	0.43
47:S2:114:G:N2	47:S2:383:G:C4	2.86	0.43
47:S2:354:U:H2'	47:S2:355:G:O4'	2.19	0.43
47:S2:355:G:P	56:SL:92:TYR:HH	2.42	0.43
47:S2:364:A:O2'	47:S2:365:C:H5'	2.18	0.43
47:S2:536:A:H3'	47:S2:537:C:C4'	2.39	0.43
47:S2:573:U:O2	47:S2:575:A:H5"	2.19	0.43
47:S2:798:A:H61	47:S2:801:U:H5	1.67	0.43
47:S2:1410:C:C2'	47:S2:1411:G:H5'	2.49	0.43
47:S2:1486:A:OP1	50:SD:151:LYS:HE3	2.18	0.43
47:S2:1502:C:H6	47:S2:1502:C:O5'	2.02	0.43
47:S2:1567:G:N7	47:S2:1568:C:C4	2.87	0.43
47:S2:1717:C:C2	47:S2:1817:G:N2	2.86	0.43
47:S2:1849:G:O2'	47:S2:1850:A:H8	2.02	0.43
48:SA:76:VAL:HG22	48:SA:123:VAL:HG22	1.98	0.43
48:SA:172:GLY:O	48:SA:175:TRP:HB2	2.19	0.43
49:SB:56:LYS:HG2	49:SB:56:LYS:O	2.19	0.43
50:SD:193:ASP:HA	50:SD:202:LYS:NZ	2.34	0.43
53:SH:145:ARG:CB	75:SW:51:GLU:HG2	2.39	0.43
54:SI:66:SER:HA	54:SI:73:THR:HA	2.01	0.43
57:SP:21:ASP:O	57:SP:24:GLN:HB3	2.18	0.43
58:SQ:30:GLY:HA2	58:SQ:64:ALA:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:63:PHE:N	58:SQ:63:PHE:CD1	2.85	0.43
61:ST:73:GLY:HA2	61:ST:76:THR:CG2	2.45	0.43
65:Sa:63:VAL:HG22	65:Sa:64:LEU:N	2.34	0.43
66:Sc:44:ARG:HH12	66:Sc:63:ARG:HG3	1.82	0.43
68:Sg:84:ASP:C	68:Sg:108:VAL:HG12	2.44	0.43
68:Sg:135:LEU:C	68:Sg:135:LEU:HD12	2.43	0.43
69:SC:170:TRP:HB3	69:SC:178:HIS:HE1	1.83	0.43
70:SG:48:TYR:HB2	70:SG:116:LYS:O	2.19	0.43
70:SG:130:PRO:CA	70:SG:131:ARG:HG3	2.48	0.43
72:SM:82:ASN:HB3	72:SM:85:LEU:HD23	1.99	0.43
74:SO:43:HIS:CE1	74:SO:45:THR:HG21	2.53	0.43
78:Sb:36:LYS:HG2	78:Sb:78:SER:O	2.19	0.43
1:L5:237:G:OP1	1:L5:238:C:N4	2.52	0.43
1:L5:379:G:N2	3:L8:22:U:O2	2.52	0.43
1:L5:500:G:H5'	1:L5:501:C:C6	2.53	0.43
1:L5:731:G:N2	1:L5:732:A:H1'	2.33	0.43
1:L5:1076:C:N4	1:L5:1235:G:H1	2.16	0.43
1:L5:1493:G:N3	1:L5:1493:G:H2'	2.33	0.43
1:L5:1577:G:C5'	1:L5:1578:U:H5"	2.44	0.43
1:L5:1790:U:HO2'	1:L5:1791:U:C5'	2.31	0.43
1:L5:1827:C:C2'	1:L5:1828:C:H5'	2.49	0.43
1:L5:2081:C:N3	1:L5:2276:A:C2	2.87	0.43
1:L5:2272:C:H2'	1:L5:2273:G:H8	1.83	0.43
1:L5:2377:C:H2'	1:L5:2377:C:O2	2.19	0.43
1:L5:2389:A:H5"	32:Ld:70:LYS:CD	2.49	0.43
1:L5:2610:G:N2	1:L5:2611:A:N3	2.66	0.43
1:L5:2715:G:C2	1:L5:2716:C:C2	3.06	0.43
1:L5:2721:G:O2'	1:L5:2722:G:H5'	2.19	0.43
1:L5:2739:C:H4'	44:Lp:52:VAL:CG2	2.49	0.43
1:L5:2749:C:O5'	1:L5:2749:C:H6	2.01	0.43
1:L5:3705:G:H2'	1:L5:3705:G:N3	2.34	0.43
1:L5:3760:A:H2	47:S2:1825:A:C6	2.36	0.43
1:L5:3824:A:H2'	1:L5:3825:A:C5'	2.48	0.43
1:L5:3921:U:H5	1:L5:4183:G:C4	2.37	0.43
1:L5:4085:A:H3'	26:LX:44:PRO:CB	2.49	0.43
1:L5:4128:A:H2'	1:L5:4129:G:C8	2.54	0.43
1:L5:4178:A:H2'	1:L5:4179:G:C8	2.54	0.43
1:L5:4293:U:C2'	1:L5:4294:C:H5'	2.48	0.43
1:L5:4371:G:N1	81:L5:5101:3HE:O	2.52	0.43
1:L5:4526:U:H5"	5:LB:243:LYS:HG2	2.01	0.43
1:L5:4536:C:C2'	1:L5:4537:C:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4982:A:C4	1:L5:4983:C:C6	3.07	0.43
2:L7:31:G:C1'	2:L7:47:G:H22	2.24	0.43
2:L7:37:G:N2	2:L7:41:G:O4'	2.49	0.43
3:L8:94:G:C4	38:Lj:79:ARG:NE	2.86	0.43
3:L8:115:G:H2'	3:L8:116:C:H6	1.82	0.43
5:LB:168:MET:HE1	5:LB:175:GLN:HB3	2.01	0.43
6:LC:205:ARG:HH12	6:LC:228:THR:CG2	2.18	0.43
8:LE:71:ARG:O	8:LE:72:LYS:HD3	2.18	0.43
9:LF:149:SER:OG	9:LF:244:ILE:HG12	2.19	0.43
10:LG:106:THR:OG1	10:LG:107:LYS:N	2.52	0.43
11:LH:11:ASP:C	11:LH:12:ILE:HD12	2.42	0.43
12:LI:29:ALA:HB1	12:LI:31:ILE:HG22	1.99	0.43
12:LI:97:ILE:CD1	12:LI:126:VAL:HG11	2.49	0.43
13:LJ:109:ILE:CG2	13:LJ:128:LEU:CD1	2.96	0.43
14:LL:127:PHE:HD2	36:Lh:118:LYS:CD	2.03	0.43
15:LM:123:ILE:O	15:LM:127:VAL:HG23	2.19	0.43
16:LN:68:ARG:HH21	16:LN:128:LYS:HD2	1.84	0.43
18:LP:122:ALA:HB3	18:LP:143:PRO:O	2.18	0.43
19:LQ:11:ARG:HG3	19:LQ:11:ARG:O	2.19	0.43
19:LQ:49:LYS:HG3	19:LQ:50:ARG:N	2.33	0.43
24:LV:94:VAL:HB	25:LW:20:ARG:NH1	2.32	0.43
26:LX:101:ASP:OD2	26:LX:103:LYS:HB2	2.17	0.43
28:LZ:89:ILE:HD12	28:LZ:90:PRO:CD	2.47	0.43
31:Lc:38:ILE:HD11	31:Lc:46:VAL:CG2	2.45	0.43
38:Lj:27:TYR:HA	38:Lj:34:CYS:CB	2.49	0.43
39:Lk:45:LEU:HD23	39:Lk:45:LEU:C	2.43	0.43
44:Lp:17:ARG:O	44:Lp:18:TYR:HB2	2.18	0.43
45:Lr:89:THR:HG21	45:Lr:118:LEU:HD22	2.00	0.43
47:S2:58:C:H4'	47:S2:499:G:H21	1.83	0.43
47:S2:113:G:O6	47:S2:290:U:O2'	2.37	0.43
47:S2:126:G:N2	70:SG:195:LYS:O	2.51	0.43
47:S2:161:U:O2'	47:S2:162:C:O5'	2.32	0.43
47:S2:169:U:H2'	47:S2:170:A:C5'	2.36	0.43
47:S2:361:U:H4'	47:S2:362:C:O5'	2.18	0.43
47:S2:574:A:O2'	47:S2:575:A:O5'	2.34	0.43
47:S2:951:C:H3'	47:S2:951:C:C6	2.47	0.43
47:S2:1082:A:H5"	47:S2:1084:A:N7	2.33	0.43
47:S2:1096:G:H2'	47:S2:1097:G:H5'	2.01	0.43
47:S2:1163:C:H2'	47:S2:1164:G:C8	2.53	0.43
47:S2:1168:G:H2'	47:S2:1169:G:O4'	2.18	0.43
47:S2:1293:A:H4'	47:S2:1294:G:OP2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1376:A:C6	47:S2:1377:U:C2	3.07	0.43
47:S2:1401:A:H2	47:S2:1402:A:N3	2.17	0.43
47:S2:1605:G:H2'	47:S2:1606:G:N9	2.32	0.43
47:S2:1654:G:H22	47:S2:1670:C:N4	2.16	0.43
47:S2:1742:C:H2'	47:S2:1743:G:O4'	2.19	0.43
47:S2:1813:A:N6	47:S2:1814:G:C6	2.87	0.43
48:SA:75:SER:HB2	48:SA:119:PRO:HB3	2.00	0.43
48:SA:91:ALA:CB	48:SA:98:PRO:HG3	2.49	0.43
48:SA:110:ASN:O	48:SA:111:GLN:HG2	2.18	0.43
49:SB:105:LEU:CD2	49:SB:211:PHE:HD2	2.31	0.43
50:SD:23:GLU:O	50:SD:26:THR:HB	2.19	0.43
50:SD:127:MET:HE1	50:SD:154:ASP:C	2.44	0.43
50:SD:199:GLY:N	50:SD:200:PRO:HD2	2.33	0.43
51:SE:35:PRO:HB3	51:SE:144:ALA:CB	2.48	0.43
51:SE:97:GLU:HG3	51:SE:99:PHE:CE1	2.54	0.43
51:SE:149:TYR:CD2	70:SG:205:GLU:HG3	2.54	0.43
54:SI:155:ASN:HA	56:SL:25:LEU:HD21	2.00	0.43
54:SI:176:ALA:N	54:SI:187:GLY:HA3	2.34	0.43
55:SK:32:HIS:O	55:SK:36:ALA:HA	2.19	0.43
55:SK:35:LEU:HD12	55:SK:38:LYS:N	2.25	0.43
55:SK:80:ARG:HH11	55:SK:85:LEU:HD22	1.83	0.43
56:SL:35:ARG:NH2	56:SL:53:GLY:O	2.52	0.43
56:SL:93:LEU:HD23	56:SL:102:PHE:HD2	1.83	0.43
57:SP:38:SER:CB	57:SP:41:GLN:HB3	2.40	0.43
58:SQ:129:SER:O	58:SQ:131:LYS:NZ	2.49	0.43
59:SR:16:ILE:HD11	59:SR:38:ILE:HD12	2.01	0.43
60:SS:24:ARG:HB3	60:SS:29:ALA:CB	2.47	0.43
61:ST:115:LYS:HD2	61:ST:121:ARG:NH1	2.34	0.43
62:SU:82:MET:CG	67:Sd:52:PHE:HE1	2.31	0.43
64:SX:103:ALA:O	64:SX:120:PHE:HA	2.18	0.43
66:Sc:30:VAL:HG23	66:Sc:32:VAL:HG13	2.01	0.43
67:Sd:33:LYS:HE2	67:Sd:34:TYR:CD1	2.53	0.43
68:Sg:111:VAL:HG23	68:Sg:122:SER:C	2.43	0.43
70:SG:116:LYS:NZ	70:SG:125:THR:OG1	2.52	0.43
71:SJ:27:GLN:HG3	71:SJ:30:LYS:HE3	2.00	0.43
71:SJ:35:TYR:HB2	71:SJ:37:LEU:HD13	2.01	0.43
76:SY:6:THR:CG2	76:SY:7:ILE:N	2.81	0.43
80:Sf:141:CYS:CA	80:Sf:145:CYS:HA	2.48	0.43
1:L5:62:A:P	16:LN:172:ARG:HH22	2.42	0.43
1:L5:237:G:O2'	1:L5:238:C:OP2	2.32	0.43
1:L5:423:G:H21	18:LP:118:GLN:NE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:459:C:O2'	1:L5:460:C:H5'	2.19	0.43
1:L5:471:A:H62	1:L5:682:G:N2	2.17	0.43
1:L5:501:C:H5'	1:L5:502:C:C5'	2.49	0.43
1:L5:686:A:C5	8:LE:95:PRO:CG	2.94	0.43
1:L5:931:C:C1'	1:L5:932:A:P	3.07	0.43
1:L5:1074:G:H2'	1:L5:1074:G:N3	2.34	0.43
1:L5:1361:G:O2'	1:L5:1362:G:H5'	2.19	0.43
1:L5:1420:A:C4'	1:L5:1421:G:H5'	2.49	0.43
1:L5:1744:U:C4	1:L5:1745:G:N7	2.87	0.43
1:L5:1912:G:C2	1:L5:2057:A:N1	2.87	0.43
1:L5:2503:G:C1'	1:L5:2505:C:H42	2.30	0.43
1:L5:2503:G:O4'	1:L5:4084:G:N2	2.51	0.43
1:L5:2853:C:N4	1:L5:2854:G:C6	2.87	0.43
1:L5:3603:G:C6	1:L5:3604:A:H2	2.37	0.43
1:L5:3614:G:O2'	1:L5:3615:G:P	2.77	0.43
1:L5:4121:G:C2'	35:Lg:93:ARG:NH1	2.82	0.43
1:L5:4272:G:O2'	1:L5:4273:A:H8	2.01	0.43
1:L5:4313:A:H3'	1:L5:4314:C:H5"	2.00	0.43
1:L5:4392:G:C2	1:L5:4447:C:C4	3.07	0.43
1:L5:4408:G:C5	1:L5:4409:C:C4	3.07	0.43
1:L5:4678:G:C4	1:L5:4713:G:N2	2.87	0.43
1:L5:4694:G:C5'	1:L5:4695:C:H5	2.26	0.43
1:L5:4740:G:H1'	1:L5:4961:G:O6	2.19	0.43
3:L8:80:A:N1	3:L8:81:C:C4	2.87	0.43
3:L8:96:C:H5"	36:Lh:66:LYS:HD2	2.00	0.43
5:LB:45:ALA:HB3	5:LB:183:ILE:CG2	2.32	0.43
5:LB:257:TRP:NE1	5:LB:258:HIS:CD2	2.87	0.43
6:LC:211:TYR:O	6:LC:231:ASN:HA	2.19	0.43
7:LD:222:GLN:CG	7:LD:223:PHE:CE2	3.02	0.43
8:LE:140:LEU:HD21	8:LE:144:ILE:HB	2.01	0.43
9:LF:148:LYS:HB3	9:LF:245:ARG:NH1	2.34	0.43
9:LF:236:ARG:HB3	9:LF:239:GLN:HB2	2.01	0.43
16:LN:151:ILE:HD12	16:LN:152:THR:CA	2.49	0.43
17:LO:80:PHE:HA	17:LO:83:THR:CG2	2.46	0.43
19:LQ:66:MET:HE2	19:LQ:98:LEU:HD13	2.00	0.43
21:LS:7:LEU:HD21	21:LS:110:TYR:HE2	1.84	0.43
22:LT:89:ILE:HG22	22:LT:90:ASN:H	1.81	0.43
23:LU:63:ILE:HG22	23:LU:64:GLU:N	2.33	0.43
28:LZ:11:VAL:HG22	28:LZ:12:LEU:H	1.84	0.43
29:La:44:ASN:OD1	29:La:45:PHE:N	2.52	0.43
29:La:79:TRP:CZ3	29:La:101:ILE:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:Lc:19:GLN:NE2	73:SN:89:TYR:OH	2.52	0.43
33:Le:118:LEU:O	33:Le:119:ALA:HB3	2.19	0.43
35:Lg:95:PHE:CD2	35:Lg:96:LEU:HD23	2.52	0.43
40:Ll:46:ARG:O	40:Ll:46:ARG:HG2	2.18	0.43
44:Lp:38:THR:HA	44:Lp:45:THR:HA	2.01	0.43
46:Lz:2:SER:OG	46:Lz:213:PRO:HG3	2.19	0.43
47:S2:5:U:C2	47:S2:20:G:N2	2.87	0.43
47:S2:65:C:N3	70:SG:133:LEU:HB3	2.34	0.43
47:S2:182:C:H5'	47:S2:183:G:O5'	2.19	0.43
47:S2:316:G:C2	47:S2:317:C:C5	3.07	0.43
47:S2:323:C:C4	47:S2:329:G:C4	3.07	0.43
47:S2:361:U:C4'	47:S2:362:C:H5'	2.49	0.43
47:S2:455:A:OP1	70:SG:94:ARG:HD2	2.18	0.43
47:S2:463:C:H2'	47:S2:465:A:N7	2.34	0.43
47:S2:604:A:C5	71:SJ:20:PHE:CD1	3.06	0.43
47:S2:609:U:H5"	47:S2:610:G:OP2	2.19	0.43
47:S2:636:C:C4	47:S2:637:U:C4	3.06	0.43
47:S2:745:C:H5"	47:S2:746:C:H5'	2.00	0.43
47:S2:1124:C:C2'	47:S2:1125:C:H5'	2.49	0.43
47:S2:1198:G:C6	47:S2:1199:A:C5	3.07	0.43
47:S2:1445:U:O3'	62:SU:57:PRO:HB3	2.18	0.43
47:S2:1492:U:H6	47:S2:1492:U:H3'	1.83	0.43
47:S2:1577:G:H5"	47:S2:1578:U:P	2.59	0.43
47:S2:1591:C:C5'	52:SF:85:LYS:HE2	2.49	0.43
47:S2:1731:A:C2	47:S2:1732:G:C4	3.07	0.43
49:SB:197:ILE:CD1	49:SB:210:VAL:HG21	2.49	0.43
50:SD:76:ARG:HD3	55:SK:66:HIS:ND1	2.34	0.43
53:SH:60:ILE:HG23	53:SH:92:VAL:HB	2.00	0.43
54:SI:48:VAL:CG1	54:SI:54:LYS:HE2	2.49	0.43
56:SL:35:ARG:NH2	56:SL:54:THR:C	2.76	0.43
56:SL:135:SER:OG	56:SL:138:VAL:HB	2.18	0.43
57:SP:23:ASP:O	57:SP:27:ASP:HB2	2.19	0.43
57:SP:54:HIS:O	57:SP:58:LYS:N	2.47	0.43
58:SQ:10:VAL:HB	58:SQ:25:CYS:SG	2.59	0.43
59:SR:10:LYS:HG2	59:SR:53:TYR:CZ	2.52	0.43
59:SR:23:ARG:NE	68:Sg:149:GLU:OE2	2.52	0.43
60:SS:8:LYS:HD3	77:SZ:51:ASP:OD2	2.19	0.43
60:SS:62:ASP:O	60:SS:65:GLU:HG2	2.19	0.43
62:SU:44:LYS:O	62:SU:47:ASN:ND2	2.52	0.43
64:SX:125:VAL:O	64:SX:126:ALA:HB3	2.19	0.43
68:Sg:285:GLN:C	68:Sg:302:TYR:HD1	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:SG:3:LEU:HD12	70:SG:3:LEU:O	2.18	0.43
70:SG:217:MET:O	70:SG:220:ALA:HB3	2.19	0.43
71:SJ:73:GLU:C	71:SJ:76:ALA:HB3	2.44	0.43
72:SM:52:GLN:HE21	72:SM:78:LYS:CB	2.32	0.43
72:SM:72:HIS:O	72:SM:74:ILE:HD12	2.19	0.43
73:SN:112:LYS:O	73:SN:116:ILE:HG12	2.18	0.43
74:SO:27:VAL:HG21	74:SO:90:ILE:HA	1.98	0.43
76:SY:117:VAL:HG11	76:SY:127:ALA:HB2	2.00	0.43
1:L5:91:G:H3'	1:L5:91:G:C8	2.54	0.42
1:L5:143:C:OP2	1:L5:144:G:H5"	2.19	0.42
1:L5:143:C:O4'	10:LG:108:GLN:HG2	2.19	0.42
1:L5:323:C:O2'	1:L5:324:A:H5'	2.19	0.42
1:L5:714:G:C2'	1:L5:715:G:H5'	2.49	0.42
1:L5:940:C:H2'	1:L5:941:C:H6	1.85	0.42
1:L5:1237:C:O2	1:L5:1237:C:H2'	2.18	0.42
1:L5:1617:G:N2	1:L5:1618:G:N3	2.66	0.42
1:L5:1760:G:H5"	1:L5:1761:G:H5'	2.01	0.42
1:L5:1791:U:H4'	22:LT:19:PHE:CD1	2.54	0.42
1:L5:1940:G:H2'	1:L5:1941:A:O5'	2.19	0.42
1:L5:2035:C:C4	1:L5:2036:C:N4	2.87	0.42
1:L5:2100:A:N7	1:L5:2101:C:C2	2.87	0.42
1:L5:2345:G:OP2	29:La:9:ARG:NH2	2.50	0.42
1:L5:2480:G:C4	1:L5:2481:G:H1'	2.54	0.42
1:L5:2591:A:C2	1:L5:2592:U:C5	3.07	0.42
1:L5:3594:C:HO2'	1:L5:3597:G:H1'	1.84	0.42
1:L5:3627:G:C2	1:L5:3628:G:C4	3.07	0.42
1:L5:3705:G:N2	1:L5:3706:C:H1'	2.34	0.42
1:L5:3730:U:C6	1:L5:3730:U:C3'	3.01	0.42
1:L5:3808:C:N4	1:L5:3809:G:O6	2.52	0.42
1:L5:3838:U:C2'	1:L5:3839:G:H5'	2.48	0.42
1:L5:3899:G:O2'	1:L5:3900:G:H5'	2.19	0.42
1:L5:4278:C:C4'	1:L5:4282:A:H62	2.33	0.42
1:L5:4301:U:H5"	1:L5:4302:U:OP2	2.18	0.42
1:L5:4620:U:C4	1:L5:4621:C:C5	3.07	0.42
1:L5:4658:G:C2'	1:L5:4659:G:H5'	2.49	0.42
1:L5:4741:C:C2	1:L5:4742:G:N7	2.87	0.42
1:L5:4907:G:C2	1:L5:4915:G:C5	3.07	0.42
1:L5:5044:A:N6	1:L5:5045:G:O6	2.52	0.42
3:L8:6:C:O2'	3:L8:7:U:H5'	2.19	0.42
4:LA:40:TYR:HA	4:LA:90:CYS:O	2.18	0.42
4:LA:82:ILE:HG22	4:LA:83:HIS:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:LA:104:VAL:HG21	4:LA:116:LEU:HD22	2.00	0.42
5:LB:122:TRP:CZ2	5:LB:127:LYS:HD3	2.54	0.42
6:LC:209:ILE:HG22	6:LC:210:ILE:N	2.33	0.42
7:LD:51:MET:HG2	7:LD:51:MET:O	2.19	0.42
7:LD:176:SER:C	7:LD:178:LYS:H	2.26	0.42
7:LD:278:ASP:O	7:LD:282:GLN:N	2.42	0.42
8:LE:145:THR:O	8:LE:148:THR:HG22	2.18	0.42
8:LE:176:THR:HB	8:LE:186:LEU:HD23	2.00	0.42
8:LE:251:LYS:HA	8:LE:254:ASP:OD1	2.19	0.42
10:LG:57:TRP:CG	10:LG:61:ILE:HD11	2.51	0.42
11:LH:2:LYS:HG3	11:LH:62:GLY:C	2.44	0.42
11:LH:5:LEU:HD13	11:LH:60:TRP:CH2	2.54	0.42
12:LI:134:VAL:HG12	12:LI:135:ILE:N	2.34	0.42
13:LJ:142:ALA:O	13:LJ:148:THR:OG1	2.33	0.42
14:LL:78:LEU:HD23	14:LL:78:LEU:C	2.44	0.42
16:LN:27:CYS:HA	16:LN:30:TYR:CD2	2.54	0.42
21:LS:92:ASN:HD21	22:LT:156:TYR:N	2.17	0.42
22:LT:27:LEU:CD1	22:LT:30:TYR:HD2	2.32	0.42
22:LT:76:VAL:HG12	22:LT:77:ASN:N	2.34	0.42
25:LW:110:ARG:O	25:LW:110:ARG:HG2	2.19	0.42
27:LY:56:GLN:N	27:LY:105:VAL:O	2.41	0.42
29:La:90:ALA:O	29:La:93:ASN:HB2	2.19	0.42
29:La:128:PHE:CE1	37:Li:8:ALA:HB3	2.54	0.42
31:Lc:29:LEU:HD23	31:Lc:94:LEU:CB	2.49	0.42
31:Lc:83:THR:OG1	73:SN:148:ALA:HA	2.18	0.42
34:Lf:59:THR:HA	34:Lf:60:PRO:HD3	1.91	0.42
36:Lh:73:TYR:HD1	36:Lh:76:LYS:CG	2.27	0.42
44:Lp:91:ASP:CG	44:Lp:92:GLN:H	2.23	0.42
47:S2:381:C:H2'	47:S2:382:C:O4'	2.19	0.42
47:S2:488:U:H3'	47:S2:489:A:H5'	2.01	0.42
47:S2:557:U:H2'	47:S2:558:G:H8	1.81	0.42
47:S2:900:C:H3'	47:S2:900:C:H6	1.83	0.42
47:S2:927:C:H1'	78:Sb:51:GLN:HE22	1.83	0.42
47:S2:983:A:H3'	47:S2:983:A:C8	2.54	0.42
47:S2:1114:U:O2'	47:S2:1115:U:H2'	2.19	0.42
47:S2:1225:U:O2'	47:S2:1226:G:H5'	2.19	0.42
47:S2:1314:U:H2'	47:S2:1315:U:C4'	2.48	0.42
47:S2:1383:A:C5'	50:SD:156:LEU:HD11	2.49	0.42
47:S2:1447:G:H2'	47:S2:1448:A:C8	2.54	0.42
47:S2:1468:C:C2'	47:S2:1469:A:H5'	2.49	0.42
47:S2:1592:C:C5'	52:SF:87:LEU:HD21	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1627:C:H4'	61:ST:41:LYS:CB	2.45	0.42
47:S2:1630:A:H5"	60:SS:37:GLY:CA	2.48	0.42
47:S2:1654:G:H22	47:S2:1670:C:H42	1.67	0.42
50:SD:132:LYS:O	50:SD:155:GLY:HA3	2.19	0.42
51:SE:11:ARG:HD3	51:SE:27:PHE:O	2.18	0.42
51:SE:206:ASP:HB2	51:SE:222:LEU:HD11	1.98	0.42
52:SF:115:ALA:CB	52:SF:180:ALA:HB3	2.49	0.42
52:SF:184:SER:C	52:SF:186:ASN:H	2.27	0.42
54:SI:81:VAL:HG13	54:SI:100:CYS:SG	2.59	0.42
54:SI:192:GLY:O	54:SI:195:LEU:HB3	2.19	0.42
55:SK:85:LEU:HD12	55:SK:85:LEU:C	2.44	0.42
58:SQ:18:THR:O	58:SQ:75:GLY:HA3	2.18	0.42
58:SQ:134:GLY:HA2	58:SQ:135:PRO:HD3	1.86	0.42
59:SR:36:GLU:OE1	59:SR:36:GLU:N	2.46	0.42
59:SR:98:VAL:HG23	59:SR:102:THR:HG21	2.01	0.42
64:SX:40:PRO:HA	64:SX:79:LYS:HD2	2.00	0.42
65:Sa:59:PHE:HB3	65:Sa:61:ALA:HB3	2.01	0.42
65:Sa:85:ARG:HG3	65:Sa:86:ASN:N	2.34	0.42
68:Sg:119:GLN:HG3	68:Sg:132:TRP:H	1.84	0.42
70:SG:6:SER:OG	70:SG:112:VAL:HG22	2.18	0.42
70:SG:120:ASP:O	70:SG:121:ILE:HB	2.18	0.42
70:SG:213:LEU:HA	70:SG:216:ARG:CB	2.43	0.42
71:SJ:32:ILE:HD11	71:SJ:43:VAL:HG23	2.00	0.42
73:SN:13:GLN:HB2	78:Sb:21:LYS:HE2	2.01	0.42
76:SY:27:VAL:HG12	76:SY:28:LEU:N	2.34	0.42
1:L5:28:C:H3'	1:L5:28:C:H6	1.85	0.42
1:L5:115:C:H6	1:L5:115:C:H2'	1.63	0.42
1:L5:661:C:N3	1:L5:662:C:C4	2.86	0.42
1:L5:1070:G:H3'	1:L5:1071:C:H5"	2.01	0.42
1:L5:1300:G:O2'	1:L5:1301:C:OP2	2.30	0.42
1:L5:1433:A:N6	1:L5:1451:G:O2'	2.46	0.42
1:L5:1660:U:C6	1:L5:2346:C:C4	3.07	0.42
1:L5:1912:G:N3	1:L5:1912:G:C2'	2.79	0.42
1:L5:2098:G:C2	1:L5:2099:G:H1'	2.54	0.42
1:L5:2450:G:C5	1:L5:2510:G:N2	2.87	0.42
1:L5:2480:G:C2	1:L5:2481:G:C1'	2.95	0.42
1:L5:2501:C:C4	1:L5:2502:G:N7	2.88	0.42
1:L5:2573:A:H2'	1:L5:2574:G:H5'	2.00	0.42
1:L5:2668:G:OP2	20:LR:103:ARG:NH2	2.52	0.42
1:L5:3783:A:N1	1:L5:3787:G:N2	2.67	0.42
1:L5:3974:G:N7	1:L5:3975:C:O2'	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4179:G:N2	1:L5:4180:G:C4	2.87	0.42
1:L5:4391:G:C2	1:L5:4392:G:C8	3.08	0.42
1:L5:4418:G:O2'	1:L5:4424:A:N6	2.52	0.42
1:L5:4460:U:O2	1:L5:4517:A:H2	2.02	0.42
1:L5:4714:C:H2'	1:L5:4715:C:H5'	2.01	0.42
1:L5:4975:G:C6	1:L5:4977:A:C2	3.07	0.42
2:L7:61:G:O3'	7:LD:279:ARG:NH1	2.51	0.42
3:L8:147:G:H2'	3:L8:148:A:C8	2.54	0.42
4:LA:174:ARG:O	44:Lp:69:TRP:HH2	2.02	0.42
4:LA:245:ARG:HG2	4:LA:246:LEU:O	2.20	0.42
5:LB:41:VAL:HG12	5:LB:188:GLY:N	2.34	0.42
6:LC:8:ILE:C	6:LC:8:ILE:HD12	2.44	0.42
6:LC:40:VAL:HG21	6:LC:123:ALA:HB2	2.01	0.42
6:LC:295:SER:HB3	6:LC:296:PRO:HD2	2.01	0.42
7:LD:112:ARG:O	7:LD:113:PHE:CB	2.66	0.42
13:LJ:22:LEU:HD23	13:LJ:130:PHE:HE1	1.83	0.42
13:LJ:134:LEU:HD11	13:LJ:157:ILE:CD1	2.46	0.42
14:LL:8:MET:HE1	19:LQ:166:TYR:HB3	2.01	0.42
14:LL:107:THR:HB	37:Li:18:THR:HG23	2.01	0.42
14:LL:127:PHE:CD2	36:Lh:118:LYS:CD	2.89	0.42
15:LM:85:LYS:O	15:LM:88:ALA:HB3	2.19	0.42
17:LO:7:LEU:HD22	17:LO:9:LEU:HD23	2.01	0.42
17:LO:80:PHE:O	17:LO:83:THR:HG22	2.19	0.42
18:LP:28:ASN:O	18:LP:32:THR:HG23	2.19	0.42
21:LS:28:TYR:HB3	22:LT:151:LEU:CD1	2.49	0.42
23:LU:96:LEU:CB	23:LU:100:LEU:HD22	2.45	0.42
25:LW:115:ALA:C	25:LW:119:LYS:HZ3	2.21	0.42
25:LW:116:LYS:HZ1	47:S2:328:U:P	2.41	0.42
26:LX:102:VAL:O	26:LX:134:LYS:HD2	2.19	0.42
28:LZ:35:ASP:OD1	28:LZ:35:ASP:N	2.37	0.42
31:Lc:15:ASN:O	31:Lc:18:LEU:HB3	2.18	0.42
34:Lf:50:VAL:HG11	34:Lf:102:ARG:CZ	2.49	0.42
44:Lp:46:LYS:HD2	44:Lp:59:SER:N	2.34	0.42
46:Lz:53:VAL:HG11	46:Lz:155:ILE:CD1	2.49	0.42
46:Lz:204:LEU:HD23	46:Lz:204:LEU:O	2.18	0.42
47:S2:34:U:H5'	47:S2:564:A:O2'	2.19	0.42
47:S2:358:C:C2'	47:S2:359:U:H5'	2.49	0.42
47:S2:369:C:H3'	47:S2:369:C:P	2.59	0.42
47:S2:430:C:H2'	47:S2:431:G:H8	1.83	0.42
47:S2:841:G:N3	47:S2:842:C:C5	2.87	0.42
47:S2:894:G:C8	47:S2:895:G:H5"	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1096:G:N1	47:S2:1148:A:N1	2.68	0.42
47:S2:1179:G:C2	47:S2:1183:A:N6	2.87	0.42
47:S2:1198:G:H2'	47:S2:1199:A:C8	2.54	0.42
47:S2:1334:G:H5"	50:SD:139:SER:OG	2.19	0.42
47:S2:1345:G:N1	47:S2:1346:U:C2	2.87	0.42
47:S2:1493:C:H5"	47:S2:1494:U:C5'	2.49	0.42
47:S2:1838:U:H4'	74:SO:151:LEU:O	2.19	0.42
48:SA:195:TRP:CH2	48:SA:197:VAL:HG12	2.54	0.42
50:SD:109:LEU:C	50:SD:112:GLY:H	2.26	0.42
50:SD:114:ALA:HB3	50:SD:117:ARG:CG	2.49	0.42
51:SE:46:ILE:O	51:SE:50:ASN:N	2.51	0.42
51:SE:95:THR:HB	76:SY:16:ARG:HD2	2.00	0.42
53:SH:6:ALA:HB3	53:SH:25:GLN:CA	2.49	0.42
53:SH:58:LYS:CG	53:SH:90:LYS:HG2	2.48	0.42
54:SI:60:LEU:CD2	54:SI:185:ALA:HB2	2.49	0.42
55:SK:77:GLN:HA	55:SK:80:ARG:CD	2.49	0.42
60:SS:24:ARG:O	60:SS:29:ALA:HB2	2.19	0.42
60:SS:65:GLU:HA	60:SS:68:ILE:CG1	2.49	0.42
60:SS:110:ASP:O	60:SS:113:ARG:HB3	2.20	0.42
62:SU:66:ARG:HB3	67:Sd:40:ARG:HH11	1.83	0.42
63:SV:73:ALA:O	63:SV:77:GLY:N	2.52	0.42
65:Sa:10:ARG:HH11	65:Sa:33:ASP:CG	2.27	0.42
65:Sa:10:ARG:CB	65:Sa:34:LYS:HB2	2.49	0.42
70:SG:23:LYS:HB3	70:SG:41:LEU:C	2.43	0.42
70:SG:63:MET:HG3	70:SG:63:MET:O	2.19	0.42
73:SN:2:GLY:HA3	73:SN:9:LYS:CG	2.49	0.42
73:SN:46:THR:HB	73:SN:47:PRO:HD2	2.01	0.42
73:SN:98:VAL:O	73:SN:98:VAL:HG22	2.19	0.42
78:Sb:33:MET:HB3	78:Sb:79:PHE:HB2	2.01	0.42
78:Sb:36:LYS:HZ2	78:Sb:43:ILE:HB	1.83	0.42
1:L5:73:A:N7	14:LL:103:ARG:NH2	2.67	0.42
1:L5:103:G:C6	1:L5:104:G:N7	2.87	0.42
1:L5:683:C:O5'	1:L5:684:G:N2	2.50	0.42
1:L5:937:U:O5'	1:L5:937:U:H6	2.01	0.42
1:L5:960:A:OP2	1:L5:961:G:H5"	2.19	0.42
1:L5:976:G:N2	1:L5:1278:C:H42	2.17	0.42
1:L5:1400:G:O6	1:L5:1417:C:N4	2.53	0.42
1:L5:1402:C:H2'	1:L5:1403:G:O5'	2.20	0.42
1:L5:1413:C:H2'	1:L5:1414:C:O4'	2.19	0.42
1:L5:1413:C:C2	1:L5:1414:C:H1'	2.54	0.42
1:L5:1509:C:C2'	1:L5:1510:G:H5'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1587:G:O2'	1:L5:1588:U:OP2	2.31	0.42
1:L5:1590:C:C4	1:L5:1592:G:N7	2.87	0.42
1:L5:2006:U:P	1:L5:2007:G:N2	2.92	0.42
1:L5:2126:G:H4'	1:L5:2127:C:O5'	2.16	0.42
1:L5:2263:A:N3	1:L5:2265:G:C8	2.88	0.42
1:L5:2333:G:H5"	6:LC:195:LYS:HZ3	1.85	0.42
1:L5:2380:G:C6	1:L5:2425:U:C5	3.08	0.42
1:L5:2439:G:C6	1:L5:2440:U:N3	2.88	0.42
1:L5:2535:G:C2	1:L5:2536:A:C4	3.07	0.42
1:L5:2566:G:H8	1:L5:2566:G:O5'	2.02	0.42
1:L5:2682:G:C2	1:L5:2683:C:C2	3.07	0.42
1:L5:2715:G:H2'	1:L5:2716:C:C6	2.54	0.42
1:L5:2752:G:H5'	35:Lg:78:TYR:CE1	2.54	0.42
1:L5:3631:U:H3	1:L5:3830:A:H61	1.68	0.42
1:L5:3763:A:N7	1:L5:3764:U:C5	2.88	0.42
1:L5:3795:A:O2'	1:L5:3796:U:H5'	2.18	0.42
1:L5:4185:G:OP1	4:LA:2:GLY:N	2.52	0.42
1:L5:4320:G:C4	1:L5:4328:G:N2	2.87	0.42
1:L5:4413:C:H4'	12:LI:157:PHE:CE2	2.54	0.42
1:L5:4742:G:H2'	1:L5:4743:G:C4	2.54	0.42
1:L5:4869:U:C2'	1:L5:4870:G:H5'	2.49	0.42
1:L5:4902:C:C4	1:L5:4903:G:N7	2.87	0.42
1:L5:5027:C:H1'	1:L5:5028:G:OP2	2.18	0.42
2:L7:15:C:H2'	2:L7:16:A:O4'	2.20	0.42
3:L8:77:A:H2'	3:L8:78:G:O4'	2.20	0.42
3:L8:149:G:H2'	3:L8:151:G:OP1	2.18	0.42
5:LB:21:ARG:HG2	5:LB:271:GLN:HE22	1.83	0.42
7:LD:49:TYR:HE1	7:LD:66:TYR:CD1	2.37	0.42
7:LD:207:TYR:O	7:LD:210:TYR:HB3	2.18	0.42
9:LF:83:VAL:O	9:LF:83:VAL:HG23	2.19	0.42
10:LG:207:VAL:HG21	10:LG:212:LYS:HA	2.01	0.42
11:LH:5:LEU:HD11	11:LH:7:ASN:HD21	1.84	0.42
14:LL:81:LEU:HD12	14:LL:81:LEU:N	2.35	0.42
17:LO:27:VAL:HG23	17:LO:101:ARG:HB2	2.02	0.42
20:LR:154:LEU:HD23	20:LR:155:LEU:HD23	2.01	0.42
20:LR:162:ARG:O	20:LR:165:LYS:HB3	2.19	0.42
21:LS:138:ARG:NE	21:LS:139:ARG:HH12	2.17	0.42
21:LS:143:LYS:HA	21:LS:146:HIS:HE1	1.72	0.42
22:LT:64:VAL:HG22	22:LT:72:VAL:HG11	2.01	0.42
26:LX:71:LEU:HD23	26:LX:76:ILE:HD12	2.00	0.42
29:La:25:HIS:ND1	29:La:26:ARG:N	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:La:85:GLN:O	29:La:89:ASN:HB2	2.19	0.42
31:Lc:62:TYR:CD1	31:Lc:65:MET:SD	3.12	0.42
37:Li:57:ALA:HB1	37:Li:73:ILE:HD11	2.00	0.42
45:Lr:21:ASN:OD1	45:Lr:21:ASN:N	2.52	0.42
46:Lz:23:ARG:O	46:Lz:212:LYS:NZ	2.46	0.42
46:Lz:86:ASP:O	46:Lz:90:LEU:N	2.43	0.42
47:S2:93:U:OP1	51:SE:3:ARG:N	2.52	0.42
47:S2:179:C:C2	47:S2:313:A:H2	2.37	0.42
47:S2:327:G:N3	47:S2:328:U:O2'	2.44	0.42
47:S2:490:C:N4	47:S2:510:G:H1	2.16	0.42
47:S2:808:A:N6	47:S2:809:A:C2	2.87	0.42
47:S2:882:U:O2'	47:S2:883:U:OP1	2.31	0.42
47:S2:1056:U:C5	47:S2:1057:C:N3	2.87	0.42
47:S2:1065:G:C2	47:S2:1066:U:N3	2.87	0.42
47:S2:1096:G:C5	47:S2:1097:G:C8	3.07	0.42
47:S2:1199:A:N1	47:S2:1200:A:C2	2.88	0.42
47:S2:1446:A:P	62:SU:57:PRO:HA	2.59	0.42
47:S2:1497:G:H21	55:SK:63:ALA:N	2.02	0.42
47:S2:1648:G:C2	47:S2:1674:G:C8	3.07	0.42
47:S2:1755:C:H1'	47:S2:1778:C:N4	2.34	0.42
50:SD:42:THR:N	50:SD:46:THR:HG22	2.17	0.42
51:SE:9:LEU:CD2	51:SE:14:ALA:HB2	2.48	0.42
52:SF:140:ASP:HB2	66:Sc:63:ARG:HH12	1.83	0.42
55:SK:71:LEU:HD23	55:SK:76:ILE:HG22	2.01	0.42
56:SL:95:TYR:HD1	56:SL:102:PHE:CE1	2.36	0.42
57:SP:31:GLU:HA	57:SP:34:MET:HE2	2.00	0.42
58:SQ:81:ILE:CA	58:SQ:84:ILE:HB	2.47	0.42
59:SR:72:LYS:HG3	59:SR:73:LEU:N	2.33	0.42
60:SS:79:ILE:HG23	60:SS:83:PHE:CD2	2.54	0.42
62:SU:61:LEU:HD22	67:Sd:34:TYR:CZ	2.54	0.42
68:Sg:18:VAL:HG11	68:Sg:301:GLY:HA3	2.00	0.42
68:Sg:244:ASN:OD1	68:Sg:295:GLY:HA3	2.19	0.42
70:SG:130:PRO:HA	70:SG:131:ARG:HA	1.90	0.42
71:SJ:65:GLU:HA	71:SJ:70:ARG:HD3	2.02	0.42
71:SJ:81:LEU:HA	71:SJ:84:ILE:HD12	2.01	0.42
76:SY:55:ILE:CB	76:SY:75:ILE:HG12	2.49	0.42
77:SZ:54:THR:HA	77:SZ:57:LYS:CG	2.48	0.42
1:L5:63:G:C2	1:L5:333:U:N3	2.88	0.42
1:L5:108:A:C4	1:L5:334:A:C2	3.08	0.42
1:L5:137:G:C2	1:L5:138:G:C4	3.07	0.42
1:L5:165:A:H2'	1:L5:166:C:H6	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:502:C:H5'	1:L5:503:C:H6	1.84	0.42
1:L5:929:A:N3	1:L5:929:A:H3'	2.34	0.42
1:L5:1174:G:O6	1:L5:1187:G:N1	2.52	0.42
1:L5:1219:G:H8	1:L5:1220:G:C8	2.37	0.42
1:L5:1254:A:O2'	1:L5:1255:A:H3'	2.20	0.42
1:L5:1273:G:H22	1:L5:2123:C:C4'	2.32	0.42
1:L5:1353:G:O2'	1:L5:1503:A:N1	2.53	0.42
1:L5:1358:G:C4	1:L5:1380:G:N2	2.87	0.42
1:L5:1371:A:N1	6:LC:50:GLN:NE2	2.68	0.42
1:L5:1534:A:H8	38:Lj:15:THR:OG1	2.03	0.42
1:L5:1647:U:O5'	1:L5:1647:U:H6	2.02	0.42
1:L5:1767:A:O2'	1:L5:1769:G:H4'	2.19	0.42
1:L5:1786:A:H5"	12:LI:16:PRO:HG2	2.02	0.42
1:L5:1790:U:O2'	1:L5:1791:U:O5'	2.27	0.42
1:L5:1912:G:H21	17:LO:21:ALA:HB2	1.84	0.42
1:L5:1992:U:H6	1:L5:1992:U:O5'	2.01	0.42
1:L5:2019:C:H4'	1:L5:2020:U:OP1	2.19	0.42
1:L5:2130:G:N3	1:L5:2130:G:H2'	2.33	0.42
1:L5:2329:U:N3	1:L5:2330:G:C5	2.87	0.42
1:L5:2596:G:O2'	1:L5:2597:G:H5'	2.20	0.42
1:L5:2670:C:O2'	1:L5:2671:C:H5'	2.20	0.42
1:L5:2686:G:H5'	1:L5:2687:U:OP1	2.19	0.42
1:L5:2690:C:O2'	1:L5:2691:U:H5'	2.19	0.42
1:L5:3877:A:H3'	1:L5:3878:C:C5'	2.49	0.42
1:L5:3951:G:H1'	1:L5:4062:A:C6	2.54	0.42
1:L5:4127:A:OP1	1:L5:4127:A:H4'	2.19	0.42
1:L5:4310:A:O2'	1:L5:4311:A:H5'	2.20	0.42
1:L5:4392:G:N2	1:L5:4447:C:C4	2.87	0.42
1:L5:4486:C:H2'	1:L5:4487:A:C5'	2.46	0.42
1:L5:4584:A:N7	1:L5:4585:U:N3	2.67	0.42
1:L5:4730:C:H5"	1:L5:4734:A:H2	1.83	0.42
1:L5:4865:C:C4	1:L5:4866:C:C5	3.07	0.42
3:L8:76:C:H2'	3:L8:77:A:C5'	2.48	0.42
3:L8:151:G:N1	3:L8:152:U:C4	2.88	0.42
4:LA:142:GLU:O	4:LA:144:LYS:N	2.50	0.42
5:LB:94:GLU:HB3	5:LB:99:LEU:HD21	2.00	0.42
5:LB:97:ARG:HH11	5:LB:100:ARG:HD3	1.81	0.42
6:LC:75:ARG:HG2	6:LC:75:ARG:O	2.19	0.42
6:LC:77:PRO:HG2	6:LC:91:ALA:O	2.20	0.42
7:LD:109:LEU:HD21	7:LD:142:PHE:CZ	2.53	0.42
7:LD:113:PHE:HE2	7:LD:142:PHE:CE2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:138:ARG:CD	8:LE:170:SER:HA	2.49	0.42
9:LF:162:ILE:HG12	9:LF:167:ILE:HG12	2.01	0.42
11:LH:106:GLN:CG	11:LH:113:GLU:HG2	2.48	0.42
12:LI:197:VAL:HG13	12:LI:198:LYS:N	2.34	0.42
13:LJ:151:ILE:H	13:LJ:151:ILE:HD12	1.85	0.42
14:LL:146:LEU:HD23	36:Lh:122:LYS:HD2	2.00	0.42
15:LM:31:ILE:HG12	21:LS:75:VAL:HG12	2.00	0.42
15:LM:31:ILE:O	15:LM:32:ASP:HB3	2.19	0.42
15:LM:96:GLU:O	15:LM:99:GLU:N	2.49	0.42
16:LN:38:ARG:CB	16:LN:62:TYR:CE1	2.98	0.42
17:LO:18:ARG:HB2	17:LO:123:ALA:HB1	2.00	0.42
17:LO:38:CYS:SG	17:LO:106:ASP:HA	2.60	0.42
17:LO:76:PRO:HD2	17:LO:147:TRP:CE2	2.54	0.42
20:LR:133:LYS:O	20:LR:133:LYS:CG	2.67	0.42
22:LT:82:GLY:HA2	30:Lb:16:TRP:CD1	2.53	0.42
25:LW:19:ARG:HD3	25:LW:37:GLU:CD	2.44	0.42
25:LW:88:ALA:C	25:LW:91:MET:HG2	2.43	0.42
28:LZ:23:ALA:HB2	28:LZ:45:GLY:HA3	2.01	0.42
32:Ld:22:THR:HG23	32:Ld:122:VAL:HG12	1.99	0.42
33:Le:35:TRP:CZ2	33:Le:56:PRO:HD2	2.54	0.42
37:Li:80:HIS:O	37:Li:83:ALA:HB3	2.19	0.42
39:Lk:49:ASP:CB	39:Lk:52:LYS:HG2	2.36	0.42
41:Lm:108:VAL:O	41:Lm:108:VAL:HG12	2.18	0.42
46:Lz:23:ARG:NH2	46:Lz:179:LEU:HD11	2.16	0.42
47:S2:55:U:H4'	47:S2:56:G:H5'	2.00	0.42
47:S2:145:G:OP2	70:SG:137:ARG:NH2	2.51	0.42
47:S2:185:G:N2	47:S2:186:C:O2	2.52	0.42
47:S2:310:C:N4	47:S2:311:C:N4	2.67	0.42
47:S2:311:C:O3'	47:S2:312:G:H4'	2.19	0.42
47:S2:362:C:C4	47:S2:403:G:C2	3.08	0.42
47:S2:459:C:H3'	47:S2:460:A:C8	2.54	0.42
47:S2:523:A:OP2	71:SJ:38:ARG:HD2	2.19	0.42
47:S2:795:A:O2'	47:S2:796:G:H5'	2.19	0.42
47:S2:1162:C:O2'	47:S2:1163:C:H5'	2.19	0.42
47:S2:1269:G:OP1	47:S2:1269:G:H4'	2.19	0.42
47:S2:1308:U:H4'	80:Sf:118:ARG:HH12	1.84	0.42
47:S2:1439:A:O2'	47:S2:1440:C:O5'	2.36	0.42
47:S2:1571:G:H2'	47:S2:1572:C:H6	1.78	0.42
47:S2:1589:A:H5'	61:ST:92:PHE:CD1	2.53	0.42
47:S2:1651:A:H2'	47:S2:1651:A:N3	2.34	0.42
47:S2:1660:C:P	67:Sd:19:ARG:HH21	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1695:A:C8	47:S2:1833:C:H1'	2.54	0.42
48:SA:68:ILE:HG23	48:SA:120:ARG:HH12	1.83	0.42
48:SA:85:ARG:NH2	59:SR:82:ASP:O	2.52	0.42
50:SD:47:GLU:CB	50:SD:85:GLU:HG3	2.48	0.42
50:SD:114:ALA:HB3	50:SD:117:ARG:HB2	2.00	0.42
50:SD:175:VAL:HG22	50:SD:182:LEU:HB2	2.01	0.42
51:SE:151:ASP:HA	51:SE:152:PRO:HD3	1.86	0.42
53:SH:134:VAL:HG12	53:SH:173:PHE:CE1	2.54	0.42
54:SI:193:LYS:HE2	56:SL:32:LYS:HZ1	1.84	0.42
58:SQ:52:LEU:CD1	58:SQ:56:LEU:HD13	2.44	0.42
58:SQ:57:LEU:HG	58:SQ:112:LEU:HD22	2.02	0.42
58:SQ:60:LYS:HD2	58:SQ:63:PHE:HD2	1.84	0.42
59:SR:130:THR:HA	59:SR:132:ARG:N	2.34	0.42
60:SS:30:ILE:O	60:SS:36:VAL:HG11	2.20	0.42
60:SS:61:GLU:O	60:SS:64:VAL:HB	2.18	0.42
61:ST:132:ASP:O	61:ST:135:ALA:HB3	2.19	0.42
64:SX:128:VAL:HG21	64:SX:138:LYS:HB3	2.00	0.42
68:Sg:5:MET:HE3	68:Sg:268:ASP:O	2.18	0.42
68:Sg:43:TRP:CH2	68:Sg:307:VAL:HG21	2.54	0.42
68:Sg:87:LEU:C	68:Sg:88:ARG:HG2	2.44	0.42
68:Sg:131:LEU:HB3	68:Sg:140:TYR:HB3	1.99	0.42
70:SG:70:HIS:HB3	70:SG:101:ILE:HB	2.01	0.42
71:SJ:46:VAL:O	71:SJ:49:THR:HB	2.19	0.42
75:SW:2:VAL:HG13	75:SW:3:ARG:N	2.35	0.42
76:SY:15:ASN:HD21	76:SY:17:LEU:HD12	1.85	0.42
76:SY:90:ARG:O	76:SY:93:ARG:HG2	2.19	0.42
1:L5:317:A:H2'	1:L5:318:A:C5'	2.39	0.42
1:L5:461:G:C6	1:L5:462:G:C2	3.07	0.42
1:L5:469:C:N4	1:L5:684:G:H1'	2.35	0.42
1:L5:720:G:N1	1:L5:721:G:C5	2.87	0.42
1:L5:721:G:N2	1:L5:948:C:H1'	2.35	0.42
1:L5:744:G:H2'	1:L5:745:G:H8	1.85	0.42
1:L5:1174:G:H8	1:L5:1175:A:C8	2.38	0.42
1:L5:1303:A:N1	1:L5:1304:C:N4	2.67	0.42
1:L5:1428:U:H2'	1:L5:1429:C:O4'	2.20	0.42
1:L5:1491:A:C4	1:L5:1492:G:C8	3.08	0.42
1:L5:1899:G:N2	1:L5:2078:C:C2	2.88	0.42
1:L5:1970:A:H8	1:L5:2015:U:H5	1.65	0.42
1:L5:2072:C:C6	1:L5:2072:C:C3'	3.03	0.42
1:L5:2405:G:H5"	38:Lj:14:LYS:HZ3	1.84	0.42
1:L5:2413:U:H3'	1:L5:2414:G:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2880:U:H4'	1:L5:2881:A:OP2	2.18	0.42
1:L5:2907:G:N2	1:L5:2909:C:OP1	2.53	0.42
1:L5:3631:U:O5'	1:L5:3631:U:H6	2.03	0.42
1:L5:3780:G:C6	1:L5:3815:G:N2	2.88	0.42
1:L5:4370:G:C5	81:L5:5101:3HE:H18	2.54	0.42
1:L5:4398:C:H2'	1:L5:4399:U:H5'	2.01	0.42
1:L5:4509:U:C2	1:L5:4512:U:H5	2.37	0.42
1:L5:4929:C:H2'	1:L5:4930:C:O4'	2.19	0.42
1:L5:5004:C:O5'	1:L5:5004:C:H6	2.02	0.42
1:L5:5034:A:C2'	1:L5:5035:U:H5'	2.49	0.42
2:L7:114:U:O2'	7:LD:74:ILE:N	2.51	0.42
4:LA:47:ASP:HA	4:LA:84:THR:HG22	2.00	0.42
5:LB:229:LYS:CG	5:LB:272:LYS:HB3	2.49	0.42
5:LB:257:TRP:CD1	5:LB:257:TRP:C	2.96	0.42
7:LD:51:MET:O	7:LD:53:VAL:HG23	2.19	0.42
9:LF:169:LEU:HA	9:LF:174:LEU:HD23	2.00	0.42
11:LH:37:ASP:CG	11:LH:39:ASN:HD22	2.28	0.42
12:LI:52:MET:HG2	12:LI:52:MET:O	2.19	0.42
13:LJ:93:GLU:O	13:LJ:94:LEU:HG	2.19	0.42
14:LL:57:PRO:HD3	14:LL:75:GLY:CA	2.48	0.42
16:LN:45:PRO:O	16:LN:48:ALA:HB3	2.20	0.42
20:LR:159:ALA:HB1	20:LR:163:ARG:NH1	2.34	0.42
21:LS:9:GLU:CG	21:LS:33:PHE:HE1	2.33	0.42
21:LS:30:MET:HG3	21:LS:32:ILE:HG13	2.02	0.42
24:LV:26:ILE:N	24:LV:37:LEU:O	2.52	0.42
25:LW:5:LEU:C	25:LW:5:LEU:HD12	2.44	0.42
28:LZ:68:ILE:CD1	28:LZ:118:PHE:HB3	2.50	0.42
31:Lc:31:TYR:CD1	31:Lc:60:ILE:HD11	2.54	0.42
31:Lc:60:ILE:HA	31:Lc:63:TYR:CD1	2.54	0.42
34:Lf:74:VAL:HG13	34:Lf:85:ARG:O	2.19	0.42
44:Lp:38:THR:CB	44:Lp:45:THR:HG22	2.49	0.42
44:Lp:46:LYS:HB2	44:Lp:57:CYS:SG	2.60	0.42
44:Lp:69:TRP:O	44:Lp:70:THR:OG1	2.35	0.42
46:Lz:109:ALA:O	46:Lz:110:PHE:CD1	2.73	0.42
46:Lz:124:LEU:HG	46:Lz:128:LEU:HD12	2.02	0.42
47:S2:104:A:H5'	47:S2:105:U:OP2	2.19	0.42
47:S2:305:U:OP2	47:S2:305:U:H2'	2.19	0.42
47:S2:319:C:H3'	47:S2:320:G:O4'	2.19	0.42
47:S2:344:U:H2'	47:S2:345:U:O4'	2.18	0.42
47:S2:427:U:O5'	47:S2:427:U:H6	2.02	0.42
47:S2:522:A:H5"	71:SJ:145:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:582:C:C6	47:S2:582:C:H3'	2.55	0.42
47:S2:582:C:H3'	47:S2:583:C:H5"	2.00	0.42
47:S2:600:G:O2'	47:S2:601:G:H5'	2.19	0.42
47:S2:903:A:N3	47:S2:903:A:C2'	2.82	0.42
47:S2:1055:A:O2'	47:S2:1056:U:H5'	2.18	0.42
47:S2:1119:A:H2'	47:S2:1120:U:C1'	2.50	0.42
47:S2:1245:G:C2'	47:S2:1246:A:H5'	2.49	0.42
47:S2:1405:A:N1	47:S2:1406:G:N3	2.68	0.42
47:S2:1563:G:O6	47:S2:1571:G:N1	2.53	0.42
47:S2:1648:G:H5'	58:SQ:125:ARG:HD2	2.01	0.42
47:S2:1726:G:N2	47:S2:1809:A:C1'	2.83	0.42
47:S2:1780:G:C4	47:S2:1781:A:C8	3.08	0.42
48:SA:8:LEU:HB3	48:SA:191:ARG:NH2	2.34	0.42
48:SA:42:LYS:HG2	48:SA:43:SER:N	2.34	0.42
48:SA:176:TRP:CH2	48:SA:199:PRO:HG3	2.54	0.42
49:SB:81:PHE:O	49:SB:106:THR:HG23	2.19	0.42
50:SD:67:ARG:HH21	55:SK:95:ARG:HD3	1.85	0.42
50:SD:198:ILE:HB	50:SD:200:PRO:HD3	2.00	0.42
51:SE:71:LYS:O	51:SE:90:ILE:HA	2.19	0.42
52:SF:126:THR:O	52:SF:127:ARG:HB2	2.19	0.42
53:SH:143:ARG:NH2	75:SW:53:ILE:HG23	2.35	0.42
55:SK:26:ASP:OD2	55:SK:29:MET:HE2	2.20	0.42
57:SP:70:MET:O	57:SP:71:GLU:CB	2.68	0.42
58:SQ:1:MET:N	58:SQ:2:PRO:CD	2.83	0.42
58:SQ:27:ARG:CB	58:SQ:66:VAL:HG12	2.49	0.42
59:SR:98:VAL:CG2	59:SR:99:ASP:N	2.83	0.42
60:SS:62:ASP:C	60:SS:65:GLU:HG2	2.44	0.42
62:SU:46:LYS:NZ	62:SU:97:ILE:HD13	2.34	0.42
63:SV:17:CYS:SG	63:SV:59:ILE:HD13	2.59	0.42
68:Sg:156:PHE:HE1	68:Sg:165:ILE:CG2	2.32	0.42
68:Sg:248:LEU:HD12	68:Sg:249:CYS:N	2.33	0.42
69:SC:196:ILE:HA	69:SC:197:PRO:HD3	1.68	0.42
69:SC:208:PRO:O	69:SC:212:LYS:HG2	2.18	0.42
70:SG:117:GLY:H	70:SG:121:ILE:CD1	2.31	0.42
73:SN:37:ILE:CD1	73:SN:74:ILE:HG21	2.49	0.42
76:SY:55:ILE:HD12	76:SY:55:ILE:H	1.85	0.42
79:Se:16:THR:O	79:Se:16:THR:HG23	2.19	0.42
1:L5:135:G:N7	36:Lh:97:LYS:CB	2.80	0.42
1:L5:416:U:H2'	1:L5:417:G:H5'	2.02	0.42
1:L5:461:G:H2'	1:L5:461:G:N3	2.35	0.42
1:L5:694:C:C3'	1:L5:695:G:C5'	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:747:A:C8	1:L5:917:A:N1	2.88	0.42
1:L5:1241:C:H5	1:L5:1270:A:N9	2.16	0.42
1:L5:1252:C:H1'	1:L5:1258:G:H1	1.85	0.42
1:L5:1406:G:N7	1:L5:1408:G:C5'	2.83	0.42
1:L5:1492:G:H4'	30:Lb:41:ARG:HH21	1.85	0.42
1:L5:1516:G:C2	1:L5:1518:A:C6	3.07	0.42
1:L5:1601:A:H2'	38:Lj:2:THR:HG21	2.00	0.42
1:L5:1760:G:N3	1:L5:1760:G:H2'	2.34	0.42
1:L5:1766:A:C3'	1:L5:1767:A:H5'	2.42	0.42
1:L5:2099:G:H3'	1:L5:2100:A:C5'	2.38	0.42
1:L5:2382:A:N1	1:L5:2829:U:O2'	2.37	0.42
1:L5:2402:G:O2'	1:L5:2403:A:H5'	2.20	0.42
1:L5:2409:U:O2'	1:L5:2428:A:O4'	2.34	0.42
1:L5:2414:G:C2	1:L5:2415:U:N3	2.87	0.42
1:L5:2565:A:H8	1:L5:2565:A:OP2	2.03	0.42
1:L5:3731:C:H2'	1:L5:3732:A:H5'	2.02	0.42
1:L5:3837:C:C5	1:L5:3838:U:C5	3.07	0.42
1:L5:4070:U:C2'	1:L5:4071:U:H5"	2.50	0.42
1:L5:4099:G:C8	1:L5:4099:G:C3'	3.02	0.42
1:L5:4155:C:O2'	1:L5:4156:G:H5'	2.19	0.42
1:L5:4603:C:N3	1:L5:4608:G:N2	2.53	0.42
1:L5:4761:G:H21	1:L5:4765:G:C4'	2.33	0.42
1:L5:4952:G:H2'	1:L5:4953:G:H8	1.83	0.42
1:L5:4981:G:C2	1:L5:4982:A:C8	3.08	0.42
2:L7:7:G:C2	2:L7:8:G:C8	3.08	0.42
2:L7:75:G:H2'	21:LS:49:SER:O	2.19	0.42
3:L8:56:G:N2	3:L8:62:A:C8	2.88	0.42
3:L8:68:G:C4	3:L8:91:A:C2	3.07	0.42
3:L8:106:G:C2	3:L8:107:C:N3	2.88	0.42
4:LA:48:ILE:HG21	4:LA:57:PRO:HB2	2.01	0.42
5:LB:41:VAL:HG12	5:LB:188:GLY:H	1.85	0.42
5:LB:56:ILE:CG2	5:LB:368:ILE:HD12	2.45	0.42
6:LC:68:GLY:CA	6:LC:75:ARG:HG3	2.49	0.42
6:LC:177:TRP:CH2	6:LC:181:LYS:HB2	2.55	0.42
6:LC:238:LEU:O	6:LC:238:LEU:HD12	2.18	0.42
7:LD:30:TYR:O	7:LD:34:LYS:HB2	2.19	0.42
7:LD:119:TYR:CZ	7:LD:134:SER:HA	2.55	0.42
9:LF:46:ARG:O	9:LF:50:ILE:HG13	2.19	0.42
9:LF:216:PRO:HB3	9:LF:247:MET:SD	2.60	0.42
15:LM:86:TRP:C	15:LM:88:ALA:N	2.78	0.42
17:LO:18:ARG:NH1	17:LO:128:ARG:HH11	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:LO:127:VAL:HG11	21:LS:162:GLN:OE1	2.20	0.42
19:LQ:76:GLU:C	19:LQ:78:LYS:H	2.28	0.42
19:LQ:150:ARG:O	19:LQ:163:THR:HG23	2.19	0.42
21:LS:13:VAL:HG22	21:LS:29:ARG:HA	2.02	0.42
21:LS:158:VAL:CG1	21:LS:160:ARG:HH12	2.32	0.42
23:LU:22:THR:HB	23:LU:109:SER:HB2	2.02	0.42
25:LW:96:GLN:HB3	25:LW:101:ARG:HD2	2.00	0.42
27:LY:74:TYR:HB3	27:LY:79:VAL:HG13	1.99	0.42
33:Le:67:LYS:HE2	33:Le:68:HIS:HE1	1.83	0.42
39:Lk:25:ILE:HD13	39:Lk:66:VAL:CB	2.48	0.42
47:S2:547:G:C2'	47:S2:548:C:H5"	2.37	0.42
47:S2:617:G:H4'	64:SX:88:ASP:CB	2.48	0.42
47:S2:744:G:H21	53:SH:107:LYS:HB2	1.84	0.42
47:S2:786:G:H5"	70:SG:234:LEU:C	2.44	0.42
47:S2:818:A:C2'	47:S2:819:G:H5'	2.50	0.42
47:S2:1049:A:OP1	47:S2:1855:G:H5'	2.19	0.42
47:S2:1163:C:H2'	47:S2:1163:C:O2	2.18	0.42
47:S2:1256:G:H5'	47:S2:1257:G:C5'	2.49	0.42
47:S2:1337:C:OP1	67:Sd:44:ARG:NH2	2.53	0.42
47:S2:1397:U:H4'	47:S2:1398:G:OP1	2.20	0.42
47:S2:1567:G:C5	60:SS:82:TRP:CZ2	3.08	0.42
47:S2:1590:C:H5'	61:ST:82:ARG:HD3	2.01	0.42
47:S2:1712:A:N1	47:S2:1713:C:C4	2.88	0.42
47:S2:1788:A:H2'	47:S2:1789:G:O4'	2.19	0.42
49:SB:28:LYS:CD	49:SB:48:LEU:HD21	2.49	0.42
51:SE:18:TRP:CZ2	51:SE:43:PRO:HD3	2.49	0.42
51:SE:52:LEU:CB	51:SE:54:TYR:CE2	3.02	0.42
51:SE:184:THR:HG23	51:SE:224:ASN:O	2.19	0.42
53:SH:147:LYS:C	53:SH:149:ASP:H	2.28	0.42
54:SI:8:TRP:CZ3	54:SI:20:PRO:HB3	2.54	0.42
56:SL:111:VAL:HG21	56:SL:128:VAL:CG2	2.43	0.42
57:SP:36:LEU:HG	57:SP:37:TYR:CD1	2.54	0.42
57:SP:80:LEU:HD11	57:SP:82:ASP:HB3	2.01	0.42
58:SQ:47:LEU:CG	58:SQ:50:LYS:HE3	2.49	0.42
60:SS:88:LYS:N	60:SS:95:TYR:CD2	2.87	0.42
61:ST:30:VAL:HG11	61:ST:53:PHE:CD1	2.55	0.42
63:SV:15:ARG:HA	69:SC:259:THR:HG21	2.01	0.42
70:SG:71:GLY:H	70:SG:98:ARG:CZ	2.32	0.42
71:SJ:46:VAL:HG21	71:SJ:102:ILE:HG23	2.01	0.42
73:SN:46:THR:O	73:SN:50:ILE:HG12	2.19	0.42
75:SW:34:ILE:CG2	75:SW:38:LEU:HD13	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:73:A:H62	14:LL:103:ARG:NH2	2.17	0.42
1:L5:190:G:O2'	1:L5:191:G:H5'	2.18	0.42
1:L5:300:A:O2'	1:L5:301:G:H5'	2.20	0.42
1:L5:480:C:H2'	1:L5:481:G:C8	2.54	0.42
1:L5:978:G:H4'	8:LE:44:CYS:H	1.84	0.42
1:L5:1397:A:H5"	29:La:113:GLY:O	2.19	0.42
1:L5:1401:C:H2'	1:L5:1402:C:O4'	2.18	0.42
1:L5:1403:G:N3	1:L5:1415:G:C2	2.88	0.42
1:L5:1586:G:C6	1:L5:1587:G:C2	3.07	0.42
1:L5:1670:G:C8	1:L5:1855:G:N7	2.88	0.42
1:L5:2702:C:C2'	1:L5:2703:G:C5'	2.94	0.42
1:L5:2854:G:H3'	1:L5:2854:G:C8	2.54	0.42
1:L5:2858:A:H2'	1:L5:2859:G:C5'	2.43	0.42
1:L5:3597:G:C5'	20:LR:143:HIS:CE1	3.03	0.42
1:L5:3655:C:C6	1:L5:3655:C:C3'	3.01	0.42
1:L5:3830:A:N3	1:L5:3830:A:H2'	2.34	0.42
1:L5:3873:G:C6	1:L5:3874:G:C6	3.08	0.42
1:L5:3897:G:C4'	5:LB:254:ILE:HD12	2.38	0.42
1:L5:3969:G:H22	1:L5:4052:C:C3'	2.33	0.42
1:L5:4081:G:C4	1:L5:4166:G:N2	2.87	0.42
1:L5:4092:G:N1	1:L5:4158:C:C4	2.87	0.42
1:L5:4321:U:O2'	1:L5:4322:G:H5'	2.19	0.42
1:L5:4381:A:C2'	1:L5:4382:G:C5'	2.96	0.42
1:L5:4520:G:N2	5:LB:255:GLY:O	2.52	0.42
1:L5:4631:G:H2'	1:L5:4632:U:H6	1.80	0.42
1:L5:4862:G:O2'	1:L5:4863:G:H4'	2.19	0.42
1:L5:5032:C:N4	1:L5:5033:G:C6	2.87	0.42
1:L5:5053:U:H3'	1:L5:5054:C:C6	2.54	0.42
3:L8:119:C:O5'	3:L8:119:C:H6	2.02	0.42
3:L8:135:C:H2'	3:L8:136:U:O4'	2.20	0.42
4:LA:6:ARG:O	4:LA:6:ARG:HG3	2.20	0.42
4:LA:140:ASN:HD21	4:LA:142:GLU:HG3	1.85	0.42
5:LB:114:CYS:SG	5:LB:165:HIS:CD2	3.13	0.42
5:LB:130:PHE:O	5:LB:134:CYS:N	2.46	0.42
6:LC:54:VAL:HG12	6:LC:55:SER:N	2.34	0.42
7:LD:55:VAL:HG22	7:LD:60:ILE:HG23	2.01	0.42
7:LD:162:ALA:O	7:LD:166:ALA:N	2.53	0.42
8:LE:95:PRO:HG2	8:LE:96:VAL:O	2.18	0.42
14:LL:70:VAL:CG1	14:LL:159:ASN:HB3	2.46	0.42
14:LL:169:ILE:HD11	29:La:123:ILE:HG12	2.00	0.42
15:LM:7:VAL:HG22	15:LM:57:LEU:CD2	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:LN:137:PRO:HA	16:LN:151:ILE:HD11	2.02	0.42
17:LO:63:ASN:OD1	17:LO:64:THR:N	2.53	0.42
18:LP:36:ILE:O	18:LP:114:ILE:HD12	2.20	0.42
28:LZ:51:ARG:HG2	28:LZ:65:ARG:NH1	2.35	0.42
28:LZ:112:ARG:O	28:LZ:115:LYS:HB3	2.19	0.42
32:Ld:86:VAL:HG21	32:Ld:106:VAL:CG1	2.49	0.42
32:Ld:109:VAL:O	32:Ld:109:VAL:HG12	2.18	0.42
35:Lg:10:ARG:HH12	40:Ll:3:SER:HB3	1.84	0.42
38:Lj:34:CYS:SG	38:Lj:37:CYS:SG	3.09	0.42
43:Lo:68:LEU:CD1	43:Lo:83:LEU:HB3	2.50	0.42
47:S2:18:C:H2'	47:S2:19:A:H8	1.84	0.42
47:S2:49:C:C4	47:S2:472:C:C5	3.07	0.42
47:S2:50:A:H2	47:S2:51:U:H1'	1.83	0.42
47:S2:111:A:C5'	56:SL:70:GLY:HA2	2.49	0.42
47:S2:303:C:O2'	54:SI:184:ARG:NH1	2.53	0.42
47:S2:387:C:O2'	47:S2:388:U:H5'	2.18	0.42
47:S2:406:U:N3	47:S2:408:A:N7	2.68	0.42
47:S2:597:G:N1	47:S2:598:G:C4	2.88	0.42
47:S2:624:C:N4	64:SX:63:ASN:OD1	2.51	0.42
47:S2:687:C:H4'	53:SH:121:THR:HG21	2.02	0.42
47:S2:691:G:H3'	47:S2:692:G:C5'	2.27	0.42
47:S2:1097:G:C2	47:S2:1098:C:N3	2.88	0.42
47:S2:1159:G:O2'	47:S2:1160:U:H5'	2.18	0.42
47:S2:1199:A:N1	47:S2:1200:A:N3	2.68	0.42
47:S2:1471:C:H2'	47:S2:1472:C:H6	1.78	0.42
47:S2:1511:U:H1'	47:S2:1512:C:H5'	2.01	0.42
47:S2:1538:C:HO2'	47:S2:1539:U:C4'	2.33	0.42
47:S2:1549:U:O5'	47:S2:1549:U:H6	2.02	0.42
47:S2:1550:G:C6	47:S2:1579:A:C2	3.07	0.42
47:S2:1607:A:H3'	47:S2:1608:U:C6	2.55	0.42
47:S2:1859:A:N6	47:S2:1860:A:N6	2.66	0.42
48:SA:169:HIS:O	48:SA:173:LEU:HB2	2.19	0.42
49:SB:69:VAL:CG1	49:SB:86:LEU:HD12	2.49	0.42
50:SD:75:LYS:HE3	55:SK:20:VAL:HG23	2.01	0.42
50:SD:208:VAL:CG1	50:SD:209:SER:N	2.81	0.42
52:SF:27:ASP:O	52:SF:28:VAL:HB	2.19	0.42
52:SF:140:ASP:HB3	66:Sc:46:VAL:CB	2.50	0.42
53:SH:140:VAL:HG22	53:SH:140:VAL:O	2.18	0.42
54:SI:83:TYR:HA	54:SI:91:VAL:HG21	2.01	0.42
55:SK:21:MET:HE1	55:SK:32:HIS:NE2	2.35	0.42
57:SP:14:LYS:CE	57:SP:15:PHE:CE1	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:SQ:32:ILE:HG12	58:SQ:60:LYS:CE	2.49	0.42
58:SQ:68:ILE:O	58:SQ:68:ILE:HG22	2.19	0.42
58:SQ:135:PRO:HD3	58:SQ:141:TYR:HB2	1.99	0.42
59:SR:23:ARG:HH21	68:Sg:170:TRP:HZ3	1.66	0.42
60:SS:34:LYS:HE2	60:SS:104:ASP:HB2	2.02	0.42
60:SS:84:LEU:HB3	60:SS:97:GLN:HB2	2.02	0.42
61:ST:100:ALA:O	61:ST:104:LEU:HG	2.20	0.42
62:SU:29:VAL:CG1	62:SU:33:GLU:HG2	2.50	0.42
64:SX:51:VAL:CG1	64:SX:52:LEU:N	2.83	0.42
65:Sa:22:ARG:HG2	74:SO:142:ARG:CD	2.49	0.42
68:Sg:22:ALA:CA	68:Sg:32:LEU:HD21	2.50	0.42
68:Sg:29:ASP:CB	68:Sg:45:LEU:HD23	2.48	0.42
68:Sg:54:ILE:HG13	68:Sg:55:PRO:HD2	2.01	0.42
68:Sg:111:VAL:CG2	68:Sg:122:SER:HA	2.48	0.42
68:Sg:135:LEU:HD11	68:Sg:137:VAL:CG2	2.49	0.42
68:Sg:141:THR:HG22	68:Sg:141:THR:O	2.18	0.42
68:Sg:169:GLY:H	68:Sg:195:LEU:HB2	1.85	0.42
68:Sg:256:ILE:O	68:Sg:269:GLU:HB2	2.19	0.42
68:Sg:298:LEU:HG	68:Sg:299:PHE:O	2.18	0.42
72:SM:24:THR:HG21	72:SM:115:GLY:HA2	2.01	0.42
73:SN:4:MET:CE	73:SN:121:ARG:HG2	2.49	0.42
73:SN:72:LEU:O	73:SN:76:LYS:N	2.53	0.42
73:SN:108:ASP:OD1	73:SN:108:ASP:N	2.51	0.42
76:SY:117:VAL:HG21	76:SY:127:ALA:HB3	1.98	0.42
80:Sf:138:ARG:HB3	80:Sf:147:THR:HG23	2.00	0.42
1:L5:20:U:C4	3:L8:37:A:C6	3.07	0.42
1:L5:59:A:C2	1:L5:338:A:C2	3.07	0.42
1:L5:122:U:O2'	1:L5:153:G:O4'	2.37	0.42
1:L5:133:C:H41	36:Lh:74:LYS:CD	2.30	0.42
1:L5:272:U:H2'	1:L5:273:U:H6	1.83	0.42
1:L5:288:G:C6	1:L5:300:A:N1	2.87	0.42
1:L5:451:C:H1'	1:L5:1295:C:C5	2.55	0.42
1:L5:468:U:H2'	1:L5:469:C:O4'	2.18	0.42
1:L5:665:C:H4'	1:L5:666:G:N7	2.35	0.42
1:L5:691:C:H6	1:L5:691:C:H3'	1.84	0.42
1:L5:715:G:N2	1:L5:716:C:H1'	2.35	0.42
1:L5:951:G:C6	1:L5:952:G:N7	2.88	0.42
1:L5:1347:G:C2	1:L5:1510:G:C2	3.07	0.42
1:L5:1445:U:HO2'	1:L5:1446:C:P	2.41	0.42
1:L5:1498:G:N3	1:L5:1498:G:H2'	2.34	0.42
1:L5:1666:C:C2	1:L5:2284:G:N2	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1699:A:N6	1:L5:2096:G:C2	2.88	0.42
1:L5:1913:C:O2'	1:L5:1914:C:H5'	2.20	0.42
1:L5:2000:G:N3	1:L5:2000:G:H2'	2.35	0.42
1:L5:2061:U:C4	1:L5:2062:C:H5	2.37	0.42
1:L5:2070:U:H4'	1:L5:2071:A:OP2	2.18	0.42
1:L5:2249:C:H6	1:L5:2249:C:H3'	1.84	0.42
1:L5:2401:A:O2'	35:Lg:6:THR:OG1	2.27	0.42
1:L5:2481:G:H5"	1:L5:2482:C:P	2.60	0.42
1:L5:2537:A:C5	1:L5:2538:U:N3	2.88	0.42
1:L5:2633:U:H2'	1:L5:2634:C:H6	1.84	0.42
1:L5:2660:A:H4'	1:L5:2661:U:OP1	2.17	0.42
1:L5:3685:C:OP1	4:LA:193:ARG:NH1	2.52	0.42
1:L5:3725:G:N7	37:Li:67:LYS:NZ	2.64	0.42
1:L5:3803:A:C2'	1:L5:3804:G:H5'	2.49	0.42
1:L5:4084:G:H3'	1:L5:4085:A:H4'	2.02	0.42
1:L5:4091:G:H2'	1:L5:4092:G:C8	2.52	0.42
1:L5:4294:C:C5'	43:Lo:81:ARG:NH1	2.83	0.42
1:L5:4322:G:N2	1:L5:4326:G:C2	2.88	0.42
1:L5:4454:G:N2	1:L5:4455:G:C4	2.87	0.42
1:L5:4591:U:H5"	1:L5:4592:C:OP2	2.19	0.42
1:L5:4679:G:C2	1:L5:4712:C:O2	2.72	0.42
1:L5:5053:U:H3'	1:L5:5054:C:H5	1.82	0.42
2:L7:15:C:O5'	2:L7:15:C:H6	2.03	0.42
3:L8:78:G:H2'	3:L8:79:G:O5'	2.19	0.42
3:L8:133:G:C2	3:L8:134:G:C4	3.08	0.42
4:LA:19:HIS:ND1	4:LA:190:LYS:O	2.40	0.42
4:LA:51:ASP:HB2	4:LA:58:LEU:CD1	2.48	0.42
5:LB:86:VAL:HG12	5:LB:87:VAL:N	2.35	0.42
9:LF:115:ARG:O	19:LQ:3:VAL:HA	2.20	0.42
10:LG:35:ARG:O	10:LG:35:ARG:HG3	2.19	0.42
10:LG:63:LEU:CD2	16:LN:33:LEU:HD12	2.50	0.42
10:LG:250:ILE:HG13	10:LG:251:ALA:N	2.35	0.42
11:LH:4:ILE:HB	11:LH:61:TRP:CZ3	2.54	0.42
12:LI:169:LYS:HD2	12:LI:170:LYS:HZ2	1.85	0.42
13:LJ:74:VAL:O	13:LJ:74:VAL:HG13	2.20	0.42
13:LJ:82:ILE:HG22	13:LJ:82:ILE:O	2.19	0.42
15:LM:43:THR:O	15:LM:44:GLN:HB2	2.20	0.42
17:LO:15:LEU:HD23	17:LO:42:ASN:O	2.19	0.42
18:LP:73:ALA:HB1	18:LP:78:TRP:O	2.20	0.42
19:LQ:79:THR:O	19:LQ:136:THR:HA	2.20	0.42
25:LW:83:THR:CA	70:SG:131:ARG:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LX:71:LEU:CD2	26:LX:76:ILE:CD1	2.96	0.42
32:Ld:24:GLU:HG3	32:Ld:85:ARG:NH2	2.35	0.42
32:Ld:88:LEU:HD12	32:Ld:105:LEU:O	2.20	0.42
38:Lj:28:HIS:ND1	38:Lj:31:LYS:HB3	2.33	0.42
39:Lk:6:GLU:H	39:Lk:6:GLU:CD	2.22	0.42
41:Lm:104:HIS:HB2	41:Lm:105:PRO:CD	2.50	0.42
45:Lr:35:ARG:HG3	45:Lr:37:SER:H	1.84	0.42
47:S2:66:G:N7	47:S2:68:A:C6	2.88	0.42
47:S2:141:A:C8	47:S2:178:C:C2	3.08	0.42
47:S2:332:G:H8	47:S2:332:G:O5'	2.03	0.42
47:S2:339:A:H4'	47:S2:340:C:O5'	2.19	0.42
47:S2:364:A:C6	47:S2:397:G:N1	2.87	0.42
47:S2:575:A:N6	47:S2:576:A:C6	2.88	0.42
47:S2:1104:G:N3	47:S2:1129:G:N2	2.66	0.42
47:S2:1164:G:H2'	47:S2:1165:G:H5'	2.02	0.42
47:S2:1277:C:H5'	55:SK:55:ARG:CG	2.50	0.42
47:S2:1712:A:C6	47:S2:1822:A:C2	3.07	0.42
48:SA:147:LEU:HD21	48:SA:174:MET:HB3	2.02	0.42
48:SA:184:ARG:O	63:SV:45:ARG:HG2	2.19	0.42
49:SB:116:LYS:O	49:SB:117:TRP:HB2	2.19	0.42
51:SE:194:VAL:N	51:SE:211:LYS:O	2.53	0.42
52:SF:20:PHE:CE2	52:SF:26:ASP:HB3	2.55	0.42
52:SF:34:SER:CB	66:Sc:55:VAL:HG11	2.50	0.42
52:SF:109:LEU:O	52:SF:113:VAL:HG23	2.20	0.42
52:SF:110:GLN:NE2	52:SF:113:VAL:HB	2.34	0.42
52:SF:134:VAL:HG13	52:SF:135:ARG:NH1	2.34	0.42
53:SH:157:HIS:CD2	53:SH:188:GLU:HB2	2.55	0.42
54:SI:58:LEU:C	54:SI:59:ARG:CG	2.93	0.42
54:SI:155:ASN:HA	56:SL:25:LEU:HD23	1.99	0.42
58:SQ:27:ARG:HA	58:SQ:66:VAL:CG1	2.42	0.42
58:SQ:52:LEU:HD13	58:SQ:56:LEU:CD1	2.44	0.42
58:SQ:85:ARG:HH22	58:SQ:117:ARG:NH2	2.17	0.42
58:SQ:116:ASP:O	58:SQ:119:LEU:N	2.52	0.42
59:SR:61:ILE:HG13	59:SR:62:GLN:N	2.34	0.42
59:SR:104:GLU:O	59:SR:107:LYS:HB2	2.20	0.42
60:SS:44:VAL:CG2	60:SS:70:ILE:HG21	2.50	0.42
68:Sg:29:ASP:OD1	68:Sg:45:LEU:HD23	2.19	0.42
68:Sg:246:TYR:HD2	68:Sg:261:LEU:HD23	1.83	0.42
69:SC:84:PHE:HZ	69:SC:262:THR:OG1	2.03	0.42
69:SC:194:ARG:O	69:SC:224:THR:HA	2.19	0.42
72:SM:116:LYS:HD2	72:SM:116:LYS:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:SN:16:LEU:HD23	73:SN:17:PRO:O	2.19	0.42
73:SN:84:LEU:HD12	73:SN:85:PRO:HD3	2.01	0.42
74:SO:14:VAL:H	74:SO:15:ILE:HA	1.85	0.42
78:Sb:42:LYS:HA	78:Sb:42:LYS:HD2	1.77	0.42
1:L5:47:A:C8	1:L5:49:U:C2	3.08	0.42
1:L5:114:G:H8	1:L5:114:G:O5'	2.03	0.42
1:L5:268:G:C4	1:L5:269:G:C8	3.07	0.42
1:L5:449:C:H41	1:L5:1297:U:H3	1.67	0.42
1:L5:724:C:N3	1:L5:943:A:N1	2.68	0.42
1:L5:725:G:C5	1:L5:726:G:N7	2.88	0.42
1:L5:741:C:C4	1:L5:742:G:C8	3.08	0.42
1:L5:932:A:H2	1:L5:934:C:C4	2.37	0.42
1:L5:979:C:C2	1:L5:1275:G:N2	2.88	0.42
1:L5:1066:G:H2'	1:L5:1066:G:N3	2.35	0.42
1:L5:1183:C:H6	1:L5:1183:C:O5'	2.02	0.42
1:L5:1477:C:H2'	1:L5:1478:C:O4'	2.20	0.42
1:L5:1558:A:N3	1:L5:1570:G:N2	2.68	0.42
1:L5:1811:G:N3	30:Lb:57:MET:CE	2.81	0.42
1:L5:1868:A:C2'	1:L5:1869:G:H5"	2.50	0.42
1:L5:2056:G:C6	1:L5:2058:G:C5	3.08	0.42
1:L5:2353:U:C5	1:L5:2354:G:N7	2.87	0.42
1:L5:2438:A:C5	1:L5:2441:C:C4	3.08	0.42
1:L5:2697:A:H2'	1:L5:2698:G:C5'	2.49	0.42
1:L5:2777:G:H8	1:L5:2777:G:O5'	2.03	0.42
1:L5:2896:G:H5"	1:L5:2897:G:OP2	2.20	0.42
1:L5:2902:G:N2	1:L5:3597:G:C6	2.88	0.42
1:L5:2904:U:H3'	1:L5:3591:C:O2	2.20	0.42
1:L5:3645:U:O5'	1:L5:3645:U:H6	2.03	0.42
1:L5:3656:A:C2	1:L5:3689:G:C2	3.08	0.42
1:L5:3676:G:O2'	1:L5:3677:U:H5'	2.20	0.42
1:L5:3916:G:N1	1:L5:3917:A:C2	2.88	0.42
1:L5:4131:G:H1	1:L5:4153:C:H42	1.68	0.42
1:L5:4289:U:C2'	1:L5:4290:U:H5'	2.50	0.42
1:L5:4309:G:O2'	1:L5:4310:A:H5'	2.19	0.42
1:L5:4370:G:N1	81:L5:5101:3HE:H18	2.35	0.42
1:L5:4725:C:O2'	1:L5:4726:G:O4'	2.25	0.42
1:L5:4888:U:HO2'	1:L5:4889:G:C5'	2.32	0.42
1:L5:4928:C:H2'	1:L5:4929:C:C5'	2.49	0.42
1:L5:4998:G:O2'	1:L5:4999:G:H5'	2.19	0.42
2:L7:30:C:C2	2:L7:48:G:N2	2.87	0.42
2:L7:44:C:C4	2:L7:45:U:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:321:VAL:C	5:LB:323:TYR:N	2.76	0.42
9:LF:175:ILE:HD13	9:LF:187:MET:HG3	2.01	0.42
14:LL:54:PRO:HB3	14:LL:95:GLY:O	2.20	0.42
16:LN:63:ARG:HA	16:LN:131:GLU:HA	2.01	0.42
18:LP:136:ILE:O	18:LP:136:ILE:HG22	2.20	0.42
19:LQ:46:VAL:O	19:LQ:49:LYS:HG2	2.20	0.42
21:LS:13:VAL:HG22	21:LS:29:ARG:HB2	2.01	0.42
21:LS:37:HIS:CE1	21:LS:38:VAL:HG23	2.54	0.42
23:LU:22:THR:HG22	23:LU:23:LEU:N	2.35	0.42
23:LU:28:PRO:HB2	23:LU:34:MET:HG2	2.00	0.42
27:LY:56:GLN:O	27:LY:105:VAL:N	2.23	0.42
27:LY:80:ILE:O	27:LY:98:GLY:HA2	2.20	0.42
33:Le:113:GLU:CD	33:Le:114:ARG:N	2.77	0.42
33:Le:128:ARG:O	33:Le:129:LEU:HB3	2.20	0.42
35:Lg:8:ARG:HG2	35:Lg:8:ARG:O	2.20	0.42
38:Lj:28:HIS:HB3	38:Lj:33:THR:H	1.85	0.42
45:Lr:107:ARG:CG	45:Lr:108:MET:N	2.81	0.42
47:S2:146:G:H2'	47:S2:147:A:H8	1.84	0.42
47:S2:203:G:C2	47:S2:204:G:H1'	2.54	0.42
47:S2:474:G:H2'	47:S2:475:C:H6	1.85	0.42
47:S2:489:A:C2'	47:S2:490:C:H5'	2.50	0.42
47:S2:499:G:C5	47:S2:504:G:N1	2.88	0.42
47:S2:511:U:C2	47:S2:512:A:C8	3.07	0.42
47:S2:696:G:H21	47:S2:736:C:H41	1.67	0.42
47:S2:1175:G:C2	47:S2:1176:G:C8	3.08	0.42
47:S2:1425:G:H21	58:SQ:1:MET:H2	1.67	0.42
47:S2:1520:G:OP1	60:SS:137:LYS:HG3	2.20	0.42
47:S2:1630:A:H5"	60:SS:37:GLY:HA3	2.00	0.42
47:S2:1640:A:N1	47:S2:1641:A:C4	2.88	0.42
47:S2:1644:C:C4	47:S2:1645:C:C4	3.08	0.42
47:S2:1648:G:H22	47:S2:1675:A:P	2.38	0.42
47:S2:1723:G:N2	47:S2:1812:U:O2	2.52	0.42
47:S2:1857:G:OP2	74:SO:146:ARG:HD2	2.20	0.42
48:SA:8:LEU:HB3	48:SA:191:ARG:HH22	1.85	0.42
48:SA:57:LYS:HZ3	63:SV:70:LEU:HD12	1.83	0.42
48:SA:111:GLN:CG	69:SC:89:LYS:HZ1	2.33	0.42
49:SB:202:GLN:OE1	49:SB:206:PRO:HA	2.19	0.42
50:SD:106:ARG:HG2	50:SD:110:LEU:CD1	2.50	0.42
51:SE:18:TRP:CD1	51:SE:46:ILE:HG21	2.55	0.42
52:SF:95:HIS:O	52:SF:99:ILE:HG22	2.20	0.42
52:SF:126:THR:O	52:SF:136:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:SH:9:VAL:HG13	53:SH:44:ASN:HA	2.01	0.42
53:SH:58:LYS:O	53:SH:90:LYS:HA	2.20	0.42
54:SI:21:TYR:CE2	54:SI:22:HIS:ND1	2.88	0.42
54:SI:163:GLU:HA	54:SI:166:PHE:CD2	2.51	0.42
55:SK:80:ARG:HG3	55:SK:85:LEU:CD2	2.50	0.42
56:SL:62:PHE:C	56:SL:63:THR:HG23	2.44	0.42
57:SP:104:GLN:N	57:SP:104:GLN:OE1	2.52	0.42
58:SQ:63:PHE:HA	58:SQ:66:VAL:CG2	2.48	0.42
58:SQ:118:THR:HG22	58:SQ:121:VAL:HG23	2.02	0.42
60:SS:23:ARG:O	60:SS:55:ARG:HD3	2.20	0.42
62:SU:29:VAL:HG12	62:SU:33:GLU:CG	2.50	0.42
63:SV:52:THR:OG1	69:SC:261:PHE:HB2	2.19	0.42
64:SX:60:LYS:C	64:SX:62:PRO:HD2	2.45	0.42
64:SX:128:VAL:HG11	64:SX:133:LEU:HG	2.01	0.42
65:Sa:26:CYS:C	65:Sa:28:ARG:H	2.28	0.42
69:SC:113:GLN:HB2	69:SC:121:ARG:C	2.45	0.42
71:SJ:170:PRO:HB2	71:SJ:174:LYS:CG	2.49	0.42
74:SO:132:VAL:HG22	74:SO:132:VAL:O	2.20	0.42
1:L5:5:A:HO2'	1:L5:6:C:H5'	1.85	0.42
1:L5:65:A:N3	16:LN:176:LYS:HE3	2.35	0.42
1:L5:179:G:H2'	1:L5:180:C:O4'	2.19	0.42
1:L5:262:G:C2	1:L5:263:G:C5	3.08	0.42
1:L5:500:G:N3	1:L5:500:G:H2'	2.35	0.42
1:L5:747:A:O2'	1:L5:748:G:H5'	2.20	0.42
1:L5:1072:C:O2	1:L5:1072:C:C2'	2.68	0.42
1:L5:1337:A:C2	1:L5:1658:G:N3	2.87	0.42
1:L5:1378:C:H4'	1:L5:1380:G:OP2	2.19	0.42
1:L5:1650:A:N6	6:LC:100:ARG:HD2	2.35	0.42
1:L5:1728:U:H2'	1:L5:1729:A:O4'	2.20	0.42
1:L5:1829:G:H1'	30:Lb:61:ASN:ND2	2.35	0.42
1:L5:1968:G:C6	1:L5:1969:G:C5	3.07	0.42
1:L5:2103:G:H2'	1:L5:2104:G:H8	1.81	0.42
1:L5:2374:A:H2'	1:L5:2375:A:O4'	2.20	0.42
1:L5:2395:A:H2	35:Lg:4:ARG:HD3	1.85	0.42
1:L5:2511:A:C3'	1:L5:2512:A:C5'	2.98	0.42
1:L5:2666:U:C2	1:L5:2669:C:C5	3.08	0.42
1:L5:2772:C:H2'	1:L5:2773:G:H5'	2.01	0.42
1:L5:3616:U:H4'	1:L5:3617:G:O5'	2.16	0.42
1:L5:3653:A:H4'	4:LA:179:ILE:HG13	2.00	0.42
1:L5:3698:G:C4	1:L5:3778:U:N3	2.88	0.42
1:L5:3716:C:C5	1:L5:3735:G:N1	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:3800:A:O2'	1:L5:4505:C:H1'	2.20	0.42
1:L5:4129:G:H2'	1:L5:4130:C:O4'	2.20	0.42
1:L5:4149:C:O2'	1:L5:4150:G:O4'	2.35	0.42
1:L5:4295:U:O2'	1:L5:4296:U:H5'	2.20	0.42
1:L5:4415:A:C2	1:L5:4428:A:C4	3.08	0.42
1:L5:4541:G:N1	1:L5:4545:G:C6	2.88	0.42
1:L5:4545:G:N2	1:L5:4546:A:C4	2.88	0.42
1:L5:4659:G:C4	1:L5:4660:G:C8	3.07	0.42
1:L5:4679:G:O2'	1:L5:4680:G:H5'	2.19	0.42
1:L5:4909:A:O2'	1:L5:4910:G:O5'	2.35	0.42
2:L7:6:C:P	7:LD:22:ARG:HH22	2.40	0.42
2:L7:27:G:N2	2:L7:54:A:H62	2.18	0.42
4:LA:142:GLU:C	4:LA:144:LYS:N	2.78	0.42
5:LB:5:LYS:HG3	5:LB:6:PHE:N	2.35	0.42
5:LB:67:VAL:HG13	24:LV:14:PHE:CE2	2.55	0.42
5:LB:337:VAL:HG12	5:LB:338:VAL:N	2.35	0.42
6:LC:152:LEU:HD21	6:LC:174:LEU:CD1	2.32	0.42
7:LD:40:ASP:HB2	22:LT:69:GLN:HA	2.00	0.42
7:LD:236:MET:C	7:LD:239:MET:H	2.26	0.42
8:LE:116:TYR:HE2	45:Lr:111:ILE:CG2	2.32	0.42
9:LF:25:PHE:HB3	9:LF:26:ALA:H	1.46	0.42
9:LF:165:LYS:HB2	9:LF:167:ILE:HG12	2.02	0.42
10:LG:155:VAL:HG12	10:LG:156:VAL:H	1.85	0.42
11:LH:20:LEU:CD1	11:LH:22:GLY:H	2.32	0.42
11:LH:179:ILE:HG22	11:LH:179:ILE:O	2.19	0.42
13:LJ:112:HIS:HB3	13:LJ:125:ILE:CA	2.46	0.42
15:LM:118:MET:O	15:LM:122:ILE:HD12	2.20	0.42
15:LM:139:SER:HB3	15:LM:140:PRO:HD2	2.01	0.42
16:LN:83:LYS:HA	16:LN:84:PRO:HD3	1.84	0.42
17:LO:16:LEU:HB3	17:LO:43:ILE:HG21	2.02	0.42
19:LQ:48:LEU:HD23	19:LQ:48:LEU:C	2.45	0.42
19:LQ:85:THR:HG22	19:LQ:104:ARG:CG	2.50	0.42
19:LQ:88:ASP:N	19:LQ:88:ASP:OD1	2.50	0.42
21:LS:17:LEU:HA	21:LS:18:PRO:HD3	1.83	0.42
21:LS:83:ARG:CD	22:LT:156:TYR:HB2	2.50	0.42
23:LU:56:LEU:HB3	23:LU:61:VAL:CG2	2.49	0.42
24:LV:25:VAL:HA	24:LV:37:LEU:O	2.19	0.42
24:LV:119:GLY:HA2	25:LW:24:THR:O	2.20	0.42
26:LX:119:ILE:CD1	26:LX:140:LEU:HD22	2.50	0.42
28:LZ:5:MET:SD	28:LZ:82:PRO:HB3	2.60	0.42
29:La:59:LYS:HD3	29:La:61:TYR:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Le:90:MET:HG2	45:Lr:33:LYS:CB	2.49	0.42
33:Le:113:GLU:HA	33:Le:116:ALA:CB	2.49	0.42
34:Lf:82:GLY:O	34:Lf:83:MET:HB2	2.19	0.42
35:Lg:19:LYS:C	35:Lg:20:THR:CG2	2.93	0.42
36:Lh:62:ASN:CA	36:Lh:65:GLN:HG2	2.50	0.42
38:Lj:45:ARG:HD2	38:Lj:47:TYR:HE2	1.85	0.42
39:Lk:5:ILE:CD1	39:Lk:11:PHE:HA	2.50	0.42
40:Ll:27:ILE:HG23	40:Ll:28:ARG:N	2.35	0.42
47:S2:70:G:C2	47:S2:80:G:N1	2.88	0.42
47:S2:305:U:O4	54:SI:184:ARG:NE	2.53	0.42
47:S2:374:G:C1'	56:SL:83:GLN:HE21	2.32	0.42
47:S2:604:A:O2'	47:S2:605:A:P	2.78	0.42
47:S2:956:G:N3	47:S2:972:A:C2	2.88	0.42
47:S2:1018:U:H5'	73:SN:71:ILE:CD1	2.28	0.42
47:S2:1056:U:H2'	47:S2:1057:C:H5'	2.00	0.42
47:S2:1129:G:C5'	78:Sb:22:LYS:HZ2	2.33	0.42
47:S2:1233:G:N2	47:S2:1252:C:H2'	2.35	0.42
47:S2:1297:U:H2'	47:S2:1299:A:C8	2.55	0.42
47:S2:1329:U:O2	47:S2:1332:A:H8	2.02	0.42
47:S2:1388:A:H61	50:SD:161:GLY:HA3	1.84	0.42
47:S2:1504:U:H1'	47:S2:1509:U:O4	2.20	0.42
47:S2:1540:G:OP2	61:ST:43:LYS:NZ	2.51	0.42
47:S2:1624:U:H2'	47:S2:1625:U:H5'	2.01	0.42
49:SB:220:LYS:HA	49:SB:221:PRO:HD3	1.70	0.42
50:SD:45:ARG:HB2	50:SD:82:GLY:O	2.20	0.42
52:SF:43:GLU:C	52:SF:45:TYR:H	2.21	0.42
54:SI:147:LYS:O	54:SI:150:ASP:HB2	2.20	0.42
55:SK:11:ILE:HB	55:SK:45:VAL:HG12	2.02	0.42
55:SK:90:VAL:HA	55:SK:91:PRO:HD3	1.73	0.42
56:SL:86:ILE:HD13	56:SL:113:LEU:CD1	2.49	0.42
58:SQ:50:LYS:C	58:SQ:53:GLU:HG3	2.44	0.42
61:ST:28:LEU:HD11	61:ST:53:PHE:CE1	2.55	0.42
63:SV:73:ALA:HA	63:SV:76:ASP:HB2	2.02	0.42
68:Sg:42:MET:C	68:Sg:56:GLN:HB3	2.45	0.42
68:Sg:178:ASN:OD1	68:Sg:183:LYS:HB3	2.20	0.42
68:Sg:185:LYS:HG2	68:Sg:186:THR:H	1.83	0.42
68:Sg:236:ILE:HG12	68:Sg:257:LYS:HZ1	1.85	0.42
70:SG:70:HIS:HA	70:SG:98:ARG:CZ	2.48	0.42
70:SG:76:LEU:CD2	70:SG:92:ARG:HD2	2.39	0.42
72:SM:41:ALA:O	72:SM:44:LYS:HB3	2.20	0.42
72:SM:117:GLU:O	72:SM:120:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:SN:8:GLY:O	73:SN:9:LYS:HB2	2.19	0.42
74:SO:81:VAL:O	74:SO:85:CYS:N	2.50	0.42
74:SO:93:LEU:HD12	74:SO:93:LEU:C	2.45	0.42
76:SY:18:LEU:C	76:SY:20:ARG:N	2.68	0.42
76:SY:77:ASP:OD1	76:SY:78:SER:N	2.53	0.42
80:Sf:127:GLY:C	80:Sf:130:VAL:HG23	2.45	0.42
1:L5:21:G:C2'	1:L5:22:G:H5'	2.50	0.41
1:L5:89:C:H2'	1:L5:90:G:H5"	2.02	0.41
1:L5:92:C:O2	1:L5:92:C:O2'	2.27	0.41
1:L5:101:A:O2'	14:LL:63:THR:HG22	2.20	0.41
1:L5:281:U:H2'	1:L5:282:C:C5'	2.50	0.41
1:L5:356:G:O2'	3:L8:25:G:N2	2.51	0.41
1:L5:507:G:H3'	1:L5:508:G:H8	1.84	0.41
1:L5:726:G:H2'	1:L5:727:C:H5'	2.01	0.41
1:L5:1233:G:C2	1:L5:1234:G:N1	2.88	0.41
1:L5:1338:G:N1	29:La:25:HIS:HD2	2.11	0.41
1:L5:1517:G:N3	1:L5:1517:G:C2'	2.83	0.41
1:L5:1766:A:H5"	1:L5:1767:A:H5'	2.02	0.41
1:L5:1836:G:N2	1:L5:1837:A:C4	2.88	0.41
1:L5:1929:A:H1'	1:L5:1932:A:C1'	2.50	0.41
1:L5:1968:G:N2	1:L5:1969:G:H1'	2.34	0.41
1:L5:1969:G:O2'	1:L5:1970:A:OP1	2.34	0.41
1:L5:1969:G:N1	1:L5:2019:C:N3	2.53	0.41
1:L5:2102:G:H5'	1:L5:2103:G:OP2	2.20	0.41
1:L5:2259:G:H5"	1:L5:2260:C:C5'	2.50	0.41
1:L5:2318:G:N1	1:L5:2322:G:C6	2.88	0.41
1:L5:2348:G:OP1	1:L5:2351:C:N4	2.53	0.41
1:L5:2401:A:C6	1:L5:2402:G:N7	2.88	0.41
1:L5:2442:G:N1	1:L5:2443:G:C5	2.88	0.41
1:L5:2799:G:H2'	1:L5:2800:G:H8	1.85	0.41
1:L5:3701:C:N4	1:L5:3746:A:C4	2.88	0.41
1:L5:3795:A:N1	1:L5:3806:G:C6	2.87	0.41
1:L5:3891:A:H8	1:L5:3891:A:O5'	2.03	0.41
1:L5:3972:A:N6	46:Lz:105:LYS:HE3	2.35	0.41
1:L5:4142:C:H5"	1:L5:4143:G:C5	2.55	0.41
1:L5:4303:C:N3	1:L5:4305:G:C6	2.87	0.41
1:L5:4366:A:C2	1:L5:4367:G:C4	3.08	0.41
1:L5:4393:G:C4	1:L5:4447:C:C4	3.07	0.41
1:L5:4672:A:C2	1:L5:4673:U:N3	2.88	0.41
1:L5:4978:G:H5"	1:L5:4978:G:N3	2.35	0.41
1:L5:5020:G:H2'	1:L5:5021:C:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:LB:213:GLN:O	5:LB:284:ILE:HB	2.20	0.41
6:LC:25:PRO:HD3	6:LC:257:PHE:CZ	2.55	0.41
6:LC:187:GLN:HA	6:LC:202:ILE:O	2.20	0.41
8:LE:69:TYR:O	8:LE:70:LYS:HB3	2.20	0.41
8:LE:70:LYS:HG2	8:LE:70:LYS:O	2.19	0.41
8:LE:96:VAL:HG11	8:LE:105:ARG:N	2.35	0.41
8:LE:116:TYR:HE2	45:Lr:111:ILE:HG21	1.84	0.41
10:LG:45:ILE:HD12	10:LG:45:ILE:O	2.20	0.41
10:LG:208:ASN:HB3	10:LG:210:GLU:OE1	2.19	0.41
12:LI:57:TYR:HB2	12:LI:131:ILE:HG13	2.02	0.41
16:LN:47:LYS:CE	16:LN:51:LEU:HD11	2.49	0.41
17:LO:110:PRO:N	17:LO:111:PRO:CD	2.83	0.41
18:LP:60:PHE:O	18:LP:78:TRP:CH2	2.72	0.41
20:LR:126:LYS:HB3	20:LR:132:PHE:HE2	1.84	0.41
20:LR:168:GLU:CA	20:LR:171:LYS:HG2	2.45	0.41
24:LV:116:ALA:O	24:LV:117:ILE:HG13	2.20	0.41
26:LX:41:ARG:C	26:LX:42:THR:HG22	2.44	0.41
27:LY:86:GLN:HB3	27:LY:94:THR:HB	2.03	0.41
32:Ld:39:LYS:O	32:Ld:77:ILE:HD11	2.20	0.41
32:Ld:42:ALA:O	32:Ld:45:ALA:HB3	2.20	0.41
33:Le:24:GLN:HA	33:Le:26:ASP:OD1	2.20	0.41
36:Lh:5:LYS:HD3	36:Lh:7:ARG:HH21	1.85	0.41
38:Lj:83:THR:HA	38:Lj:84:PRO:HD3	1.77	0.41
41:Lm:110:CYS:SG	41:Lm:112:LYS:HB2	2.60	0.41
42:Ln:10:MET:HE2	42:Ln:10:MET:HB2	1.91	0.41
43:Lo:23:VAL:HG12	43:Lo:24:THR:N	2.34	0.41
45:Lr:31:ASN:CG	45:Lr:34:ALA:CA	2.90	0.41
45:Lr:66:ARG:HG2	45:Lr:76:SER:O	2.20	0.41
47:S2:70:G:N1	47:S2:80:G:C6	2.88	0.41
47:S2:79:A:C6	47:S2:80:G:H1'	2.55	0.41
47:S2:147:A:N1	47:S2:173:A:C2	2.88	0.41
47:S2:412:G:H21	47:S2:812:A:H61	1.68	0.41
47:S2:433:A:O2'	47:S2:434:G:H5'	2.20	0.41
47:S2:696:G:H2'	47:S2:734:C:C2	2.55	0.41
47:S2:961:G:H5"	47:S2:962:A:OP2	2.20	0.41
47:S2:1099:G:C2	47:S2:1100:A:C5	3.07	0.41
47:S2:1115:U:H4'	47:S2:1116:C:OP2	2.15	0.41
47:S2:1290:G:H2'	47:S2:1291:A:C1'	2.50	0.41
47:S2:1391:C:H3'	47:S2:1391:C:H6	1.85	0.41
47:S2:1480:A:C2	47:S2:1481:G:C4	3.07	0.41
47:S2:1591:C:C4'	52:SF:85:LYS:HE2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:7:VAL:HG21	63:SV:42:VAL:C	2.45	0.41
48:SA:57:LYS:HD3	63:SV:83:PHE:HZ	1.85	0.41
50:SD:48:ILE:HG12	50:SD:85:GLU:O	2.20	0.41
51:SE:207:VAL:CG1	51:SE:219:ALA:HB1	2.50	0.41
51:SE:210:VAL:CG1	51:SE:211:LYS:N	2.82	0.41
52:SF:152:TRP:O	52:SF:155:CYS:N	2.52	0.41
54:SI:57:ALA:CB	54:SI:60:LEU:HD11	2.50	0.41
55:SK:5:LYS:HD2	72:SM:29:ASP:HB2	2.01	0.41
58:SQ:22:VAL:HG12	58:SQ:23:ALA:N	2.35	0.41
59:SR:108:LEU:HD12	59:SR:108:LEU:N	2.34	0.41
60:SS:11:HIS:HB3	60:SS:12:ILE:HG13	2.02	0.41
62:SU:19:ARG:HG2	62:SU:117:ALA:HB1	2.02	0.41
68:Sg:107:ASP:C	68:Sg:125:ARG:HB3	2.45	0.41
68:Sg:122:SER:OG	68:Sg:130:LYS:O	2.32	0.41
70:SG:58:LYS:HG2	70:SG:59:GLN:N	2.34	0.41
70:SG:75:LEU:HD12	70:SG:75:LEU:O	2.20	0.41
70:SG:133:LEU:HD12	70:SG:133:LEU:N	2.34	0.41
73:SN:16:LEU:HG	73:SN:17:PRO:CD	2.35	0.41
73:SN:23:PRO:HG2	73:SN:26:LEU:HB2	2.02	0.41
74:SO:37:PHE:O	74:SO:39:ASP:N	2.52	0.41
75:SW:14:ILE:CG2	75:SW:25:VAL:HG21	2.31	0.41
76:SY:27:VAL:HG23	76:SY:40:ILE:HD12	2.01	0.41
76:SY:55:ILE:HG13	76:SY:75:ILE:CD1	2.50	0.41
78:Sb:21:LYS:O	78:Sb:22:LYS:HB2	2.20	0.41
79:Se:36:MET:O	79:Se:40:ARG:HG3	2.19	0.41
1:L5:87:A:C2	1:L5:98:A:C5	3.08	0.41
1:L5:101:A:H1'	29:La:66:ASN:HD21	1.85	0.41
1:L5:137:G:C2	1:L5:138:G:N3	2.88	0.41
1:L5:283:G:C1'	37:Li:82:ARG:HH12	2.26	0.41
1:L5:505:G:O2'	1:L5:506:C:H5'	2.19	0.41
1:L5:687:U:H5'	8:LE:94:LYS:HZ3	1.86	0.41
1:L5:955:G:N2	1:L5:956:A:C2	2.88	0.41
1:L5:1072:C:N4	8:LE:69:TYR:HB3	2.36	0.41
1:L5:1377:G:C2	1:L5:1379:C:C5	3.09	0.41
1:L5:1516:G:H3'	1:L5:1517:G:C5'	2.49	0.41
1:L5:1696:C:O2	1:L5:1698:C:N4	2.52	0.41
1:L5:1795:A:H1'	2:L7:79:U:O2'	2.20	0.41
1:L5:1816:C:N1	30:Lb:42:ASN:ND2	2.68	0.41
1:L5:1919:G:C4	21:LS:166:ARG:NH2	2.86	0.41
1:L5:1993:C:H3'	1:L5:1993:C:H6	1.85	0.41
1:L5:2096:G:N2	1:L5:2119:C:H5	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2329:U:O2'	1:L5:2330:G:H5'	2.20	0.41
1:L5:2638:G:O2'	1:L5:2639:U:H5'	2.20	0.41
1:L5:2703:G:H1'	1:L5:2714:G:N2	2.36	0.41
1:L5:2720:C:H2'	1:L5:2721:G:O4'	2.20	0.41
1:L5:2775:C:O2'	1:L5:2776:G:P	2.78	0.41
1:L5:2793:G:C6	1:L5:2797:C:C4	3.08	0.41
1:L5:2861:C:C2'	1:L5:2862:G:H5'	2.50	0.41
1:L5:3811:G:N2	1:L5:3814:U:H1'	2.35	0.41
1:L5:3873:G:N2	1:L5:3874:G:C2	2.88	0.41
1:L5:4398:C:C2'	1:L5:4399:U:H5'	2.50	0.41
1:L5:4621:C:H2'	1:L5:4622:A:C8	2.55	0.41
1:L5:4691:A:O3'	11:LH:71:ARG:HD3	2.20	0.41
1:L5:4769:G:N2	1:L5:4865:C:H42	2.17	0.41
1:L5:4931:G:C5	1:L5:4932:U:C5	3.08	0.41
2:L7:47:G:H1	2:L7:48:G:N2	2.17	0.41
2:L7:75:G:O2'	2:L7:76:U:OP2	2.37	0.41
3:L8:102:G:C6	3:L8:104:A:N6	2.89	0.41
4:LA:44:ILE:HD12	4:LA:87:PHE:CE1	2.35	0.41
4:LA:196:TRP:CZ3	4:LA:197:PRO:HG3	2.52	0.41
5:LB:55:HIS:HB3	5:LB:75:ALA:HA	2.02	0.41
5:LB:142:GLY:O	5:LB:146:LEU:HD13	2.19	0.41
5:LB:235:TRP:O	5:LB:236:HIS:HB2	2.21	0.41
5:LB:308:ASP:C	5:LB:309:LEU:HG	2.44	0.41
8:LE:96:VAL:HG11	8:LE:105:ARG:H	1.85	0.41
8:LE:141:ARG:NH2	8:LE:196:ALA:HB3	2.35	0.41
11:LH:50:LYS:CG	11:LH:51:LYS:N	2.78	0.41
13:LJ:118:LYS:HB3	13:LJ:119:TYR:H	1.54	0.41
14:LL:120:TYR:CE2	14:LL:124:LEU:HD12	2.54	0.41
20:LR:102:LEU:CD1	20:LR:127:VAL:CG1	2.98	0.41
20:LR:145:LEU:HD23	20:LR:145:LEU:O	2.20	0.41
20:LR:172:ARG:HG3	20:LR:176:ARG:HH22	1.85	0.41
21:LS:138:ARG:HB3	21:LS:139:ARG:NH1	2.34	0.41
22:LT:64:VAL:HG13	22:LT:72:VAL:HG13	2.02	0.41
24:LV:91:LYS:HA	24:LV:91:LYS:HD2	1.75	0.41
25:LW:92:ALA:O	25:LW:96:GLN:HG3	2.20	0.41
26:LX:78:LYS:HG2	26:LX:99:ILE:O	2.20	0.41
45:Lr:104:PRO:O	45:Lr:107:ARG:HG2	2.19	0.41
46:Lz:82:ILE:HG22	46:Lz:83:PRO:O	2.20	0.41
47:S2:150:A:H62	47:S2:168:C:N4	2.12	0.41
47:S2:416:U:C4	47:S2:417:C:C5	3.08	0.41
47:S2:665:G:C2	47:S2:671:A:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:786:G:H5'	70:SG:234:LEU:CB	2.20	0.41
47:S2:831:G:O2'	47:S2:832:G:H5'	2.21	0.41
47:S2:879:C:N4	47:S2:881:G:O6	2.53	0.41
47:S2:912:C:O2	47:S2:914:U:H1'	2.20	0.41
47:S2:1042:A:C2	47:S2:1043:G:H1'	2.55	0.41
47:S2:1232:U:OP2	60:SS:135:HIS:ND1	2.52	0.41
47:S2:1263:U:C5	47:S2:1264:C:C6	3.08	0.41
47:S2:1270:G:N2	47:S2:1513:C:H1'	2.35	0.41
47:S2:1314:U:C3'	47:S2:1315:U:H5'	2.50	0.41
47:S2:1337:C:O2	47:S2:1491:G:N2	2.53	0.41
47:S2:1794:C:O2'	47:S2:1795:G:H5'	2.20	0.41
47:S2:1831:A:H2'	47:S2:1832:A:H5'	2.02	0.41
48:SA:154:LEU:HB3	48:SA:157:VAL:CG2	2.50	0.41
48:SA:204:TYR:OH	48:SA:207:PRO:HD3	2.20	0.41
49:SB:85:LYS:HB2	49:SB:101:HIS:O	2.20	0.41
49:SB:128:LYS:HB3	49:SB:134:LEU:CD1	2.51	0.41
49:SB:223:PHE:CE2	49:SB:225:LEU:HA	2.55	0.41
51:SE:206:ASP:HB2	51:SE:222:LEU:HD22	2.01	0.41
51:SE:220:THR:CG2	51:SE:224:ASN:HB2	2.50	0.41
52:SF:167:LYS:HZ3	77:SZ:72:VAL:CG1	2.32	0.41
53:SH:141:GLY:HA3	53:SH:157:HIS:HB2	2.02	0.41
55:SK:30:PRO:O	55:SK:42:ASN:N	2.34	0.41
55:SK:58:VAL:HG22	55:SK:59:LYS:O	2.20	0.41
55:SK:84:HIS:CD2	72:SM:27:ILE:HD11	2.55	0.41
56:SL:18:GLN:HG3	56:SL:19:ASN:ND2	2.35	0.41
56:SL:65:ASN:HD22	56:SL:132:ARG:NH2	2.17	0.41
56:SL:99:TYR:HE2	64:SX:14:ARG:HB2	1.85	0.41
57:SP:96:VAL:O	57:SP:96:VAL:HG12	2.19	0.41
60:SS:39:ARG:HG3	61:ST:38:LYS:HE2	2.01	0.41
71:SJ:138:ARG:H	71:SJ:156:HIS:HB3	1.85	0.41
75:SW:95:PRO:HD3	75:SW:130:PHE:CB	2.49	0.41
76:SY:91:LEU:HD12	76:SY:91:LEU:N	2.34	0.41
1:L5:35:U:O2'	1:L5:1651:G:N2	2.54	0.41
1:L5:152:U:O3'	16:LN:56:LYS:HD2	2.20	0.41
1:L5:931:C:O2'	1:L5:932:A:C5'	2.67	0.41
1:L5:989:U:N3	1:L5:1065:G:O6	2.53	0.41
1:L5:1209:U:O2'	1:L5:1211:G:H5"	2.20	0.41
1:L5:1251:C:N3	1:L5:1252:C:C2	2.89	0.41
1:L5:1422:G:H2'	1:L5:1423:U:H6	1.85	0.41
1:L5:1690:C:C6	19:LQ:13:VAL:HG11	2.55	0.41
1:L5:1873:A:OP2	30:Lb:5:LYS:HE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2294:G:C2	1:L5:2295:C:C2	3.08	0.41
1:L5:2318:G:OP2	33:Le:14:LYS:HE3	2.21	0.41
1:L5:2375:A:H2	1:L5:2386:U:N3	2.18	0.41
1:L5:2379:A:N6	1:L5:2380:G:C2	2.88	0.41
1:L5:2476:G:N1	1:L5:2501:C:N3	2.58	0.41
1:L5:2518:G:H5"	1:L5:2519:U:OP2	2.21	0.41
1:L5:2635:U:C2'	1:L5:2636:U:H5'	2.50	0.41
1:L5:2733:C:C2'	1:L5:2734:U:H5'	2.51	0.41
1:L5:2787:A:H2	1:L5:2801:U:H3	1.66	0.41
1:L5:2827:G:H4'	1:L5:2829:U:OP2	2.20	0.41
1:L5:2854:G:H2'	1:L5:2855:G:O5'	2.20	0.41
1:L5:2899:C:OP1	20:LR:108:ARG:NH2	2.44	0.41
1:L5:2909:C:H5'	1:L5:2910:G:OP1	2.20	0.41
1:L5:3648:A:H1'	1:L5:3785:A:N6	2.35	0.41
1:L5:3913:G:C2	1:L5:4390:A:C2	3.07	0.41
1:L5:3965:A:C8	1:L5:4048:A:C2	3.08	0.41
1:L5:4128:A:C8	1:L5:4129:G:N7	2.89	0.41
1:L5:4296:U:C4	1:L5:4315:A:C2	3.09	0.41
1:L5:4308:C:H2'	1:L5:4309:G:C5'	2.50	0.41
1:L5:4461:C:C2'	1:L5:4462:C:H5'	2.50	0.41
1:L5:4503:A:C6	1:L5:4504:C:N3	2.89	0.41
1:L5:4568:A:N3	1:L5:4568:A:H2'	2.36	0.41
1:L5:4687:A:N6	1:L5:4704:C:N4	2.68	0.41
1:L5:4763:U:OP2	21:LS:175:PHE:HB2	2.20	0.41
1:L5:4986:G:C2'	1:L5:4987:C:H5'	2.50	0.41
2:L7:114:U:O2'	7:LD:74:ILE:HG12	2.20	0.41
3:L8:29:G:H2'	3:L8:30:U:H5'	2.02	0.41
3:L8:107:C:H3'	3:L8:107:C:H6	1.85	0.41
4:LA:108:PRO:O	4:LA:111:THR:OG1	2.37	0.41
5:LB:46:PHE:CE2	5:LB:81:THR:CG2	2.99	0.41
5:LB:225:GLY:O	5:LB:226:LYS:HG3	2.19	0.41
6:LC:161:TYR:HD1	6:LC:166:GLU:OE2	2.03	0.41
7:LD:92:LEU:O	7:LD:93:THR:CB	2.67	0.41
7:LD:129:GLU:HB2	7:LD:177:THR:CG2	2.47	0.41
7:LD:160:PHE:C	7:LD:163:LEU:H	2.27	0.41
7:LD:232:THR:HB	7:LD:233:PRO:HD2	2.02	0.41
7:LD:232:THR:N	7:LD:235:MET:SD	2.91	0.41
8:LE:104:THR:HG22	8:LE:105:ARG:N	2.36	0.41
10:LG:63:LEU:HD21	16:LN:33:LEU:CD1	2.50	0.41
14:LL:170:THR:CB	14:LL:173:GLU:HG2	2.43	0.41
15:LM:47:ARG:HD2	15:LM:70:GLN:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:LQ:85:THR:HG22	19:LQ:104:ARG:CD	2.51	0.41
20:LR:13:SER:CB	20:LR:38:ARG:HH11	2.33	0.41
20:LR:136:ARG:HG3	20:LR:137:ILE:N	2.35	0.41
20:LR:187:THR:O	20:LR:187:THR:HG22	2.18	0.41
21:LS:149:LYS:O	21:LS:149:LYS:HG3	2.20	0.41
25:LW:105:ARG:HD2	70:SG:149:LYS:HD2	2.00	0.41
27:LY:89:LYS:HD2	27:LY:95:VAL:HG21	2.02	0.41
28:LZ:73:LYS:HB3	28:LZ:75:TYR:CE2	2.55	0.41
28:LZ:89:ILE:HA	28:LZ:90:PRO:HD3	1.70	0.41
29:La:73:VAL:O	29:La:73:VAL:HG13	2.20	0.41
29:La:98:ALA:HB1	29:La:123:ILE:HG13	2.01	0.41
32:Ld:108:TYR:CE2	32:Ld:110:PRO:CB	3.03	0.41
34:Lf:7:SER:N	34:Lf:103:VAL:O	2.51	0.41
41:Lm:95:ILE:HD12	41:Lm:102:ARG:HA	2.01	0.41
43:Lo:103:VAL:O	43:Lo:104:ILE:HG12	2.20	0.41
47:S2:30:C:O2	47:S2:596:U:H4'	2.20	0.41
47:S2:46:A:C5	47:S2:473:A:C2	3.07	0.41
47:S2:70:G:N1	47:S2:80:G:O6	2.53	0.41
47:S2:113:G:C4	47:S2:292:A:C2	3.07	0.41
47:S2:140:C:H42	47:S2:144:U:C1'	2.33	0.41
47:S2:531:A:H3'	47:S2:531:A:C8	2.56	0.41
47:S2:532:C:N4	47:S2:552:G:C6	2.88	0.41
47:S2:577:U:H2'	47:S2:578:C:H5'	2.01	0.41
47:S2:580:U:C2	47:S2:581:U:H1'	2.55	0.41
47:S2:581:U:O4	47:S2:582:C:N4	2.52	0.41
47:S2:595:U:C5'	47:S2:643:A:H61	2.33	0.41
47:S2:634:A:N3	47:S2:635:G:C8	2.89	0.41
47:S2:818:A:C3'	47:S2:819:G:C5'	2.98	0.41
47:S2:874:G:H2'	47:S2:875:A:H1'	2.01	0.41
47:S2:1050:A:C2'	47:S2:1051:G:H5'	2.48	0.41
47:S2:1394:G:H2'	47:S2:1395:C:H6	1.85	0.41
47:S2:1397:U:C2	47:S2:1442:U:H1'	2.54	0.41
48:SA:91:ALA:HA	48:SA:94:THR:OG1	2.20	0.41
48:SA:122:LEU:HB2	48:SA:142:LEU:HD21	2.01	0.41
50:SD:67:ARG:HA	50:SD:70:THR:HG22	2.02	0.41
50:SD:138:VAL:O	50:SD:138:VAL:HG12	2.21	0.41
50:SD:195:THR:CA	50:SD:199:GLY:HA3	2.50	0.41
51:SE:42:LEU:HG	51:SE:46:ILE:HD11	2.03	0.41
51:SE:210:VAL:HG12	51:SE:211:LYS:N	2.34	0.41
52:SF:24:SER:OG	52:SF:108:PRO:HD2	2.20	0.41
52:SF:72:LEU:CD1	52:SF:112:LEU:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:SI:36:THR:O	54:SI:95:THR:HA	2.21	0.41
58:SQ:116:ASP:OD1	58:SQ:119:LEU:HB2	2.21	0.41
61:ST:107:LEU:O	61:ST:112:MET:HB2	2.20	0.41
68:Sg:10:THR:O	68:Sg:52:TYR:HB2	2.20	0.41
68:Sg:41:ILE:HG22	68:Sg:42:MET:O	2.20	0.41
68:Sg:231:ASP:OD1	68:Sg:232:GLY:N	2.54	0.41
69:SC:227:ARG:HD2	69:SC:227:ARG:HA	1.86	0.41
69:SC:269:PHE:HB3	69:SC:272:HIS:NE2	2.35	0.41
70:SG:19:ASP:HB3	70:SG:22:ARG:NH1	2.20	0.41
70:SG:39:ASP:CB	70:SG:46:LYS:HA	2.51	0.41
70:SG:44:GLU:C	70:SG:46:LYS:H	2.27	0.41
70:SG:160:LYS:HA	70:SG:161:PRO:HD3	1.82	0.41
71:SJ:57:ALA:HB3	71:SJ:98:LEU:HD21	2.02	0.41
71:SJ:169:ARG:HH12	71:SJ:175:ARG:NH2	2.12	0.41
72:SM:58:GLU:HB2	72:SM:61:TYR:CD1	2.55	0.41
72:SM:94:ILE:CG1	72:SM:95:ASP:N	2.82	0.41
72:SM:98:GLY:O	72:SM:99:ASN:HB2	2.20	0.41
76:SY:6:THR:CG2	76:SY:7:ILE:H	2.32	0.41
80:Sf:118:ARG:HA	80:Sf:118:ARG:HD3	1.89	0.41
1:L5:48:G:H2'	16:LN:188:ARG:HH12	1.86	0.41
1:L5:377:A:H2'	1:L5:378:A:H5'	2.02	0.41
1:L5:727:C:OP1	9:LF:76:ARG:NH2	2.52	0.41
1:L5:1323:A:N6	1:L5:1324:A:C2	2.89	0.41
1:L5:1847:C:C4	1:L5:1848:C:N4	2.89	0.41
1:L5:1945:G:C2	1:L5:1946:G:C4	3.08	0.41
1:L5:2244:C:H2'	1:L5:2245:G:C8	2.55	0.41
1:L5:2296:G:C2	1:L5:2339:G:C2	3.08	0.41
1:L5:2461:G:O2'	1:L5:2462:C:O5'	2.38	0.41
1:L5:2483:G:O2'	1:L5:2496:G:N2	2.52	0.41
1:L5:2544:G:N1	3:L8:126:C:C4	2.89	0.41
1:L5:2799:G:O5'	1:L5:2799:G:H8	2.03	0.41
1:L5:2822:G:H5'	20:LR:18:GLY:CA	2.49	0.41
1:L5:2844:A:C2	1:L5:3845:A:C2	3.08	0.41
1:L5:3603:G:C2	1:L5:3604:A:C2	3.08	0.41
1:L5:3635:A:N6	44:Lp:18:TYR:H	2.18	0.41
1:L5:3687:A:H2	1:L5:3688:U:C2	2.36	0.41
1:L5:3710:G:H2'	1:L5:3712:A:N1	2.34	0.41
1:L5:3943:A:C2	1:L5:3944:G:C8	3.08	0.41
1:L5:4315:A:N6	1:L5:4329:G:O6	2.53	0.41
1:L5:4356:G:C2'	1:L5:4357:G:H5'	2.50	0.41
1:L5:4603:C:N4	1:L5:4609:G:N2	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4683:U:H5	1:L5:4706:G:N2	2.17	0.41
1:L5:4775:C:N4	1:L5:4861:G:O6	2.53	0.41
1:L5:4960:G:H21	1:L5:4961:G:H2'	1.85	0.41
1:L5:5061:A:C5	5:LB:123:HIS:HE1	2.38	0.41
2:L7:13:A:C2	2:L7:110:G:C6	3.09	0.41
2:L7:58:A:N6	2:L7:59:G:O6	2.54	0.41
2:L7:115:A:C2	2:L7:116:G:C4	3.08	0.41
3:L8:31:G:H8	3:L8:31:G:O5'	2.03	0.41
5:LB:53:MET:O	5:LB:54:THR:HG23	2.19	0.41
6:LC:7:LEU:HD23	6:LC:7:LEU:C	2.45	0.41
6:LC:350:ARG:O	6:LC:353:LYS:HB2	2.21	0.41
8:LE:237:LYS:HE2	8:LE:241:GLU:CD	2.45	0.41
9:LF:88:LYS:HG2	22:LT:135:PRO:HG2	2.03	0.41
9:LF:242:ARG:O	9:LF:245:ARG:HB2	2.21	0.41
10:LG:31:LEU:HD11	28:LZ:122:TYR:OH	2.20	0.41
10:LG:74:LEU:HD12	10:LG:74:LEU:N	2.35	0.41
10:LG:224:THR:HA	10:LG:228:ASP:OD2	2.21	0.41
11:LH:173:ARG:HG2	41:Lm:127:VAL:CB	2.51	0.41
12:LI:85:PHE:HE2	12:LI:87:MET:CE	2.22	0.41
12:LI:95:HIS:O	12:LI:125:THR:HG23	2.20	0.41
12:LI:99:ILE:O	12:LI:99:ILE:HG23	2.19	0.41
12:LI:210:ARG:C	12:LI:214:SER:HB3	2.45	0.41
13:LJ:141:ILE:HG13	13:LJ:142:ALA:N	2.35	0.41
15:LM:64:PHE:HE1	15:LM:76:ALA:CB	2.27	0.41
16:LN:48:ALA:O	16:LN:53:TYR:HB2	2.19	0.41
16:LN:116:LEU:HD12	16:LN:159:ARG:NH2	2.35	0.41
17:LO:152:VAL:O	17:LO:155:THR:OG1	2.27	0.41
19:LQ:60:PRO:HB3	19:LQ:85:THR:OG1	2.20	0.41
21:LS:80:ILE:CG2	21:LS:126:ILE:HG12	2.47	0.41
27:LY:50:ARG:N	27:LY:53:ASP:OD2	2.51	0.41
35:Lg:53:LEU:HG	35:Lg:54:ARG:N	2.34	0.41
35:Lg:76:ARG:HG2	35:Lg:77:ALA:N	2.35	0.41
36:Lh:91:MET:SD	38:Lj:78:PHE:HD2	2.43	0.41
37:Li:84:LYS:O	37:Li:88:GLU:HG2	2.21	0.41
47:S2:155:G:H4'	70:SG:15:LEU:HD12	1.99	0.41
47:S2:373:G:C4	47:S2:392:A:C2	3.08	0.41
47:S2:938:A:N3	47:S2:939:U:H1'	2.34	0.41
47:S2:988:C:H6	47:S2:988:C:O5'	2.03	0.41
47:S2:1125:C:H2'	47:S2:1126:G:O4'	2.21	0.41
47:S2:1131:G:N1	47:S2:1132:C:C4	2.89	0.41
47:S2:1184:G:C6	47:S2:1185:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1271:C:H5"	80:Sf:92:LYS:NZ	2.36	0.41
47:S2:1272:C:C4	47:S2:1506:A:N1	2.87	0.41
47:S2:1451:G:O2'	47:S2:1452:A:N7	2.47	0.41
47:S2:1521:C:H2'	47:S2:1521:C:H6	1.69	0.41
47:S2:1655:C:OP1	61:ST:92:PHE:N	2.53	0.41
47:S2:1715:A:OP2	47:S2:1715:A:H8	2.02	0.41
47:S2:1823:A:C1'	47:S2:1824:A:H3'	2.46	0.41
48:SA:152:SER:HA	48:SA:153:PRO:HD2	1.79	0.41
49:SB:167:LYS:O	49:SB:170:GLU:HB2	2.20	0.41
50:SD:119:CYS:SG	50:SD:138:VAL:HG21	2.59	0.41
50:SD:222:PRO:HB2	50:SD:223:ILE:H	1.67	0.41
52:SF:41:VAL:HG22	52:SF:41:VAL:O	2.21	0.41
52:SF:194:ASP:HA	52:SF:197:GLU:CD	2.46	0.41
57:SP:59:ARG:O	57:SP:63:ALA:N	2.53	0.41
58:SQ:12:VAL:HG11	58:SQ:90:LYS:HB2	2.03	0.41
60:SS:90:VAL:CG1	60:SS:91:LYS:N	2.81	0.41
61:ST:40:ALA:C	61:ST:42:HIS:H	2.28	0.41
62:SU:88:LEU:C	62:SU:88:LEU:HD12	2.46	0.41
64:SX:133:LEU:HD22	64:SX:139:GLU:O	2.20	0.41
65:Sa:49:ALA:CB	74:SO:117:ARG:HH21	2.20	0.41
66:Sc:23:SER:O	66:Sc:26:GLN:HB2	2.21	0.41
68:Sg:260:ASP:HB2	68:Sg:265:ILE:O	2.20	0.41
69:SC:108:LYS:CG	69:SC:109:ILE:N	2.83	0.41
70:SG:128:THR:C	70:SG:130:PRO:CD	2.93	0.41
72:SM:18:LEU:HB2	72:SM:84:LYS:HZ3	1.82	0.41
74:SO:92:ALA:HA	74:SO:125:LYS:HB2	2.02	0.41
1:L5:15:A:C6	1:L5:16:G:C6	3.08	0.41
1:L5:98:A:N3	1:L5:98:A:C2'	2.83	0.41
1:L5:352:G:N7	6:LC:197:ARG:NH2	2.68	0.41
1:L5:646:G:N1	1:L5:647:G:C4	2.88	0.41
1:L5:697:G:O2'	1:L5:698:G:H5'	2.20	0.41
1:L5:922:C:C5	1:L5:923:C:C5	3.09	0.41
1:L5:930:G:H4'	1:L5:931:C:O4'	2.20	0.41
1:L5:979:C:H2'	1:L5:980:U:H5'	2.02	0.41
1:L5:1328:G:C2'	1:L5:1329:G:H5'	2.51	0.41
1:L5:1351:G:C5	1:L5:1506:G:N2	2.88	0.41
1:L5:1511:U:H2'	1:L5:1512:G:H5'	2.01	0.41
1:L5:1539:G:H1'	4:LA:15:VAL:HG13	2.02	0.41
1:L5:1558:A:C2	1:L5:1570:G:C2	3.08	0.41
1:L5:1590:C:H4'	1:L5:1591:U:OP2	2.21	0.41
1:L5:1630:A:H2	1:L5:3638:G:N3	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1674:C:N3	1:L5:1682:A:C2	2.88	0.41
1:L5:1877:G:C2'	1:L5:1878:G:H5'	2.50	0.41
1:L5:1882:U:C5	1:L5:2279:A:C2	3.09	0.41
1:L5:1944:A:C6	1:L5:1945:G:N7	2.89	0.41
1:L5:2053:C:P	17:LO:17:GLY:HA3	2.60	0.41
1:L5:2096:G:N3	1:L5:2096:G:H2'	2.35	0.41
1:L5:2261:G:H3'	1:L5:2262:G:N7	2.35	0.41
1:L5:2287:G:C6	1:L5:2288:G:C5	3.08	0.41
1:L5:2410:C:H5"	1:L5:2411:C:OP2	2.20	0.41
1:L5:2463:G:C6	1:L5:2464:C:N4	2.88	0.41
1:L5:2605:G:H2'	1:L5:2606:G:O4'	2.20	0.41
1:L5:2793:G:H21	38:Lj:5:THR:CG2	2.28	0.41
1:L5:2818:C:C2'	1:L5:2819:U:O5'	2.68	0.41
1:L5:2884:G:C2	1:L5:2885:A:C4	3.09	0.41
1:L5:4114:C:H5'	1:L5:4115:G:N2	2.35	0.41
1:L5:4283:G:N2	1:L5:4284:C:H1'	2.36	0.41
1:L5:4525:C:N3	1:L5:4526:U:N3	2.69	0.41
1:L5:4538:G:N2	1:L5:4549:G:C4	2.88	0.41
1:L5:4566:U:OP1	5:LB:264:PHE:HB2	2.20	0.41
1:L5:4590:A:N6	1:L5:4676:G:N1	2.69	0.41
1:L5:4618:G:C2	1:L5:4619:U:C5	3.08	0.41
1:L5:5006:U:O2	1:L5:5006:U:O2'	2.30	0.41
3:L8:3:A:N7	3:L8:4:C:C4	2.89	0.41
3:L8:62:A:H5"	3:L8:63:U:O4'	2.21	0.41
3:L8:73:U:H2'	3:L8:74:U:O4'	2.20	0.41
3:L8:138:C:O5'	3:L8:138:C:H6	2.03	0.41
4:LA:38:HIS:HA	4:LA:92:LYS:HE2	2.02	0.41
4:LA:178:PRO:CG	44:Lp:26:VAL:CG1	2.98	0.41
6:LC:35:ASP:O	6:LC:38:ASN:HB3	2.20	0.41
6:LC:158:VAL:HG12	6:LC:217:ILE:CD1	2.37	0.41
6:LC:309:ILE:O	6:LC:309:ILE:HG22	2.21	0.41
7:LD:82:GLU:HG3	7:LD:86:TYR:CE2	2.55	0.41
8:LE:47:ASN:HA	8:LE:65:ARG:NH1	2.33	0.41
8:LE:82:LYS:O	8:LE:82:LYS:HG2	2.21	0.41
8:LE:149:ILE:HG22	8:LE:150:LEU:N	2.36	0.41
8:LE:153:LEU:HD21	8:LE:195:ILE:HD12	2.01	0.41
9:LF:93:ILE:HD13	9:LF:247:MET:HE1	1.99	0.41
9:LF:162:ILE:HG12	9:LF:167:ILE:CG1	2.51	0.41
10:LG:136:LEU:HA	10:LG:203:ALA:O	2.20	0.41
10:LG:170:LEU:N	10:LG:171:PRO:CD	2.84	0.41
11:LH:44:GLU:HG2	15:LM:2:VAL:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:LI:115:MET:HG2	12:LI:115:MET:O	2.21	0.41
13:LJ:46:GLN:CB	13:LJ:72:CYS:SG	3.09	0.41
16:LN:47:LYS:CD	16:LN:50:ARG:NH1	2.80	0.41
17:LO:34:VAL:HG11	17:LO:112:TYR:CD2	2.56	0.41
23:LU:28:PRO:HG2	23:LU:29:VAL:H	1.85	0.41
25:LW:28:VAL:HG12	25:LW:28:VAL:O	2.20	0.41
25:LW:98:PRO:CB	25:LW:105:ARG:NH1	2.83	0.41
47:S2:30:C:H4'	64:SX:137:LYS:HZ2	1.85	0.41
47:S2:58:C:H1'	47:S2:59:U:C5	2.56	0.41
47:S2:105:U:O5'	47:S2:105:U:H6	2.03	0.41
47:S2:150:A:H5"	76:SY:120:THR:HG22	2.02	0.41
47:S2:161:U:H4'	76:SY:116:LYS:CG	2.50	0.41
47:S2:468:A:OP1	70:SG:96:SER:HB2	2.21	0.41
47:S2:649:U:OP1	64:SX:108:LYS:HA	2.19	0.41
47:S2:934:G:P	47:S2:993:G:H21	2.42	0.41
47:S2:955:A:H2	47:S2:968:U:O2	2.03	0.41
47:S2:1042:A:N1	47:S2:1043:G:C4	2.88	0.41
47:S2:1070:A:N6	47:S2:1071:G:N3	2.68	0.41
47:S2:1092:G:H4'	75:SW:2:VAL:O	2.20	0.41
47:S2:1143:A:N7	47:S2:1144:A:C6	2.88	0.41
47:S2:1426:U:H5'	58:SQ:1:MET:HG2	2.00	0.41
47:S2:1514:G:H2'	47:S2:1514:G:N3	2.34	0.41
47:S2:1525:C:H6	47:S2:1525:C:H3'	1.86	0.41
47:S2:1530:U:C1'	61:ST:87:VAL:HG23	2.41	0.41
47:S2:1681:U:H2'	47:S2:1682:C:C6	2.56	0.41
48:SA:17:LYS:HZ3	48:SA:176:TRP:HH2	1.66	0.41
48:SA:76:VAL:HG12	48:SA:77:ILE:N	2.35	0.41
48:SA:89:LYS:CB	48:SA:202:TYR:HE1	2.33	0.41
48:SA:89:LYS:HZ1	59:SR:81:ARG:HG3	1.83	0.41
49:SB:53:GLN:HG3	49:SB:54:GLY:H	1.86	0.41
50:SD:143:ARG:O	50:SD:143:ARG:HG3	2.19	0.41
50:SD:150:MET:HE2	50:SD:152:PHE:CE1	2.56	0.41
51:SE:92:ILE:CB	51:SE:95:THR:HG22	2.47	0.41
51:SE:197:ASN:OD1	51:SE:198:ARG:N	2.54	0.41
53:SH:147:LYS:O	53:SH:149:ASP:N	2.48	0.41
54:SI:10:LYS:HE2	56:SL:136:LYS:HE3	2.02	0.41
56:SL:5:GLN:OE1	56:SL:11:GLN:N	2.42	0.41
61:ST:9:VAL:CG1	61:ST:10:ASN:N	2.84	0.41
61:ST:14:PHE:HA	61:ST:17:ALA:CB	2.36	0.41
61:ST:28:LEU:HD21	61:ST:30:VAL:CG2	2.50	0.41
63:SV:27:LYS:HE3	69:SC:163:VAL:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Sa:43:ASN:HB3	65:Sa:64:LEU:HD23	1.99	0.41
68:Sg:62:HIS:CE1	68:Sg:88:ARG:HE	2.38	0.41
68:Sg:106:LYS:CB	68:Sg:126:ASP:HB2	2.26	0.41
68:Sg:248:LEU:HD21	68:Sg:257:LYS:HG2	2.03	0.41
69:SC:130:ILE:HD12	69:SC:216:MET:CE	2.51	0.41
69:SC:265:PRO:C	69:SC:268:GLU:H	2.28	0.41
70:SG:35:GLU:O	70:SG:49:VAL:HB	2.20	0.41
70:SG:35:GLU:OE2	70:SG:51:ARG:HD3	2.20	0.41
71:SJ:84:ILE:CG2	71:SJ:86:VAL:HG13	2.42	0.41
74:SO:43:HIS:HA	74:SO:55:ARG:HG3	2.01	0.41
74:SO:92:ALA:HA	74:SO:125:LYS:C	2.46	0.41
77:SZ:51:ASP:HB3	77:SZ:52:LYS:H	1.65	0.41
77:SZ:96:LEU:HD12	77:SZ:109:TYR:CE1	2.55	0.41
77:SZ:111:ARG:O	77:SZ:113:THR:N	2.42	0.41
80:Sf:130:VAL:HG12	80:Sf:131:PHE:N	2.34	0.41
1:L5:52:G:N2	1:L5:53:C:C2	2.88	0.41
1:L5:312:G:H21	1:L5:313:U:H1'	1.86	0.41
1:L5:467:U:C2	1:L5:468:U:H1'	2.55	0.41
1:L5:477:C:N3	1:L5:677:G:N2	2.67	0.41
1:L5:493:G:C6	1:L5:494:U:C4	3.09	0.41
1:L5:1185:G:C6	1:L5:1186:U:N3	2.89	0.41
1:L5:1453:G:C5	1:L5:1454:G:C8	3.08	0.41
1:L5:1590:C:H5'	1:L5:2856:C:O2'	2.20	0.41
1:L5:1592:G:C2	1:L5:1604:G:N2	2.89	0.41
1:L5:1666:C:C5	1:L5:1667:G:N7	2.88	0.41
1:L5:2392:C:H6	1:L5:2392:C:O5'	2.03	0.41
1:L5:2804:C:H1'	35:Lg:7:TYR:CE2	2.56	0.41
1:L5:2838:G:N2	1:L5:2839:U:C2	2.88	0.41
1:L5:3638:G:N2	1:L5:3639:U:C2	2.88	0.41
1:L5:3685:C:C6	1:L5:3685:C:C3'	3.04	0.41
1:L5:3906:A:O4'	1:L5:4448:G:H1'	2.20	0.41
1:L5:3975:C:H42	1:L5:4034:G:H5'	1.85	0.41
1:L5:4102:C:OP2	1:L5:4103:C:N4	2.44	0.41
1:L5:4193:C:H6	1:L5:4193:C:H3'	1.85	0.41
1:L5:4231:C:C5	43:Lo:2:VAL:HG12	2.56	0.41
1:L5:4426:C:C2'	1:L5:4427:G:H5'	2.30	0.41
1:L5:4574:U:H2'	1:L5:4575:G:OP1	2.21	0.41
1:L5:4670:C:H6	1:L5:4670:C:H3'	1.85	0.41
1:L5:4879:C:C3'	1:L5:4879:C:C6	3.04	0.41
1:L5:4899:G:N2	1:L5:4901:G:H1'	2.36	0.41
1:L5:5011:A:C2	1:L5:5038:A:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L7:26:C:OP1	7:LD:56:THR:OG1	2.34	0.41
3:L8:2:G:H2'	3:L8:3:A:H8	1.84	0.41
3:L8:62:A:OP1	36:Lh:52:LYS:NZ	2.42	0.41
4:LA:130:SER:CB	4:LA:174:ARG:HE	2.34	0.41
4:LA:209:HIS:HA	4:LA:210:PRO:HD3	1.90	0.41
5:LB:299:ILE:HG22	5:LB:299:ILE:O	2.19	0.41
7:LD:159:VAL:O	7:LD:162:ALA:HB3	2.19	0.41
8:LE:100:LYS:HG2	8:LE:100:LYS:O	2.21	0.41
8:LE:115:TYR:HE1	45:Lr:116:ALA:HA	1.86	0.41
9:LF:38:ALA:HA	9:LF:41:MET:HG2	2.01	0.41
9:LF:91:PHE:CZ	9:LF:120:GLY:HA3	2.55	0.41
9:LF:137:GLU:N	9:LF:138:PRO:CD	2.80	0.41
10:LG:141:ASN:OD1	16:LN:3:ALA:HB3	2.21	0.41
12:LI:93:PRO:HB2	12:LI:125:THR:HG22	2.02	0.41
14:LL:47:ALA:CB	14:LL:48:PRO:CD	2.90	0.41
17:LO:126:VAL:HG13	17:LO:127:VAL:HG23	2.01	0.41
21:LS:11:LYS:HE3	21:LS:63:TYR:CE2	2.55	0.41
21:LS:95:ARG:HH22	21:LS:112:ASP:CG	2.27	0.41
21:LS:147:ASP:CG	21:LS:149:LYS:H	2.28	0.41
23:LU:35:ASP:OD1	23:LU:38:ASN:HB3	2.20	0.41
24:LV:57:VAL:HG22	24:LV:124:GLU:OE1	2.21	0.41
24:LV:82:ILE:HG12	24:LV:102:ALA:O	2.20	0.41
25:LW:13:ILE:HD12	25:LW:30:GLN:HB3	2.03	0.41
25:LW:72:THR:OG1	25:LW:73:ARG:N	2.48	0.41
26:LX:83:THR:O	26:LX:86:ALA:HB3	2.21	0.41
26:LX:114:LYS:NZ	26:LX:120:ASP:HA	2.36	0.41
27:LY:66:GLN:OE1	27:LY:66:GLN:N	2.33	0.41
27:LY:100:HIS:CE1	27:LY:102:SER:HB3	2.55	0.41
29:La:44:ASN:O	29:La:47:LYS:N	2.42	0.41
32:Ld:28:ASN:ND2	32:Ld:31:LYS:HE3	2.32	0.41
33:Le:38:PRO:HB3	33:Le:43:ASN:HD22	1.86	0.41
36:Lh:59:THR:O	36:Lh:63:GLN:HG3	2.21	0.41
37:Li:102:ALA:HA	46:Lz:9:THR:HG22	2.02	0.41
38:Lj:58:THR:CG2	38:Lj:59:THR:N	2.83	0.41
46:Lz:42:ASP:CG	46:Lz:45:LYS:HB2	2.46	0.41
47:S2:108:G:N1	47:S2:354:U:N3	2.68	0.41
47:S2:207:G:C2	47:S2:208:G:H1'	2.56	0.41
47:S2:222:U:H2'	47:S2:223:C:C6	2.54	0.41
47:S2:376:A:C2	47:S2:377:G:C4	3.09	0.41
47:S2:634:A:O2'	47:S2:635:G:H5'	2.20	0.41
47:S2:955:A:H2'	47:S2:969:U:C4	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:999:G:C2	47:S2:1000:C:C2	3.08	0.41
47:S2:1109:C:O2'	47:S2:1110:G:P	2.79	0.41
47:S2:1395:C:H2'	47:S2:1395:C:O2	2.20	0.41
47:S2:1541:G:OP1	61:ST:56:ARG:HG3	2.21	0.41
47:S2:1566:G:H8	47:S2:1566:G:H3'	1.86	0.41
47:S2:1650:A:H5"	58:SQ:139:ALA:HB2	2.02	0.41
47:S2:1707:U:H2'	47:S2:1708:C:C5'	2.51	0.41
47:S2:1804:U:N3	47:S2:1805:G:N7	2.69	0.41
47:S2:1824:A:N3	47:S2:1824:A:H2'	2.34	0.41
48:SA:87:VAL:CG1	48:SA:98:PRO:HB3	2.50	0.41
48:SA:154:LEU:O	48:SA:157:VAL:HG22	2.20	0.41
48:SA:183:LEU:O	48:SA:186:ARG:N	2.52	0.41
48:SA:216:ALA:O	48:SA:220:LYS:HB3	2.20	0.41
49:SB:83:LYS:CE	49:SB:106:THR:HG22	2.49	0.41
49:SB:182:LYS:HD2	49:SB:231:LEU:HA	2.02	0.41
49:SB:207:LEU:HD13	49:SB:210:VAL:CG2	2.50	0.41
50:SD:46:THR:N	50:SD:83:SER:O	2.45	0.41
50:SD:58:VAL:C	50:SD:59:LEU:HD12	2.45	0.41
52:SF:49:LEU:HA	52:SF:50:PRO:HD3	1.84	0.41
52:SF:74:ASN:C	52:SF:77:MET:HE3	2.44	0.41
52:SF:204:ARG:HH22	66:Sc:63:ARG:HA	1.85	0.41
54:SI:48:VAL:HG11	54:SI:54:LYS:CD	2.39	0.41
54:SI:113:TYR:CD2	54:SI:121:LEU:HD13	2.56	0.41
54:SI:177:SER:HB2	54:SI:182:CYS:HG	1.86	0.41
55:SK:59:LYS:HG2	55:SK:70:TYR:HD2	1.86	0.41
58:SQ:118:THR:CB	58:SQ:121:VAL:HG23	2.51	0.41
59:SR:106:LEU:O	59:SR:109:LEU:N	2.41	0.41
62:SU:108:PRO:HD2	62:SU:110:VAL:HG22	2.03	0.41
65:Sa:59:PHE:HD2	65:Sa:62:TYR:HD2	1.68	0.41
67:Sd:6:LEU:CA	67:Sd:7:TYR:HB3	2.50	0.41
68:Sg:177:TRP:HZ3	68:Sg:184:LEU:HD12	1.86	0.41
68:Sg:229:THR:HG22	68:Sg:230:LEU:N	2.36	0.41
68:Sg:308:ARG:HD2	68:Sg:310:TRP:CH2	2.55	0.41
69:SC:78:LEU:HG	69:SC:97:PHE:CB	2.49	0.41
69:SC:246:LYS:HG2	69:SC:246:LYS:O	2.20	0.41
71:SJ:38:ARG:HG2	71:SJ:39:ASN:H	1.85	0.41
76:SY:22:GLN:HB3	76:SY:74:MET:HE3	2.03	0.41
76:SY:119:GLY:O	76:SY:124:ASN:ND2	2.54	0.41
1:L5:1:C:H3'	26:LX:37:LYS:CG	2.49	0.41
1:L5:183:C:OP1	1:L5:183:C:H4'	2.20	0.41
1:L5:308:G:O2'	37:Li:33:LEU:HD13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:676:C:H2'	1:L5:677:G:O4'	2.21	0.41
1:L5:735:G:N1	1:L5:736:C:C4	2.89	0.41
1:L5:739:G:H2'	1:L5:740:G:C4'	2.50	0.41
1:L5:754:U:H2'	1:L5:755:C:C6	2.55	0.41
1:L5:964:A:N3	1:L5:964:A:C3'	2.82	0.41
1:L5:964:A:OP1	45:Lr:107:ARG:NH2	2.49	0.41
1:L5:977:C:N3	1:L5:978:G:C2	2.89	0.41
1:L5:1341:U:O4	1:L5:1342:A:N6	2.54	0.41
1:L5:1507:C:C2'	1:L5:1508:A:H5'	2.51	0.41
1:L5:1581:G:C2'	1:L5:1582:U:H5"	2.51	0.41
1:L5:1633:G:O6	4:LA:207:VAL:HG21	2.20	0.41
1:L5:1665:C:H2'	1:L5:1666:C:C6	2.55	0.41
1:L5:1666:C:C2'	1:L5:1667:G:H5'	2.50	0.41
1:L5:1839:U:C2'	1:L5:1840:G:H5'	2.50	0.41
1:L5:1899:G:C5	1:L5:1900:C:C4	3.09	0.41
1:L5:1922:G:N2	1:L5:2063:G:C4	2.88	0.41
1:L5:2019:C:O2'	1:L5:2020:U:P	2.79	0.41
1:L5:2276:A:C6	1:L5:2277:C:N3	2.88	0.41
1:L5:2480:G:C5	1:L5:2481:G:H1'	2.56	0.41
1:L5:2588:C:H5"	1:L5:2589:C:OP1	2.21	0.41
1:L5:3896:C:N4	1:L5:3897:G:N1	2.69	0.41
1:L5:3912:U:C4	1:L5:3913:G:N7	2.88	0.41
1:L5:3927:U:H6	1:L5:3927:U:H3'	1.85	0.41
1:L5:3957:U:C5	1:L5:3964:U:H6	2.38	0.41
1:L5:4077:A:C5	1:L5:4170:A:C6	3.09	0.41
1:L5:4407:G:O6	1:L5:4434:C:N4	2.50	0.41
1:L5:4470:G:N3	1:L5:4684:A:H2	2.19	0.41
1:L5:4472:G:C2	1:L5:4484:A:N3	2.89	0.41
1:L5:4637:G:C5	1:L5:4638:U:C5	3.09	0.41
1:L5:4752:U:O4	34:Lf:102:ARG:NH2	2.53	0.41
1:L5:4903:G:C6	1:L5:4904:G:C4	3.08	0.41
1:L5:4984:C:C4	1:L5:4985:U:C5	3.09	0.41
1:L5:4996:C:C5	1:L5:4997:G:N7	2.89	0.41
1:L5:5036:C:O2'	1:L5:5037:U:H5'	2.20	0.41
4:LA:158:ILE:HG21	4:LA:162:ASN:HD21	1.85	0.41
5:LB:112:ASP:HA	5:LB:115:LYS:CG	2.49	0.41
6:LC:41:HIS:HE1	6:LC:238:LEU:HB2	1.82	0.41
6:LC:334:THR:HG22	6:LC:337:ARG:NE	2.36	0.41
7:LD:34:LYS:HD2	22:LT:30:TYR:CE2	2.56	0.41
7:LD:88:VAL:HG13	7:LD:240:TYR:CE1	2.43	0.41
7:LD:109:LEU:HD21	7:LD:142:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:145:THR:CG2	8:LE:146:PRO:HD2	2.50	0.41
8:LE:174:LEU:HD21	8:LE:212:LEU:HD23	2.01	0.41
9:LF:169:LEU:CD1	9:LF:187:MET:HE3	2.50	0.41
9:LF:182:TYR:HE2	9:LF:203:GLU:HG2	1.79	0.41
11:LH:44:GLU:CG	15:LM:2:VAL:CG2	2.99	0.41
12:LI:19:LYS:CE	12:LI:24:ARG:HA	2.50	0.41
13:LJ:46:GLN:HB2	13:LJ:72:CYS:SG	2.60	0.41
15:LM:97:ALA:CB	17:LO:200:GLY:HA2	2.50	0.41
18:LP:48:LEU:HD21	18:LP:91:LEU:CB	2.50	0.41
20:LR:17:CYS:HB3	20:LR:52:ARG:CZ	2.50	0.41
32:Ld:26:THR:CB	32:Ld:85:ARG:HD2	2.50	0.41
33:Le:78:LEU:HD11	33:Le:100:ALA:HA	2.02	0.41
34:Lf:74:VAL:HG12	34:Lf:75:THR:N	2.35	0.41
37:Li:26:HIS:CE1	37:Li:29:ARG:HD3	2.55	0.41
40:Ll:51:LEU:HD23	40:Ll:51:LEU:C	2.46	0.41
44:Lp:49:ARG:NE	44:Lp:51:ALA:O	2.54	0.41
47:S2:50:A:C2	47:S2:51:U:C1'	3.04	0.41
47:S2:58:C:C4	47:S2:500:A:C2	3.09	0.41
47:S2:151:C:O5'	47:S2:151:C:H6	2.04	0.41
47:S2:300:U:O2'	47:S2:301:A:H5'	2.20	0.41
47:S2:622:C:H3'	47:S2:623:G:O4'	2.21	0.41
47:S2:659:G:C4'	47:S2:660:C:OP1	2.69	0.41
47:S2:997:A:C5	47:S2:998:A:N7	2.89	0.41
47:S2:1113:A:N6	47:S2:1120:U:H3	2.19	0.41
47:S2:1225:U:H2'	47:S2:1226:G:C5'	2.47	0.41
47:S2:1376:A:H2'	47:S2:1377:U:C5'	2.51	0.41
47:S2:1522:A:O2'	47:S2:1523:C:OP1	2.32	0.41
47:S2:1618:C:H5	67:Sd:14:PHE:CZ	2.38	0.41
47:S2:1634:A:H2'	47:S2:1635:C:C6	2.56	0.41
47:S2:1636:G:O2'	52:SF:164:ARG:NH1	2.54	0.41
47:S2:1654:G:OP1	61:ST:90:SER:HB2	2.20	0.41
47:S2:1664:A:N6	47:S2:1666:C:O2	2.54	0.41
47:S2:1668:U:H5"	62:SU:77:TRP:CD1	2.56	0.41
47:S2:1684:C:O2	47:S2:1684:C:H2'	2.21	0.41
47:S2:1748:G:C2	47:S2:1787:G:N3	2.88	0.41
48:SA:132:GLN:HB3	48:SA:133:PRO:CD	2.51	0.41
48:SA:140:VAL:O	48:SA:141:ASN:HB2	2.20	0.41
48:SA:205:ARG:HB2	48:SA:210:ILE:CG2	2.47	0.41
50:SD:35:SER:H	50:SD:99:ILE:HG21	1.84	0.41
50:SD:38:GLU:HG2	50:SD:39:VAL:H	1.85	0.41
50:SD:163:PRO:HB3	50:SD:166:TYR:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:SE:31:PRO:HG3	51:SE:41:CYS:SG	2.60	0.41
51:SE:137:PRO:CG	51:SE:149:TYR:HA	2.41	0.41
52:SF:78:MET:O	52:SF:79:HIS:HB2	2.20	0.41
53:SH:160:LYS:HB3	53:SH:160:LYS:HE3	1.87	0.41
54:SI:48:VAL:CG1	54:SI:54:LYS:CE	2.99	0.41
54:SI:60:LEU:HD22	54:SI:185:ALA:HB2	2.02	0.41
54:SI:194:GLU:OE1	56:SL:18:GLN:NE2	2.53	0.41
55:SK:16:PHE:CE1	55:SK:80:ARG:HB2	2.54	0.41
56:SL:137:THR:N	56:SL:139:ARG:HH12	2.19	0.41
61:ST:15:VAL:HG11	61:ST:62:ARG:HH11	1.85	0.41
61:ST:27:LYS:HA	61:ST:27:LYS:HD2	1.82	0.41
61:ST:28:LEU:HD11	61:ST:30:VAL:HG11	2.02	0.41
63:SV:3:ASN:HD21	63:SV:7:GLU:HB2	1.83	0.41
64:SX:69:CYS:SG	64:SX:84:PHE:HA	2.60	0.41
68:Sg:40:ILE:O	68:Sg:59:LEU:HB2	2.20	0.41
68:Sg:155:ARG:H	68:Sg:166:VAL:HG22	1.85	0.41
68:Sg:194:TYR:N	68:Sg:212:LYS:H	2.18	0.41
69:SC:174:ILE:HG13	69:SC:175:GLY:N	2.36	0.41
71:SJ:100:LEU:HD23	71:SJ:105:PHE:CZ	2.55	0.41
73:SN:129:TYR:HB3	73:SN:134:VAL:HG23	2.00	0.41
76:SY:18:LEU:CB	76:SY:20:ARG:HG2	2.51	0.41
1:L5:278:G:N2	1:L5:330:G:H1'	2.35	0.41
1:L5:302:C:OP1	16:LN:68:ARG:HG3	2.20	0.41
1:L5:369:G:N2	1:L5:373:G:C4	2.89	0.41
1:L5:718:C:H2'	1:L5:719:C:H5'	2.02	0.41
1:L5:731:G:N1	1:L5:939:G:N1	2.68	0.41
1:L5:952:G:C2	1:L5:953:C:C6	3.09	0.41
1:L5:972:C:C2	1:L5:1283:G:C8	3.08	0.41
1:L5:1072:C:C5	8:LE:69:TYR:CD1	3.09	0.41
1:L5:1268:G:OP2	1:L5:2110:C:O2'	2.39	0.41
1:L5:1301:C:C2'	33:Le:17:THR:HG21	2.51	0.41
1:L5:1544:G:C2	1:L5:1545:G:C8	3.08	0.41
1:L5:1615:C:C5	1:L5:1616:U:C4	3.09	0.41
1:L5:1736:A:C2	1:L5:1794:A:C2	3.09	0.41
1:L5:1807:C:N4	1:L5:1832:C:H42	2.18	0.41
1:L5:1965:G:H4'	1:L5:4695:C:H1'	2.03	0.41
1:L5:1977:C:H3'	1:L5:1978:C:C6	2.56	0.41
1:L5:1988:G:H5"	1:L5:1989:G:C5	2.56	0.41
1:L5:2056:G:H5'	1:L5:2057:A:OP2	2.19	0.41
1:L5:2264:C:C2'	1:L5:2265:G:C8	3.00	0.41
1:L5:2347:A:OP1	33:Le:22:ARG:NH1	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:2405:G:N2	1:L5:2787:A:H62	2.19	0.41
1:L5:2438:A:C5	1:L5:2531:C:O2	2.74	0.41
1:L5:2439:G:H22	1:L5:2539:C:C1'	2.28	0.41
1:L5:2475:G:N7	26:LX:53:ARG:CZ	2.83	0.41
1:L5:2607:C:C2'	1:L5:2608:G:H5'	2.50	0.41
1:L5:2608:G:C5	1:L5:2609:G:N7	2.89	0.41
1:L5:2779:C:C2	1:L5:2780:C:C5	3.08	0.41
1:L5:3664:G:C2	1:L5:3665:G:C5	3.09	0.41
1:L5:3680:U:H2'	1:L5:3681:G:H5'	2.02	0.41
1:L5:3755:G:C2	1:L5:3756:A:C4	3.08	0.41
1:L5:3769:C:N4	1:L5:3771:C:H41	2.18	0.41
1:L5:4128:A:N7	1:L5:4129:G:C5	2.88	0.41
1:L5:4203:A:N6	1:L5:4221:C:C2	2.88	0.41
1:L5:4281:A:N6	1:L5:4283:G:H1'	2.35	0.41
1:L5:4329:G:N3	1:L5:4329:G:C3'	2.82	0.41
1:L5:4346:U:C2	1:L5:4367:G:N2	2.89	0.41
1:L5:4645:C:C3'	1:L5:4645:C:C6	3.04	0.41
1:L5:4654:C:C2'	1:L5:4655:A:C5'	2.95	0.41
1:L5:4684:A:N7	1:L5:4685:U:C2	2.88	0.41
1:L5:4690:G:N2	1:L5:4691:A:N7	2.69	0.41
1:L5:4897:G:N1	1:L5:4924:C:C2	2.88	0.41
1:L5:4898:G:N2	1:L5:4922:C:O2	2.51	0.41
3:L8:115:G:H2'	3:L8:116:C:C6	2.56	0.41
5:LB:317:LEU:HD11	5:LB:380:GLN:O	2.20	0.41
6:LC:259:LYS:O	6:LC:262:GLU:N	2.52	0.41
7:LD:36:LEU:HD12	7:LD:36:LEU:C	2.46	0.41
7:LD:92:LEU:HD12	7:LD:92:LEU:C	2.44	0.41
7:LD:240:TYR:C	7:LD:243:ALA:H	2.29	0.41
7:LD:276:LYS:O	7:LD:279:ARG:HB3	2.21	0.41
8:LE:124:LYS:HB3	8:LE:125:LEU:H	1.73	0.41
8:LE:267:LEU:HD23	8:LE:271:LEU:HD13	2.03	0.41
8:LE:282:TYR:CE1	34:Lf:32:GLY:HA3	2.55	0.41
9:LF:80:ASN:ND2	22:LT:142:ARG:HA	2.36	0.41
10:LG:63:LEU:HD21	16:LN:33:LEU:HD12	2.01	0.41
10:LG:100:HIS:CD2	10:LG:103:ARG:HH12	2.38	0.41
10:LG:164:ILE:HG22	10:LG:168:VAL:CG1	2.50	0.41
11:LH:18:ILE:HA	11:LH:26:ILE:O	2.20	0.41
12:LI:36:LEU:CD1	12:LI:69:ARG:HH21	2.33	0.41
13:LJ:90:ARG:C	13:LJ:91:GLU:HG2	2.46	0.41
14:LL:72:ALA:HB2	14:LL:157:VAL:HG21	2.01	0.41
14:LL:99:ASP:OD1	14:LL:101:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:LM:82:ILE:O	15:LM:85:LYS:N	2.53	0.41
15:LM:104:MET:SD	17:LO:199:HIS:ND1	2.93	0.41
16:LN:15:GLN:HG3	37:Li:52:PRO:CD	2.37	0.41
16:LN:51:LEU:N	16:LN:51:LEU:CD1	2.84	0.41
16:LN:68:ARG:HH21	16:LN:128:LYS:NZ	2.19	0.41
17:LO:19:LEU:HD12	17:LO:123:ALA:CB	2.51	0.41
17:LO:55:LEU:C	17:LO:58:LEU:H	2.28	0.41
18:LP:9:GLU:H	18:LP:9:GLU:CD	2.23	0.41
22:LT:84:ILE:HD11	30:Lb:21:ILE:CG2	2.51	0.41
22:LT:92:ARG:HG2	22:LT:94:GLU:OE1	2.21	0.41
24:LV:30:ASP:OD1	24:LV:32:THR:HG22	2.21	0.41
24:LV:85:ARG:NE	24:LV:99:GLU:O	2.54	0.41
25:LW:101:ARG:HB3	25:LW:105:ARG:NH1	2.36	0.41
30:Lb:40:LEU:HD23	30:Lb:40:LEU:C	2.46	0.41
32:Ld:87:ARG:HH22	32:Ld:122:VAL:CG2	2.33	0.41
37:Li:70:LEU:HD13	37:Li:87:ARG:HD2	2.02	0.41
37:Li:74:LYS:HG3	37:Li:79:THR:C	2.46	0.41
39:Lk:5:ILE:HD12	39:Lk:11:PHE:HA	2.03	0.41
47:S2:77:A:H1'	70:SG:176:ILE:CD1	2.46	0.41
47:S2:86:C:H2'	47:S2:87:U:O4'	2.21	0.41
47:S2:162:C:H5'	70:SG:87:ARG:NH2	2.34	0.41
47:S2:398:A:C5'	47:S2:399:C:H5'	2.51	0.41
47:S2:398:A:H5"	47:S2:399:C:H5'	2.03	0.41
47:S2:440:G:P	54:SI:24:LYS:HZ1	2.37	0.41
47:S2:673:G:C1'	47:S2:1084:A:C2	3.03	0.41
47:S2:926:A:N3	47:S2:926:A:H2'	2.35	0.41
47:S2:1045:U:H2'	47:S2:1046:U:O4'	2.19	0.41
47:S2:1129:G:C6	47:S2:1130:G:C6	3.08	0.41
47:S2:1148:A:OP1	65:Sa:6:ARG:NH2	2.54	0.41
47:S2:1228:A:H5"	47:S2:1229:G:OP2	2.20	0.41
47:S2:1281:G:O5'	72:SM:101:ARG:HG2	2.21	0.41
47:S2:1422:G:C2'	47:S2:1423:C:H3'	2.51	0.41
47:S2:1541:G:C6	47:S2:1542:C:N3	2.89	0.41
47:S2:1601:A:H5"	47:S2:1602:U:OP1	2.21	0.41
47:S2:1668:U:H5"	58:SQ:132:PHE:HB2	2.02	0.41
47:S2:1832:A:N6	47:S2:1833:C:N4	2.69	0.41
47:S2:1858:G:C2'	47:S2:1859:A:H5'	2.51	0.41
48:SA:120:ARG:NE	69:SC:267:GLN:HB3	2.23	0.41
50:SD:41:VAL:HA	50:SD:46:THR:CG2	2.50	0.41
52:SF:49:LEU:HD12	58:SQ:50:LYS:HB3	2.02	0.41
52:SF:176:GLU:O	52:SF:180:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:SH:157:HIS:HD2	53:SH:188:GLU:HB2	1.86	0.41
54:SI:188:TYR:OH	54:SI:194:GLU:OE2	2.21	0.41
57:SP:57:LEU:HD23	57:SP:60:LEU:HD12	2.03	0.41
58:SQ:83:ALA:O	58:SQ:87:SER:OG	2.33	0.41
59:SR:67:ARG:HG3	59:SR:69:ILE:CG1	2.50	0.41
59:SR:70:SER:OG	59:SR:73:LEU:HD13	2.21	0.41
59:SR:107:LYS:HE3	59:SR:107:LYS:HB3	1.87	0.41
63:SV:64:GLU:CD	78:Sb:2:PRO:HA	2.46	0.41
64:SX:72:VAL:HG22	64:SX:81:ILE:O	2.20	0.41
66:Sc:18:LEU:O	66:Sc:29:GLN:HB2	2.21	0.41
68:Sg:5:MET:HA	68:Sg:312:VAL:HA	2.01	0.41
68:Sg:43:TRP:CZ2	68:Sg:307:VAL:HG21	2.55	0.41
69:SC:65:LYS:HG2	69:SC:273:LEU:HD21	2.02	0.41
69:SC:155:ILE:O	69:SC:155:ILE:HG22	2.20	0.41
69:SC:265:PRO:CB	69:SC:268:GLU:HB2	2.50	0.41
71:SJ:44:TRP:O	71:SJ:48:PHE:N	2.42	0.41
71:SJ:48:PHE:CE2	71:SJ:52:LYS:CE	3.03	0.41
75:SW:125:ILE:HG22	75:SW:126:LEU:N	2.34	0.41
76:SY:20:ARG:CB	76:SY:76:TYR:CE1	3.04	0.41
77:SZ:112:ASN:O	77:SZ:113:THR:OG1	2.32	0.41
1:L5:10:A:C2	1:L5:11:G:C5	3.09	0.41
1:L5:34:A:N1	1:L5:35:U:C4	2.89	0.41
1:L5:128:C:H6	1:L5:128:C:O5'	2.04	0.41
1:L5:171:U:HO2'	1:L5:172:C:P	2.44	0.41
1:L5:243:A:C2'	1:L5:244:G:H5'	2.51	0.41
1:L5:357:U:C4	1:L5:359:A:C8	3.09	0.41
1:L5:416:U:O4	1:L5:417:G:N1	2.53	0.41
1:L5:471:A:H2'	1:L5:471:A:N3	2.33	0.41
1:L5:490:C:N3	1:L5:665:C:N4	2.69	0.41
1:L5:494:U:C2'	1:L5:495:C:O5'	2.69	0.41
1:L5:508:G:N2	1:L5:651:C:O2	2.53	0.41
1:L5:514:U:H5'	1:L5:515:C:O5'	2.21	0.41
1:L5:672:C:O2'	1:L5:673:C:H5'	2.20	0.41
1:L5:688:U:OP2	8:LE:108:LYS:NZ	2.40	0.41
1:L5:752:G:N1	1:L5:753:C:O2	2.54	0.41
1:L5:921:C:P	15:LM:72:TYR:HE2	2.44	0.41
1:L5:941:C:H2'	1:L5:942:G:O4'	2.21	0.41
1:L5:954:C:P	34:Lf:73:LYS:HZ1	2.44	0.41
1:L5:958:G:N2	1:L5:1284:G:H2'	2.36	0.41
1:L5:990:C:O4'	1:L5:1065:G:N2	2.54	0.41
1:L5:1100:U:C3'	1:L5:1100:U:C6	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1245:C:O2'	1:L5:1246:G:O5'	2.31	0.41
1:L5:1275:G:H2'	1:L5:1276:C:O4'	2.21	0.41
1:L5:1337:A:C2	1:L5:1658:G:H2'	2.56	0.41
1:L5:1427:A:C6	1:L5:1458:C:C2	3.08	0.41
1:L5:1430:C:O2'	1:L5:1431:C:H5'	2.21	0.41
1:L5:1484:G:O2'	1:L5:1485:C:O3'	2.38	0.41
1:L5:1507:C:C5	1:L5:1508:A:N7	2.89	0.41
1:L5:1554:A:H1'	44:Lp:10:ILE:HD13	2.03	0.41
1:L5:1586:G:H2'	1:L5:1587:G:C5'	2.45	0.41
1:L5:1646:A:O2'	38:Lj:50:SER:HB2	2.20	0.41
1:L5:1699:A:N6	1:L5:2095:A:HO2'	2.19	0.41
1:L5:1983:A:O2'	1:L5:1984:A:O3'	2.19	0.41
1:L5:2029:A:C4	1:L5:2030:A:C8	3.09	0.41
1:L5:2073:C:H2'	1:L5:2074:C:C5'	2.48	0.41
1:L5:2118:G:OP1	9:LF:49:LEU:HD22	2.21	0.41
1:L5:2389:A:H5"	32:Ld:70:LYS:NZ	2.36	0.41
1:L5:2469:C:H5'	1:L5:2470:C:P	2.61	0.41
1:L5:2473:A:H5"	26:LX:48:ARG:CD	2.51	0.41
1:L5:2487:G:C6	1:L5:2492:C:N3	2.89	0.41
1:L5:2538:U:OP2	39:Lk:40:ARG:NH2	2.54	0.41
1:L5:2550:G:C2	1:L5:2551:A:C5	3.08	0.41
1:L5:2555:G:H2'	1:L5:2556:G:O4'	2.19	0.41
1:L5:2664:G:C5	1:L5:2665:U:C5	3.09	0.41
1:L5:2715:G:H2'	1:L5:2716:C:C1'	2.50	0.41
1:L5:2716:C:O2'	1:L5:2717:G:H5'	2.20	0.41
1:L5:2853:C:C2'	1:L5:2854:G:C5'	2.99	0.41
1:L5:2903:G:C2'	1:L5:2905:C:N4	2.84	0.41
1:L5:3625:G:OP1	1:L5:3625:G:H4'	2.20	0.41
1:L5:3675:G:C2	1:L5:3676:G:C8	3.08	0.41
1:L5:3811:G:N2	1:L5:3814:U:N1	2.69	0.41
1:L5:3844:U:H3'	1:L5:3844:U:C6	2.56	0.41
1:L5:3872:A:H2'	1:L5:3873:G:H5'	2.03	0.41
1:L5:3887:C:C2'	1:L5:3888:G:H5'	2.50	0.41
1:L5:3905:A:H5'	1:L5:3906:A:OP2	2.21	0.41
1:L5:4040:C:C3'	1:L5:4040:C:C6	3.04	0.41
1:L5:4101:C:H2'	1:L5:4103:C:C4	2.56	0.41
1:L5:4151:G:H2'	1:L5:4152:G:O4'	2.21	0.41
1:L5:4228:G:H5"	1:L5:4229:U:O4'	2.19	0.41
1:L5:4238:G:C6	1:L5:4287:G:C6	3.09	0.41
1:L5:4303:C:C4	1:L5:4305:G:C2	3.09	0.41
1:L5:4317:A:N6	1:L5:4318:C:N3	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:4337:C:O2	1:L5:4337:C:H2'	2.21	0.41
1:L5:4501:U:H5	1:L5:4502:C:O2	2.03	0.41
1:L5:4538:G:O6	1:L5:4547:C:N4	2.54	0.41
1:L5:4546:A:H8	1:L5:4546:A:O5'	2.04	0.41
1:L5:4549:G:H2'	1:L5:4550:G:H8	1.85	0.41
1:L5:4661:G:H2'	1:L5:4662:C:H6	1.83	0.41
1:L5:4774:C:C5	1:L5:4775:C:N4	2.82	0.41
1:L5:4928:C:O2'	1:L5:4929:C:H5'	2.21	0.41
1:L5:4939:C:P	8:LE:219:LYS:HZ1	2.37	0.41
1:L5:4988:U:H5	1:L5:5061:A:H5"	1.85	0.41
1:L5:5021:C:C3'	1:L5:5022:U:H5"	2.50	0.41
1:L5:5048:A:P	32:Ld:31:LYS:HD2	2.61	0.41
2:L7:35:U:H3'	2:L7:36:C:C6	2.56	0.41
2:L7:103:A:H5'	2:L7:104:C:OP2	2.21	0.41
3:L8:22:U:H4'	3:L8:23:C:OP2	2.15	0.41
3:L8:65:A:N3	3:L8:65:A:H2'	2.36	0.41
3:L8:94:G:C6	38:Lj:84:PRO:HG3	2.56	0.41
3:L8:106:G:N1	3:L8:107:C:N3	2.69	0.41
4:LA:36:GLU:OE2	4:LA:90:CYS:HB3	2.20	0.41
4:LA:201:GLY:HA3	4:LA:209:HIS:NE2	2.36	0.41
5:LB:82:PRO:HB2	5:LB:167:GLN:HB2	2.02	0.41
5:LB:94:GLU:OE2	5:LB:158:GLN:HG2	2.20	0.41
5:LB:163:ILE:CG2	5:LB:164:ALA:N	2.84	0.41
5:LB:292:LEU:O	5:LB:293:ILE:HG22	2.21	0.41
5:LB:312:LYS:HZ2	5:LB:370:THR:HG21	1.85	0.41
5:LB:340:THR:HG22	5:LB:341:LYS:O	2.21	0.41
6:LC:35:ASP:OD1	6:LC:36:ILE:HG13	2.20	0.41
6:LC:171:LEU:HD12	6:LC:171:LEU:C	2.46	0.41
6:LC:238:LEU:HD12	6:LC:238:LEU:C	2.45	0.41
6:LC:292:ILE:O	6:LC:298:ILE:HD12	2.20	0.41
7:LD:56:THR:C	7:LD:58:ARG:N	2.78	0.41
7:LD:108:ARG:HA	7:LD:251:PRO:CB	2.42	0.41
7:LD:285:ALA:HA	7:LD:288:LEU:CD1	2.51	0.41
8:LE:270:TYR:HD1	15:LM:110:PHE:CD2	2.38	0.41
9:LF:94:ARG:O	9:LF:118:PHE:N	2.42	0.41
10:LG:62:ARG:O	10:LG:66:GLN:HG3	2.21	0.41
10:LG:150:LYS:O	10:LG:151:LYS:HD2	2.21	0.41
10:LG:181:TYR:O	10:LG:222:ILE:HG21	2.21	0.41
11:LH:82:LYS:NZ	11:LH:186:THR:HG21	2.36	0.41
12:LI:26:VAL:HG22	12:LI:122:PRO:CG	2.50	0.41
12:LI:30:LYS:HB3	12:LI:63:GLU:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:LL:20:ARG:HH11	14:LL:21:ARG:HE	1.69	0.41
14:LL:36:ARG:HA	14:LL:39:ARG:NH1	2.36	0.41
14:LL:39:ARG:CZ	14:LL:39:ARG:HB2	2.51	0.41
14:LL:49:ARG:C	14:LL:51:ALA:H	2.29	0.41
14:LL:54:PRO:CA	14:LL:55:ILE:HG22	2.47	0.41
14:LL:126:LEU:O	14:LL:138:ASP:HB3	2.21	0.41
15:LM:50:MET:SD	15:LM:51:PRO:HD2	2.61	0.41
16:LN:124:ASP:CG	16:LN:125:SER:N	2.79	0.41
16:LN:150:TRP:CZ3	16:LN:151:ILE:HG22	2.56	0.41
17:LO:102:LEU:HD23	17:LO:102:LEU:C	2.46	0.41
18:LP:20:SER:HA	18:LP:145:HIS:CD2	2.56	0.41
18:LP:116:HIS:O	18:LP:117:ILE:HB	2.21	0.41
19:LQ:28:LEU:HA	19:LQ:28:LEU:HD23	1.91	0.41
19:LQ:51:LEU:CD1	19:LQ:103:LEU:HD21	2.51	0.41
19:LQ:86:ILE:CG1	19:LQ:105:VAL:HG22	2.46	0.41
19:LQ:101:CYS:HB3	19:LQ:121:LEU:HB3	2.01	0.41
20:LR:134:ASN:CG	20:LR:135:LYS:N	2.79	0.41
20:LR:167:LYS:NZ	20:LR:171:LYS:NZ	2.68	0.41
21:LS:169:THR:O	21:LS:169:THR:HG22	2.20	0.41
23:LU:45:GLU:O	23:LU:47:ILE:N	2.53	0.41
27:LY:70:VAL:HA	27:LY:82:ILE:CD1	2.50	0.41
28:LZ:5:MET:HE2	28:LZ:77:TYR:HD1	1.85	0.41
29:La:24:LYS:H	29:La:24:LYS:CD	1.98	0.41
29:La:37:GLY:HA2	29:La:41:HIS:CB	2.41	0.41
29:La:120:GLN:O	29:La:122:VAL:HG13	2.20	0.41
32:Ld:65:ASP:OD1	32:Ld:66:THR:N	2.54	0.41
34:Lf:88:PHE:HZ	34:Lf:101:ILE:CD1	2.23	0.41
36:Lh:5:LYS:HZ3	36:Lh:7:ARG:NH2	2.19	0.41
37:Li:63:VAL:HG12	37:Li:63:VAL:O	2.19	0.41
38:Lj:47:TYR:HB3	38:Lj:49:TRP:NE1	2.36	0.41
39:Lk:53:ALA:O	39:Lk:57:LYS:HG3	2.20	0.41
43:Lo:23:VAL:CG1	43:Lo:24:THR:N	2.83	0.41
44:Lp:33:GLN:HE21	44:Lp:49:ARG:HH22	1.69	0.41
46:Lz:58:THR:HA	46:Lz:59:PRO:HD2	1.85	0.41
46:Lz:80:VAL:O	46:Lz:80:VAL:HG12	2.21	0.41
47:S2:54:A:H2'	47:S2:451:G:N2	2.36	0.41
47:S2:105:U:C5	47:S2:106:C:C4	3.09	0.41
47:S2:106:C:O2'	47:S2:107:A:H5'	2.21	0.41
47:S2:124:U:H6	47:S2:124:U:H3'	1.86	0.41
47:S2:153:G:C2	47:S2:166:A:C6	3.08	0.41
47:S2:193:C:H3'	47:S2:194:C:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:215:G:N7	47:S2:312:G:N2	2.69	0.41
47:S2:336:A:C2	47:S2:337:C:C2	3.09	0.41
47:S2:458:A:N7	47:S2:459:C:C5	2.89	0.41
47:S2:489:A:N1	47:S2:490:C:C4	2.89	0.41
47:S2:581:U:H5'	47:S2:582:C:OP2	2.20	0.41
47:S2:583:C:H5	47:S2:584:G:C5	2.38	0.41
47:S2:678:U:O5'	47:S2:678:U:H6	2.04	0.41
47:S2:687:C:H4'	47:S2:688:U:OP2	2.21	0.41
47:S2:920:A:C3'	47:S2:921:G:H5"	2.51	0.41
47:S2:920:A:H3'	47:S2:921:G:H5"	2.02	0.41
47:S2:1067:C:O2	47:S2:1067:C:H2'	2.20	0.41
47:S2:1274:G:C6	67:Sd:8:TRP:HZ2	2.39	0.41
47:S2:1401:A:H2	47:S2:1402:A:C4	2.38	0.41
47:S2:1405:A:H61	47:S2:1406:G:N2	2.19	0.41
47:S2:1424:G:H2'	47:S2:1425:G:H8	1.86	0.41
47:S2:1466:G:C2	47:S2:1467:C:C2	3.09	0.41
47:S2:1539:U:O3'	61:ST:47:PRO:HA	2.21	0.41
47:S2:1543:U:O2	47:S2:1544:C:H5	2.03	0.41
47:S2:1722:G:C2	47:S2:1813:A:C2	3.09	0.41
47:S2:1758:G:C2'	47:S2:1774:C:N3	2.83	0.41
47:S2:1758:G:N1	47:S2:1771:G:OP2	2.53	0.41
47:S2:1869:A:C5	49:SB:115:LYS:HE3	2.56	0.41
48:SA:155:ARG:O	48:SA:156:TYR:HB2	2.20	0.41
48:SA:198:MET:CG	59:SR:89:SER:HB3	2.45	0.41
49:SB:69:VAL:HG11	49:SB:86:LEU:HD12	2.02	0.41
50:SD:11:PHE:O	50:SD:14:ASP:HB2	2.21	0.41
50:SD:86:LEU:C	50:SD:86:LEU:HD12	2.46	0.41
50:SD:175:VAL:HG23	50:SD:177:LEU:H	1.86	0.41
50:SD:177:LEU:CD2	50:SD:182:LEU:HD11	2.51	0.41
50:SD:211:VAL:HG23	59:SR:20:TYR:CE2	2.56	0.41
51:SE:91:SER:C	51:SE:92:ILE:HD13	2.46	0.41
51:SE:96:GLY:HA2	51:SE:98:ASN:ND2	2.36	0.41
52:SF:41:VAL:O	52:SF:41:VAL:HG13	2.21	0.41
52:SF:45:TYR:O	52:SF:67:PRO:HB3	2.20	0.41
53:SH:24:SER:HA	53:SH:27:LEU:HD22	2.01	0.41
53:SH:31:GLU:HA	53:SH:36:LEU:O	2.21	0.41
53:SH:38:ALA:HA	53:SH:41:ARG:HE	1.86	0.41
53:SH:148:LEU:HA	75:SW:42:MET:CE	2.46	0.41
55:SK:2:LEU:O	55:SK:8:ARG:NH1	2.53	0.41
60:SS:41:ALA:O	60:SS:45:LEU:HG	2.21	0.41
60:SS:87:GLN:O	60:SS:88:LYS:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:ST:18:LEU:HD23	61:ST:18:LEU:O	2.21	0.41
65:Sa:88:SER:O	65:Sa:91:ALA:HB3	2.21	0.41
68:Sg:38:LYS:HA	68:Sg:66:VAL:CG2	2.45	0.41
68:Sg:193:GLY:HA3	68:Sg:212:LYS:HB3	2.03	0.41
68:Sg:193:GLY:CA	68:Sg:212:LYS:HB3	2.51	0.41
69:SC:135:GLY:HA2	69:SC:217:ALA:O	2.21	0.41
69:SC:183:LYS:HB3	69:SC:196:ILE:HG13	2.02	0.41
69:SC:226:ALA:HB1	69:SC:230:THR:CG2	2.49	0.41
69:SC:272:HIS:O	69:SC:276:THR:N	2.46	0.41
70:SG:48:TYR:CE2	70:SG:113:ILE:HD13	2.56	0.41
70:SG:48:TYR:HE1	70:SG:115:LYS:HB3	1.79	0.41
70:SG:57:ASP:OD1	70:SG:58:LYS:N	2.48	0.41
70:SG:138:ALA:O	70:SG:142:ARG:HG3	2.21	0.41
71:SJ:169:ARG:O	71:SJ:169:ARG:HG3	2.21	0.41
72:SM:24:THR:HG22	72:SM:24:THR:O	2.21	0.41
72:SM:78:LYS:HG2	72:SM:79:VAL:O	2.21	0.41
73:SN:22:VAL:HB	73:SN:23:PRO:CD	2.42	0.41
73:SN:54:LEU:HB3	73:SN:60:VAL:HG11	1.98	0.41
73:SN:75:LEU:CD1	73:SN:80:LEU:HD11	2.51	0.41
75:SW:76:SER:H	75:SW:77:PRO:HD2	1.86	0.41
76:SY:127:ALA:O	76:SY:131:PRO:HD2	2.21	0.41
77:SZ:100:VAL:N	77:SZ:108:ILE:O	2.54	0.41
79:Se:35:ARG:C	79:Se:39:ASN:HD22	2.29	0.41
1:L5:36:U:C2	1:L5:37:U:C5	3.09	0.41
1:L5:76:A:C4	1:L5:77:U:C6	3.09	0.41
1:L5:164:G:C5	1:L5:165:A:N7	2.89	0.41
1:L5:182:G:O6	1:L5:184:U:N3	2.54	0.41
1:L5:280:G:O4'	16:LN:14:LYS:NZ	2.53	0.41
1:L5:366:A:C2	1:L5:376:A:C6	3.09	0.41
1:L5:423:G:C2	3:L8:12:G:N3	2.89	0.41
1:L5:751:G:N3	1:L5:751:G:C3'	2.82	0.41
1:L5:754:U:H3	1:L5:909:A:N6	2.19	0.41
1:L5:979:C:H2'	1:L5:980:U:C5'	2.51	0.41
1:L5:991:C:N4	1:L5:1051:G:H1	2.19	0.41
1:L5:1067:G:C6	1:L5:1068:G:C4	3.09	0.41
1:L5:1097:C:C6	1:L5:1097:C:C3'	3.02	0.41
1:L5:1177:U:H2'	1:L5:1178:G:O4'	2.21	0.41
1:L5:1215:C:C2	1:L5:1216:C:H5"	2.55	0.41
1:L5:1252:C:HO2'	1:L5:1258:G:H22	1.58	0.41
1:L5:1276:C:H5'	1:L5:1277:G:P	2.61	0.41
1:L5:1280:C:C3'	1:L5:1280:C:C6	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1323:A:H2'	1:L5:1324:A:O4'	2.21	0.41
1:L5:1507:C:O2'	1:L5:1508:A:H5'	2.20	0.41
1:L5:1516:G:C4	1:L5:1518:A:N7	2.89	0.41
1:L5:1628:C:C5	4:LA:9:ARG:NH2	2.89	0.41
1:L5:1695:U:H3'	1:L5:1695:U:C6	2.56	0.41
1:L5:1813:U:O2	1:L5:1826:G:N2	2.54	0.41
1:L5:1912:G:C2	1:L5:2057:A:C2	3.09	0.41
1:L5:2341:A:OP1	6:LC:46:LYS:NZ	2.53	0.41
1:L5:2379:A:N6	1:L5:2380:G:N2	2.69	0.41
1:L5:2461:G:H2'	1:L5:2462:C:C6	2.56	0.41
1:L5:2464:C:HO2'	1:L5:2465:C:P	2.43	0.41
1:L5:2602:G:C2	1:L5:2742:G:C2	3.09	0.41
1:L5:3615:G:H1'	25:LW:44:ARG:CD	2.51	0.41
1:L5:3638:G:N2	1:L5:3639:U:O2	2.53	0.41
1:L5:3657:U:O2'	1:L5:3658:C:H5'	2.21	0.41
1:L5:3871:A:C2	1:L5:3872:A:C4	3.09	0.41
1:L5:4184:G:OP1	4:LA:233:ARG:HD2	2.21	0.41
1:L5:4461:C:N3	1:L5:4516:G:C6	2.89	0.41
1:L5:4469:U:C1'	1:L5:4708:A:C8	3.04	0.41
1:L5:4502:C:C6	1:L5:4502:C:H3'	2.56	0.41
1:L5:4586:G:H2'	1:L5:4586:G:N3	2.36	0.41
1:L5:4588:U:O2'	1:L5:4589:A:H2'	2.21	0.41
1:L5:4770:U:C2	1:L5:4863:G:N7	2.88	0.41
4:LA:115:CYS:SG	4:LA:165:VAL:HG12	2.61	0.41
5:LB:85:VAL:HB	5:LB:165:HIS:HE2	1.82	0.41
5:LB:304:SER:C	5:LB:305:THR:HG1	2.20	0.41
6:LC:13:GLU:O	6:LC:173:LYS:NZ	2.50	0.41
6:LC:288:ASP:O	6:LC:292:ILE:HD12	2.21	0.41
6:LC:299:GLN:HA	6:LC:302:LEU:HD11	2.03	0.41
7:LD:50:ARG:HD2	7:LD:147:ASP:HB2	2.03	0.41
7:LD:57:ASN:C	7:LD:58:ARG:HG3	2.46	0.41
7:LD:216:GLU:O	7:LD:220:LYS:HG2	2.21	0.41
8:LE:93:THR:HG22	8:LE:106:VAL:HG22	2.02	0.41
8:LE:127:SER:O	8:LE:128:HIS:HB3	2.19	0.41
8:LE:140:LEU:CA	8:LE:191:GLN:HE22	2.22	0.41
8:LE:150:LEU:HD23	8:LE:196:ALA:CA	2.51	0.41
10:LG:60:TYR:CE2	10:LG:61:ILE:HG22	2.55	0.41
12:LI:100:ASN:HA	12:LI:120:GLY:HA2	2.03	0.41
13:LJ:83:LEU:HD23	13:LJ:83:LEU:O	2.20	0.41
14:LL:46:ILE:HD11	14:LL:51:ALA:HA	2.03	0.41
15:LM:6:PHE:HB3	21:LS:151:LYS:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:LO:36:VAL:CG2	17:LO:108:ILE:HA	2.51	0.41
18:LP:94:MET:HE1	18:LP:146:ILE:C	2.45	0.41
24:LV:123:LYS:N	24:LV:140:ALA:OXT	2.54	0.41
26:LX:56:ARG:O	26:LX:57:GLN:NE2	2.53	0.41
37:Li:102:ALA:HB1	46:Lz:10:LEU:HG	2.03	0.41
43:Lo:101:GLY:HA2	43:Lo:102:GLN:O	2.21	0.41
44:Lp:3:LYS:HE3	44:Lp:3:LYS:HB2	1.85	0.41
44:Lp:14:TYR:HB2	44:Lp:23:ARG:HD2	2.03	0.41
46:Lz:178:GLU:O	46:Lz:182:ASN:HB2	2.21	0.41
47:S2:50:A:O2'	47:S2:51:U:H5'	2.21	0.41
47:S2:443:U:H2'	47:S2:444:G:C5'	2.47	0.41
47:S2:611:G:O2'	79:Se:15:GLN:O	2.39	0.41
47:S2:690:G:H2'	47:S2:691:G:C4'	2.50	0.41
47:S2:745:C:C5'	47:S2:746:C:H5"	2.51	0.41
47:S2:815:U:H5"	71:SJ:10:ARG:NH2	2.36	0.41
47:S2:925:G:H5"	73:SN:91:LEU:HD13	2.03	0.41
47:S2:1143:A:H5"	69:SC:189:GLY:O	2.21	0.41
47:S2:1155:U:H1'	75:SW:71:LYS:CD	2.49	0.41
47:S2:1200:A:H8	47:S2:1200:A:O5'	2.03	0.41
47:S2:1255:G:C5'	47:S2:1256:G:O5'	2.69	0.41
47:S2:1315:U:O2	47:S2:1315:U:H2'	2.20	0.41
47:S2:1548:G:C5	47:S2:1586:U:O4	2.74	0.41
47:S2:1613:G:OP2	57:SP:39:ALA:HB1	2.21	0.41
47:S2:1803:U:C2'	47:S2:1804:U:C5'	2.97	0.41
48:SA:62:ALA:CB	48:SA:181:GLU:HG3	2.51	0.41
48:SA:65:ILE:HD11	48:SA:178:LEU:HD21	2.03	0.41
48:SA:111:GLN:HG2	69:SC:89:LYS:HZ1	1.86	0.41
48:SA:154:LEU:HD13	63:SV:66:ASP:OD2	2.21	0.41
50:SD:53:THR:HG22	50:SD:53:THR:O	2.20	0.41
50:SD:204:LEU:C	50:SD:207:HIS:H	2.28	0.41
51:SE:207:VAL:HG12	51:SE:207:VAL:O	2.21	0.41
51:SE:228:ILE:O	51:SE:228:ILE:HG13	2.21	0.41
52:SF:54:GLY:O	52:SF:55:ARG:HG2	2.21	0.41
54:SI:197:PHE:CE2	56:SL:10:TYR:HB2	2.54	0.41
59:SR:90:ALA:O	59:SR:91:LEU:HD12	2.21	0.41
60:SS:86:ARG:HG2	60:SS:86:ARG:O	2.20	0.41
60:SS:86:ARG:NH1	60:SS:98:VAL:HG21	2.35	0.41
62:SU:31:SER:HB2	62:SU:108:PRO:HG3	2.03	0.41
68:Sg:125:ARG:HH11	68:Sg:150:TRP:HE3	1.66	0.41
68:Sg:191:HIS:CG	68:Sg:195:LEU:CD2	3.04	0.41
70:SG:204:GLU:HA	70:SG:207:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:SJ:35:TYR:O	71:SJ:37:LEU:HD12	2.21	0.41
71:SJ:53:ILE:O	71:SJ:56:ALA:HB3	2.21	0.41
71:SJ:138:ARG:HD3	71:SJ:156:HIS:CE1	2.55	0.41
71:SJ:172:ARG:N	71:SJ:175:ARG:HG3	2.36	0.41
74:SO:14:VAL:N	74:SO:15:ILE:HA	2.36	0.41
74:SO:15:ILE:HG13	74:SO:16:SER:N	2.36	0.41
75:SW:104:LEU:HD12	75:SW:104:LEU:C	2.46	0.41
76:SY:5:VAL:HG12	76:SY:6:THR:N	2.34	0.41
78:Sb:17:ARG:HG2	78:Sb:17:ARG:O	2.20	0.41
79:Se:47:PRO:HB2	79:Se:48:THR:H	1.59	0.41
1:L5:121:A:H2	1:L5:152:U:H3	1.69	0.40
1:L5:295:A:O2'	1:L5:296:A:OP2	2.33	0.40
1:L5:385:A:C4	1:L5:386:A:N7	2.89	0.40
1:L5:744:G:H22	1:L5:920:C:N4	2.19	0.40
1:L5:1074:G:N1	1:L5:1075:G:C2	2.89	0.40
1:L5:1094:G:N3	1:L5:1094:G:H2'	2.36	0.40
1:L5:1367:C:O2	1:L5:1367:C:C2'	2.69	0.40
1:L5:1484:G:C6	1:L5:1486:C:C2	3.08	0.40
1:L5:1661:C:OP1	1:L5:1661:C:H4'	2.21	0.40
1:L5:1921:C:C4	21:LS:161:ARG:HD2	2.56	0.40
1:L5:2263:A:H5"	45:Lr:39:ARG:NH1	2.36	0.40
1:L5:2550:G:N3	1:L5:2587:A:C2	2.89	0.40
1:L5:2599:G:C4	1:L5:2600:A:N7	2.89	0.40
1:L5:2748:C:H3'	1:L5:2748:C:C6	2.56	0.40
1:L5:2752:G:C2	1:L5:2753:G:H1'	2.56	0.40
1:L5:2858:A:N6	1:L5:2859:G:C6	2.89	0.40
1:L5:2865:U:C2'	1:L5:2866:C:H5'	2.52	0.40
1:L5:2878:G:H3'	1:L5:2879:A:H8	1.86	0.40
1:L5:3759:A:N7	1:L5:3763:A:N6	2.69	0.40
1:L5:4077:A:H5"	16:LN:28:TRP:HE1	1.85	0.40
1:L5:4138:C:H2'	1:L5:4139:G:C5'	2.51	0.40
1:L5:4378:A:O2'	1:L5:4379:A:H2'	2.20	0.40
1:L5:4382:G:C6	1:L5:4383:U:N3	2.89	0.40
1:L5:4433:G:H5"	12:LI:7:ARG:HH12	1.85	0.40
1:L5:4472:G:C2	1:L5:4484:A:C4	3.10	0.40
1:L5:4683:U:N3	1:L5:4707:A:C6	2.90	0.40
1:L5:4765:G:C2	1:L5:4766:C:C2	3.09	0.40
1:L5:4899:G:OP2	1:L5:4899:G:H8	2.05	0.40
1:L5:4906:C:H2'	1:L5:4907:G:H8	1.85	0.40
1:L5:4979:A:C5	1:L5:4980:C:C4	3.09	0.40
1:L5:5042:A:N6	1:L5:5043:A:N1	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:133:G:H2'	3:L8:134:G:O4'	2.21	0.40
4:LA:89:TYR:HB2	4:LA:100:ASN:OD1	2.20	0.40
5:LB:84:MET:HE2	5:LB:164:ALA:CB	2.49	0.40
6:LC:68:GLY:HA3	6:LC:75:ARG:HG3	2.02	0.40
6:LC:274:LYS:O	6:LC:276:ASN:N	2.54	0.40
7:LD:110:LEU:HD12	7:LD:110:LEU:N	2.36	0.40
8:LE:162:VAL:HG12	8:LE:163:VAL:O	2.22	0.40
9:LF:43:ARG:NH2	9:LF:47:ARG:HD3	2.36	0.40
10:LG:144:THR:OG1	16:LN:3:ALA:N	2.54	0.40
10:LG:157:ILE:HG22	10:LG:158:ALA:O	2.21	0.40
11:LH:20:LEU:HD12	11:LH:20:LEU:O	2.21	0.40
11:LH:72:THR:O	11:LH:76:HIS:N	2.37	0.40
12:LI:57:TYR:HH	12:LI:128:ARG:NH2	2.16	0.40
14:LL:177:LYS:HD2	14:LL:177:LYS:N	2.36	0.40
17:LO:7:LEU:HD23	17:LO:7:LEU:C	2.46	0.40
17:LO:36:VAL:HG22	17:LO:37:ARG:N	2.35	0.40
18:LP:127:ARG:O	18:LP:139:TYR:N	2.53	0.40
20:LR:98:ARG:CB	20:LR:101:ILE:HD12	2.51	0.40
22:LT:25:VAL:HG21	22:LT:45:MET:SD	2.60	0.40
22:LT:85:LEU:HD12	22:LT:85:LEU:N	2.37	0.40
23:LU:21:PHE:CZ	23:LU:80:LYS:HB2	2.56	0.40
25:LW:109:ILE:O	25:LW:112:ALA:HB3	2.21	0.40
29:La:148:ALA:CB	37:Li:6:PRO:HB2	2.40	0.40
31:Lc:43:ALA:HA	31:Lc:97:ILE:HD12	1.99	0.40
33:Le:99:ILE:HG22	33:Le:100:ALA:O	2.20	0.40
35:Lg:53:LEU:HG	35:Lg:54:ARG:H	1.85	0.40
38:Lj:63:ARG:O	38:Lj:68:LYS:HD2	2.21	0.40
40:Ll:41:ARG:HG2	40:Ll:42:ARG:N	2.36	0.40
44:Lp:26:VAL:O	44:Lp:30:GLU:N	2.54	0.40
47:S2:124:U:C5	47:S2:125:C:H5	2.39	0.40
47:S2:170:A:C6	47:S2:171:A:C6	3.09	0.40
47:S2:216:C:H5	47:S2:312:G:N2	2.18	0.40
47:S2:377:G:P	54:SI:99:ASN:HD22	2.43	0.40
47:S2:534:G:O2'	79:Se:45:VAL:HG12	2.21	0.40
47:S2:592:C:H3'	47:S2:593:C:C5'	2.50	0.40
47:S2:616:A:C2	79:Se:12:VAL:HG11	2.56	0.40
47:S2:974:C:O2	74:SO:55:ARG:NH1	2.54	0.40
47:S2:1050:A:H2'	47:S2:1051:G:C5'	2.51	0.40
47:S2:1154:U:C2	69:SC:192:LEU:HD22	2.56	0.40
47:S2:1169:G:C6	47:S2:1170:A:C5	3.08	0.40
47:S2:1259:A:N3	47:S2:1259:A:H3'	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1263:U:H6	47:S2:1263:U:H3'	1.86	0.40
47:S2:1285:G:H1'	80:Sf:102:VAL:CG2	2.42	0.40
47:S2:1376:A:H2'	47:S2:1377:U:H5'	2.02	0.40
47:S2:1559:C:H2'	47:S2:1560:U:O5'	2.21	0.40
47:S2:1606:G:H22	47:S2:1632:G:C2'	2.34	0.40
47:S2:1644:C:H2'	47:S2:1645:C:H6	1.86	0.40
47:S2:1704:C:H2'	47:S2:1705:C:C5	2.56	0.40
48:SA:201:LEU:HD13	59:SR:83:ASN:OD1	2.21	0.40
48:SA:205:ARG:CB	48:SA:210:ILE:HG22	2.48	0.40
50:SD:71:ALA:O	50:SD:74:GLN:HB3	2.21	0.40
51:SE:198:ARG:HH11	51:SE:222:LEU:HG	1.85	0.40
52:SF:96:ALA:CB	52:SF:173:LEU:HD11	2.45	0.40
52:SF:159:ARG:HG3	52:SF:160:GLU:N	2.35	0.40
53:SH:20:GLU:CA	53:SH:23:ILE:HG12	2.51	0.40
54:SI:195:LEU:O	54:SI:199:LEU:HG	2.20	0.40
56:SL:125:ILE:HG22	56:SL:126:VAL:N	2.35	0.40
58:SQ:43:GLU:HB3	58:SQ:45:ARG:CA	2.42	0.40
58:SQ:43:GLU:HA	58:SQ:44:PRO:HD2	1.95	0.40
59:SR:119:VAL:HA	59:SR:120:THR:HA	1.84	0.40
61:ST:28:LEU:CD2	61:ST:54:TYR:HE1	2.33	0.40
62:SU:50:VAL:HG22	62:SU:51:LYS:N	2.35	0.40
62:SU:66:ARG:O	62:SU:67:LYS:CB	2.69	0.40
62:SU:98:VAL:O	62:SU:102:THR:N	2.54	0.40
64:SX:37:LYS:O	64:SX:79:LYS:NZ	2.49	0.40
66:Sc:44:ARG:CZ	66:Sc:63:ARG:HG3	2.52	0.40
68:Sg:37:ASP:C	68:Sg:38:LYS:HG2	2.46	0.40
69:SC:136:HIS:O	69:SC:162:ILE:HD11	2.20	0.40
70:SG:78:SER:OG	70:SG:79:LYS:N	2.55	0.40
70:SG:173:ALA:HA	70:SG:174:PRO:HD2	1.87	0.40
71:SJ:46:VAL:HG23	71:SJ:47:LYS:N	2.35	0.40
71:SJ:65:GLU:HA	71:SJ:70:ARG:HE	1.86	0.40
71:SJ:107:GLU:CG	71:SJ:116:LYS:HZ2	2.34	0.40
73:SN:46:THR:HB	73:SN:47:PRO:CD	2.52	0.40
73:SN:50:ILE:O	73:SN:50:ILE:HG22	2.22	0.40
73:SN:89:TYR:CE1	73:SN:150:VAL:HG13	2.56	0.40
73:SN:110:ASP:O	73:SN:113:PHE:HB3	2.21	0.40
74:SO:81:VAL:HG12	74:SO:85:CYS:SG	2.61	0.40
75:SW:69:LEU:HD12	75:SW:70:ASN:H	1.85	0.40
76:SY:22:GLN:CB	76:SY:74:MET:HE3	2.51	0.40
77:SZ:111:ARG:C	77:SZ:113:THR:N	2.78	0.40
80:Sf:87:THR:N	80:Sf:88:PRO:HD3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:64:A:C2	1:L5:76:A:C5	3.09	0.40
1:L5:131:C:C2	1:L5:132:G:C8	3.10	0.40
1:L5:231:U:O2'	27:LY:103:LYS:NZ	2.46	0.40
1:L5:406:C:N4	1:L5:407:A:N1	2.69	0.40
1:L5:408:A:H5"	1:L5:409:G:OP1	2.21	0.40
1:L5:720:G:C6	1:L5:721:G:C5	3.09	0.40
1:L5:940:C:H2'	1:L5:941:C:C6	2.57	0.40
1:L5:977:C:C5'	8:LE:62:MET:HE2	2.45	0.40
1:L5:1085:C:N3	1:L5:1213:G:N1	2.70	0.40
1:L5:1182:C:H2'	1:L5:1183:C:C5'	2.51	0.40
1:L5:1220:G:H5"	1:L5:1221:G:OP1	2.21	0.40
1:L5:1479:G:N2	1:L5:1480:C:C2	2.89	0.40
1:L5:1555:G:H2'	1:L5:1556:C:O4'	2.21	0.40
1:L5:1695:U:C6	1:L5:1695:U:C3'	3.04	0.40
1:L5:1839:U:C6	1:L5:1840:G:N2	2.89	0.40
1:L5:1907:A:C6	1:L5:1908:A:N1	2.90	0.40
1:L5:1959:U:C6	1:L5:1961:G:H1'	2.56	0.40
1:L5:1986:U:H6	1:L5:1986:U:OP2	2.03	0.40
1:L5:2067:C:O2	1:L5:2067:C:H2'	2.22	0.40
1:L5:2095:A:O2'	1:L5:2096:G:C5'	2.69	0.40
1:L5:2418:A:C6	1:L5:2419:C:N3	2.90	0.40
1:L5:2492:C:N4	1:L5:2493:G:O6	2.53	0.40
1:L5:3694:U:C4	1:L5:3695:U:C5	3.09	0.40
1:L5:3700:C:N1	1:L5:3746:A:N6	2.69	0.40
1:L5:3735:G:OP1	1:L5:3735:G:H4'	2.20	0.40
1:L5:3799:A:N3	1:L5:4506:C:O2'	2.39	0.40
1:L5:3850:C:C6	1:L5:3850:C:H3'	2.56	0.40
1:L5:3856:A:N6	1:L5:3857:G:C6	2.89	0.40
1:L5:3863:C:O5'	1:L5:3863:C:H6	2.04	0.40
1:L5:4286:C:C4	1:L5:4287:G:N7	2.89	0.40
1:L5:4476:C:H2'	1:L5:4477:A:H5'	2.03	0.40
1:L5:4489:G:N2	1:L5:4708:A:C1'	2.83	0.40
1:L5:4489:G:N7	1:L5:4490:C:C4	2.89	0.40
1:L5:4572:U:H3'	1:L5:4573:G:C8	2.56	0.40
1:L5:4653:C:H2'	1:L5:4654:C:C6	2.56	0.40
1:L5:4736:C:H2'	1:L5:4737:G:H8	1.86	0.40
1:L5:4982:A:N3	5:LB:21:ARG:NH1	2.70	0.40
1:L5:5001:U:H2'	1:L5:5002:U:O4'	2.21	0.40
5:LB:77:THR:CG2	5:LB:333:LEU:HB2	2.50	0.40
5:LB:293:ILE:CG2	5:LB:294:LYS:H	2.24	0.40
6:LC:106:LYS:CD	6:LC:108:TRP:CZ2	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:LD:55:VAL:O	7:LD:55:VAL:HG12	2.20	0.40
7:LD:132:VAL:HG22	7:LD:172:SER:HA	2.01	0.40
8:LE:50:LEU:HD21	8:LE:56:ARG:HA	2.03	0.40
8:LE:125:LEU:O	8:LE:126:LEU:HB2	2.22	0.40
9:LF:83:VAL:HG11	21:LS:62:VAL:HG22	2.02	0.40
9:LF:92:VAL:O	9:LF:120:GLY:HA2	2.21	0.40
10:LG:87:LEU:HD23	10:LG:184:ILE:CD1	2.51	0.40
11:LH:4:ILE:HD12	11:LH:61:TRP:CH2	2.56	0.40
12:LI:38:ARG:HE	12:LI:41:ALA:CB	2.24	0.40
14:LL:31:ARG:C	14:LL:34:ARG:HG2	2.45	0.40
15:LM:50:MET:HA	15:LM:51:PRO:HD3	1.94	0.40
15:LM:64:PHE:CE1	15:LM:76:ALA:HB3	2.44	0.40
15:LM:126:GLU:O	15:LM:130:LEU:HB2	2.21	0.40
17:LO:16:LEU:HB3	17:LO:43:ILE:CG2	2.51	0.40
17:LO:38:CYS:O	17:LO:41:ILE:HG13	2.20	0.40
17:LO:41:ILE:HG22	17:LO:42:ASN:N	2.36	0.40
19:LQ:63:LEU:HD23	19:LQ:112:ARG:HH12	1.77	0.40
20:LR:167:LYS:HG2	20:LR:171:LYS:CE	2.51	0.40
20:LR:169:ALA:O	20:LR:173:ARG:HG3	2.21	0.40
22:LT:64:VAL:HG12	22:LT:65:TYR:N	2.36	0.40
23:LU:29:VAL:HA	23:LU:34:MET:O	2.21	0.40
23:LU:43:LEU:HB3	23:LU:47:ILE:HD11	2.03	0.40
25:LW:86:SER:CA	25:LW:89:ASP:HB2	2.52	0.40
27:LY:70:VAL:HG22	27:LY:82:ILE:HD11	2.01	0.40
29:La:147:VAL:HG12	29:La:148:ALA:N	2.36	0.40
31:Lc:56:ARG:O	31:Lc:60:ILE:HG12	2.22	0.40
33:Le:45:VAL:CG1	33:Le:46:ARG:N	2.84	0.40
39:Lk:37:ARG:CG	39:Lk:38:CYS:N	2.85	0.40
40:Ll:27:ILE:CG2	40:Ll:28:ARG:N	2.85	0.40
43:Lo:8:ARG:HG2	43:Lo:10:THR:CG2	2.48	0.40
46:Lz:12:GLU:O	46:Lz:217:TYR:HB3	2.21	0.40
47:S2:158:A:N6	47:S2:466:G:C6	2.89	0.40
47:S2:303:C:N4	47:S2:304:C:N3	2.69	0.40
47:S2:338:G:C3'	47:S2:339:A:C5'	2.95	0.40
47:S2:347:G:N1	47:S2:348:A:C2	2.88	0.40
47:S2:535:G:C2'	47:S2:536:A:O5'	2.70	0.40
47:S2:562:U:H2'	47:S2:563:G:H8	1.86	0.40
47:S2:582:C:H5'	71:SJ:162:ARG:NH2	2.36	0.40
47:S2:597:G:C6	47:S2:598:G:C5	3.09	0.40
47:S2:619:A:O5'	47:S2:619:A:H8	2.04	0.40
47:S2:794:A:H3'	47:S2:795:A:H4'	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:813:A:O2'	51:SE:22:LYS:NZ	2.51	0.40
47:S2:836:G:H3'	47:S2:837:A:O4'	2.20	0.40
47:S2:925:G:O2'	47:S2:926:A:O4'	2.37	0.40
47:S2:944:A:C6	47:S2:945:U:N3	2.89	0.40
47:S2:1004:U:H2'	47:S2:1005:G:C8	2.56	0.40
47:S2:1182:A:H2'	47:S2:1183:A:O4'	2.21	0.40
47:S2:1255:G:H5'	47:S2:1256:G:C4'	2.51	0.40
47:S2:1285:G:C4'	80:Sf:102:VAL:HG21	2.51	0.40
47:S2:1298:G:C8	57:SP:80:LEU:HB3	2.57	0.40
47:S2:1542:C:C2	47:S2:1543:U:H5	2.39	0.40
47:S2:1568:C:H6	47:S2:1568:C:H2'	1.68	0.40
47:S2:1608:U:H4'	60:SS:130:ARG:NH1	2.35	0.40
47:S2:1648:G:N2	47:S2:1674:G:H2'	2.36	0.40
47:S2:1671:G:N7	47:S2:1672:U:C4	2.89	0.40
47:S2:1722:G:C2	47:S2:1813:A:C6	3.09	0.40
48:SA:70:ASN:HA	48:SA:71:PRO:HD2	1.96	0.40
49:SB:146:ARG:HG3	49:SB:147:ASN:N	2.37	0.40
51:SE:26:VAL:HG22	71:SJ:3:VAL:O	2.21	0.40
53:SH:66:VAL:N	53:SH:67:PRO:HD2	2.35	0.40
53:SH:146:VAL:HA	53:SH:151:SER:O	2.22	0.40
53:SH:162:GLN:O	53:SH:162:GLN:HG2	2.21	0.40
55:SK:72:THR:OG1	55:SK:75:GLY:N	2.52	0.40
57:SP:76:VAL:HG12	57:SP:76:VAL:O	2.19	0.40
60:SS:61:GLU:H	60:SS:61:GLU:CD	2.28	0.40
60:SS:132:ARG:HA	60:SS:132:ARG:HD3	1.88	0.40
63:SV:17:CYS:CB	63:SV:56:CYS:HB2	2.43	0.40
65:Sa:57:SER:HA	74:SO:126:ILE:O	2.21	0.40
68:Sg:7:LEU:CD2	68:Sg:310:TRP:CE2	3.04	0.40
68:Sg:16:GLY:HA3	68:Sg:35:SER:HB2	2.01	0.40
68:Sg:109:LEU:H	68:Sg:125:ARG:N	2.19	0.40
68:Sg:239:LEU:CD1	68:Sg:248:LEU:CD1	2.99	0.40
70:SG:58:LYS:O	70:SG:59:GLN:HG2	2.22	0.40
72:SM:17:ALA:CB	72:SM:124:ILE:CG2	2.99	0.40
80:Sf:87:THR:HG22	80:Sf:87:THR:O	2.20	0.40
1:L5:50:C:C2	1:L5:51:A:C8	3.09	0.40
1:L5:145:G:C5	1:L5:146:G:N7	2.89	0.40
1:L5:177:G:O2'	1:L5:178:C:H5'	2.19	0.40
1:L5:346:G:C6	3:L8:29:G:C6	3.09	0.40
1:L5:423:G:C4	3:L8:12:G:N2	2.89	0.40
1:L5:445:U:H6	1:L5:445:U:OP2	2.04	0.40
1:L5:500:G:N3	1:L5:500:G:C3'	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:957:G:O2'	1:L5:958:G:P	2.78	0.40
1:L5:1481:C:H1'	37:Li:4:ARG:HH21	1.85	0.40
1:L5:1727:U:C2'	1:L5:1728:U:H5'	2.52	0.40
1:L5:1815:G:O6	30:Lb:49:HIS:NE2	2.40	0.40
1:L5:1836:G:H5'	22:LT:129:LYS:HB2	2.03	0.40
1:L5:1937:C:C4	1:L5:1938:C:C5	3.10	0.40
1:L5:1962:A:O5'	1:L5:2024:G:N2	2.53	0.40
1:L5:2083:C:OP2	19:LQ:14:ARG:NH1	2.53	0.40
1:L5:2381:A:N1	1:L5:2425:U:C4	2.89	0.40
1:L5:2395:A:O2'	1:L5:2806:A:H2'	2.22	0.40
1:L5:2481:G:H5"	1:L5:2482:C:OP1	2.21	0.40
1:L5:2716:C:H2'	1:L5:2717:G:C5'	2.50	0.40
1:L5:2755:A:N6	1:L5:2756:G:C2	2.89	0.40
1:L5:2804:C:H4'	35:Lg:7:TYR:OH	2.21	0.40
1:L5:2905:C:O5'	1:L5:2905:C:H6	2.04	0.40
1:L5:3655:C:H2'	1:L5:3656:A:O4'	2.22	0.40
1:L5:3682:A:OP1	4:LA:129:ALA:HB2	2.20	0.40
1:L5:3723:A:N1	1:L5:3724:A:C6	2.90	0.40
1:L5:3904:G:H5"	1:L5:3905:A:OP2	2.20	0.40
1:L5:3927:U:O2'	1:L5:3928:A:H5'	2.21	0.40
1:L5:4089:G:H2'	1:L5:4090:G:H8	1.83	0.40
1:L5:4185:G:C2	1:L5:4186:A:C8	3.09	0.40
1:L5:4239:A:N6	1:L5:4284:C:H42	2.19	0.40
1:L5:4260:U:H5"	13:LJ:19:LYS:NZ	2.36	0.40
1:L5:4290:U:O2'	1:L5:4291:G:OP2	2.36	0.40
1:L5:4407:G:O2'	1:L5:4408:G:H5'	2.21	0.40
1:L5:4493:U:C2	1:L5:4512:U:N3	2.89	0.40
1:L5:4515:G:O2'	1:L5:4516:G:H5'	2.21	0.40
1:L5:4641:U:H2'	1:L5:4642:U:C6	2.56	0.40
1:L5:4905:C:O2'	1:L5:4906:C:H5'	2.22	0.40
3:L8:137:A:C6	3:L8:138:C:C4	3.09	0.40
4:LA:30:ARG:HB2	4:LA:74:GLU:OE1	2.22	0.40
5:LB:41:VAL:HA	5:LB:186:ASN:O	2.21	0.40
5:LB:60:VAL:CG1	5:LB:61:ASP:N	2.84	0.40
5:LB:244:THR:HG23	5:LB:247:GLY:O	2.20	0.40
6:LC:233:SER:O	6:LC:234:LYS:HG3	2.21	0.40
7:LD:88:VAL:HG12	7:LD:88:VAL:O	2.21	0.40
9:LF:70:ARG:CZ	9:LF:70:ARG:HB2	2.50	0.40
9:LF:94:ARG:CZ	9:LF:109:LEU:HD21	2.51	0.40
9:LF:144:TYR:HB2	9:LF:237:GLU:O	2.22	0.40
9:LF:165:LYS:HB3	9:LF:167:ILE:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:LG:207:VAL:CG2	10:LG:212:LYS:HA	2.51	0.40
11:LH:20:LEU:HD12	11:LH:20:LEU:C	2.47	0.40
11:LH:49:GLY:O	11:LH:53:LYS:HD2	2.22	0.40
12:LI:45:GLU:O	12:LI:47:PRO:HD3	2.21	0.40
14:LL:3:PRO:HB2	29:La:44:ASN:HD21	1.85	0.40
14:LL:107:THR:O	14:LL:110:LEU:HB3	2.22	0.40
15:LM:116:LYS:HE3	15:LM:116:LYS:HB3	1.91	0.40
16:LN:182:HIS:O	16:LN:183:THR:OG1	2.35	0.40
17:LO:81:TRP:HD1	17:LO:102:LEU:HD22	1.86	0.40
18:LP:153:LYS:O	18:LP:154:GLU:HG2	2.22	0.40
19:LQ:121:LEU:HD23	19:LQ:126:LEU:HB2	2.04	0.40
20:LR:38:ARG:O	20:LR:39:GLN:CB	2.69	0.40
22:LT:57:TYR:OH	22:LT:87:LYS:HG3	2.20	0.40
23:LU:91:LEU:HD22	23:LU:96:LEU:HD12	2.03	0.40
28:LZ:74:VAL:HG23	28:LZ:101:PHE:HZ	1.86	0.40
29:La:137:ILE:O	29:La:142:GLY:N	2.50	0.40
32:Ld:57:MET:HG3	32:Ld:104:THR:CG2	2.51	0.40
33:Le:41:ILE:HG13	33:Le:42:ASP:N	2.36	0.40
35:Lg:101:LYS:O	35:Lg:105:LYS:N	2.51	0.40
40:Ll:51:LEU:HD23	40:Ll:51:LEU:O	2.21	0.40
41:Lm:77:ILE:CG2	41:Lm:78:ILE:N	2.71	0.40
43:Lo:4:VAL:HG23	43:Lo:93:LEU:HG	2.02	0.40
43:Lo:67:VAL:CG1	43:Lo:68:LEU:N	2.84	0.40
46:Lz:68:LEU:CD2	46:Lz:85:MET:HG2	2.51	0.40
47:S2:181:A:H8	47:S2:182:C:N3	2.19	0.40
47:S2:435:A:H4'	47:S2:437:G:OP2	2.21	0.40
47:S2:879:C:H42	47:S2:881:G:H1	1.69	0.40
47:S2:902:G:C6	47:S2:903:A:C8	3.09	0.40
47:S2:956:G:HO2'	47:S2:972:A:N6	2.18	0.40
47:S2:957:A:H4'	47:S2:973:C:O2'	2.21	0.40
47:S2:988:C:N3	47:S2:989:C:H5	2.19	0.40
47:S2:1144:A:H5'	47:S2:1355:C:H41	1.81	0.40
47:S2:1178:U:O2	47:S2:1184:G:N2	2.53	0.40
47:S2:1247:C:N3	47:S2:1251:A:C2	2.89	0.40
47:S2:1384:C:C5	47:S2:1385:G:N7	2.89	0.40
47:S2:1453:C:H6	59:SR:28:PHE:CZ	2.40	0.40
47:S2:1490:G:H3'	47:S2:1490:G:P	2.60	0.40
47:S2:1592:C:H6	47:S2:1592:C:O5'	2.05	0.40
47:S2:1623:A:N3	47:S2:1623:A:C3'	2.77	0.40
47:S2:1687:C:H2'	47:S2:1688:C:H6	1.85	0.40
47:S2:1771:G:N3	47:S2:1771:G:C2'	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:SA:132:GLN:HB3	48:SA:133:PRO:HD3	2.03	0.40
48:SA:138:SER:HB2	48:SA:156:TYR:CE1	2.57	0.40
48:SA:155:ARG:C	48:SA:157:VAL:H	2.29	0.40
49:SB:150:ILE:HD12	49:SB:150:ILE:C	2.46	0.40
50:SD:171:ALA:HB3	50:SD:186:VAL:H	1.86	0.40
51:SE:15:PRO:CG	51:SE:18:TRP:CZ3	3.02	0.40
57:SP:85:ILE:HG13	57:SP:86:LEU:N	2.36	0.40
58:SQ:92:LEU:CD2	58:SQ:108:ILE:CD1	2.98	0.40
58:SQ:132:PHE:HE2	62:SU:79:ARG:NH2	2.19	0.40
59:SR:122:PRO:C	59:SR:124:VAL:H	2.30	0.40
60:SS:26:ILE:HG12	60:SS:56:ALA:HB2	2.04	0.40
60:SS:101:ASN:O	60:SS:105:ASN:ND2	2.54	0.40
61:ST:28:LEU:CG	61:ST:30:VAL:HG22	2.49	0.40
64:SX:29:LYS:HG3	64:SX:35:ALA:HB1	2.02	0.40
66:Sc:44:ARG:NH2	66:Sc:63:ARG:HG3	2.36	0.40
68:Sg:40:ILE:HD11	68:Sg:80:SER:OG	2.21	0.40
68:Sg:88:ARG:HH11	68:Sg:100:ARG:HD3	1.87	0.40
68:Sg:186:THR:HG23	68:Sg:188:HIS:CD2	2.56	0.40
68:Sg:300:ALA:HB3	68:Sg:308:ARG:O	2.21	0.40
69:SC:60:TRP:CZ3	69:SC:62:PRO:HB3	2.56	0.40
69:SC:184:VAL:HG22	69:SC:185:THR:N	2.36	0.40
70:SG:70:HIS:N	70:SG:101:ILE:HB	2.36	0.40
74:SO:65:ASP:O	74:SO:68:GLU:HB2	2.20	0.40
77:SZ:85:ARG:O	77:SZ:88:LEU:HB2	2.21	0.40
77:SZ:89:GLN:OE1	77:SZ:96:LEU:HB2	2.22	0.40
78:Sb:47:PHE:HD2	78:Sb:49:HIS:O	2.04	0.40
1:L5:228:C:H3'	1:L5:228:C:H6	1.86	0.40
1:L5:229:G:C5	1:L5:230:G:N7	2.89	0.40
1:L5:307:A:N7	1:L5:308:G:C6	2.88	0.40
1:L5:366:A:C2	1:L5:376:A:C5	3.09	0.40
1:L5:479:G:C2	1:L5:676:C:N3	2.90	0.40
1:L5:680:G:C2	1:L5:681:G:C4	3.09	0.40
1:L5:756:G:C3'	1:L5:757:G:H5"	2.52	0.40
1:L5:1089:G:C2	1:L5:1090:G:C5	3.09	0.40
1:L5:1175:A:H2'	1:L5:1176:C:C5	2.56	0.40
1:L5:1201:U:C2	1:L5:1202:C:C5	3.09	0.40
1:L5:1242:G:OP2	1:L5:1242:G:N2	2.32	0.40
1:L5:1249:C:C2	1:L5:1261:G:N2	2.89	0.40
1:L5:1349:G:C2'	1:L5:1350:C:H5'	2.52	0.40
1:L5:1379:C:C3'	1:L5:1380:G:H5"	2.52	0.40
1:L5:1385:G:O2'	1:L5:1504:G:H4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:1441:C:O5'	1:L5:2109:G:O2'	2.37	0.40
1:L5:1545:G:N2	1:L5:1615:C:O2	2.55	0.40
1:L5:1590:C:H5"	1:L5:1591:U:C4'	2.51	0.40
1:L5:1865:G:N2	1:L5:1870:C:C4	2.87	0.40
1:L5:1898:C:N4	1:L5:2279:A:H1'	2.36	0.40
1:L5:1922:G:C2	1:L5:2063:G:C5	3.08	0.40
1:L5:2064:G:N1	1:L5:2065:G:C4	2.90	0.40
1:L5:2128:G:H1'	1:L5:2246:C:C2	2.57	0.40
1:L5:2389:A:C2'	1:L5:2390:G:O5'	2.70	0.40
1:L5:2473:A:C2	1:L5:2506:G:C6	3.10	0.40
1:L5:2752:G:H22	1:L5:4125:C:N4	2.20	0.40
1:L5:2857:A:N6	1:L5:2858:A:N6	2.69	0.40
1:L5:3611:A:O2'	1:L5:5016:A:O2'	2.31	0.40
1:L5:3657:U:H3'	1:L5:3657:U:H6	1.87	0.40
1:L5:3867:A:H2	1:L5:3880:G:C5	2.38	0.40
1:L5:3918:G:N2	1:L5:3919:C:O2	2.54	0.40
1:L5:4306:U:OP1	19:LQ:158:THR:HG22	2.22	0.40
1:L5:4414:A:C5	1:L5:4427:G:N1	2.90	0.40
1:L5:4579:U:H3'	1:L5:4579:U:H6	1.86	0.40
1:L5:4637:G:H2'	1:L5:4638:U:H6	1.86	0.40
1:L5:4714:C:H2'	1:L5:4715:C:C5'	2.52	0.40
1:L5:4879:C:H3'	1:L5:4879:C:C6	2.56	0.40
4:LA:49:ILE:O	4:LA:49:ILE:HG13	2.21	0.40
7:LD:208:MET:O	7:LD:211:LEU:HB2	2.22	0.40
7:LD:209:ARG:C	7:LD:212:MET:H	2.29	0.40
8:LE:87:LYS:CE	8:LE:106:VAL:HG11	2.51	0.40
9:LF:222:LYS:HG3	9:LF:225:THR:HG22	2.02	0.40
10:LG:146:LEU:HB3	10:LG:151:LYS:O	2.21	0.40
11:LH:174:LYS:O	11:LH:175:PHE:HB2	2.22	0.40
14:LL:62:PRO:HG2	14:LL:63:THR:H	1.86	0.40
15:LM:12:VAL:C	15:LM:58:THR:HB	2.46	0.40
16:LN:138:PHE:CZ	36:Lh:93:ARG:HD2	2.53	0.40
18:LP:58:VAL:O	18:LP:58:VAL:HG12	2.21	0.40
19:LQ:44:ASN:HA	19:LQ:47:VAL:HG12	2.01	0.40
19:LQ:163:THR:HG22	19:LQ:164:LYS:N	2.36	0.40
20:LR:49:LEU:O	20:LR:50:ILE:HG23	2.22	0.40
25:LW:3:VAL:CG1	25:LW:12:LYS:HD3	2.27	0.40
28:LZ:50:PRO:HG3	28:LZ:122:TYR:CZ	2.56	0.40
28:LZ:57:MET:HG2	28:LZ:61:LYS:HE2	2.02	0.40
33:Le:32:LYS:HB3	33:Le:34:ASN:HD22	1.87	0.40
34:Lf:24:HIS:HA	34:Lf:91:ASN:OD1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:Lf:41:PHE:HD2	34:Lf:42:TYR:CD1	2.39	0.40
38:Lj:76:HIS:CG	38:Lj:79:ARG:HH22	2.40	0.40
45:Lr:73:PRO:HA	45:Lr:76:SER:OG	2.22	0.40
45:Lr:122:LYS:HA	45:Lr:123:PRO:HD3	1.80	0.40
46:Lz:3:SER:HB2	46:Lz:6:SER:OG	2.21	0.40
47:S2:22:A:C2	47:S2:23:G:C8	3.09	0.40
47:S2:27:A:C6	47:S2:28:U:C4	3.10	0.40
47:S2:189:U:P	47:S2:189:U:H6	2.44	0.40
47:S2:318:A:H2'	47:S2:319:C:H1'	2.02	0.40
47:S2:324:C:O2'	47:S2:325:C:O5'	2.26	0.40
47:S2:561:A:H5'	71:SJ:164:PRO:HG3	2.02	0.40
47:S2:604:A:HO2'	47:S2:605:A:P	2.43	0.40
47:S2:903:A:C5	47:S2:904:A:C6	3.10	0.40
47:S2:1197:G:N2	47:S2:1198:G:C1'	2.84	0.40
47:S2:1338:G:C2	47:S2:1490:G:C2	3.09	0.40
47:S2:1361:G:OP2	47:S2:1362:U:O2'	2.23	0.40
47:S2:1414:A:N6	47:S2:1419:C:H42	2.10	0.40
47:S2:1533:A:P	47:S2:1636:G:H1'	2.61	0.40
47:S2:1547:C:C5	47:S2:1548:G:C4	3.08	0.40
47:S2:1567:G:C4	60:SS:82:TRP:CZ2	3.10	0.40
47:S2:1654:G:N2	47:S2:1671:G:C2	2.90	0.40
48:SA:77:ILE:CD1	48:SA:133:PRO:HG3	2.49	0.40
49:SB:136:ARG:O	49:SB:137:LEU:HD23	2.22	0.40
50:SD:33:GLY:H	50:SD:103:GLU:HG3	1.84	0.40
50:SD:171:ALA:HB3	50:SD:186:VAL:N	2.36	0.40
53:SH:41:ARG:CZ	53:SH:41:ARG:HB2	2.51	0.40
53:SH:142:LYS:HZ2	53:SH:154:ILE:HG22	1.87	0.40
56:SL:55:TYR:CD1	56:SL:55:TYR:C	2.99	0.40
56:SL:125:ILE:CG2	56:SL:126:VAL:N	2.84	0.40
57:SP:33:LEU:O	57:SP:36:LEU:HB3	2.22	0.40
57:SP:80:LEU:HD12	57:SP:80:LEU:O	2.22	0.40
58:SQ:17:LYS:HD3	58:SQ:79:ALA:CB	2.50	0.40
59:SR:125:GLY:HA2	59:SR:127:ASN:OD1	2.21	0.40
64:SX:115:ILE:HG21	64:SX:118:VAL:CG2	2.52	0.40
67:Sd:42:CYS:O	67:Sd:45:GLN:HB3	2.21	0.40
68:Sg:20:GLN:CB	68:Sg:68:ASP:HA	2.51	0.40
68:Sg:146:SER:HA	68:Sg:175:LYS:CD	2.51	0.40
68:Sg:258:ILE:CG2	68:Sg:267:VAL:CG1	2.98	0.40
69:SC:61:MET:HA	69:SC:62:PRO:HD2	1.87	0.40
69:SC:145:LYS:HE2	69:SC:145:LYS:HB3	1.89	0.40
69:SC:154:ALA:O	69:SC:157:LEU:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:SC:260:VAL:O	69:SC:260:VAL:HG23	2.22	0.40
69:SC:265:PRO:HA	69:SC:268:GLU:N	2.36	0.40
70:SG:48:TYR:HD1	70:SG:115:LYS:HB3	1.78	0.40
70:SG:162:LEU:O	70:SG:169:PRO:HB3	2.21	0.40
73:SN:16:LEU:HD23	73:SN:16:LEU:C	2.46	0.40
73:SN:89:TYR:HE1	73:SN:150:VAL:HG22	1.85	0.40
74:SO:133:THR:OG1	74:SO:134:PRO:HD2	2.21	0.40
75:SW:129:PHE:O	75:SW:130:PHE:HB3	2.21	0.40
79:Se:46:VAL:HA	79:Se:47:PRO:HD3	1.83	0.40
1:L5:12:A:H5"	1:L5:13:U:OP2	2.21	0.40
1:L5:121:A:N3	1:L5:121:A:H2'	2.37	0.40
1:L5:298:G:N2	1:L5:299:C:O2	2.54	0.40
1:L5:678:C:O2'	1:L5:679:C:H5'	2.22	0.40
1:L5:726:G:H5"	9:LF:69:ILE:CG2	2.51	0.40
1:L5:729:G:H3'	1:L5:730:G:C5'	2.49	0.40
1:L5:920:C:O2'	1:L5:921:C:H5'	2.20	0.40
1:L5:1286:C:H3'	1:L5:1286:C:H6	1.87	0.40
1:L5:1305:C:H5"	3:L8:7:U:O2'	2.21	0.40
1:L5:1420:A:H8	19:LQ:68:ARG:HH22	1.69	0.40
1:L5:1469:C:N3	1:L5:1496:G:C2	2.89	0.40
1:L5:1501:C:H6	19:LQ:68:ARG:NH2	2.20	0.40
1:L5:1668:A:C3'	1:L5:1669:A:H5'	2.51	0.40
1:L5:1758:G:H2'	1:L5:1759:G:C5'	2.46	0.40
1:L5:1764:G:C1'	1:L5:1769:G:N1	2.81	0.40
1:L5:1787:A:OP2	1:L5:1789:C:N4	2.55	0.40
1:L5:1898:C:C5	1:L5:2279:A:H1'	2.57	0.40
1:L5:1929:A:N3	1:L5:1929:A:C2'	2.84	0.40
1:L5:2107:C:C5'	1:L5:2126:G:N1	2.82	0.40
1:L5:2128:G:H8	1:L5:2129:C:C5	2.39	0.40
1:L5:2809:G:H1'	1:L5:4644:G:H5"	2.04	0.40
1:L5:3834:C:O2	1:L5:3834:C:H2'	2.20	0.40
1:L5:3970:G:N2	1:L5:4049:U:H5'	2.36	0.40
1:L5:4127:A:O2'	1:L5:4128:A:OP2	2.33	0.40
1:L5:4321:U:C2'	1:L5:4322:G:H5'	2.52	0.40
1:L5:4683:U:C2'	1:L5:4684:A:H5'	2.51	0.40
1:L5:4924:C:H3'	1:L5:4924:C:C6	2.57	0.40
1:L5:4956:A:C2	1:L5:4957:C:C2	3.09	0.40
2:L7:14:C:N3	2:L7:66:G:N2	2.68	0.40
3:L8:28:C:H2'	3:L8:29:G:C8	2.54	0.40
5:LB:113:GLU:CD	5:LB:113:GLU:H	2.26	0.40
7:LD:132:VAL:HG21	7:LD:172:SER:HA	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:LE:121:VAL:O	8:LE:121:VAL:HG23	2.22	0.40
10:LG:59:ARG:HG2	10:LG:62:ARG:HH22	1.82	0.40
10:LG:60:TYR:CE1	10:LG:61:ILE:HG23	2.57	0.40
10:LG:147:VAL:HG12	10:LG:147:VAL:O	2.22	0.40
11:LH:123:ILE:O	11:LH:123:ILE:HG22	2.22	0.40
12:LI:115:MET:HG3	12:LI:118:ALA:HB2	2.03	0.40
13:LJ:26:VAL:HG21	13:LJ:32:ARG:NH1	2.36	0.40
13:LJ:26:VAL:HG23	13:LJ:32:ARG:HH12	1.84	0.40
13:LJ:113:ILE:O	13:LJ:116:GLY:HA2	2.21	0.40
16:LN:75:VAL:HG22	16:LN:76:PRO:HD2	2.02	0.40
19:LQ:79:THR:OG1	19:LQ:99:LYS:HD3	2.21	0.40
23:LU:43:LEU:HD12	23:LU:43:LEU:N	2.37	0.40
25:LW:82:ILE:HG13	70:SG:130:PRO:CG	2.51	0.40
26:LX:88:LYS:HD3	26:LX:88:LYS:HA	1.81	0.40
27:LY:34:LEU:HD13	27:LY:45:ARG:O	2.21	0.40
28:LZ:33:THR:HG23	28:LZ:37:PRO:HA	2.02	0.40
28:LZ:54:THR:CB	28:LZ:57:MET:HE3	2.52	0.40
33:Le:114:ARG:HH11	33:Le:117:GLN:NE2	2.16	0.40
33:Le:118:LEU:CD2	33:Le:120:ILE:HG13	2.51	0.40
38:Lj:28:HIS:CD2	38:Lj:31:LYS:HE2	2.57	0.40
45:Lr:32:LEU:CD2	45:Lr:110:ALA:HB2	2.52	0.40
45:Lr:47:LYS:HB2	45:Lr:102:TYR:OH	2.20	0.40
45:Lr:107:ARG:CG	45:Lr:108:MET:H	2.33	0.40
45:Lr:117:ILE:HG23	45:Lr:118:LEU:N	2.36	0.40
46:Lz:32:VAL:HG13	46:Lz:206:ILE:HD11	2.03	0.40
46:Lz:212:LYS:O	46:Lz:212:LYS:HG3	2.21	0.40
47:S2:43:U:H5	47:S2:485:A:N1	2.19	0.40
47:S2:436:G:O2'	47:S2:437:G:H5'	2.21	0.40
47:S2:489:A:C2	47:S2:512:A:C2	3.09	0.40
47:S2:498:C:C2'	47:S2:499:G:H5'	2.51	0.40
47:S2:600:G:C2	47:S2:601:G:C4	3.10	0.40
47:S2:859:G:O2'	47:S2:860:G:H5'	2.21	0.40
47:S2:872:A:C8	47:S2:873:G:C8	3.09	0.40
47:S2:883:U:O2	47:S2:904:A:N6	2.55	0.40
47:S2:915:G:H2'	47:S2:916:A:H5'	2.04	0.40
47:S2:1222:G:O2'	47:S2:1223:A:H5'	2.21	0.40
47:S2:1260:A:H2'	47:S2:1261:C:C5	2.56	0.40
47:S2:1307:U:H6	47:S2:1307:U:H3'	1.87	0.40
47:S2:1321:G:H2'	47:S2:1322:G:O4'	2.21	0.40
47:S2:1344:A:C2	47:S2:1345:G:H1'	2.56	0.40
47:S2:1366:G:H21	47:S2:1374:C:H1'	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S2:1726:G:C2	47:S2:1809:A:N3	2.89	0.40
47:S2:1744:G:C4	47:S2:1789:G:N1	2.90	0.40
47:S2:1796:G:H2'	47:S2:1797:U:O4'	2.22	0.40
48:SA:58:LEU:HD21	48:SA:177:MET:CG	2.51	0.40
48:SA:167:GLY:O	48:SA:171:VAL:HG21	2.22	0.40
50:SD:184:ILE:HG22	50:SD:185:LYS:N	2.35	0.40
51:SE:115:THR:O	51:SE:119:ALA:HB2	2.21	0.40
52:SF:127:ARG:HG3	52:SF:137:GLN:CB	2.51	0.40
52:SF:176:GLU:C	52:SF:179:ASN:HB2	2.46	0.40
53:SH:14:GLU:CB	53:SH:16:PRO:HD2	2.52	0.40
53:SH:65:PRO:CD	53:SH:68:GLN:HE22	2.34	0.40
53:SH:124:ALA:O	53:SH:128:ALA:HB2	2.22	0.40
54:SI:21:TYR:CZ	54:SI:22:HIS:ND1	2.90	0.40
56:SL:54:THR:HG22	56:SL:54:THR:O	2.20	0.40
58:SQ:109:LYS:HA	58:SQ:112:LEU:CG	2.51	0.40
58:SQ:120:LEU:HD12	58:SQ:120:LEU:N	2.36	0.40
60:SS:80:PRO:HG2	60:SS:83:PHE:CE2	2.56	0.40
62:SU:27:ARG:NH1	67:Sd:51:GLY:HA3	2.36	0.40
65:Sa:41:ILE:O	65:Sa:41:ILE:HG12	2.21	0.40
68:Sg:5:MET:HE1	68:Sg:258:ILE:HG12	2.02	0.40
68:Sg:239:LEU:HD12	68:Sg:250:ALA:CB	2.51	0.40
69:SC:77:SER:C	69:SC:97:PHE:CE1	2.99	0.40
70:SG:48:TYR:HE2	70:SG:113:ILE:HD13	1.86	0.40
70:SG:66:GLY:HA2	70:SG:68:LEU:HD13	2.03	0.40
70:SG:98:ARG:NH2	70:SG:101:ILE:O	2.54	0.40
70:SG:157:VAL:HG22	70:SG:158:VAL:N	2.36	0.40
71:SJ:113:GLN:OE1	71:SJ:116:LYS:HE3	2.21	0.40
71:SJ:114:VAL:HG13	71:SJ:119:LEU:CD1	2.51	0.40
73:SN:119:GLU:HG3	73:SN:141:TYR:CE2	2.56	0.40
75:SW:105:THR:HG22	75:SW:124:LYS:O	2.22	0.40
76:SY:25:ILE:HD12	76:SY:57:VAL:CG1	2.48	0.40
76:SY:41:ARG:HE	76:SY:55:ILE:CG2	2.35	0.40
76:SY:51:THR:O	76:SY:53:ASP:N	2.55	0.40
76:SY:55:ILE:CG1	76:SY:75:ILE:HG12	2.51	0.40
78:Sb:27:SER:HA	78:Sb:28:PRO:HD2	1.84	0.40
79:Se:38:TYR:C	79:Se:40:ARG:H	2.29	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	
4	LA	246/257 (96%)	212 (86%)	27 (11%)	7 (3%)	4	27
5	LB	400/403 (99%)	342 (86%)	44 (11%)	14 (4%)	3	24
6	LC	366/427 (86%)	333 (91%)	26 (7%)	7 (2%)	6	35
7	LD	291/297 (98%)	250 (86%)	30 (10%)	11 (4%)	2	22
8	LE	239/288 (83%)	198 (83%)	31 (13%)	10 (4%)	2	20
9	LF	223/248 (90%)	202 (91%)	16 (7%)	5 (2%)	5	32
10	LG	239/266 (90%)	210 (88%)	17 (7%)	12 (5%)	1	17
11	LH	188/192 (98%)	153 (81%)	31 (16%)	4 (2%)	5	33
12	LI	211/214 (99%)	174 (82%)	26 (12%)	11 (5%)	1	16
13	LJ	174/178 (98%)	157 (90%)	12 (7%)	5 (3%)	3	27
14	LL	208/211 (99%)	184 (88%)	15 (7%)	9 (4%)	2	19
15	LM	137/215 (64%)	122 (89%)	11 (8%)	4 (3%)	3	27
16	LN	201/204 (98%)	179 (89%)	19 (10%)	3 (2%)	8	39
17	LO	199/203 (98%)	183 (92%)	16 (8%)	0	100	100
18	LP	151/184 (82%)	132 (87%)	14 (9%)	5 (3%)	3	25
19	LQ	185/188 (98%)	168 (91%)	13 (7%)	4 (2%)	5	32
20	LR	185/196 (94%)	171 (92%)	13 (7%)	1 (0%)	25	59
21	LS	173/176 (98%)	148 (86%)	24 (14%)	1 (1%)	22	55
22	LT	157/160 (98%)	136 (87%)	18 (12%)	3 (2%)	6	35
23	LU	99/128 (77%)	81 (82%)	16 (16%)	2 (2%)	6	34
24	LV	129/140 (92%)	109 (84%)	17 (13%)	3 (2%)	5	31
25	LW	122/157 (78%)	104 (85%)	14 (12%)	4 (3%)	3	25
26	LX	115/156 (74%)	99 (86%)	12 (10%)	4 (4%)	3	24
27	LY	132/145 (91%)	119 (90%)	9 (7%)	4 (3%)	3	26
28	LZ	133/136 (98%)	118 (89%)	14 (10%)	1 (1%)	16	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
29	La	145/148 (98%)	119 (82%)	19 (13%)	7 (5%)	2	17
30	Lb	73/157 (46%)	66 (90%)	6 (8%)	1 (1%)	9	40
31	Lc	96/115 (84%)	87 (91%)	9 (9%)	0	100	100
32	Ld	105/125 (84%)	89 (85%)	16 (15%)	0	100	100
33	Le	126/135 (93%)	114 (90%)	10 (8%)	2 (2%)	8	38
34	Lf	107/110 (97%)	93 (87%)	12 (11%)	2 (2%)	6	35
35	Lg	109/117 (93%)	101 (93%)	7 (6%)	1 (1%)	14	48
36	Lh	120/123 (98%)	115 (96%)	4 (3%)	1 (1%)	16	51
37	Li	100/105 (95%)	94 (94%)	6 (6%)	0	100	100
38	Lj	84/97 (87%)	74 (88%)	8 (10%)	2 (2%)	5	30
39	Lk	67/70 (96%)	57 (85%)	7 (10%)	3 (4%)	2	18
40	Ll	48/51 (94%)	41 (85%)	6 (12%)	1 (2%)	5	33
41	Lm	50/128 (39%)	47 (94%)	3 (6%)	0	100	100
42	Ln	22/25 (88%)	20 (91%)	1 (4%)	1 (4%)	2	18
43	Lo	103/106 (97%)	90 (87%)	11 (11%)	2 (2%)	6	35
44	Lp	89/92 (97%)	77 (86%)	11 (12%)	1 (1%)	12	45
45	Lr	123/137 (90%)	108 (88%)	12 (10%)	3 (2%)	5	30
46	Lz	215/217 (99%)	174 (81%)	30 (14%)	11 (5%)	1	16
48	SA	219/295 (74%)	200 (91%)	14 (6%)	5 (2%)	5	31
49	SB	212/264 (80%)	177 (84%)	28 (13%)	7 (3%)	3	25
50	SD	225/243 (93%)	190 (84%)	26 (12%)	9 (4%)	2	21
51	SE	260/263 (99%)	221 (85%)	30 (12%)	9 (4%)	3	24
52	SF	185/204 (91%)	158 (85%)	21 (11%)	6 (3%)	3	25
53	SH	187/194 (96%)	154 (82%)	31 (17%)	2 (1%)	12	45
54	SI	204/208 (98%)	173 (85%)	26 (13%)	5 (2%)	4	29
55	SK	96/165 (58%)	80 (83%)	12 (12%)	4 (4%)	2	20
56	SL	151/158 (96%)	127 (84%)	20 (13%)	4 (3%)	4	28
57	SP	95/145 (66%)	77 (81%)	12 (13%)	6 (6%)	1	13
58	SQ	144/146 (99%)	125 (87%)	10 (7%)	9 (6%)	1	13
59	SR	130/135 (96%)	109 (84%)	14 (11%)	7 (5%)	1	15
60	SS	148/152 (97%)	126 (85%)	19 (13%)	3 (2%)	6	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
61	ST	141/145 (97%)	124 (88%)	14 (10%)	3 (2%)	5	33
62	SU	102/119 (86%)	87 (85%)	9 (9%)	6 (6%)	1	14
63	SV	81/83 (98%)	64 (79%)	15 (18%)	2 (2%)	4	29
64	SX	139/143 (97%)	120 (86%)	12 (9%)	7 (5%)	1	17
65	Sa	105/115 (91%)	87 (83%)	11 (10%)	7 (7%)	1	12
66	Sc	62/69 (90%)	52 (84%)	7 (11%)	3 (5%)	2	17
67	Sd	51/56 (91%)	46 (90%)	5 (10%)	0	100	100
68	Sg	311/317 (98%)	253 (81%)	44 (14%)	14 (4%)	2	18
69	SC	220/293 (75%)	194 (88%)	22 (10%)	4 (2%)	7	35
70	SG	235/249 (94%)	196 (83%)	31 (13%)	8 (3%)	3	25
71	SJ	183/194 (94%)	161 (88%)	18 (10%)	4 (2%)	5	32
72	SM	120/132 (91%)	93 (78%)	23 (19%)	4 (3%)	3	25
73	SN	148/151 (98%)	133 (90%)	10 (7%)	5 (3%)	3	25
74	SO	138/151 (91%)	116 (84%)	20 (14%)	2 (1%)	9	40
75	SW	127/130 (98%)	106 (84%)	19 (15%)	2 (2%)	8	38
76	SY	129/133 (97%)	113 (88%)	10 (8%)	6 (5%)	2	18
77	SZ	73/125 (58%)	55 (75%)	16 (22%)	2 (3%)	4	28
78	Sb	81/84 (96%)	65 (80%)	13 (16%)	3 (4%)	2	22
79	Se	56/133 (42%)	47 (84%)	5 (9%)	4 (7%)	1	11
80	Sf	65/156 (42%)	51 (78%)	10 (15%)	4 (6%)	1	13
All	All	11508/12977 (89%)	9930 (86%)	1240 (11%)	338 (3%)	6	27

All (338) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	LA	118	GLU
4	LA	130	SER
4	LA	239	ALA
5	LB	334	LYS
6	LC	200	ARG
7	LD	234	ASP
9	LF	163	ASN
9	LF	197	VAL
10	LG	165	GLU
10	LG	197	LYS

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Mol	Chain	Res	Type
11	LH	116	ASN
12	LI	33	ILE
12	LI	79	SER
13	LJ	122	SER
14	LL	55	ILE
14	LL	144	LEU
18	LP	21	ASN
22	LT	126	VAL
24	LV	18	LEU
25	LW	97	LYS
25	LW	98	PRO
26	LX	40	ILE
38	Lj	40	PRO
48	SA	111	GLN
49	SB	140	VAL
49	SB	191	ASP
50	SD	198	ILE
50	SD	222	PRO
51	SE	98	ASN
51	SE	248	ILE
55	SK	91	PRO
58	SQ	45	ARG
59	SR	82	ASP
59	SR	95	ILE
60	SS	12	ILE
61	ST	141	ALA
64	SX	10	ALA
65	Sa	89	ARG
65	Sa	100	ARG
65	Sa	102	ARG
68	Sg	13	GLY
68	Sg	179	LEU
68	Sg	203	ASP
70	SG	126	ASP
72	SM	94	ILE
74	SO	33	ILE
78	Sb	38	PRO
5	LB	27	GLY
6	LC	92	PHE
7	LD	3	PHE
7	LD	29	ASP
7	LD	57	ASN

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Mol	Chain	Res	Type
7	LD	93	THR
7	LD	265	ARG
8	LE	124	LYS
8	LE	130	LYS
9	LF	25	PHE
9	LF	237	GLU
10	LG	75	LYS
10	LG	127	ASP
11	LH	50	LYS
11	LH	176	LEU
12	LI	104	SER
12	LI	111	LEU
12	LI	165	ILE
14	LL	47	ALA
15	LM	95	ILE
16	LN	89	VAL
16	LN	163	GLY
18	LP	61	ARG
18	LP	64	ASN
19	LQ	5	ILE
19	LQ	185	GLY
20	LR	134	ASN
23	LU	28	PRO
24	LV	138	SER
25	LW	82	ILE
28	LZ	5	MET
29	La	22	ILE
29	La	24	LYS
29	La	127	LYS
33	Le	127	ALA
34	Lf	94	ALA
38	Lj	15	THR
46	Lz	29	LEU
46	Lz	202	ARG
49	SB	154	SER
51	SE	131	VAL
51	SE	144	ALA
51	SE	196	THR
52	SF	39	ILE
52	SF	58	ALA
53	SH	113	LYS
54	SI	5	ARG

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Mol	Chain	Res	Type
55	SK	63	ALA
56	SL	118	ARG
57	SP	63	ALA
57	SP	71	GLU
57	SP	88	GLU
57	SP	92	SER
58	SQ	57	LEU
59	SR	42	PRO
61	ST	4	VAL
63	SV	78	ILE
65	Sa	47	ALA
68	Sg	28	PRO
68	Sg	143	GLN
68	Sg	262	GLU
68	Sg	268	ASP
68	Sg	283	PRO
69	SC	228	GLY
70	SG	29	GLU
70	SG	147	LEU
71	SJ	4	ALA
71	SJ	138	ARG
71	SJ	147	PHE
71	SJ	172	ARG
73	SN	66	VAL
73	SN	83	ASP
76	SY	94	HIS
77	SZ	108	ILE
78	Sb	37	CYS
79	Se	47	PRO
80	Sf	88	PRO
4	LA	192	LYS
5	LB	322	HIS
5	LB	391	PRO
6	LC	187	GLN
6	LC	212	ASN
7	LD	7	VAL
7	LD	113	PHE
7	LD	125	VAL
8	LE	222	LEU
8	LE	279	ASN
9	LF	185	ILE
10	LG	195	HIS

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Mol	Chain	Res	Type
12	LI	178	ALA
13	LJ	152	GLY
14	LL	62	PRO
14	LL	106	SER
14	LL	107	THR
14	LL	189	ALA
14	LL	197	LYS
15	LM	33	GLN
15	LM	96	GLU
16	LN	90	ASN
21	LS	155	PRO
25	LW	99	GLU
27	LY	83	GLU
27	LY	110	LYS
29	La	27	LYS
33	Le	52	GLN
34	Lf	105	LEU
35	Lg	57	ARG
40	Ll	39	SER
42	Ln	23	ARG
45	Lr	125	MET
46	Lz	2	SER
46	Lz	183	ILE
49	SB	190	PRO
50	SD	214	LYS
51	SE	25	GLY
51	SE	104	ASP
53	SH	82	GLU
54	SI	127	ALA
56	SL	144	LYS
58	SQ	21	ALA
58	SQ	35	ASN
58	SQ	41	MET
58	SQ	115	TYR
60	SS	90	VAL
60	SS	109	GLU
61	ST	118	ASP
62	SU	45	GLU
62	SU	70	CYS
62	SU	106	ILE
64	SX	65	ALA
64	SX	139	GLU

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Mol	Chain	Res	Type
66	Sc	39	SER
66	Sc	56	LEU
69	SC	111	PRO
70	SG	25	ARG
74	SO	15	ILE
77	SZ	112	ASN
80	Sf	106	TYR
4	LA	196	TRP
4	LA	245	ARG
5	LB	128	LYS
5	LB	158	GLN
5	LB	293	ILE
5	LB	327	THR
5	LB	392	LEU
6	LC	186	SER
7	LD	58	ARG
8	LE	111	LYS
8	LE	226	ARG
10	LG	106	THR
10	LG	107	LYS
10	LG	123	ALA
10	LG	157	ILE
12	LI	91	LEU
12	LI	194	GLY
12	LI	198	LYS
13	LJ	109	ILE
14	LL	50	PRO
19	LQ	94	GLU
19	LQ	95	VAL
22	LT	22	HIS
22	LT	136	ARG
24	LV	91	LYS
26	LX	39	LYS
26	LX	92	ASP
27	LY	58	VAL
29	La	30	GLY
39	Lk	23	VAL
43	Lo	89	LYS
43	Lo	96	ASP
44	Lp	59	SER
45	Lr	20	ARG
46	Lz	100	VAL

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Mol	Chain	Res	Type
46	Lz	172	VAL
46	Lz	206	ILE
48	SA	11	LYS
48	SA	23	THR
48	SA	125	THR
50	SD	84	VAL
51	SE	30	ARG
52	SF	28	VAL
55	SK	65	ARG
56	SL	3	ASP
59	SR	121	GLN
62	SU	108	PRO
64	SX	52	LEU
65	Sa	46	GLU
68	Sg	247	TRP
68	Sg	292	SER
70	SG	12	CYS
70	SG	172	LYS
72	SM	123	VAL
73	SN	8	GLY
76	SY	19	GLN
76	SY	53	ASP
76	SY	102	THR
78	Sb	51	GLN
79	Se	43	VAL
79	Se	52	LYS
80	Sf	101	ALA
4	LA	116	LEU
5	LB	127	LYS
5	LB	303	ALA
6	LC	318	PRO
10	LG	163	PRO
23	LU	67	LYS
26	LX	69	ASN
29	La	119	LYS
36	Lh	89	ARG
39	Lk	30	ASP
46	Lz	35	GLN
46	Lz	61	PRO
46	Lz	162	VAL
46	Lz	208	SER
50	SD	93	THR

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Mol	Chain	Res	Type
51	SE	207	VAL
52	SF	136	ARG
54	SI	35	ASN
55	SK	30	PRO
57	SP	17	TYR
58	SQ	29	ASN
58	SQ	108	ILE
59	SR	9	VAL
59	SR	86	PRO
59	SR	110	ASP
62	SU	67	LYS
63	SV	20	SER
64	SX	87	ASN
65	Sa	41	ILE
65	Sa	84	VAL
68	Sg	62	HIS
68	Sg	145	GLU
69	SC	77	SER
70	SG	87	ARG
70	SG	121	ILE
72	SM	103	VAL
72	SM	113	ASP
73	SN	61	ALA
73	SN	103	GLU
75	SW	66	THR
76	SY	13	MET
76	SY	60	PHE
5	LB	210	VAL
5	LB	306	ASP
7	LD	192	ALA
8	LE	47	ASN
8	LE	128	HIS
8	LE	229	GLU
10	LG	128	VAL
11	LH	120	GLU
12	LI	140	THR
15	LM	32	ASP
18	LP	106	GLY
18	LP	117	ILE
29	La	20	GLY
49	SB	89	GLU
49	SB	222	LYS

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Mol	Chain	Res	Type
50	SD	31	GLU
50	SD	44	THR
50	SD	223	ILE
54	SI	142	SER
56	SL	70	GLY
58	SQ	17	LYS
64	SX	100	VAL
66	Sc	64	GLU
79	Se	11	LYS
80	Sf	137	ASP
13	LJ	68	ILE
30	Lb	21	ILE
39	Lk	63	GLY
50	SD	219	PRO
64	SX	66	ILE
69	SC	189	GLY
62	SU	63	ILE
75	SW	76	SER
48	SA	123	VAL
52	SF	129	GLY
68	Sg	275	ILE
5	LB	18	PRO
8	LE	131	LYS
10	LG	140	VAL
12	LI	135	ILE
13	LJ	117	ILE
45	Lr	42	GLY
52	SF	169	ILE
57	SP	95	GLY
68	Sg	31	ILE
6	LC	51	PRO
27	LY	79	VAL
49	SB	91	VAL
54	SI	97	VAL

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 PDB entries followed by that with respect to all EM entries.

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	
4	LA	190/199 (96%)	190 (100%)	0	100	100
5	LB	348/349 (100%)	348 (100%)	0	100	100
6	LC	306/348 (88%)	306 (100%)	0	100	100
7	LD	246/250 (98%)	246 (100%)	0	100	100
8	LE	216/252 (86%)	216 (100%)	0	100	100
9	LF	194/215 (90%)	193 (100%)	1 (0%)	86	93
10	LG	203/223 (91%)	203 (100%)	0	100	100
11	LH	169/171 (99%)	169 (100%)	0	100	100
12	LI	180/181 (99%)	180 (100%)	0	100	100
13	LJ	148/149 (99%)	148 (100%)	0	100	100
14	LL	176/177 (99%)	176 (100%)	0	100	100
15	LM	118/161 (73%)	118 (100%)	0	100	100
16	LN	171/172 (99%)	171 (100%)	0	100	100
17	LO	173/174 (99%)	173 (100%)	0	100	100
18	LP	134/163 (82%)	134 (100%)	0	100	100
19	LQ	164/165 (99%)	164 (100%)	0	100	100
20	LR	166/175 (95%)	166 (100%)	0	100	100
21	LS	156/157 (99%)	156 (100%)	0	100	100
22	LT	139/140 (99%)	139 (100%)	0	100	100
23	LU	91/115 (79%)	91 (100%)	0	100	100
24	LV	101/107 (94%)	101 (100%)	0	100	100
25	LW	103/126 (82%)	103 (100%)	0	100	100
26	LX	107/133 (80%)	107 (100%)	0	100	100
27	LY	124/135 (92%)	124 (100%)	0	100	100
28	LZ	117/118 (99%)	117 (100%)	0	100	100
29	La	120/121 (99%)	119 (99%)	1 (1%)	79	88
30	Lb	63/125 (50%)	63 (100%)	0	100	100
31	Lc	83/97 (86%)	83 (100%)	0	100	100
32	Ld	98/110 (89%)	98 (100%)	0	100	100
33	Le	114/121 (94%)	114 (100%)	0	100	100
34	Lf	88/89 (99%)	88 (100%)	0	100	100
35	Lg	97/100 (97%)	97 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
36	Lh	109/110 (99%)	109 (100%)	0	100	100
37	Li	86/89 (97%)	86 (100%)	0	100	100
38	Lj	73/80 (91%)	72 (99%)	1 (1%)	62	79
39	Lk	64/65 (98%)	64 (100%)	0	100	100
40	Ll	47/48 (98%)	47 (100%)	0	100	100
41	Lm	48/116 (41%)	48 (100%)	0	100	100
42	Ln	23/24 (96%)	17 (74%)	6 (26%)	0	3
43	Lo	93/94 (99%)	92 (99%)	1 (1%)	70	83
44	Lp	74/75 (99%)	74 (100%)	0	100	100
45	Lr	109/121 (90%)	109 (100%)	0	100	100
46	Lz	195/196 (100%)	195 (100%)	0	100	100
48	SA	183/243 (75%)	183 (100%)	0	100	100
49	SB	195/231 (84%)	195 (100%)	0	100	100
50	SD	190/202 (94%)	190 (100%)	0	100	100
51	SE	224/225 (100%)	222 (99%)	2 (1%)	75	87
52	SF	157/170 (92%)	157 (100%)	0	100	100
53	SH	169/174 (97%)	169 (100%)	0	100	100
54	SI	178/180 (99%)	178 (100%)	0	100	100
55	SK	89/136 (65%)	89 (100%)	0	100	100
56	SL	137/142 (96%)	137 (100%)	0	100	100
57	SP	87/130 (67%)	87 (100%)	0	100	100
58	SQ	121/121 (100%)	121 (100%)	0	100	100
59	SR	120/122 (98%)	120 (100%)	0	100	100
60	SS	130/132 (98%)	130 (100%)	0	100	100
61	ST	113/115 (98%)	113 (100%)	0	100	100
62	SU	94/107 (88%)	94 (100%)	0	100	100
63	SV	67/67 (100%)	67 (100%)	0	100	100
64	SX	113/115 (98%)	113 (100%)	0	100	100
65	Sa	90/98 (92%)	90 (100%)	0	100	100
66	Sc	57/62 (92%)	57 (100%)	0	100	100
67	Sd	47/49 (96%)	47 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
68	Sg	272/275 (99%)	271 (100%)	1 (0%)	89	95
69	SC	188/225 (84%)	187 (100%)	1 (0%)	86	93
70	SG	207/218 (95%)	207 (100%)	0	100	100
71	SJ	161/168 (96%)	161 (100%)	0	100	100
72	SM	104/108 (96%)	104 (100%)	0	100	100
73	SN	130/131 (99%)	130 (100%)	0	100	100
74	SO	110/119 (92%)	110 (100%)	0	100	100
75	SW	112/113 (99%)	111 (99%)	1 (1%)	75	87
76	SY	113/115 (98%)	113 (100%)	0	100	100
77	SZ	66/103 (64%)	66 (100%)	0	100	100
78	Sb	75/76 (99%)	75 (100%)	0	100	100
79	Se	47/104 (45%)	47 (100%)	0	100	100
80	Sf	60/140 (43%)	60 (100%)	0	100	100
All	All	10030/11052 (91%)	10015 (100%)	15 (0%)	92	97

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
9	LF	25	PHE
29	La	24	LYS
38	Lj	69	ILE
42	Ln	11	ARG
42	Ln	12	ARG
42	Ln	13	LEU
42	Ln	16	LYS
42	Ln	19	LYS
42	Ln	20	MET
43	Lo	68	LEU
51	SE	162	ILE
51	SE	248	ILE
68	Sg	258	ILE
69	SC	94	ILE
75	SW	52	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (170) such sidechains are listed below:

Mol	Chain	Res	Type
4	LA	50	HIS
4	LA	140	ASN
4	LA	194	ASN
4	LA	216	HIS
5	LB	55	HIS
5	LB	204	GLN
5	LB	258	HIS
5	LB	275	HIS
5	LB	302	ASN
6	LC	21	ASN
6	LC	41	HIS
6	LC	116	ASN
6	LC	119	GLN
6	LC	142	HIS
6	LC	215	ASN
6	LC	329	ASN
6	LC	343	GLN
7	LD	63	GLN
7	LD	225	GLN
7	LD	250	ASN
7	LD	275	GLN
8	LE	157	HIS
8	LE	191	GLN
8	LE	227	HIS
8	LE	256	GLN
9	LF	39	GLN
9	LF	110	GLN
9	LF	116	GLN
9	LF	192	HIS
11	LH	39	ASN
11	LH	98	HIS
11	LH	188	GLN
12	LI	130	HIS
12	LI	143	GLN
12	LI	144	ASN
14	LL	67	HIS
14	LL	87	HIS
14	LL	104	ASN
14	LL	111	GLN
15	LM	20	HIS
15	LM	34	ASN
15	LM	48	GLN
15	LM	56	GLN

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Mol	Chain	Res	Type
15	LM	70	GLN
16	LN	15	GLN
16	LN	156	HIS
18	LP	56	GLN
18	LP	116	HIS
18	LP	118	GLN
18	LP	133	HIS
18	LP	145	HIS
19	LQ	7	HIS
19	LQ	21	GLN
19	LQ	162	HIS
22	LT	58	HIS
22	LT	114	GLN
24	LV	77	HIS
24	LV	107	ASN
24	LV	108	ASN
25	LW	95	ASN
26	LX	57	GLN
26	LX	107	HIS
27	LY	14	ASN
27	LY	24	HIS
27	LY	127	GLN
28	LZ	40	HIS
28	LZ	78	ASN
29	La	25	HIS
29	La	39	HIS
29	La	40	HIS
29	La	41	HIS
29	La	66	ASN
30	Lb	17	HIS
30	Lb	42	ASN
30	Lb	61	ASN
32	Ld	28	ASN
32	Ld	121	ASN
33	Le	34	ASN
33	Le	102	ASN
33	Le	117	GLN
34	Lf	21	GLN
34	Lf	78	HIS
34	Lf	99	HIS
35	Lg	28	ASN
36	Lh	62	ASN

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Mol	Chain	Res	Type
36	Lh	65	GLN
38	Lj	57	ASN
38	Lj	66	HIS
40	Ll	4	HIS
43	Lo	21	HIS
43	Lo	105	GLN
45	Lr	4	HIS
45	Lr	6	GLN
45	Lr	23	GLN
45	Lr	30	ASN
45	Lr	95	HIS
46	Lz	40	ASN
46	Lz	188	ASN
48	SA	9	GLN
48	SA	84	GLN
48	SA	111	GLN
48	SA	113	GLN
49	SB	43	ASN
49	SB	75	GLN
49	SB	147	ASN
50	SD	101	GLN
51	SE	142	HIS
51	SE	216	ASN
52	SF	74	ASN
52	SF	83	ASN
52	SF	107	ASN
52	SF	148	ASN
52	SF	179	ASN
53	SH	112	ASN
53	SH	162	GLN
53	SH	163	GLN
53	SH	165	ASN
53	SH	168	HIS
54	SI	9	HIS
54	SI	44	HIS
54	SI	64	ASN
54	SI	99	ASN
54	SI	165	GLN
54	SI	167	GLN
55	SK	73	ASN
56	SL	18	GLN
56	SL	65	ASN

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Mol	Chain	Res	Type
56	SL	83	GLN
56	SL	141	ASN
58	SQ	86	GLN
59	SR	56	HIS
60	SS	17	ASN
60	SS	73	ASN
60	SS	105	ASN
61	ST	11	GLN
61	ST	128	GLN
62	SU	47	ASN
63	SV	29	HIS
63	SV	47	ASN
63	SV	82	ASN
65	Sa	86	ASN
66	Sc	26	GLN
67	Sd	16	GLN
68	Sg	20	GLN
68	Sg	119	GLN
68	Sg	133	ASN
68	Sg	159	ASN
68	Sg	191	HIS
68	Sg	196	ASN
68	Sg	222	ASN
70	SG	65	GLN
70	SG	197	GLN
70	SG	225	GLN
71	SJ	143	ASN
72	SM	19	GLN
72	SM	52	GLN
72	SM	99	ASN
72	SM	119	GLN
73	SN	101	HIS
75	SW	44	HIS
75	SW	113	HIS
76	SY	15	ASN
76	SY	22	GLN
76	SY	29	HIS
76	SY	112	ASN
78	Sb	9	HIS
78	Sb	49	HIS
78	Sb	51	GLN
79	Se	58	ASN

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Mol	Chain	Res	Type
80	Sf	135	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	L5	3706/5070 (73%)	1339 (36%)	102 (2%)
2	L7	119/121 (98%)	33 (27%)	1 (0%)
3	L8	155/157 (98%)	47 (30%)	4 (2%)
47	S2	1715/1869 (91%)	697 (40%)	41 (2%)
All	All	5695/7217 (78%)	2116 (37%)	148 (2%)

All (2116) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	L5	2	G
1	L5	3	C
1	L5	13	U
1	L5	17	A
1	L5	18	C
1	L5	23	C
1	L5	24	G
1	L5	25	A
1	L5	26	C
1	L5	30	C
1	L5	35	U
1	L5	36	U
1	L5	39	A
1	L5	42	A
1	L5	43	U
1	L5	44	A
1	L5	48	G
1	L5	59	A
1	L5	64	A
1	L5	65	A
1	L5	66	A
1	L5	70	A
1	L5	72	C
1	L5	73	A
1	L5	74	G
1	L5	78	U
1	L5	84	A

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Mol	Chain	Res	Type
1	L5	88	A
1	L5	90	G
1	L5	91	G
1	L5	93	G
1	L5	108	A
1	L5	109	G
1	L5	117	C
1	L5	119	G
1	L5	120	A
1	L5	121	A
1	L5	122	U
1	L5	127	G
1	L5	133	C
1	L5	134	G
1	L5	135	G
1	L5	140	G
1	L5	143	C
1	L5	155	C
1	L5	159	C
1	L5	160	G
1	L5	168	C
1	L5	171	U
1	L5	172	C
1	L5	173	C
1	L5	175	C
1	L5	179	G
1	L5	180	C
1	L5	181	C
1	L5	183	C
1	L5	184	U
1	L5	185	C
1	L5	186	G
1	L5	188	G
1	L5	189	G
1	L5	200	U
1	L5	208	A
1	L5	209	U
1	L5	217	C
1	L5	218	A
1	L5	219	G
1	L5	234	G
1	L5	236	G

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Mol	Chain	Res	Type
1	L5	238	C
1	L5	246	G
1	L5	250	C
1	L5	255	C
1	L5	256	G
1	L5	265	C
1	L5	266	C
1	L5	272	U
1	L5	274	C
1	L5	278	G
1	L5	280	G
1	L5	289	C
1	L5	295	A
1	L5	296	A
1	L5	297	U
1	L5	306	A
1	L5	315	G
1	L5	316	U
1	L5	326	C
1	L5	340	C
1	L5	346	G
1	L5	349	A
1	L5	354	U
1	L5	357	U
1	L5	360	A
1	L5	362	A
1	L5	363	A
1	L5	364	G
1	L5	370	U
1	L5	371	A
1	L5	384	A
1	L5	386	A
1	L5	387	G
1	L5	388	A
1	L5	393	U
1	L5	396	A
1	L5	407	A
1	L5	409	G
1	L5	410	A
1	L5	412	G
1	L5	413	G
1	L5	415	G

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Mol	Chain	Res	Type
1	L5	418	A
1	L5	419	A
1	L5	433	A
1	L5	434	A
1	L5	435	A
1	L5	438	G
1	L5	445	U
1	L5	449	C
1	L5	450	G
1	L5	451	C
1	L5	452	A
1	L5	453	G
1	L5	454	U
1	L5	461	G
1	L5	462	G
1	L5	463	A
1	L5	464	G
1	L5	465	G
1	L5	467	U
1	L5	468	U
1	L5	469	C
1	L5	471	A
1	L5	472	C
1	L5	473	C
1	L5	481	G
1	L5	485	C
1	L5	486	C
1	L5	487	G
1	L5	490	C
1	L5	495	C
1	L5	499	G
1	L5	500	G
1	L5	501	C
1	L5	502	C
1	L5	503	C
1	L5	504	G
1	L5	507	G
1	L5	509	A
1	L5	510	U
1	L5	512	U
1	L5	513	U
1	L5	514	U

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Mol	Chain	Res	Type
1	L5	516	C
1	L5	517	C
1	L5	518	G
1	L5	519	C
1	L5	643	C
1	L5	644	G
1	L5	654	C
1	L5	655	C
1	L5	656	C
1	L5	657	C
1	L5	662	C
1	L5	664	G
1	L5	665	C
1	L5	666	G
1	L5	667	A
1	L5	668	C
1	L5	669	C
1	L5	671	G
1	L5	684	G
1	L5	685	C
1	L5	686	A
1	L5	687	U
1	L5	693	C
1	L5	694	C
1	L5	695	G
1	L5	696	C
1	L5	697	G
1	L5	703	G
1	L5	704	C
1	L5	705	G
1	L5	721	G
1	L5	728	U
1	L5	730	G
1	L5	733	A
1	L5	737	C
1	L5	739	G
1	L5	742	G
1	L5	744	G
1	L5	746	A
1	L5	747	A
1	L5	748	G
1	L5	749	G

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Mol	Chain	Res	Type
1	L5	752	G
1	L5	754	U
1	L5	755	C
1	L5	756	G
1	L5	757	G
1	L5	907	C
1	L5	909	A
1	L5	910	G
1	L5	913	U
1	L5	915	A
1	L5	916	C
1	L5	917	A
1	L5	918	G
1	L5	919	C
1	L5	920	C
1	L5	926	G
1	L5	927	G
1	L5	928	C
1	L5	930	G
1	L5	931	C
1	L5	932	A
1	L5	933	G
1	L5	936	C
1	L5	937	U
1	L5	938	C
1	L5	939	G
1	L5	940	C
1	L5	942	G
1	L5	944	A
1	L5	945	U
1	L5	946	C
1	L5	947	C
1	L5	957	G
1	L5	958	G
1	L5	959	G
1	L5	960	A
1	L5	961	G
1	L5	962	C
1	L5	963	G
1	L5	964	A
1	L5	965	G
1	L5	966	A

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Mol	Chain	Res	Type
1	L5	967	C
1	L5	969	C
1	L5	970	G
1	L5	971	U
1	L5	976	G
1	L5	982	U
1	L5	989	U
1	L5	990	C
1	L5	991	C
1	L5	992	C
1	L5	993	G
1	L5	995	C
1	L5	996	G
1	L5	1048	G
1	L5	1051	G
1	L5	1066	G
1	L5	1070	G
1	L5	1071	C
1	L5	1072	C
1	L5	1073	G
1	L5	1076	C
1	L5	1078	A
1	L5	1079	C
1	L5	1080	C
1	L5	1081	C
1	L5	1082	C
1	L5	1083	U
1	L5	1085	C
1	L5	1089	G
1	L5	1094	G
1	L5	1096	C
1	L5	1169	G
1	L5	1172	C
1	L5	1173	G
1	L5	1178	G
1	L5	1179	U
1	L5	1180	C
1	L5	1181	C
1	L5	1182	C
1	L5	1184	A
1	L5	1185	G
1	L5	1191	C

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Mol	Chain	Res	Type
1	L5	1192	C
1	L5	1193	C
1	L5	1194	G
1	L5	1196	G
1	L5	1200	G
1	L5	1201	U
1	L5	1203	G
1	L5	1204	C
1	L5	1210	C
1	L5	1211	G
1	L5	1214	C
1	L5	1215	C
1	L5	1216	C
1	L5	1218	G
1	L5	1220	G
1	L5	1221	G
1	L5	1222	A
1	L5	1233	G
1	L5	1234	G
1	L5	1237	C
1	L5	1238	A
1	L5	1239	C
1	L5	1240	G
1	L5	1242	G
1	L5	1243	C
1	L5	1245	C
1	L5	1247	U
1	L5	1254	A
1	L5	1256	G
1	L5	1257	A
1	L5	1258	G
1	L5	1267	C
1	L5	1268	G
1	L5	1269	G
1	L5	1270	A
1	L5	1271	G
1	L5	1272	C
1	L5	1273	G
1	L5	1274	A
1	L5	1275	G
1	L5	1276	C
1	L5	1277	G

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Mol	Chain	Res	Type
1	L5	1278	C
1	L5	1279	A
1	L5	1280	C
1	L5	1281	G
1	L5	1282	G
1	L5	1285	U
1	L5	1288	G
1	L5	1289	C
1	L5	1295	C
1	L5	1300	G
1	L5	1301	C
1	L5	1303	A
1	L5	1308	C
1	L5	1315	C
1	L5	1317	U
1	L5	1318	C
1	L5	1320	U
1	L5	1322	A
1	L5	1326	A
1	L5	1339	U
1	L5	1344	C
1	L5	1352	C
1	L5	1354	A
1	L5	1358	G
1	L5	1359	G
1	L5	1361	G
1	L5	1364	U
1	L5	1365	C
1	L5	1366	G
1	L5	1367	C
1	L5	1368	A
1	L5	1369	C
1	L5	1370	G
1	L5	1372	A
1	L5	1377	G
1	L5	1378	C
1	L5	1379	C
1	L5	1385	G
1	L5	1387	A
1	L5	1388	A
1	L5	1393	G
1	L5	1394	G

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Mol	Chain	Res	Type
1	L5	1397	A
1	L5	1398	A
1	L5	1401	C
1	L5	1402	C
1	L5	1403	G
1	L5	1405	C
1	L5	1406	G
1	L5	1409	C
1	L5	1410	U
1	L5	1413	C
1	L5	1414	C
1	L5	1415	G
1	L5	1416	G
1	L5	1417	C
1	L5	1420	A
1	L5	1421	G
1	L5	1433	A
1	L5	1437	C
1	L5	1441	C
1	L5	1445	U
1	L5	1446	C
1	L5	1447	C
1	L5	1453	G
1	L5	1457	G
1	L5	1461	C
1	L5	1462	A
1	L5	1472	C
1	L5	1480	C
1	L5	1481	C
1	L5	1482	G
1	L5	1483	C
1	L5	1484	G
1	L5	1485	C
1	L5	1486	C
1	L5	1493	G
1	L5	1494	U
1	L5	1497	A
1	L5	1498	G
1	L5	1501	C
1	L5	1502	G
1	L5	1503	A
1	L5	1513	U

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Mol	Chain	Res	Type
1	L5	1517	G
1	L5	1518	A
1	L5	1523	A
1	L5	1525	A
1	L5	1529	G
1	L5	1530	G
1	L5	1531	U
1	L5	1534	A
1	L5	1535	C
1	L5	1547	A
1	L5	1551	C
1	L5	1552	G
1	L5	1554	A
1	L5	1563	A
1	L5	1566	C
1	L5	1570	G
1	L5	1577	G
1	L5	1578	U
1	L5	1582	U
1	L5	1584	G
1	L5	1588	U
1	L5	1590	C
1	L5	1591	U
1	L5	1597	G
1	L5	1600	A
1	L5	1605	G
1	L5	1607	C
1	L5	1612	G
1	L5	1613	A
1	L5	1614	C
1	L5	1620	U
1	L5	1624	G
1	L5	1625	G
1	L5	1627	G
1	L5	1630	A
1	L5	1631	A
1	L5	1632	A
1	L5	1633	G
1	L5	1634	A
1	L5	1636	U
1	L5	1641	G
1	L5	1643	A

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Mol	Chain	Res	Type
1	L5	1649	U
1	L5	1650	A
1	L5	1654	G
1	L5	1658	G
1	L5	1660	U
1	L5	1661	C
1	L5	1663	C
1	L5	1671	U
1	L5	1676	C
1	L5	1680	G
1	L5	1682	A
1	L5	1691	G
1	L5	1696	C
1	L5	1697	G
1	L5	1698	C
1	L5	1699	A
1	L5	1719	A
1	L5	1721	G
1	L5	1722	C
1	L5	1723	A
1	L5	1724	G
1	L5	1728	U
1	L5	1731	C
1	L5	1733	G
1	L5	1734	G
1	L5	1735	U
1	L5	1741	G
1	L5	1742	A
1	L5	1750	G
1	L5	1754	U
1	L5	1757	U
1	L5	1758	G
1	L5	1759	G
1	L5	1760	G
1	L5	1761	G
1	L5	1763	C
1	L5	1764	G
1	L5	1765	A
1	L5	1766	A
1	L5	1767	A
1	L5	1768	C
1	L5	1769	G

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Mol	Chain	Res	Type
1	L5	1770	A
1	L5	1772	C
1	L5	1773	U
1	L5	1775	A
1	L5	1776	A
1	L5	1779	U
1	L5	1780	A
1	L5	1787	A
1	L5	1791	U
1	L5	1799	G
1	L5	1803	G
1	L5	1804	A
1	L5	1805	A
1	L5	1808	C
1	L5	1812	C
1	L5	1815	G
1	L5	1819	G
1	L5	1821	G
1	L5	1822	U
1	L5	1832	C
1	L5	1833	G
1	L5	1834	U
1	L5	1835	G
1	L5	1836	G
1	L5	1838	A
1	L5	1842	G
1	L5	1844	G
1	L5	1851	G
1	L5	1855	G
1	L5	1866	U
1	L5	1867	A
1	L5	1869	G
1	L5	1870	C
1	L5	1879	C
1	L5	1881	C
1	L5	1882	U
1	L5	1883	G
1	L5	1897	A
1	L5	1899	G
1	L5	1900	C
1	L5	1910	G
1	L5	1912	G

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Mol	Chain	Res	Type
1	L5	1916	G
1	L5	1918	U
1	L5	1919	G
1	L5	1920	C
1	L5	1921	C
1	L5	1923	A
1	L5	1926	C
1	L5	1927	U
1	L5	1932	A
1	L5	1936	C
1	L5	1941	A
1	L5	1948	G
1	L5	1951	G
1	L5	1952	G
1	L5	1956	A
1	L5	1957	U
1	L5	1959	U
1	L5	1960	A
1	L5	1961	G
1	L5	1964	A
1	L5	1965	G
1	L5	1966	C
1	L5	1967	A
1	L5	1968	G
1	L5	1969	G
1	L5	1970	A
1	L5	1971	C
1	L5	1972	G
1	L5	1974	U
1	L5	1975	G
1	L5	1976	G
1	L5	1979	A
1	L5	1980	U
1	L5	1981	G
1	L5	1982	G
1	L5	1983	A
1	L5	1984	A
1	L5	1985	G
1	L5	1986	U
1	L5	1987	C
1	L5	1989	G
1	L5	1990	A

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Mol	Chain	Res	Type
1	L5	1995	G
1	L5	1997	U
1	L5	1998	A
1	L5	1999	A
1	L5	2000	G
1	L5	2001	G
1	L5	2002	A
1	L5	2003	G
1	L5	2005	G
1	L5	2007	G
1	L5	2008	U
1	L5	2009	A
1	L5	2010	A
1	L5	2011	C
1	L5	2012	A
1	L5	2013	A
1	L5	2015	U
1	L5	2016	C
1	L5	2017	A
1	L5	2018	C
1	L5	2019	C
1	L5	2020	U
1	L5	2023	C
1	L5	2024	G
1	L5	2025	A
1	L5	2026	A
1	L5	2031	C
1	L5	2033	A
1	L5	2042	A
1	L5	2044	U
1	L5	2046	G
1	L5	2048	U
1	L5	2051	C
1	L5	2054	U
1	L5	2055	G
1	L5	2056	G
1	L5	2057	A
1	L5	2058	G
1	L5	2064	G
1	L5	2066	C
1	L5	2069	A
1	L5	2070	U

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Mol	Chain	Res	Type
1	L5	2071	A
1	L5	2076	G
1	L5	2080	U
1	L5	2084	C
1	L5	2085	G
1	L5	2090	U
1	L5	2091	C
1	L5	2092	G
1	L5	2093	A
1	L5	2094	G
1	L5	2095	A
1	L5	2096	G
1	L5	2097	U
1	L5	2099	G
1	L5	2100	A
1	L5	2101	C
1	L5	2103	G
1	L5	2104	G
1	L5	2105	A
1	L5	2106	G
1	L5	2107	C
1	L5	2108	G
1	L5	2109	G
1	L5	2110	C
1	L5	2111	G
1	L5	2112	G
1	L5	2113	G
1	L5	2114	G
1	L5	2115	G
1	L5	2116	C
1	L5	2117	G
1	L5	2118	G
1	L5	2119	C
1	L5	2120	G
1	L5	2121	C
1	L5	2122	G
1	L5	2123	C
1	L5	2124	G
1	L5	2125	C
1	L5	2126	G
1	L5	2127	C
1	L5	2128	G

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Mol	Chain	Res	Type
1	L5	2130	G
1	L5	2245	G
1	L5	2246	C
1	L5	2247	C
1	L5	2248	C
1	L5	2249	C
1	L5	2250	C
1	L5	2251	G
1	L5	2252	G
1	L5	2254	G
1	L5	2255	C
1	L5	2256	C
1	L5	2257	C
1	L5	2258	C
1	L5	2259	G
1	L5	2261	G
1	L5	2262	G
1	L5	2263	A
1	L5	2264	C
1	L5	2265	G
1	L5	2266	C
1	L5	2267	U
1	L5	2268	A
1	L5	2287	G
1	L5	2288	G
1	L5	2289	C
1	L5	2290	C
1	L5	2295	C
1	L5	2297	G
1	L5	2301	G
1	L5	2306	G
1	L5	2307	A
1	L5	2308	A
1	L5	2313	A
1	L5	2315	G
1	L5	2321	G
1	L5	2327	G
1	L5	2328	G
1	L5	2331	G
1	L5	2332	A
1	L5	2333	G
1	L5	2341	A

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Mol	Chain	Res	Type
1	L5	2343	G
1	L5	2344	U
1	L5	2345	G
1	L5	2346	C
1	L5	2347	A
1	L5	2348	G
1	L5	2350	U
1	L5	2351	C
1	L5	2360	A
1	L5	2361	G
1	L5	2366	A
1	L5	2369	U
1	L5	2370	A
1	L5	2375	A
1	L5	2379	A
1	L5	2382	A
1	L5	2389	A
1	L5	2390	G
1	L5	2391	G
1	L5	2394	G
1	L5	2397	G
1	L5	2402	G
1	L5	2406	G
1	L5	2407	G
1	L5	2409	U
1	L5	2412	A
1	L5	2413	U
1	L5	2421	G
1	L5	2426	U
1	L5	2438	A
1	L5	2441	C
1	L5	2444	U
1	L5	2450	G
1	L5	2461	G
1	L5	2465	C
1	L5	2468	U
1	L5	2470	C
1	L5	2471	G
1	L5	2474	G
1	L5	2476	G
1	L5	2478	C
1	L5	2482	C

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Mol	Chain	Res	Type
1	L5	2483	G
1	L5	2485	U
1	L5	2486	G
1	L5	2488	C
1	L5	2489	C
1	L5	2490	U
1	L5	2491	C
1	L5	2494	U
1	L5	2495	U
1	L5	2496	G
1	L5	2499	C
1	L5	2502	G
1	L5	2503	G
1	L5	2504	C
1	L5	2505	C
1	L5	2506	G
1	L5	2507	A
1	L5	2511	A
1	L5	2513	A
1	L5	2519	U
1	L5	2520	C
1	L5	2529	A
1	L5	2544	G
1	L5	2546	G
1	L5	2547	G
1	L5	2548	C
1	L5	2553	A
1	L5	2554	U
1	L5	2556	G
1	L5	2563	C
1	L5	2567	G
1	L5	2569	G
1	L5	2571	C
1	L5	2572	C
1	L5	2573	A
1	L5	2576	G
1	L5	2583	C
1	L5	2586	G
1	L5	2587	A
1	L5	2588	C
1	L5	2589	C
1	L5	2600	A

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Mol	Chain	Res	Type
1	L5	2601	A
1	L5	2602	G
1	L5	2607	C
1	L5	2618	G
1	L5	2627	C
1	L5	2632	U
1	L5	2637	U
1	L5	2653	C
1	L5	2660	A
1	L5	2661	U
1	L5	2662	G
1	L5	2670	C
1	L5	2673	G
1	L5	2675	G
1	L5	2676	A
1	L5	2681	G
1	L5	2687	U
1	L5	2695	A
1	L5	2696	A
1	L5	2700	G
1	L5	2702	C
1	L5	2703	G
1	L5	2707	U
1	L5	2708	U
1	L5	2710	C
1	L5	2711	G
1	L5	2712	G
1	L5	2714	G
1	L5	2719	C
1	L5	2721	G
1	L5	2725	A
1	L5	2726	G
1	L5	2727	C
1	L5	2730	U
1	L5	2731	C
1	L5	2732	G
1	L5	2739	C
1	L5	2743	A
1	L5	2744	A
1	L5	2754	G
1	L5	2756	G
1	L5	2761	U

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Mol	Chain	Res	Type
1	L5	2762	G
1	L5	2763	U
1	L5	2767	U
1	L5	2768	C
1	L5	2769	U
1	L5	2770	C
1	L5	2772	C
1	L5	2776	G
1	L5	2787	A
1	L5	2788	U
1	L5	2789	A
1	L5	2794	C
1	L5	2795	A
1	L5	2796	G
1	L5	2797	C
1	L5	2798	A
1	L5	2802	C
1	L5	2807	A
1	L5	2810	U
1	L5	2819	U
1	L5	2820	C
1	L5	2826	U
1	L5	2827	G
1	L5	2828	U
1	L5	2835	A
1	L5	2836	A
1	L5	2854	G
1	L5	2855	G
1	L5	2856	C
1	L5	2858	A
1	L5	2860	C
1	L5	2870	A
1	L5	2872	C
1	L5	2873	U
1	L5	2875	C
1	L5	2876	G
1	L5	2878	G
1	L5	2879	A
1	L5	2882	A
1	L5	2887	U
1	L5	2894	A
1	L5	2897	G

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Mol	Chain	Res	Type
1	L5	2899	C
1	L5	2902	G
1	L5	2903	G
1	L5	2904	U
1	L5	2905	C
1	L5	2906	G
1	L5	2907	G
1	L5	2908	U
1	L5	2910	G
1	L5	3585	G
1	L5	3590	G
1	L5	3591	C
1	L5	3592	G
1	L5	3593	C
1	L5	3595	U
1	L5	3596	A
1	L5	3597	G
1	L5	3600	G
1	L5	3604	A
1	L5	3605	C
1	L5	3606	U
1	L5	3607	U
1	L5	3615	G
1	L5	3616	U
1	L5	3617	G
1	L5	3619	G
1	L5	3620	G
1	L5	3625	G
1	L5	3626	G
1	L5	3635	A
1	L5	3637	U
1	L5	3643	A
1	L5	3644	U
1	L5	3646	A
1	L5	3653	A
1	L5	3654	G
1	L5	3660	C
1	L5	3661	G
1	L5	3662	A
1	L5	3664	G
1	L5	3670	C
1	L5	3671	G

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Mol	Chain	Res	Type
1	L5	3672	G
1	L5	3673	C
1	L5	3674	G
1	L5	3678	G
1	L5	3680	U
1	L5	3682	A
1	L5	3692	A
1	L5	3694	U
1	L5	3698	G
1	L5	3709	U
1	L5	3710	G
1	L5	3711	A
1	L5	3712	A
1	L5	3713	U
1	L5	3727	A
1	L5	3728	A
1	L5	3733	A
1	L5	3734	U
1	L5	3735	G
1	L5	3739	C
1	L5	3748	A
1	L5	3750	G
1	L5	3753	G
1	L5	3757	G
1	L5	3758	U
1	L5	3760	A
1	L5	3761	C
1	L5	3762	U
1	L5	3764	U
1	L5	3765	G
1	L5	3766	A
1	L5	3767	C
1	L5	3768	U
1	L5	3769	C
1	L5	3770	U
1	L5	3771	C
1	L5	3773	U
1	L5	3774	A
1	L5	3775	A
1	L5	3776	G
1	L5	3777	G
1	L5	3778	U

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Mol	Chain	Res	Type
1	L5	3783	A
1	L5	3784	A
1	L5	3785	A
1	L5	3786	U
1	L5	3787	G
1	L5	3793	U
1	L5	3794	C
1	L5	3802	U
1	L5	3803	A
1	L5	3811	G
1	L5	3812	C
1	L5	3814	U
1	L5	3817	A
1	L5	3818	U
1	L5	3819	G
1	L5	3822	U
1	L5	3831	U
1	L5	3839	G
1	L5	3840	U
1	L5	3867	A
1	L5	3869	C
1	L5	3877	A
1	L5	3878	C
1	L5	3880	G
1	L5	3882	C
1	L5	3885	G
1	L5	3889	G
1	L5	3890	A
1	L5	3895	G
1	L5	3897	G
1	L5	3901	A
1	L5	3902	A
1	L5	3905	A
1	L5	3906	A
1	L5	3907	G
1	L5	3908	A
1	L5	3909	C
1	L5	3914	U
1	L5	3915	U
1	L5	3923	A
1	L5	3929	G
1	L5	3938	G

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Mol	Chain	Res	Type
1	L5	3939	G
1	L5	3940	U
1	L5	3942	A
1	L5	3943	A
1	L5	3947	A
1	L5	3948	C
1	L5	3949	A
1	L5	3950	U
1	L5	3951	G
1	L5	3952	A
1	L5	3953	G
1	L5	3954	A
1	L5	3955	G
1	L5	3956	G
1	L5	3957	U
1	L5	3959	U
1	L5	3960	A
1	L5	3961	G
1	L5	3962	A
1	L5	3965	A
1	L5	3966	A
1	L5	3968	U
1	L5	3969	G
1	L5	3970	G
1	L5	3972	A
1	L5	3973	G
1	L5	3974	G
1	L5	3975	C
1	L5	3976	C
1	L5	4035	G
1	L5	4036	G
1	L5	4037	C
1	L5	4038	C
1	L5	4040	C
1	L5	4042	G
1	L5	4043	G
1	L5	4044	U
1	L5	4046	A
1	L5	4047	A
1	L5	4048	A
1	L5	4050	A
1	L5	4051	C

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Mol	Chain	Res	Type
1	L5	4052	C
1	L5	4053	A
1	L5	4054	C
1	L5	4056	A
1	L5	4057	C
1	L5	4059	C
1	L5	4060	U
1	L5	4061	G
1	L5	4062	A
1	L5	4066	U
1	L5	4069	U
1	L5	4070	U
1	L5	4071	U
1	L5	4076	G
1	L5	4084	G
1	L5	4085	A
1	L5	4086	G
1	L5	4088	C
1	L5	4095	G
1	L5	4096	C
1	L5	4099	G
1	L5	4101	C
1	L5	4102	C
1	L5	4104	G
1	L5	4105	A
1	L5	4106	G
1	L5	4107	G
1	L5	4108	G
1	L5	4109	G
1	L5	4111	U
1	L5	4112	C
1	L5	4113	U
1	L5	4114	C
1	L5	4115	G
1	L5	4116	C
1	L5	4117	U
1	L5	4119	C
1	L5	4120	U
1	L5	4121	G
1	L5	4122	G
1	L5	4124	G
1	L5	4125	C

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Mol	Chain	Res	Type
1	L5	4127	A
1	L5	4128	A
1	L5	4135	G
1	L5	4140	C
1	L5	4141	G
1	L5	4142	C
1	L5	4143	G
1	L5	4144	C
1	L5	4145	C
1	L5	4162	C
1	L5	4163	U
1	L5	4167	G
1	L5	4168	G
1	L5	4169	G
1	L5	4173	G
1	L5	4183	G
1	L5	4185	G
1	L5	4188	U
1	L5	4191	G
1	L5	4194	U
1	L5	4195	G
1	L5	4196	G
1	L5	4204	C
1	L5	4205	A
1	L5	4212	A
1	L5	4214	A
1	L5	4219	A
1	L5	4222	G
1	L5	4229	U
1	L5	4233	A
1	L5	4234	A
1	L5	4244	A
1	L5	4250	G
1	L5	4251	A
1	L5	4253	A
1	L5	4254	G
1	L5	4275	G
1	L5	4280	A
1	L5	4286	C
1	L5	4288	C
1	L5	4289	U
1	L5	4291	G

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Mol	Chain	Res	Type
1	L5	4292	A
1	L5	4302	U
1	L5	4303	C
1	L5	4304	A
1	L5	4305	G
1	L5	4306	U
1	L5	4314	C
1	L5	4319	C
1	L5	4326	G
1	L5	4328	G
1	L5	4330	G
1	L5	4332	C
1	L5	4338	G
1	L5	4339	A
1	L5	4342	C
1	L5	4349	C
1	L5	4350	C
1	L5	4354	U
1	L5	4355	G
1	L5	4369	A
1	L5	4376	A
1	L5	4377	G
1	L5	4378	A
1	L5	4380	A
1	L5	4381	A
1	L5	4382	G
1	L5	4383	U
1	L5	4387	C
1	L5	4391	G
1	L5	4393	G
1	L5	4394	A
1	L5	4395	U
1	L5	4398	C
1	L5	4410	G
1	L5	4415	A
1	L5	4420	U
1	L5	4422	A
1	L5	4440	G
1	L5	4442	U
1	L5	4443	C
1	L5	4448	G
1	L5	4449	A

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Mol	Chain	Res	Type
1	L5	4450	U
1	L5	4452	U
1	L5	4464	A
1	L5	4465	U
1	L5	4466	C
1	L5	4475	G
1	L5	4476	C
1	L5	4477	A
1	L5	4479	A
1	L5	4499	G
1	L5	4500	U
1	L5	4509	U
1	L5	4510	A
1	L5	4512	U
1	L5	4513	A
1	L5	4518	A
1	L5	4519	C
1	L5	4524	G
1	L5	4528	G
1	L5	4532	U
1	L5	4537	C
1	L5	4549	G
1	L5	4555	U
1	L5	4556	U
1	L5	4560	C
1	L5	4565	C
1	L5	4569	U
1	L5	4573	G
1	L5	4574	U
1	L5	4575	G
1	L5	4581	G
1	L5	4583	C
1	L5	4585	U
1	L5	4589	A
1	L5	4590	A
1	L5	4591	U
1	L5	4600	G
1	L5	4601	U
1	L5	4605	A
1	L5	4606	G
1	L5	4617	G
1	L5	4624	A

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Mol	Chain	Res	Type
1	L5	4629	U
1	L5	4634	U
1	L5	4635	A
1	L5	4636	U
1	L5	4637	G
1	L5	4646	U
1	L5	4649	G
1	L5	4652	G
1	L5	4656	A
1	L5	4657	U
1	L5	4670	C
1	L5	4677	U
1	L5	4694	G
1	L5	4695	C
1	L5	4700	A
1	L5	4707	A
1	L5	4708	A
1	L5	4709	U
1	L5	4715	C
1	L5	4718	G
1	L5	4720	C
1	L5	4730	C
1	L5	4731	G
1	L5	4732	G
1	L5	4733	C
1	L5	4741	C
1	L5	4743	G
1	L5	4746	C
1	L5	4749	C
1	L5	4750	G
1	L5	4753	U
1	L5	4754	G
1	L5	4756	C
1	L5	4757	C
1	L5	4758	U
1	L5	4759	C
1	L5	4760	G
1	L5	4764	A
1	L5	4770	U
1	L5	4771	C
1	L5	4772	C
1	L5	4773	C

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Mol	Chain	Res	Type
1	L5	4775	C
1	L5	4776	G
1	L5	4860	G
1	L5	4861	G
1	L5	4862	G
1	L5	4863	G
1	L5	4865	C
1	L5	4869	U
1	L5	4871	C
1	L5	4872	G
1	L5	4873	G
1	L5	4874	A
1	L5	4875	G
1	L5	4876	U
1	L5	4878	C
1	L5	4882	U
1	L5	4883	C
1	L5	4884	G
1	L5	4886	C
1	L5	4887	C
1	L5	4888	U
1	L5	4889	G
1	L5	4890	G
1	L5	4894	A
1	L5	4895	C
1	L5	4896	G
1	L5	4897	G
1	L5	4899	G
1	L5	4900	C
1	L5	4901	G
1	L5	4902	C
1	L5	4903	G
1	L5	4910	G
1	L5	4912	G
1	L5	4913	G
1	L5	4914	C
1	L5	4919	G
1	L5	4923	C
1	L5	4924	C
1	L5	4925	U
1	L5	4926	C
1	L5	4927	G

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Mol	Chain	Res	Type
1	L5	4928	C
1	L5	4931	G
1	L5	4936	G
1	L5	4938	A
1	L5	4941	G
1	L5	4942	C
1	L5	4944	C
1	L5	4947	U
1	L5	4948	C
1	L5	4949	G
1	L5	4950	U
1	L5	4951	G
1	L5	4952	G
1	L5	4958	C
1	L5	4959	U
1	L5	4961	G
1	L5	4962	C
1	L5	4963	G
1	L5	4964	C
1	L5	4966	A
1	L5	4967	A
1	L5	4976	U
1	L5	4978	G
1	L5	4979	A
1	L5	4981	G
1	L5	4987	C
1	L5	4988	U
1	L5	4989	U
1	L5	4991	U
1	L5	4992	G
1	L5	5014	A
1	L5	5017	G
1	L5	5023	C
1	L5	5024	C
1	L5	5025	C
1	L5	5026	U
1	L5	5027	C
1	L5	5028	G
1	L5	5034	A
1	L5	5039	U
1	L5	5041	G
1	L5	5047	C

Continued on next page...

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Mol	Chain	Res	Type
1	L5	5048	A
1	L5	5050	C
1	L5	5054	C
1	L5	5055	G
1	L5	5060	A
1	L5	5061	A
1	L5	5062	G
1	L5	5063	G
1	L5	5068	G
1	L5	5069	U
2	L7	2	U
2	L7	7	G
2	L7	12	U
2	L7	13	A
2	L7	14	C
2	L7	19	C
2	L7	22	A
2	L7	23	A
2	L7	25	G
2	L7	27	G
2	L7	31	G
2	L7	33	U
2	L7	34	C
2	L7	40	U
2	L7	47	G
2	L7	49	A
2	L7	54	A
2	L7	63	C
2	L7	64	G
2	L7	68	C
2	L7	74	A
2	L7	75	G
2	L7	81	G
2	L7	89	G
2	L7	97	G
2	L7	100	A
2	L7	101	A
2	L7	103	A
2	L7	104	C
2	L7	110	G
2	L7	111	C
2	L7	117	G

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Mol	Chain	Res	Type
2	L7	120	U
3	L8	2	G
3	L8	13	G
3	L8	23	C
3	L8	34	U
3	L8	35	C
3	L8	38	U
3	L8	39	G
3	L8	48	A
3	L8	52	A
3	L8	59	A
3	L8	63	U
3	L8	74	U
3	L8	79	G
3	L8	81	C
3	L8	82	A
3	L8	83	C
3	L8	84	A
3	L8	85	U
3	L8	86	U
3	L8	87	G
3	L8	88	A
3	L8	94	G
3	L8	100	U
3	L8	103	A
3	L8	104	A
3	L8	105	C
3	L8	107	C
3	L8	110	U
3	L8	111	U
3	L8	112	G
3	L8	113	C
3	L8	114	G
3	L8	118	C
3	L8	119	C
3	L8	123	U
3	L8	124	U
3	L8	125	C
3	L8	126	C
3	L8	127	U
3	L8	128	C
3	L8	129	C

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Mol	Chain	Res	Type
3	L8	135	C
3	L8	150	C
3	L8	151	G
3	L8	154	G
3	L8	155	C
3	L8	156	U
47	S2	2	A
47	S2	3	C
47	S2	4	C
47	S2	8	U
47	S2	11	A
47	S2	17	C
47	S2	25	A
47	S2	26	U
47	S2	33	G
47	S2	40	A
47	S2	41	G
47	S2	44	U
47	S2	45	A
47	S2	46	A
47	S2	47	G
47	S2	56	G
47	S2	59	U
47	S2	60	A
47	S2	62	G
47	S2	64	A
47	S2	65	C
47	S2	67	C
47	S2	68	A
47	S2	69	C
47	S2	70	G
47	S2	71	G
47	S2	72	C
47	S2	73	C
47	S2	74	G
47	S2	75	G
47	S2	76	U
47	S2	77	A
47	S2	78	C
47	S2	79	A
47	S2	80	G
47	S2	81	U

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Mol	Chain	Res	Type
47	S2	82	G
47	S2	84	A
47	S2	92	A
47	S2	99	A
47	S2	101	U
47	S2	103	A
47	S2	105	U
47	S2	113	G
47	S2	115	U
47	S2	118	C
47	S2	122	G
47	S2	126	G
47	S2	127	C
47	S2	140	C
47	S2	141	A
47	S2	143	U
47	S2	146	G
47	S2	148	U
47	S2	154	U
47	S2	155	G
47	S2	159	A
47	S2	160	U
47	S2	162	C
47	S2	167	G
47	S2	168	C
47	S2	170	A
47	S2	175	A
47	S2	180	G
47	S2	181	A
47	S2	183	G
47	S2	184	G
47	S2	187	G
47	S2	191	A
47	S2	194	C
47	S2	195	C
47	S2	196	C
47	S2	198	U
47	S2	199	C
47	S2	201	C
47	S2	202	G
47	S2	203	G
47	S2	206	G

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Mol	Chain	Res	Type
47	S2	208	G
47	S2	209	A
47	S2	214	U
47	S2	215	G
47	S2	216	C
47	S2	219	U
47	S2	225	G
47	S2	290	U
47	S2	291	G
47	S2	292	A
47	S2	293	C
47	S2	294	U
47	S2	295	C
47	S2	304	C
47	S2	305	U
47	S2	306	C
47	S2	307	G
47	S2	308	G
47	S2	309	G
47	S2	312	G
47	S2	313	A
47	S2	314	U
47	S2	315	C
47	S2	316	G
47	S2	319	C
47	S2	320	G
47	S2	323	C
47	S2	324	C
47	S2	325	C
47	S2	328	U
47	S2	329	G
47	S2	330	G
47	S2	331	C
47	S2	339	A
47	S2	340	C
47	S2	347	G
47	S2	362	C
47	S2	364	A
47	S2	368	U
47	S2	369	C
47	S2	370	G
47	S2	371	A

Continued on next page...

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Mol	Chain	Res	Type
47	S2	384	U
47	S2	385	G
47	S2	386	C
47	S2	393	U
47	S2	399	C
47	S2	400	C
47	S2	404	G
47	S2	407	G
47	S2	408	A
47	S2	409	C
47	S2	413	G
47	S2	417	C
47	S2	418	A
47	S2	419	G
47	S2	421	G
47	S2	435	A
47	S2	447	A
47	S2	448	A
47	S2	450	C
47	S2	451	G
47	S2	452	G
47	S2	453	C
47	S2	454	U
47	S2	455	A
47	S2	462	C
47	S2	463	C
47	S2	464	A
47	S2	465	A
47	S2	466	G
47	S2	471	G
47	S2	472	C
47	S2	473	A
47	S2	474	G
47	S2	482	G
47	S2	487	U
47	S2	488	U
47	S2	489	A
47	S2	490	C
47	S2	492	C
47	S2	495	U
47	S2	496	C
47	S2	499	G

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Mol	Chain	Res	Type
47	S2	501	C
47	S2	502	C
47	S2	503	C
47	S2	504	G
47	S2	508	A
47	S2	516	A
47	S2	517	C
47	S2	518	G
47	S2	525	A
47	S2	526	A
47	S2	529	A
47	S2	530	U
47	S2	531	A
47	S2	532	C
47	S2	533	A
47	S2	534	G
47	S2	536	A
47	S2	537	C
47	S2	538	U
47	S2	539	C
47	S2	540	U
47	S2	542	U
47	S2	544	G
47	S2	545	A
47	S2	553	U
47	S2	556	U
47	S2	557	U
47	S2	559	G
47	S2	560	A
47	S2	561	A
47	S2	562	U
47	S2	563	G
47	S2	566	U
47	S2	570	C
47	S2	575	A
47	S2	580	U
47	S2	582	C
47	S2	583	C
47	S2	584	G
47	S2	585	C
47	S2	589	G
47	S2	590	A

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Mol	Chain	Res	Type
47	S2	591	U
47	S2	592	C
47	S2	593	C
47	S2	595	U
47	S2	596	U
47	S2	603	C
47	S2	604	A
47	S2	605	A
47	S2	606	G
47	S2	610	G
47	S2	612	U
47	S2	613	G
47	S2	614	C
47	S2	615	C
47	S2	617	G
47	S2	621	C
47	S2	623	G
47	S2	627	U
47	S2	628	A
47	S2	643	A
47	S2	644	G
47	S2	646	G
47	S2	647	U
47	S2	649	U
47	S2	655	A
47	S2	656	G
47	S2	658	U
47	S2	660	C
47	S2	663	C
47	S2	666	U
47	S2	668	A
47	S2	669	A
47	S2	671	A
47	S2	672	A
47	S2	673	G
47	S2	678	U
47	S2	688	U
47	S2	689	U
47	S2	690	G
47	S2	691	G
47	S2	692	G
47	S2	695	C

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Mol	Chain	Res	Type
47	S2	696	G
47	S2	697	G
47	S2	698	G
47	S2	732	U
47	S2	733	C
47	S2	734	C
47	S2	735	C
47	S2	736	C
47	S2	738	C
47	S2	739	C
47	S2	745	C
47	S2	747	U
47	S2	748	C
47	S2	749	U
47	S2	751	G
47	S2	752	G
47	S2	753	C
47	S2	787	G
47	S2	788	G
47	S2	789	G
47	S2	790	C
47	S2	791	C
47	S2	794	A
47	S2	795	A
47	S2	796	G
47	S2	797	C
47	S2	798	A
47	S2	799	U
47	S2	810	A
47	S2	811	A
47	S2	812	A
47	S2	817	G
47	S2	819	G
47	S2	821	G
47	S2	830	A
47	S2	834	C
47	S2	836	G
47	S2	837	A
47	S2	838	G
47	S2	839	C
47	S2	840	C
47	S2	842	C

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Mol	Chain	Res	Type
47	S2	847	A
47	S2	848	U
47	S2	850	C
47	S2	851	C
47	S2	864	A
47	S2	865	A
47	S2	869	A
47	S2	870	A
47	S2	872	A
47	S2	873	G
47	S2	875	A
47	S2	876	C
47	S2	877	C
47	S2	878	G
47	S2	879	C
47	S2	881	G
47	S2	883	U
47	S2	884	C
47	S2	888	U
47	S2	889	U
47	S2	890	U
47	S2	891	G
47	S2	892	U
47	S2	893	U
47	S2	894	G
47	S2	895	G
47	S2	896	U
47	S2	897	U
47	S2	898	U
47	S2	899	U
47	S2	900	C
47	S2	901	G
47	S2	903	A
47	S2	905	C
47	S2	906	U
47	S2	907	G
47	S2	908	A
47	S2	911	C
47	S2	913	A
47	S2	915	G
47	S2	917	U
47	S2	920	A

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Mol	Chain	Res	Type
47	S2	922	A
47	S2	933	G
47	S2	934	G
47	S2	943	U
47	S2	950	C
47	S2	954	U
47	S2	958	G
47	S2	962	A
47	S2	963	A
47	S2	970	G
47	S2	971	G
47	S2	978	G
47	S2	982	G
47	S2	983	A
47	S2	990	A
47	S2	992	A
47	S2	995	G
47	S2	997	A
47	S2	999	G
47	S2	1001	A
47	S2	1002	U
47	S2	1006	C
47	S2	1007	C
47	S2	1008	A
47	S2	1016	U
47	S2	1017	U
47	S2	1018	U
47	S2	1020	A
47	S2	1021	U
47	S2	1025	U
47	S2	1027	A
47	S2	1028	A
47	S2	1032	C
47	S2	1041	G
47	S2	1043	G
47	S2	1045	U
47	S2	1058	A
47	S2	1059	G
47	S2	1060	A
47	S2	1061	U
47	S2	1062	A
47	S2	1064	C

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Mol	Chain	Res	Type
47	S2	1073	U
47	S2	1076	G
47	S2	1083	A
47	S2	1084	A
47	S2	1085	C
47	S2	1087	A
47	S2	1089	G
47	S2	1093	A
47	S2	1098	C
47	S2	1099	G
47	S2	1100	A
47	S2	1109	C
47	S2	1110	G
47	S2	1111	U
47	S2	1113	A
47	S2	1114	U
47	S2	1116	C
47	S2	1118	C
47	S2	1120	U
47	S2	1121	G
47	S2	1126	G
47	S2	1133	A
47	S2	1138	C
47	S2	1139	C
47	S2	1145	A
47	S2	1146	C
47	S2	1148	A
47	S2	1149	A
47	S2	1153	C
47	S2	1154	U
47	S2	1155	U
47	S2	1156	U
47	S2	1157	G
47	S2	1158	G
47	S2	1160	U
47	S2	1166	G
47	S2	1170	A
47	S2	1181	A
47	S2	1188	A
47	S2	1193	U
47	S2	1195	A
47	S2	1199	A

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Mol	Chain	Res	Type
47	S2	1207	G
47	S2	1208	A
47	S2	1209	A
47	S2	1210	G
47	S2	1215	C
47	S2	1217	A
47	S2	1221	G
47	S2	1229	G
47	S2	1234	C
47	S2	1241	A
47	S2	1242	U
47	S2	1243	U
47	S2	1247	C
47	S2	1250	A
47	S2	1251	A
47	S2	1253	A
47	S2	1256	G
47	S2	1257	G
47	S2	1259	A
47	S2	1261	C
47	S2	1264	C
47	S2	1265	A
47	S2	1267	C
47	S2	1269	G
47	S2	1270	G
47	S2	1272	C
47	S2	1273	C
47	S2	1274	G
47	S2	1275	G
47	S2	1276	A
47	S2	1277	C
47	S2	1280	G
47	S2	1281	G
47	S2	1282	A
47	S2	1283	C
47	S2	1284	A
47	S2	1288	U
47	S2	1289	U
47	S2	1290	G
47	S2	1291	A
47	S2	1292	C
47	S2	1293	A

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Mol	Chain	Res	Type
47	S2	1294	G
47	S2	1297	U
47	S2	1298	G
47	S2	1299	A
47	S2	1300	U
47	S2	1301	A
47	S2	1302	G
47	S2	1303	C
47	S2	1306	U
47	S2	1307	U
47	S2	1309	C
47	S2	1310	U
47	S2	1311	C
47	S2	1314	U
47	S2	1315	U
47	S2	1316	C
47	S2	1317	C
47	S2	1318	G
47	S2	1321	G
47	S2	1322	G
47	S2	1326	U
47	S2	1330	G
47	S2	1331	C
47	S2	1332	A
47	S2	1342	U
47	S2	1345	G
47	S2	1354	G
47	S2	1356	G
47	S2	1363	C
47	S2	1364	U
47	S2	1371	U
47	S2	1372	U
47	S2	1373	C
47	S2	1378	A
47	S2	1386	A
47	S2	1389	C
47	S2	1396	A
47	S2	1397	U
47	S2	1398	G
47	S2	1401	A
47	S2	1404	U
47	S2	1405	A

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Mol	Chain	Res	Type
47	S2	1406	G
47	S2	1407	U
47	S2	1409	A
47	S2	1410	C
47	S2	1412	C
47	S2	1413	G
47	S2	1414	A
47	S2	1415	C
47	S2	1416	C
47	S2	1417	C
47	S2	1418	C
47	S2	1419	C
47	S2	1420	G
47	S2	1421	A
47	S2	1422	G
47	S2	1423	C
47	S2	1425	G
47	S2	1426	U
47	S2	1427	C
47	S2	1428	G
47	S2	1429	G
47	S2	1431	G
47	S2	1432	U
47	S2	1434	C
47	S2	1436	C
47	S2	1438	A
47	S2	1439	A
47	S2	1440	C
47	S2	1447	G
47	S2	1449	G
47	S2	1450	G
47	S2	1454	A
47	S2	1455	A
47	S2	1456	G
47	S2	1459	G
47	S2	1461	G
47	S2	1462	U
47	S2	1463	U
47	S2	1464	C
47	S2	1473	G
47	S2	1475	G
47	S2	1476	A

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Mol	Chain	Res	Type
47	S2	1477	U
47	S2	1478	U
47	S2	1484	A
47	S2	1487	A
47	S2	1488	C
47	S2	1489	A
47	S2	1490	G
47	S2	1493	C
47	S2	1494	U
47	S2	1498	A
47	S2	1508	A
47	S2	1509	U
47	S2	1510	G
47	S2	1511	U
47	S2	1512	C
47	S2	1513	C
47	S2	1515	G
47	S2	1516	G
47	S2	1520	G
47	S2	1521	C
47	S2	1523	C
47	S2	1524	G
47	S2	1526	G
47	S2	1527	C
47	S2	1530	U
47	S2	1533	A
47	S2	1536	G
47	S2	1543	U
47	S2	1544	C
47	S2	1545	A
47	S2	1546	G
47	S2	1548	G
47	S2	1550	G
47	S2	1551	U
47	S2	1552	G
47	S2	1553	C
47	S2	1554	C
47	S2	1555	U
47	S2	1556	A
47	S2	1557	C
47	S2	1562	C
47	S2	1563	G

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Mol	Chain	Res	Type
47	S2	1566	G
47	S2	1567	G
47	S2	1570	G
47	S2	1575	G
47	S2	1578	U
47	S2	1580	A
47	S2	1582	C
47	S2	1584	G
47	S2	1585	U
47	S2	1586	U
47	S2	1587	G
47	S2	1588	A
47	S2	1589	A
47	S2	1595	U
47	S2	1596	U
47	S2	1597	C
47	S2	1598	G
47	S2	1599	U
47	S2	1601	A
47	S2	1602	U
47	S2	1603	G
47	S2	1607	A
47	S2	1609	C
47	S2	1613	G
47	S2	1617	G
47	S2	1618	C
47	S2	1620	A
47	S2	1621	U
47	S2	1622	U
47	S2	1623	A
47	S2	1624	U
47	S2	1626	C
47	S2	1634	A
47	S2	1640	A
47	S2	1643	U
47	S2	1644	C
47	S2	1648	G
47	S2	1654	G
47	S2	1661	A
47	S2	1662	U
47	S2	1663	A
47	S2	1664	A

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Mol	Chain	Res	Type
47	S2	1665	G
47	S2	1672	U
47	S2	1673	U
47	S2	1680	G
47	S2	1682	C
47	S2	1683	C
47	S2	1693	G
47	S2	1694	U
47	S2	1698	C
47	S2	1699	A
47	S2	1702	G
47	S2	1712	A
47	S2	1719	A
47	S2	1720	U
47	S2	1721	U
47	S2	1722	G
47	S2	1726	G
47	S2	1733	U
47	S2	1740	C
47	S2	1742	C
47	S2	1744	G
47	S2	1745	A
47	S2	1746	U
47	S2	1748	G
47	S2	1751	C
47	S2	1753	C
47	S2	1754	G
47	S2	1755	C
47	S2	1757	G
47	S2	1758	G
47	S2	1759	G
47	S2	1772	C
47	S2	1773	C
47	S2	1776	G
47	S2	1778	C
47	S2	1779	G
47	S2	1780	G
47	S2	1783	C
47	S2	1784	G
47	S2	1786	U
47	S2	1789	G
47	S2	1799	G

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Mol	Chain	Res	Type
47	S2	1800	A
47	S2	1802	C
47	S2	1805	G
47	S2	1813	A
47	S2	1814	G
47	S2	1818	A
47	S2	1819	A
47	S2	1822	A
47	S2	1823	A
47	S2	1824	A
47	S2	1825	A
47	S2	1826	G
47	S2	1827	U
47	S2	1829	G
47	S2	1831	A
47	S2	1835	A
47	S2	1839	U
47	S2	1841	C
47	S2	1849	G
47	S2	1850	A
47	S2	1851	A
47	S2	1852	C
47	S2	1853	C
47	S2	1854	U
47	S2	1861	G
47	S2	1862	G
47	S2	1863	A
47	S2	1865	C
47	S2	1866	A
47	S2	1868	U
47	S2	1869	A

All (148) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	L5	108	A
1	L5	218	A
1	L5	233	U
1	L5	235	A
1	L5	237	G
1	L5	294	G
1	L5	385	A

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Mol	Chain	Res	Type
1	L5	406	C
1	L5	417	G
1	L5	667	A
1	L5	703	G
1	L5	747	A
1	L5	753	C
1	L5	930	G
1	L5	931	C
1	L5	932	A
1	L5	956	A
1	L5	957	G
1	L5	958	G
1	L5	960	A
1	L5	965	G
1	L5	970	G
1	L5	996	G
1	L5	1072	C
1	L5	1178	G
1	L5	1220	G
1	L5	1238	A
1	L5	1253	G
1	L5	1371	A
1	L5	1415	G
1	L5	1445	U
1	L5	1485	C
1	L5	1590	C
1	L5	1596	U
1	L5	1633	G
1	L5	1779	U
1	L5	1931	C
1	L5	1940	G
1	L5	1969	G
1	L5	2016	C
1	L5	2019	C
1	L5	2055	G
1	L5	2070	U
1	L5	2089	G
1	L5	2095	A
1	L5	2120	G
1	L5	2124	G
1	L5	2126	G
1	L5	2262	G

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Mol	Chain	Res	Type
1	L5	2381	A
1	L5	2389	A
1	L5	2443	G
1	L5	2485	U
1	L5	2494	U
1	L5	2503	G
1	L5	2568	C
1	L5	2652	G
1	L5	2660	A
1	L5	2675	G
1	L5	2695	A
1	L5	2760	G
1	L5	2775	C
1	L5	2834	C
1	L5	2854	G
1	L5	2906	G
1	L5	3594	C
1	L5	3614	G
1	L5	3616	U
1	L5	3767	C
1	L5	3773	U
1	L5	3801	U
1	L5	3810	C
1	L5	3888	G
1	L5	3948	C
1	L5	3952	A
1	L5	4036	G
1	L5	4060	U
1	L5	4114	C
1	L5	4303	C
1	L5	4394	A
1	L5	4419	U
1	L5	4464	A
1	L5	4600	G
1	L5	4616	A
1	L5	4699	U
1	L5	4730	C
1	L5	4731	G
1	L5	4742	G
1	L5	4909	A
1	L5	4913	G
1	L5	4937	C

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Mol	Chain	Res	Type
1	L5	4948	C
1	L5	4958	C
1	L5	4962	C
1	L5	4965	U
1	L5	4975	G
1	L5	4990	C
1	L5	4991	U
1	L5	5013	C
1	L5	5027	C
1	L5	5047	C
1	L5	5061	A
2	L7	109	U
3	L8	22	U
3	L8	85	U
3	L8	86	U
3	L8	87	G
47	S2	1	U
47	S2	79	A
47	S2	127	C
47	S2	213	G
47	S2	328	U
47	S2	339	A
47	S2	465	A
47	S2	562	U
47	S2	589	G
47	S2	604	A
47	S2	612	U
47	S2	657	U
47	S2	659	G
47	S2	668	A
47	S2	688	U
47	S2	789	G
47	S2	811	A
47	S2	868	G
47	S2	896	U
47	S2	912	C
47	S2	1115	U
47	S2	1207	G
47	S2	1271	C
47	S2	1273	C
47	S2	1305	C
47	S2	1316	C

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Mol	Chain	Res	Type
47	S2	1331	C
47	S2	1344	A
47	S2	1404	U
47	S2	1414	A
47	S2	1483	A
47	S2	1551	U
47	S2	1553	C
47	S2	1574	C
47	S2	1577	G
47	S2	1647	A
47	S2	1664	A
47	S2	1823	A
47	S2	1824	A
47	S2	1849	G
47	S2	1860	A

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 233 ligands modelled in this entry, 232 are monoatomic - leaving 1 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	$\#\|Z\| > 2$
81	3HE	L5	5101	-	21,21,21	3.56	8 (38%)	19,30,30	2.32	8 (42%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
81	3HE	L5	5101	-	-	1/8/36/36	0/2/2/2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
81	L5	5101	3HE	C13-C12	-8.46	1.35	1.50
81	L5	5101	3HE	C10-C11	-7.03	1.37	1.50
81	L5	5101	3HE	C5-C4	-6.68	1.42	1.51
81	L5	5101	3HE	C3-C4	-6.27	1.40	1.51
81	L5	5101	3HE	C13-C9	-4.14	1.46	1.53
81	L5	5101	3HE	C6-C5	-3.69	1.48	1.53
81	L5	5101	3HE	C2-C3	-3.57	1.48	1.53
81	L5	5101	3HE	C10-C9	-3.10	1.48	1.53

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
81	L5	5101	3HE	C11-N-C12	-5.06	119.64	125.78
81	L5	5101	3HE	C-C1-C2	-3.78	104.75	111.18
81	L5	5101	3HE	C13-C12-N	3.73	120.52	115.95
81	L5	5101	3HE	C5-C6-C1	-3.60	105.80	113.14
81	L5	5101	3HE	C10-C11-N	3.08	119.72	115.95
81	L5	5101	3HE	O-C4-C3	-2.49	118.43	122.15
81	L5	5101	3HE	O-C4-C5	-2.30	119.93	123.28
81	L5	5101	3HE	C6-C1-C2	2.06	113.14	110.10

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
81	L5	5101	3HE	C7-C8-C9-C13

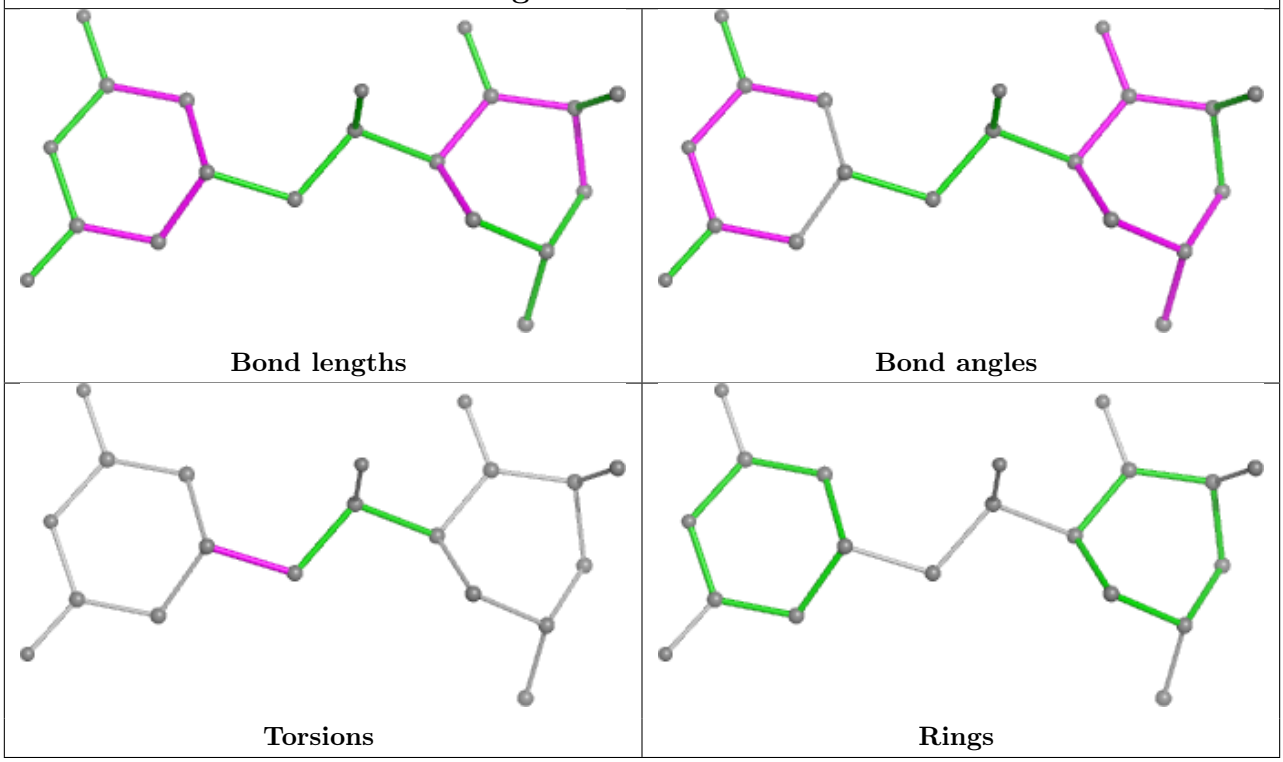
There are no ring outliers.

1 monomer is involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	L5	5101	3HE	10	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 then 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.

Ligand 3HE L5 5101



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	L5	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L5	3983:G	O3'	3984:C	P	10.43

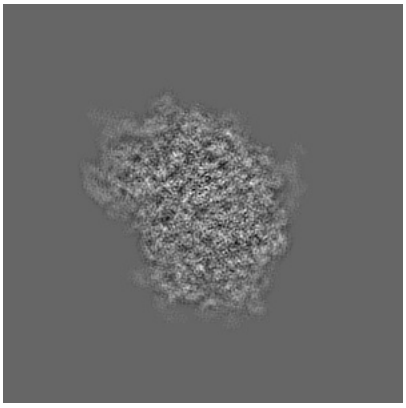
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-4070. These allow visual inspection of the internal detail of the map and identification of artifacts.

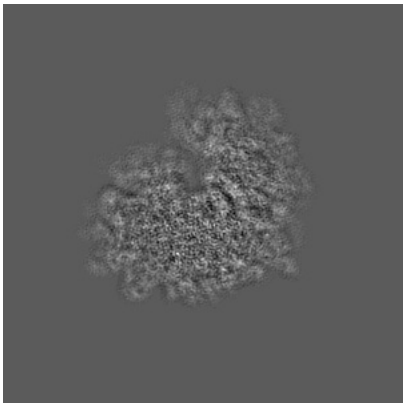
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections (i)

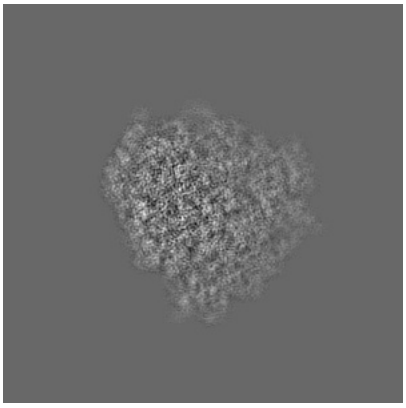
6.1.1 Primary map



X



Y

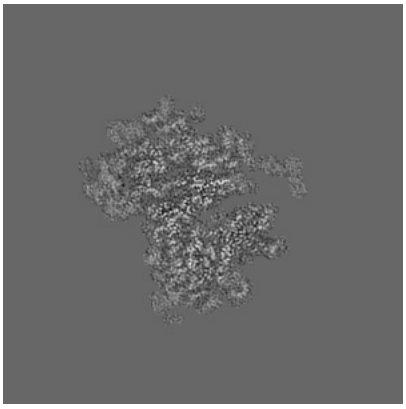


Z

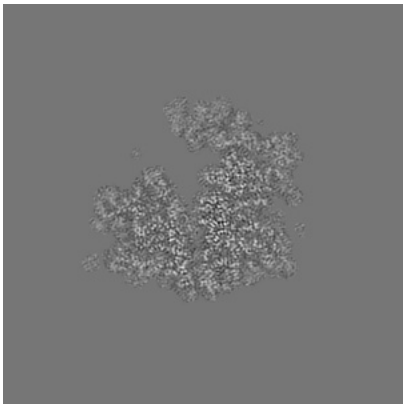
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

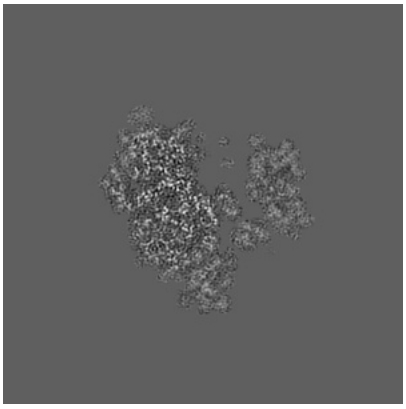
6.2.1 Primary map



X Index: 230



Y Index: 230

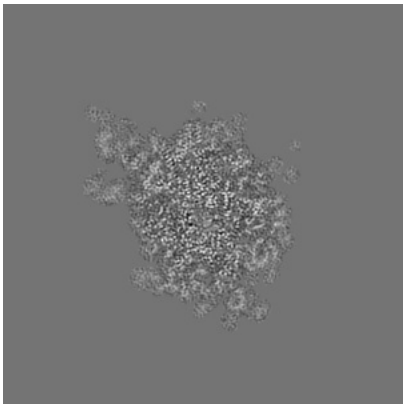


Z Index: 230

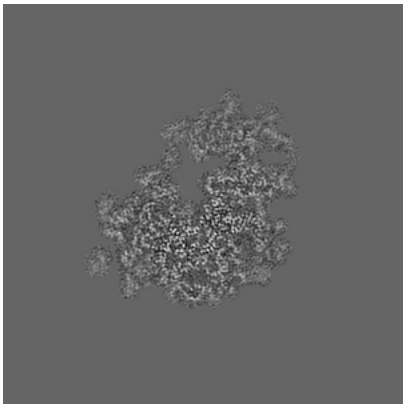
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

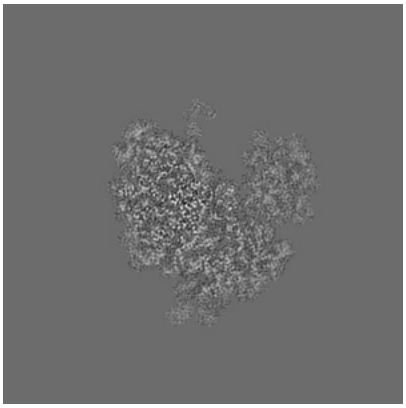
6.3.1 Primary map



X Index: 205



Y Index: 242

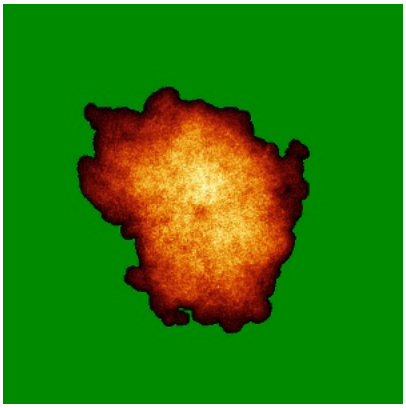


Z Index: 252

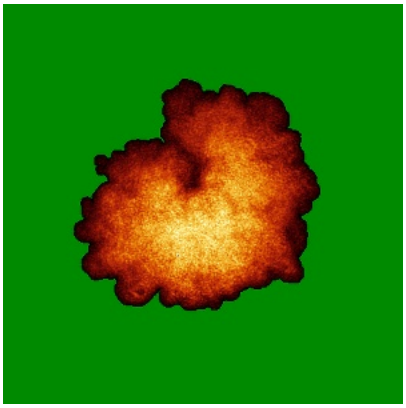
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

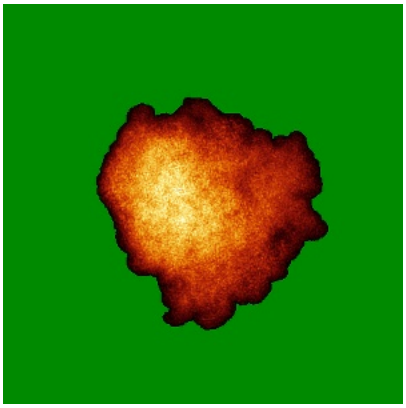
6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.007. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

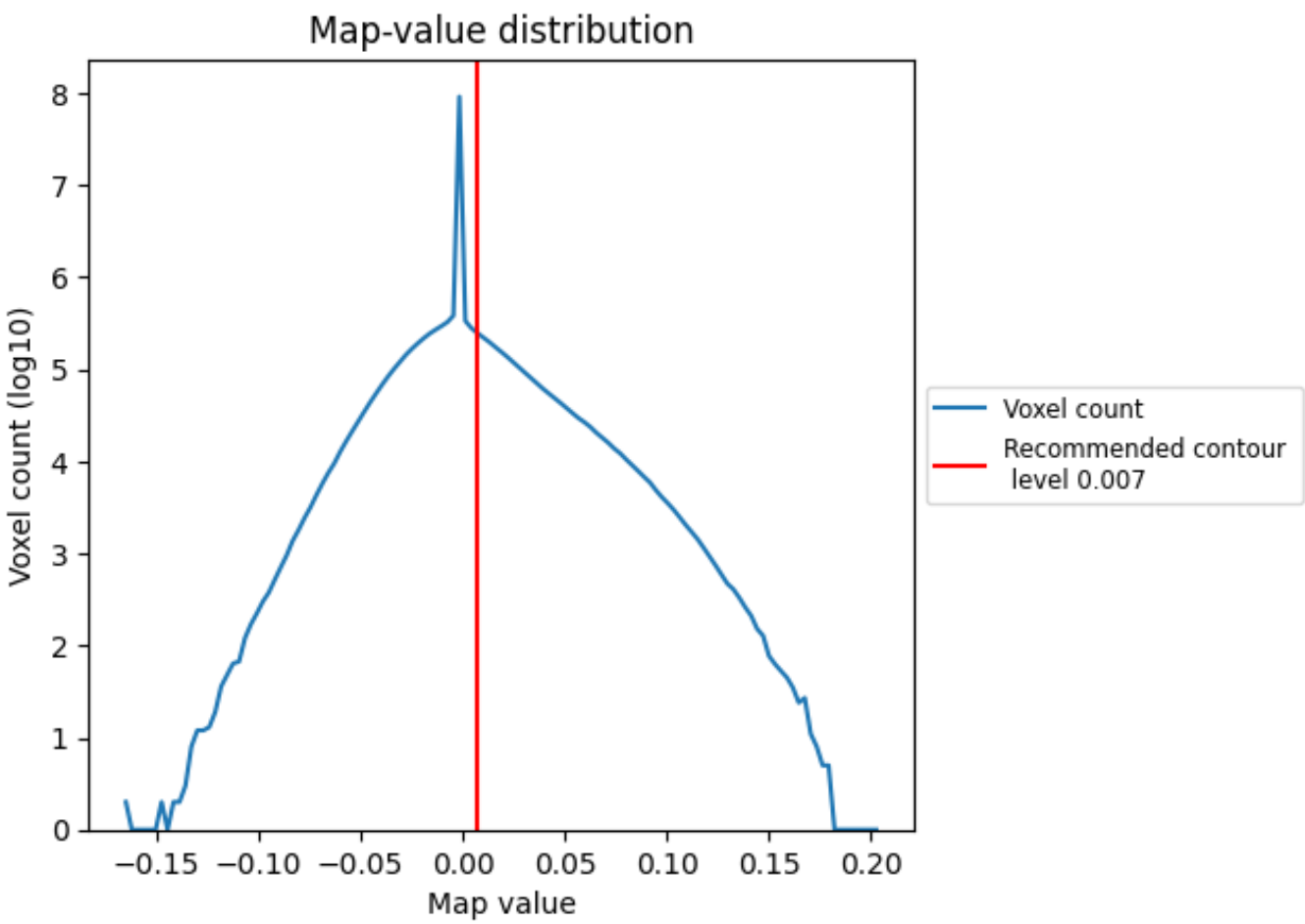
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis (i)

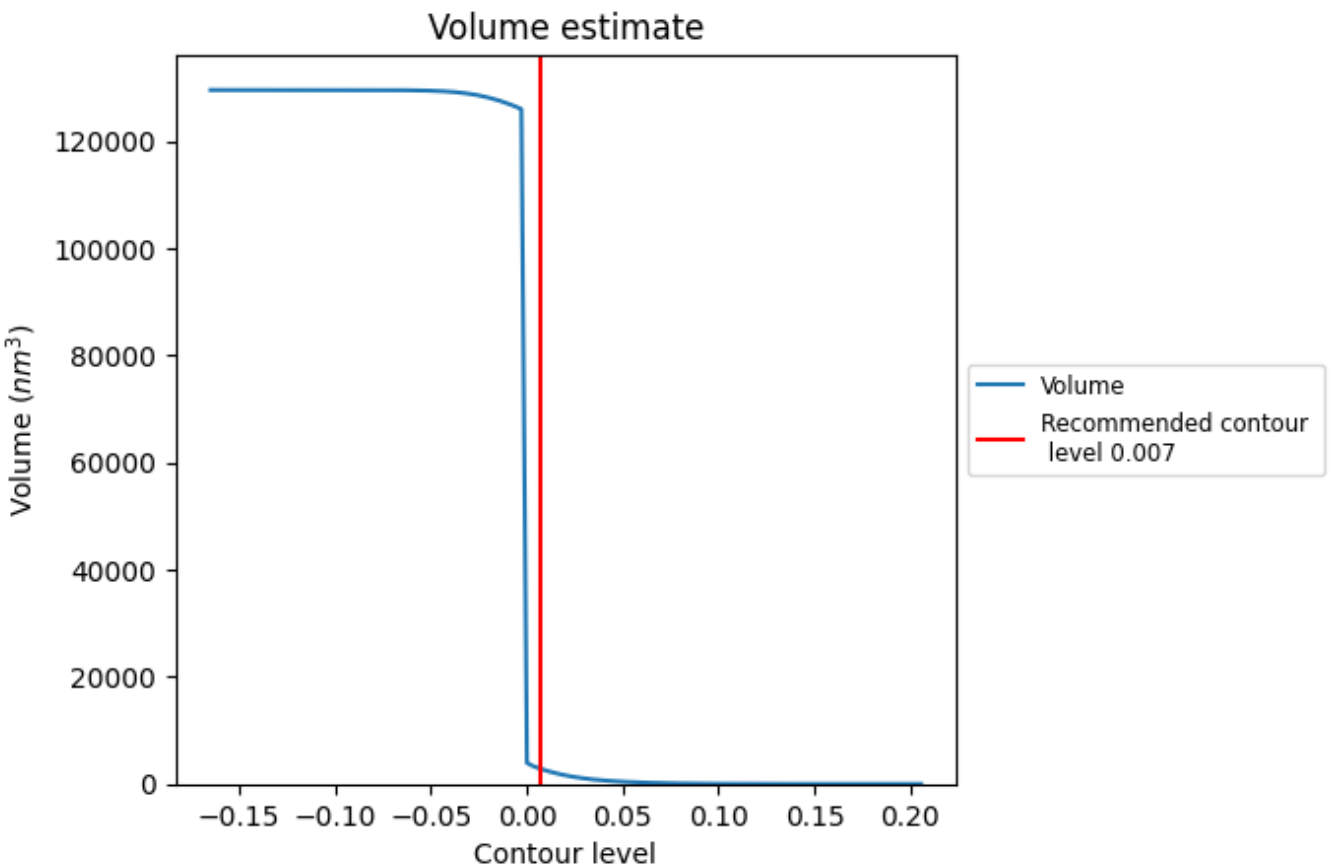
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution (i)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

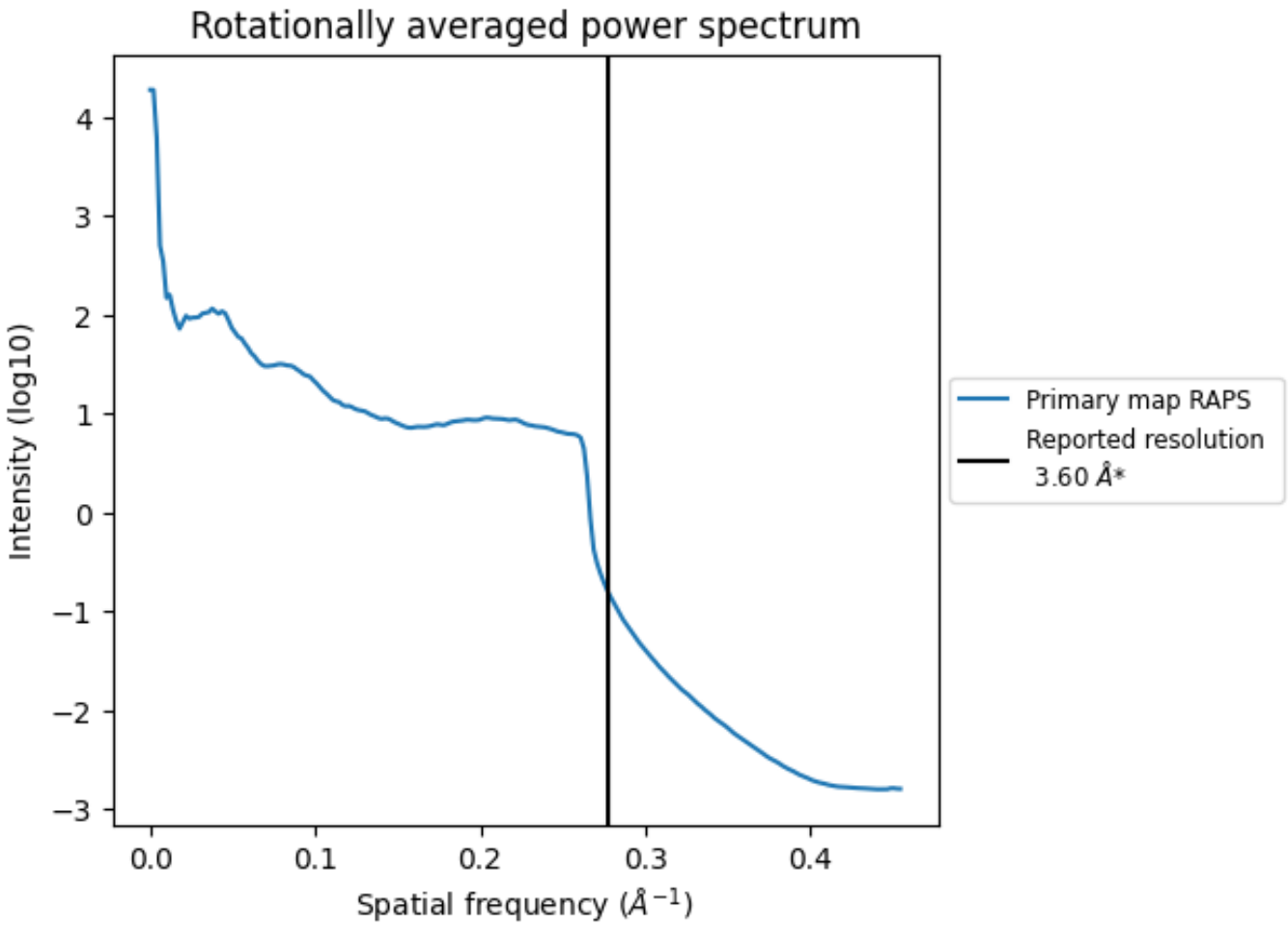
7.2 Volume estimate (i)



The volume at the recommended contour level is 2861 nm^3; this corresponds to an approximate mass of 2584 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.278 Å^{-1}

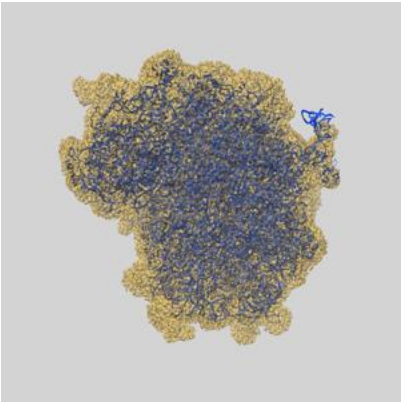
8 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.

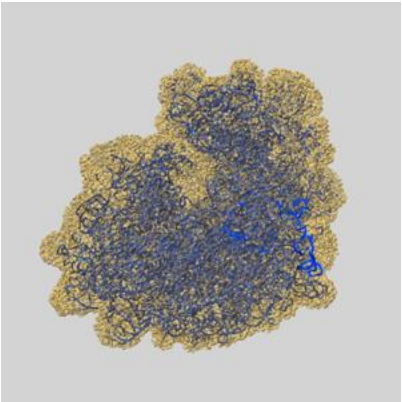
9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-4070 and PDB model 5LKS. Per-residue inclusion information can be found in section 3 on page 22.

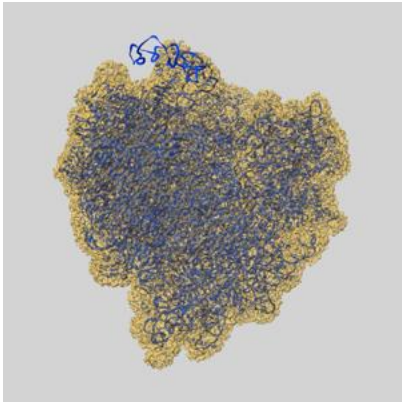
9.1 Map-model overlay (i)



X



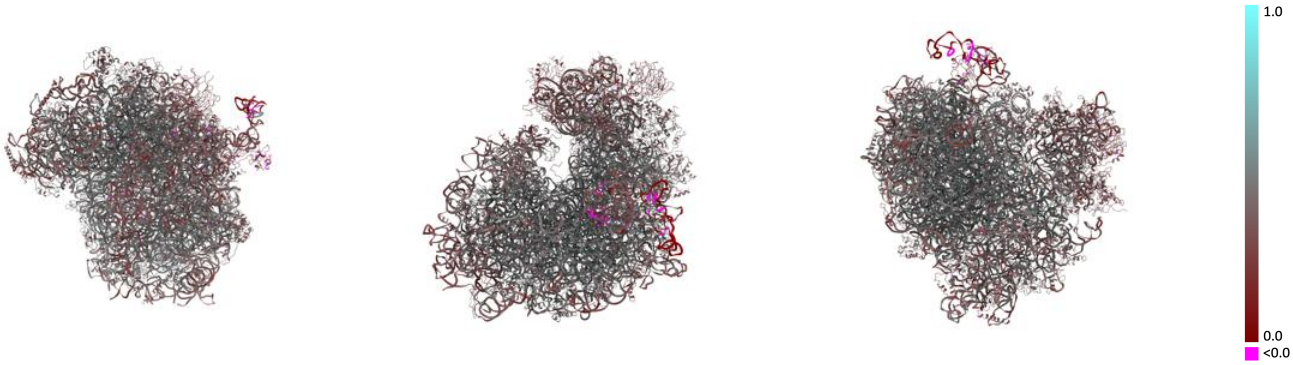
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.007 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

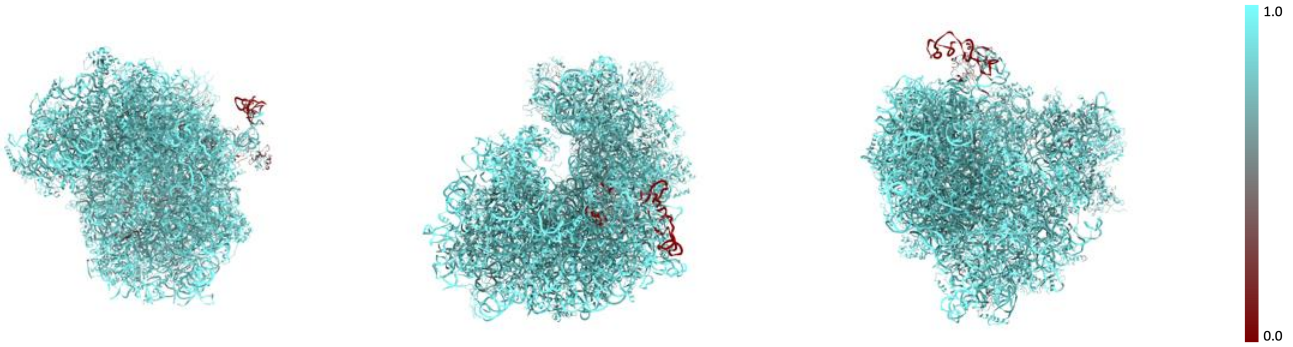
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

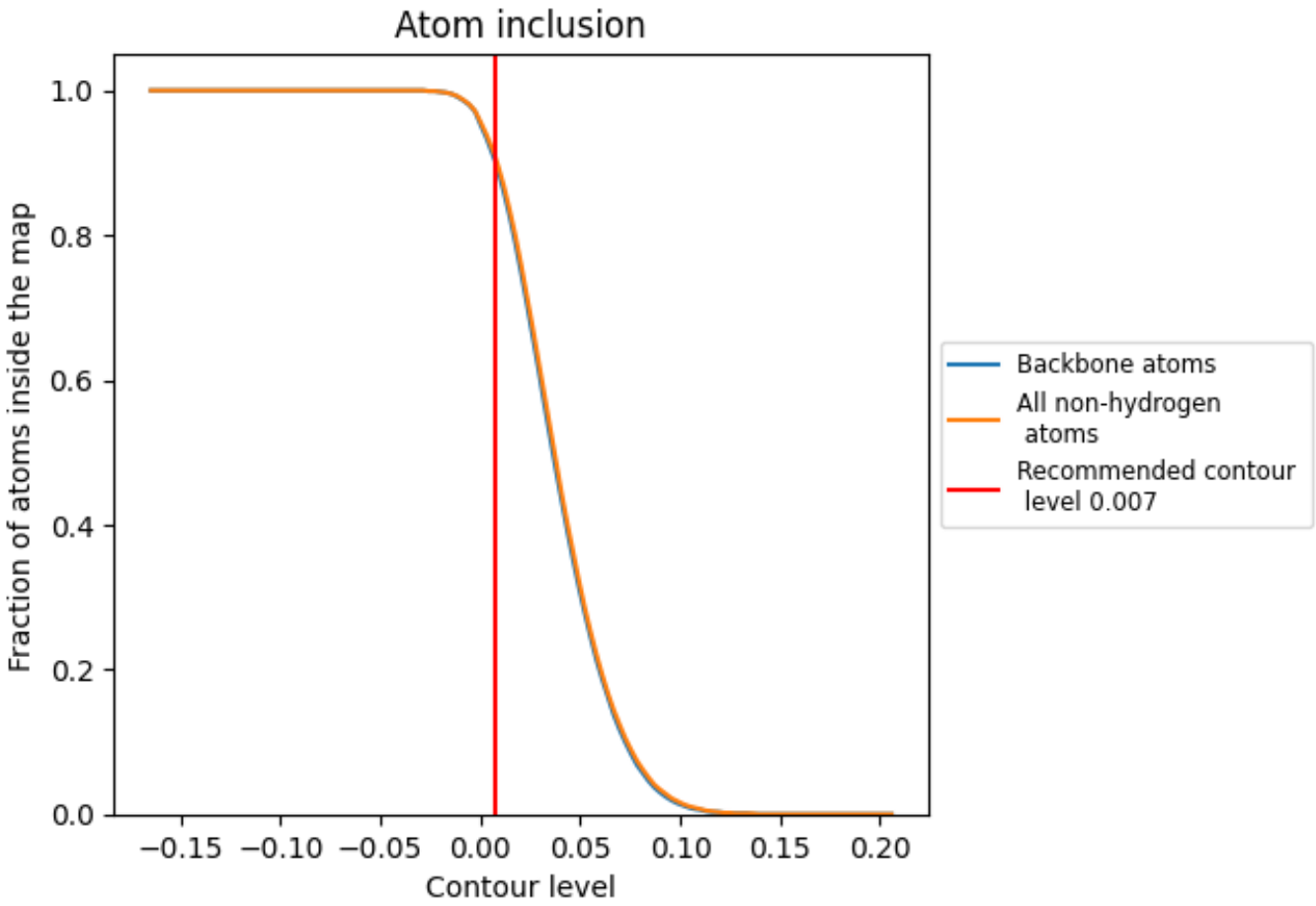
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.007).

9.4 Atom inclusion (i)



At the recommended contour level, 90% of all backbone atoms, 91% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.007) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9120	0.4290
L5	0.9430	0.4380
L7	0.9720	0.4490
L8	0.9570	0.4500
LA	0.9040	0.4980
LB	0.9130	0.4700
LC	0.9030	0.4760
LD	0.9080	0.4100
LE	0.8740	0.4100
LF	0.8840	0.4640
LG	0.8870	0.4160
LH	0.9180	0.4470
LI	0.8760	0.4360
LJ	0.8900	0.3970
LL	0.9170	0.4500
LM	0.9210	0.4430
LN	0.8860	0.4970
LO	0.9080	0.4770
LP	0.9050	0.4850
LQ	0.9080	0.4850
LR	0.9180	0.4560
LS	0.9320	0.4810
LT	0.9120	0.4800
LU	0.8980	0.4010
LV	0.8990	0.4830
LW	0.8160	0.3870
LX	0.9120	0.4650
LY	0.8940	0.4530
LZ	0.9010	0.4340
La	0.8990	0.4840
Lb	0.8670	0.4340
Lc	0.9290	0.4620
Ld	0.9190	0.4700
Le	0.9170	0.4930
Lf	0.8870	0.4920

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Chain	Atom inclusion	Q-score
Lg	0.8750	0.4620
Lh	0.8870	0.4420
Li	0.9170	0.4450
Lj	0.9240	0.5060
Lk	0.9050	0.4190
Ll	0.8860	0.4820
Lm	0.9180	0.4800
Ln	0.9140	0.5050
Lo	0.9150	0.4560
Lp	0.9100	0.4840
Lr	0.9300	0.4710
Lz	0.4760	0.2120
S2	0.9410	0.4220
SA	0.9000	0.4180
SB	0.8930	0.4190
SC	0.8930	0.4390
SD	0.8330	0.3540
SE	0.8740	0.4240
SF	0.8140	0.3470
SG	0.8790	0.3770
SH	0.8910	0.4000
SI	0.8830	0.4340
SJ	0.8840	0.4110
SK	0.8560	0.3420
SL	0.8790	0.4480
SM	0.7280	0.2670
SN	0.8850	0.4460
SO	0.8940	0.4390
SP	0.8360	0.3180
SQ	0.7760	0.3340
SR	0.8650	0.3720
SS	0.8350	0.3260
ST	0.7870	0.3350
SU	0.8490	0.3630
SV	0.9150	0.4250
SW	0.8840	0.4520
SX	0.9100	0.4670
SY	0.8730	0.3860
SZ	0.8040	0.3340
Sa	0.9010	0.4490
Sb	0.9200	0.4410
Sc	0.8440	0.3580

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Chain	Atom inclusion	Q-score
Sd	0.8360	0.3910
Se	0.8110	0.3870
Sf	0.7880	0.2880
Sg	0.7960	0.2980