Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 07:08 AM UTC

PDB ID	:	9B0S / pdb_00009b0s
EMDB ID	:	EMD-44052
Title	:	In situ human top-top di-ribosome structure (Composite map)
Authors	:	Wei, Z.; Yong, X.
Deposited on	:	2024-03-12
Resolution	:	3.80 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 ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

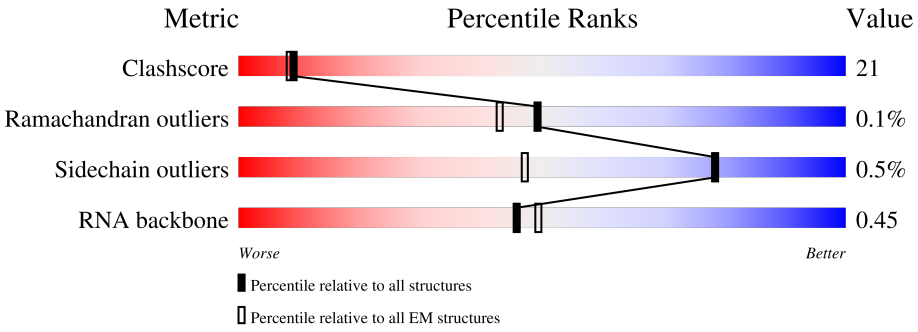
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

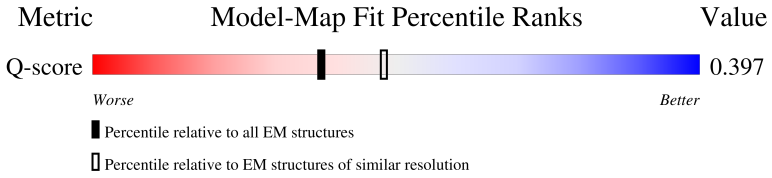
1 Overall quality at a glance

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

The reported resolution of this entry is 3.80 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	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	10198 (3.30 - 4.30)

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	cH	125	14% 51% 47%
2	SE	262	51% 49%
2	sE	262	56% 44%

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Mol	Chain	Length	Quality of chain
3	SI	206	8% 55% 45%
3	sI	206	10% 59% 40%
4	SL	153	8% 58% 42%
4	sL	153	10% 52% 48%
5	SX	141	59% 40%
5	sX	141	71% 28%
6	SG	237	53% 46%
6	sG	237	15% 54% 45%
7	SJ	185	6% 51% 49%
7	sJ	185	5% 55% 45%
8	SY	131	55% 44%
8	sY	131	10% 43% 55%
9	Se	58	79% 21%
9	se	58	33% 48% 52%
10	SA	221	5% 40% 58%
10	sA	221	10% 48% 52%
11	SB	214	49% 50%
11	sB	214	50% 49%
12	SH	189	20% 48% 50%
12	sH	189	19% 39% 60%
13	SV	83	47% 51%
13	sV	83	10% 43% 55%
14	Sa	102	60% 39%
14	sa	102	65% 35%
15	SC	222	50% 50%

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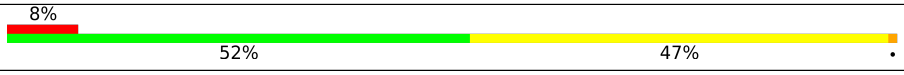
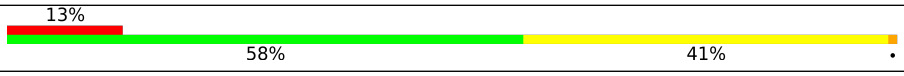
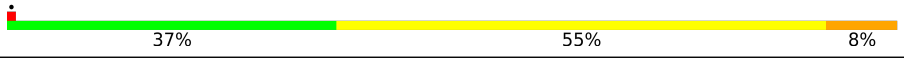
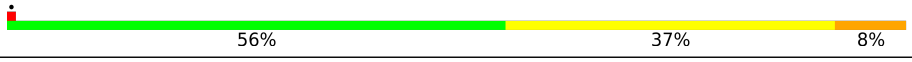
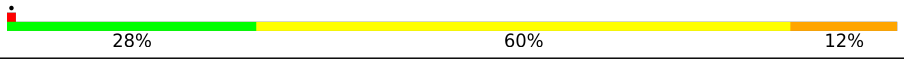
Mol	Chain	Length	Quality of chain
15	sC	222	
16	SN	150	
16	sN	150	
17	SO	140	
17	sO	140	
18	SW	129	
18	sW	129	
19	Sb	83	
19	sb	83	
20	L7	120	
20	l7	120	
21	L8	156	
21	l8	156	
22	LA	248	
22	lA	248	
23	LB	402	
23	lB	402	
24	LC	368	
24	lC	368	
25	LD	293	
25	lD	293	
26	LE	247	
26	lE	247	
27	LF	225	
27	lF	225	

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Mol	Chain	Length	Quality of chain
28	LG	241	5% 54% 46%
28	lG	241	10% 60% 39%
29	LH	190	58% 41%
29	lH	190	59% 41%
30	LI	213	61% 34% 5%
30	lI	213	68% 27% 5%
31	LJ	176	5% 47% 52%
31	lJ	176	13% 54% 45%
32	LL	210	62% 38%
32	lL	210	5% 68% 32%
33	LM	139	59% 40%
33	lM	139	68% 30%
34	LN	203	61% 38%
34	lN	203	63% 37%
35	LO	201	57% 43%
35	lO	201	69% 31%
36	LP	153	56% 44%
36	lP	153	59% 41%
37	LQ	187	59% 41%
37	lQ	187	64% 35%
38	LR	187	8% 57% 43%
38	lR	187	7% 66% 34%
39	LS	175	61% 39%
39	lS	175	70% 30%
40	LT	159	70% 29%

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Mol	Chain	Length	Quality of chain
40	lT	159	70% 30%
41	LU	101	53% 47%
41	lU	101	10% 46% 52%
42	LV	131	66% 34%
42	lV	131	64% 36%
43	LX	120	56% 44%
43	lX	120	66% 34%
44	LY	134	44% 56%
44	lY	134	56% 44%
45	LZ	135	42% 58%
45	lZ	135	66% 34%
46	La	147	60% 39%
46	la	147	63% 37%
47	Lb	121	59% 31% 10%
47	lb	121	9% 75% 15% 10%
48	Lc	98	50% 49%
48	lc	98	6% 66% 33%
49	Ld	107	70% 30%
49	ld	107	5% 74% 26%
50	Le	128	66% 34%
50	le	128	64% 36%
51	Lf	109	72% 28%
51	lf	109	62% 37%
52	Lg	114	68% 32%
52	lg	114	71% 29%

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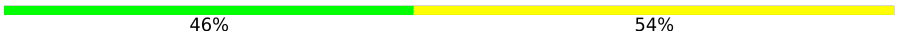
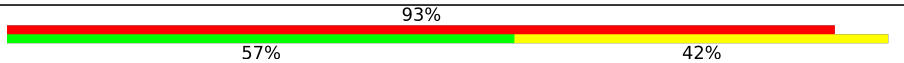
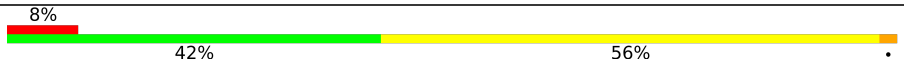
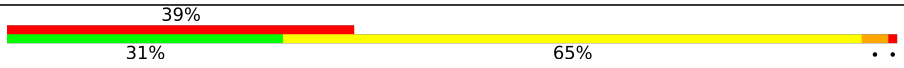
Mol	Chain	Length	Quality of chain
53	Lh	122	
53	lh	122	
54	Li	102	
54	li	102	
55	Lj	86	
55	lj	86	
56	Lk	69	
56	lk	69	
57	Ll	50	
57	ll	50	
58	Lm	52	
58	lm	52	
59	Ln	24	
59	ln	24	
60	Lo	105	
60	lo	105	
61	Lp	91	
61	lp	91	
62	Lr	125	
62	lr	125	
63	Lz	217	
63	lz	217	
64	SR	135	
64	sR	135	
65	SD	227	

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Mol	Chain	Length	Quality of chain
65	sD	227	8% 59% 40%
66	SF	189	53% 46%
66	sF	189	50% 50%
67	SK	98	5% 38% 54% 8%
67	sK	98	43% 55%
68	SP	121	7% 43% 56%
68	sP	121	7% 55% 44%
69	SQ	144	49% 50%
69	sQ	144	7% 49% 49%
70	SS	145	47% 53%
70	sS	145	5% 52% 48%
71	ST	143	52% 47%
71	sT	143	52% 46%
72	SU	104	43% 56%
72	sU	104	14% 50% 44% 6%
73	Sc	64	47% 53%
73	sc	64	22% 39% 61%
74	Sd	55	53% 47%
74	sd	55	65% 35%
75	Sg	313	5% 48% 52%
75	sg	313	17% 45% 55%
76	SM	122	49% 50% 50%
76	sM	122	46% 48% 52%
77	SZ	75	8% 36% 57% 7%
77	sZ	75	17% 40% 57%

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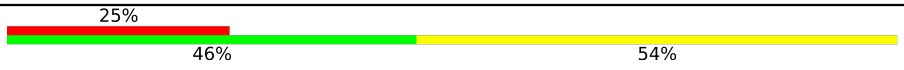
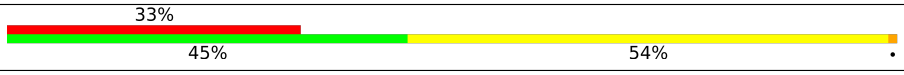
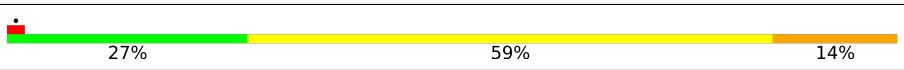
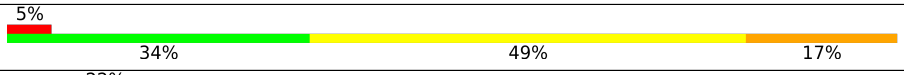
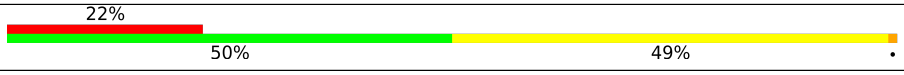
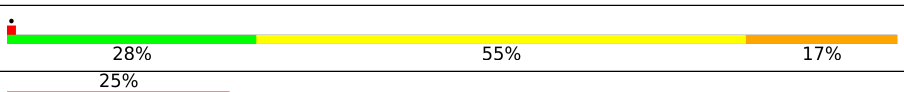
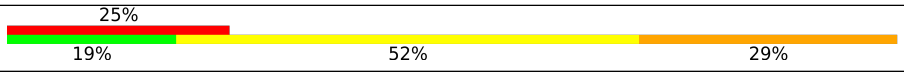
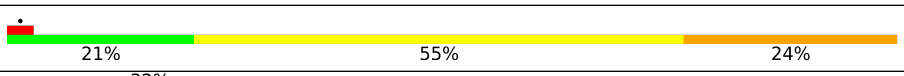
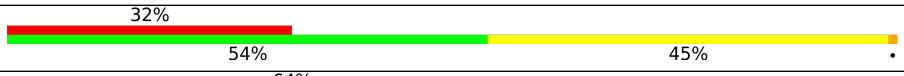
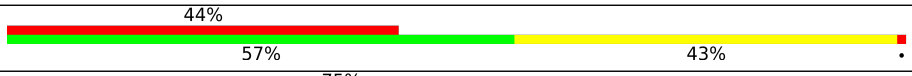
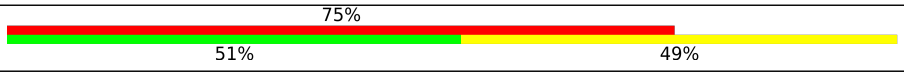
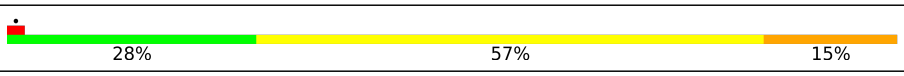
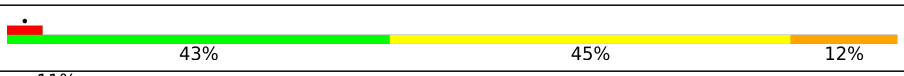
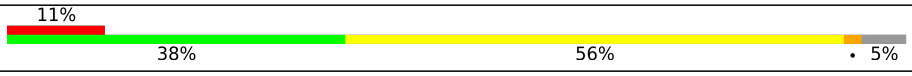
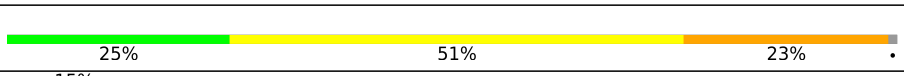
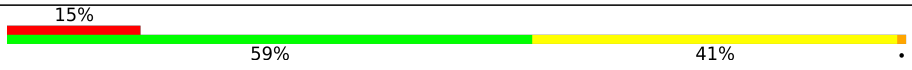
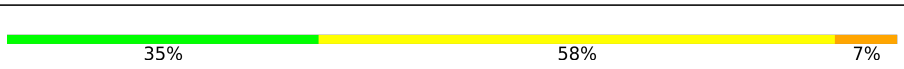
Mol	Chain	Length	Quality of chain
78	Sf	67	
78	sf	67	
79	S2	1740	
79	s2	1740	
80	cB	846	
81	aP	71	
82	Et	75	
82	pE	75	
83	Ls	196	
83	ls	196	
84	Lt	141	
84	lt	141	
85	L5	3740	
85	l5	3740	
86	LW	124	
87	AT	77	
88	CF	441	
89	Pt	74	

2 Entry composition (i)

There are 91 unique types of molecules in this entry. The entry contains 456973 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 protein called Endothelial differentiation-related factor 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	cH	125	Total	C	N	O	0	0
			968	595	189	184		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
cH	30	ARG	GLN	conflict	UNP O60869
cH	32	ALA	ARG	conflict	UNP O60869
cH	33	ALA	-	insertion	UNP O60869
cH	34	ALA	-	insertion	UNP O60869

- Molecule 2 is a protein called Small ribosomal subunit protein eS4, X isoform.

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

- Molecule 3 is a protein called 40S ribosomal protein S8.

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

- Molecule 4 is a protein called 40S ribosomal protein S11.

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

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

- Molecule 5 is a protein called 40S ribosomal protein S23.

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

- Molecule 6 is a protein called 40S ribosomal protein S6.

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

- Molecule 7 is a protein called 40S ribosomal protein S9.

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

- Molecule 8 is a protein called 40S ribosomal protein S24.

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

- Molecule 9 is a protein called Small ribosomal subunit protein eS30.

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

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

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

- Molecule 11 is a protein called 40S ribosomal protein S3a.

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

- Molecule 12 is a protein called Small ribosomal subunit protein eS7.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	sH	186	Total	C	N	O	S	0	0
			1497	956	274	266	1		
12	SH	186	Total	C	N	O	S	0	0
			1497	956	274	266	1		

- Molecule 13 is a protein called 40S ribosomal protein S21.

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

- Molecule 14 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	sa	102	Total	C	N	O	S	0	0
			821	512	171	133	5		
14	Sa	102	Total	C	N	O	S	0	0
			821	512	171	133	5		

- Molecule 15 is a protein called 40S ribosomal protein S2.

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

- Molecule 16 is a protein called 40S ribosomal protein S13.

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

- Molecule 17 is a protein called Small ribosomal subunit protein uS11.

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

- Molecule 18 is a protein called 40S ribosomal protein S15a.

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

- Molecule 19 is a protein called Small ribosomal subunit protein eS27.

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

- Molecule 20 is a RNA chain called 5S rRNA [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
20	l7	120	Total	C	N	O	P	0	0
			2561	1141	456	844	120		

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Mol	Chain	Residues	Atoms					AltConf	Trace
20	L7	120	Total	C	N	O	P	0	0
			2561	1141	456	844	120		

- Molecule 21 is a RNA chain called 5.8S rRNA [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
21	l8	156	Total	C	N	O	P	0	0
			3314	1480	585	1094	155		
21	L8	156	Total	C	N	O	P	0	0
			3314	1480	585	1094	155		

- Molecule 22 is a protein called 60S ribosomal protein L8.

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

- Molecule 23 is a protein called Large ribosomal subunit protein uL3.

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

- Molecule 24 is a protein called 60S ribosomal protein L4.

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

- Molecule 25 is a protein called Large ribosomal subunit protein uL18.

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

- Molecule 26 is a protein called Large ribosomal subunit protein eL6.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	lE	236	Total	C	N	O	S	0	0
			1904	1222	361	317	4		
26	LE	236	Total	C	N	O	S	0	0
			1904	1222	361	317	4		

- Molecule 27 is a protein called 60S ribosomal protein L7.

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

- Molecule 28 is a protein called 60S ribosomal protein L7a.

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

- Molecule 29 is a protein called 60S ribosomal protein L9.

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

- Molecule 30 is a protein called Ribosomal protein uL16-like.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	lI	202	Total	C	N	O	S	0	0
			1634	1037	314	269	14		
30	LI	202	Total	C	N	O	S	0	0
			1634	1037	314	269	14		

- Molecule 31 is a protein called 60S ribosomal protein L11.

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

- Molecule 32 is a protein called Large ribosomal subunit protein eL13.

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

- Molecule 33 is a protein called 60S ribosomal protein L14.

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

- Molecule 34 is a protein called 60S ribosomal protein L15.

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

- Molecule 35 is a protein called 60S ribosomal protein L13a.

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

- Molecule 36 is a protein called 60S ribosomal protein L17.

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

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

- Molecule 37 is a protein called 60S ribosomal protein L18.

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

- Molecule 38 is a protein called 60S ribosomal protein L19.

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

- Molecule 39 is a protein called 60S ribosomal protein L18a.

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

- Molecule 40 is a protein called 60S ribosomal protein L21.

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

- Molecule 41 is a protein called Heparin-binding protein HBp15.

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

- Molecule 42 is a protein called 60S ribosomal protein L23.

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

- Molecule 43 is a protein called 60S ribosomal protein L23a.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	lX	120	Total	C	N	O	S	0	0
			985	630	185	169	1		
43	LX	120	Total	C	N	O	S	0	0
			985	630	185	169	1		

- Molecule 44 is a protein called 60S ribosomal protein L26.

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

- Molecule 45 is a protein called 60S ribosomal protein L27.

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

- Molecule 46 is a protein called 60S ribosomal protein L27a.

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

- Molecule 47 is a protein called Large ribosomal subunit protein eL29.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	lb	109	Total	C	N	O	S	0	0
			876	546	189	137	4		
47	Lb	109	Total	C	N	O	S	0	0
			876	546	189	137	4		

- Molecule 48 is a protein called 60S ribosomal protein L30.

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

- Molecule 49 is a protein called 60S ribosomal protein L31.

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

- Molecule 50 is a protein called 60S ribosomal protein L32.

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

- Molecule 51 is a protein called 60S ribosomal protein L35a.

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

- Molecule 52 is a protein called 60S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	lg	114	Total	C	N	O	S	0	0
			906	566	187	147	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
52	Lg	114	Total	C	N	O	S	0	0
			906	566	187	147	6		

- Molecule 53 is a protein called 60S ribosomal protein L35.

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

- Molecule 54 is a protein called 60S ribosomal protein L36.

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

- Molecule 55 is a protein called 60S ribosomal protein L37.

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

- Molecule 56 is a protein called 60S ribosomal protein L38.

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

- Molecule 57 is a protein called 60S ribosomal protein L39.

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

- Molecule 58 is a protein called Large ribosomal subunit protein eL40.

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

- Molecule 59 is a protein called 60S ribosomal protein L41.

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

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

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

- Molecule 61 is a protein called 60S ribosomal protein L37a.

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

- Molecule 62 is a protein called 60S ribosomal protein L28.

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

- Molecule 63 is a protein called 60S ribosomal protein L10a.

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

- Molecule 64 is a protein called 40S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	sR	135	Total	C	N	O	S	0	0
			1090	685	202	198	5		
64	SR	135	Total	C	N	O	S	0	0
			1090	685	202	198	5		

- Molecule 65 is a protein called Small ribosomal subunit protein uS3.

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

- Molecule 66 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	sF	189	Total	C	N	O	S	0	0
			1495	934	284	270	7		
66	SF	189	Total	C	N	O	S	0	0
			1495	934	284	270	7		

- Molecule 67 is a protein called 40S ribosomal protein S10.

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

- Molecule 68 is a protein called Small ribosomal subunit protein uS19.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	sP	121	Total	C	N	O	S	0	0
			985	623	185	170	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
68	SP	121	Total	C	N	O	S	0	0
			985	623	185	170	7		

- Molecule 69 is a protein called Small ribosomal subunit protein uS9.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	sQ	144	Total	C	N	O	S	0	0
			1142	726	216	197	3		
69	SQ	144	Total	C	N	O	S	0	0
			1142	726	216	197	3		

- Molecule 70 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	sS	145	Total	C	N	O	S	0	0
			1198	751	242	203	2		
70	SS	145	Total	C	N	O	S	0	0
			1198	751	242	203	2		

- Molecule 71 is a protein called 40S ribosomal protein S19.

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

- Molecule 72 is a protein called 40S ribosomal protein S20.

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

- Molecule 73 is a protein called 40S ribosomal protein S28.

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

- Molecule 74 is a protein called 40S ribosomal protein S29.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	sd	55	Total	C	N	O	S	0	0
			459	286	94	74	5		
74	Sd	55	Total	C	N	O	S	0	0
			459	286	94	74	5		

- Molecule 75 is a protein called Receptor of activated protein C kinase 1.

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

- Molecule 76 is a protein called Small ribosomal subunit protein eS12.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	sM	122	Total	C	N	O	S	0	0
			940	590	164	177	9		
76	SM	122	Total	C	N	O	S	0	0
			940	590	164	177	9		

- Molecule 77 is a protein called Small ribosomal subunit protein eS25.

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

- Molecule 78 is a protein called Ubiquitin-40S ribosomal protein S27a.

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

- Molecule 79 is a RNA chain called 18S rRNA [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
79	s2	1740	Total 36898	C 16459	N 6599	O 12101	P 1739	0	0
79	S2	1740	Total 36898	C 16459	N 6599	O 12101	P 1739	0	0

- Molecule 80 is a protein called Elongation factor 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	cB	846	Total 6605	C 4193	N 1136	O 1232	S 44	0	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
cB	?	-	ALA	deletion	UNP P13639
cB	?	-	LYS	deletion	UNP P13639
cB	?	-	GLY	deletion	UNP P13639
cB	?	-	GLU	deletion	UNP P13639
cB	?	-	GLY	deletion	UNP P13639
cB	?	-	GLN	deletion	UNP P13639
cB	?	-	LEU	deletion	UNP P13639
cB	?	-	GLY	deletion	UNP P13639
cB	?	-	PRO	deletion	UNP P13639
cB	?	-	ALA	deletion	UNP P13639

- Molecule 81 is a RNA chain called A/P site tRNA [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
81	aP	71	Total 1514	C 677	N 275	O 492	P 70	0	0

- Molecule 82 is a RNA chain called P/E site tRNA [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
82	pE	75	Total 1593	C 712	N 281	O 526	P 74	0	0
82	Et	75	Total 1593	C 712	N 281	O 526	P 74	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
83	ls	196	Total	C	N	O	S	0	0
			1496	952	259	276	9		
83	Ls	196	Total	C	N	O	S	0	0
			1496	952	259	276	9		

- Molecule 84 is a protein called 60S ribosomal protein L12 [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
84	lt	141	Total	C	N	O	S	0	0
			1046	652	191	199	4		
84	Lt	141	Total	C	N	O	S	0	0
			1046	652	191	199	4		

- Molecule 85 is a RNA chain called 28S rRNA [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
85	l5	3740	Total	C	N	O	P	0	0
			79860	35549	14585	25987	3739		
85	L5	3740	Total	C	N	O	P	0	0
			79860	35549	14585	25987	3739		

- Molecule 86 is a protein called Ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
86	LW	118	Total	C	N	O	S	0	0
			965	604	199	158	4		

- Molecule 87 is a RNA chain called A/T site tRNA [Homo sapiens].

Mol	Chain	Residues	Atoms					AltConf	Trace
87	AT	76	Total	C	N	O	P	0	0
			1616	723	291	527	75		

- Molecule 88 is a protein called Putative elongation factor 1-alpha-like 3.

Mol	Chain	Residues	Atoms						AltConf	Trace
88	CF	441	Total	C	N	O	P	S	0	0
			3383	2148	581	636	1	17		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
CF	311	ASN	LYS	conflict	UNP Q5VTE0
CF	365	THR	MET	conflict	UNP Q5VTE0

- Molecule 89 is a RNA chain called P site tRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
89	Pt	74	Total	C	N	O	P	0	0
			1576	705	286	512	73		

- Molecule 90 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
90	sa	1	Total	Zn	0
			1	1	
90	lg	1	Total	Zn	0
			1	1	
90	lj	1	Total	Zn	0
			1	1	
90	lm	1	Total	Zn	0
			1	1	
90	lo	1	Total	Zn	0
			1	1	
90	lp	1	Total	Zn	0
			1	1	
90	Sa	1	Total	Zn	0
			1	1	
90	Lg	1	Total	Zn	0
			1	1	
90	Lj	1	Total	Zn	0
			1	1	
90	Lm	1	Total	Zn	0
			1	1	
90	Lo	1	Total	Zn	0
			1	1	
90	Lp	1	Total	Zn	0
			1	1	

- Molecule 91 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

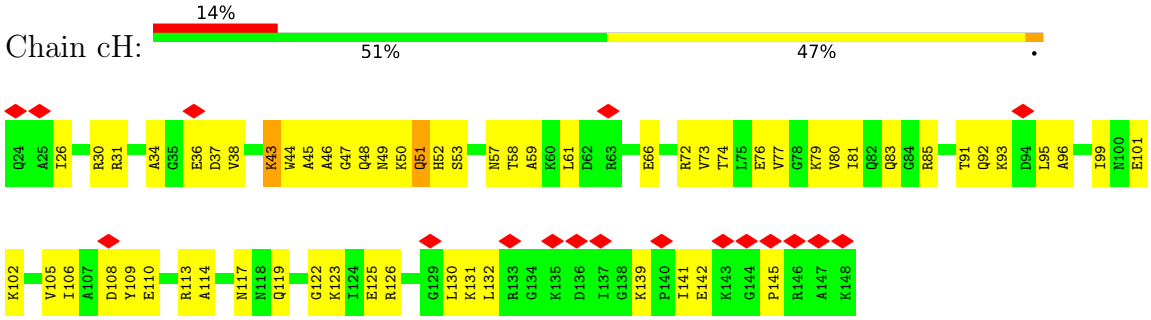
Mol	Chain	Residues	Atoms	AltConf
91	l7	3	Total Mg 3 3	0
91	l8	3	Total Mg 3 3	0
91	lA	1	Total Mg 1 1	0
91	lI	1	Total Mg 1 1	0
91	lP	1	Total Mg 1 1	0
91	lV	1	Total Mg 1 1	0
91	le	1	Total Mg 1 1	0
91	lj	1	Total Mg 1 1	0
91	sR	1	Total Mg 1 1	0
91	s2	28	Total Mg 28 28	0
91	l5	214	Total Mg 214 214	0
91	L5	215	Total Mg 215 215	0
91	L7	3	Total Mg 3 3	0
91	L8	3	Total Mg 3 3	0
91	LA	1	Total Mg 1 1	0
91	LP	1	Total Mg 1 1	0
91	LV	1	Total Mg 1 1	0
91	Le	1	Total Mg 1 1	0
91	Lg	1	Total Mg 1 1	0
91	S2	29	Total Mg 29 29	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.

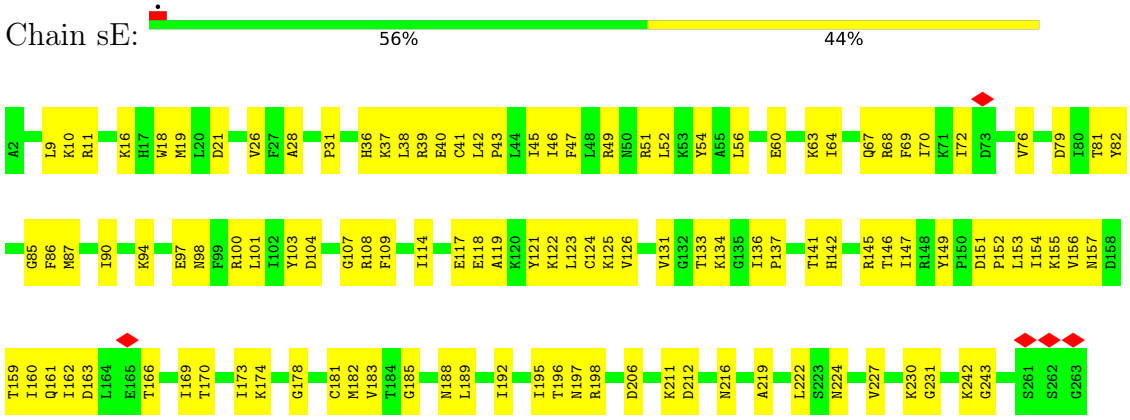
• Molecule 1: Endothelial differentiation-related factor 1

Chain cH:



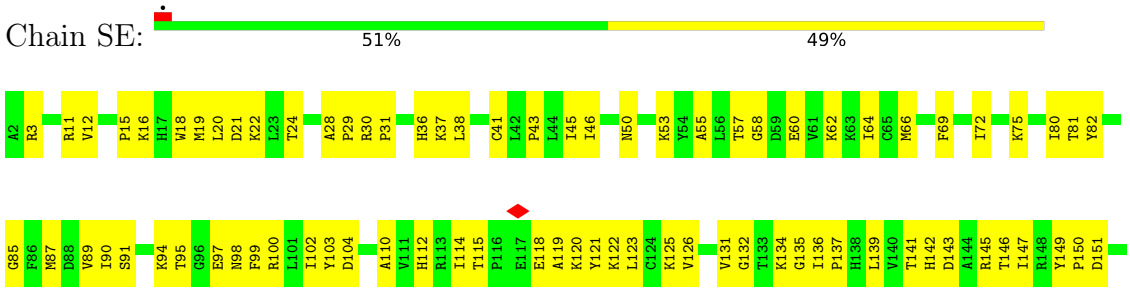
• Molecule 2: Small ribosomal subunit protein eS4, X isoform

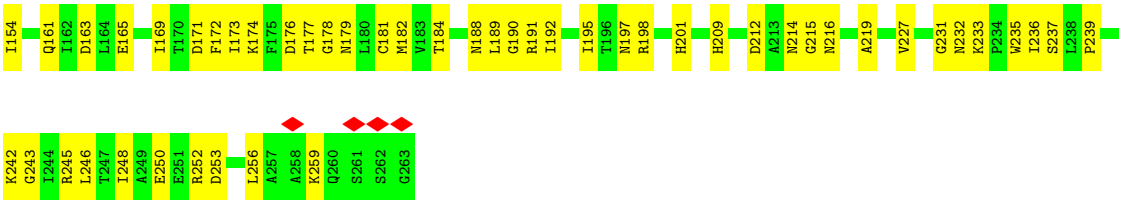
Chain sE:



• Molecule 2: Small ribosomal subunit protein eS4, X isoform

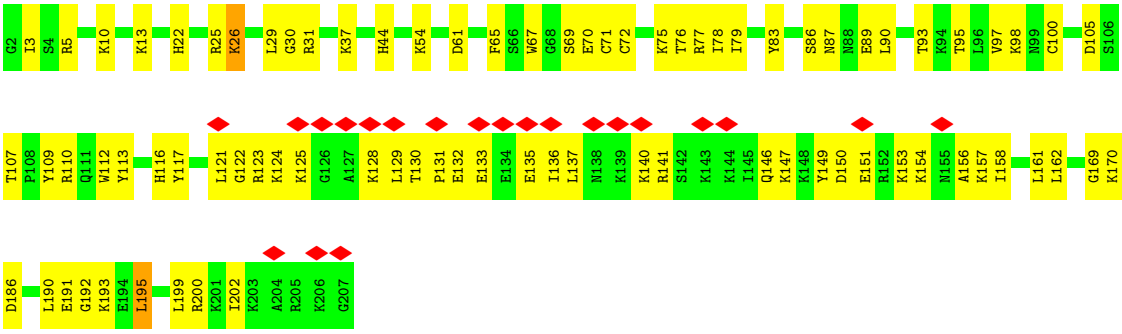
Chain SE:





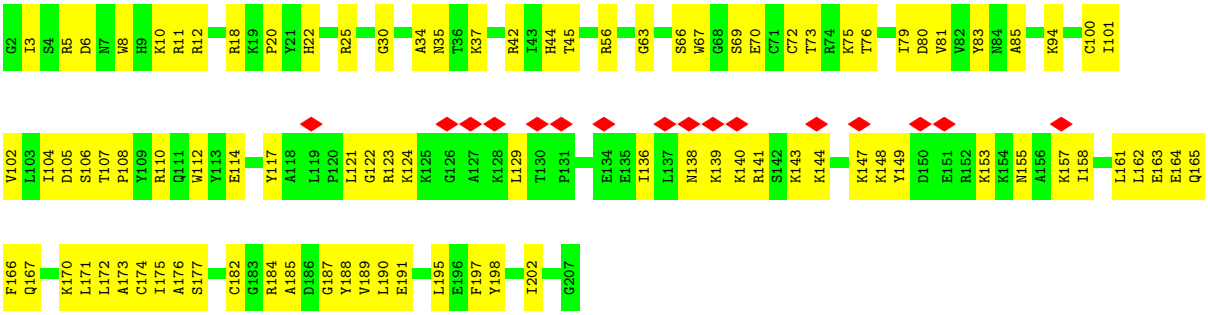
• Molecule 3: 40S ribosomal protein S8

Chain sI:



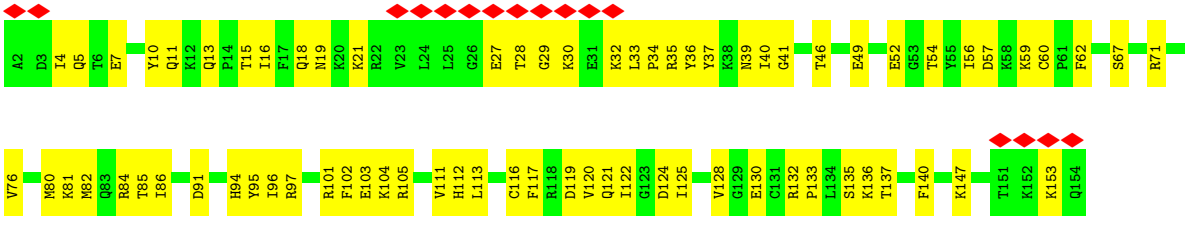
• Molecule 3: 40S ribosomal protein S8

Chain SI:



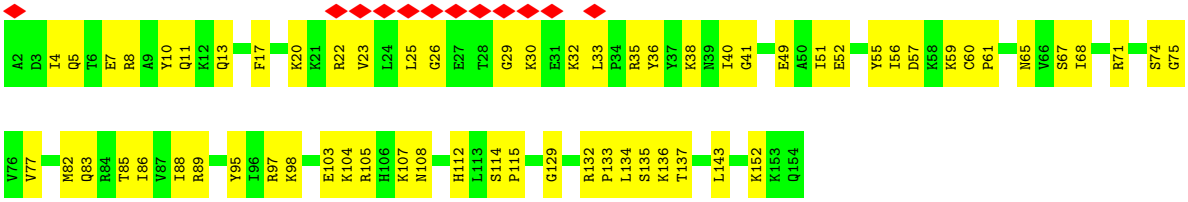
• Molecule 4: 40S ribosomal protein S11

Chain sL:



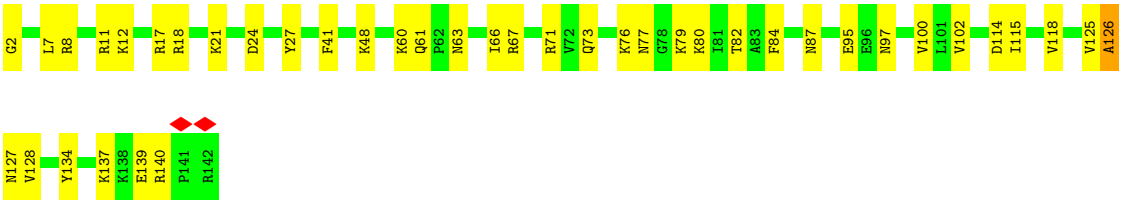
• Molecule 4: 40S ribosomal protein S11

Chain SL:



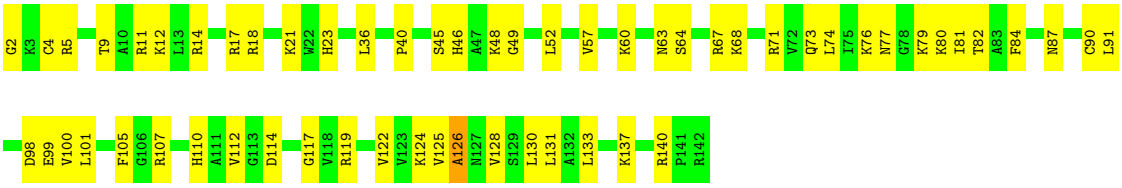
• Molecule 5: 40S ribosomal protein S23

Chain sX:



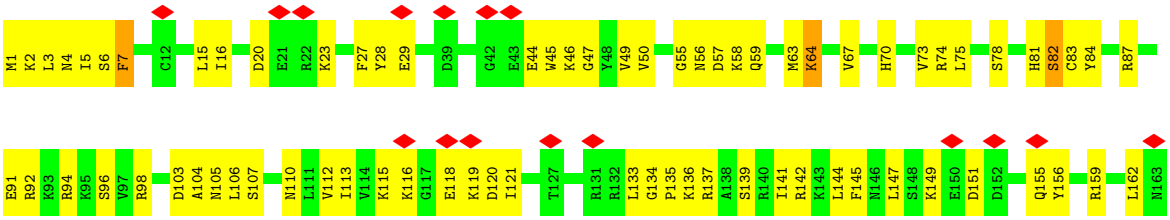
• Molecule 5: 40S ribosomal protein S23

Chain SX:



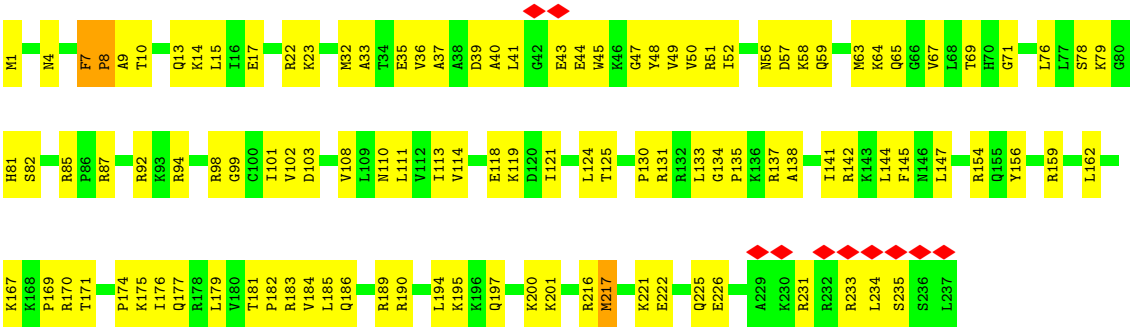
• Molecule 6: 40S ribosomal protein S6

Chain sG:

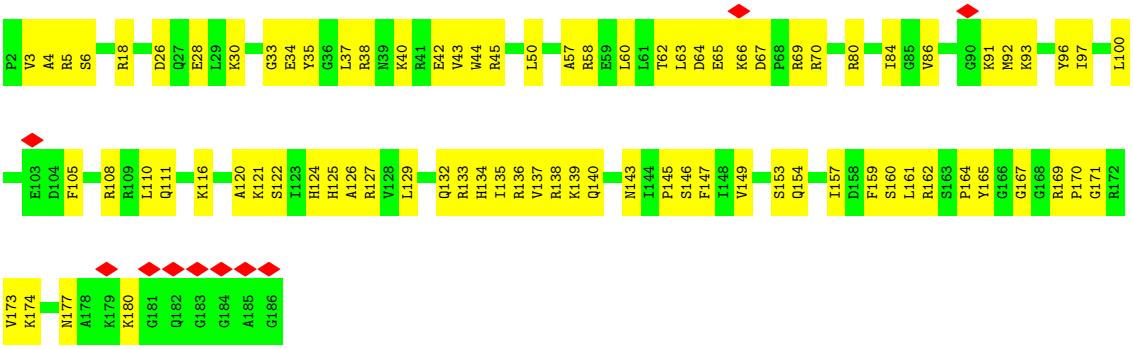


• Molecule 6: 40S ribosomal protein S6

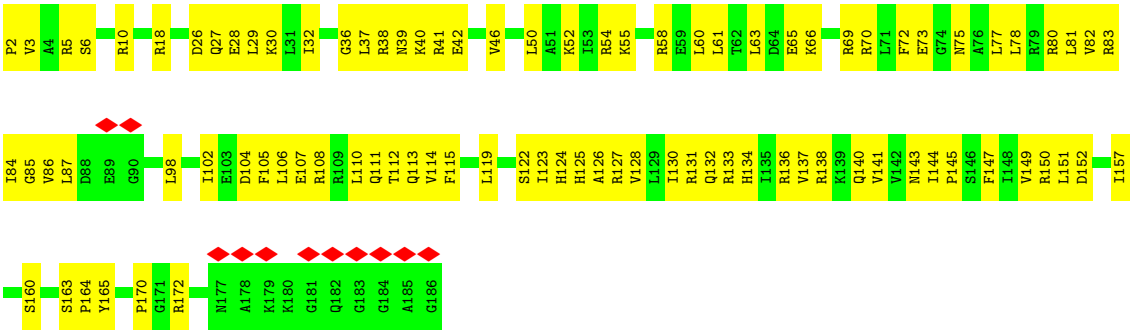
Chain SG:



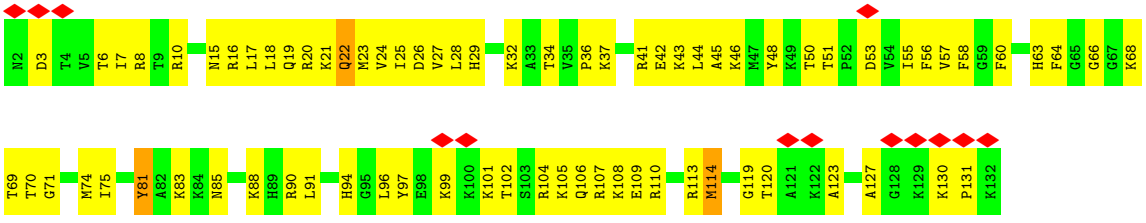
• Molecule 7: 40S ribosomal protein S9



• Molecule 7: 40S ribosomal protein S9

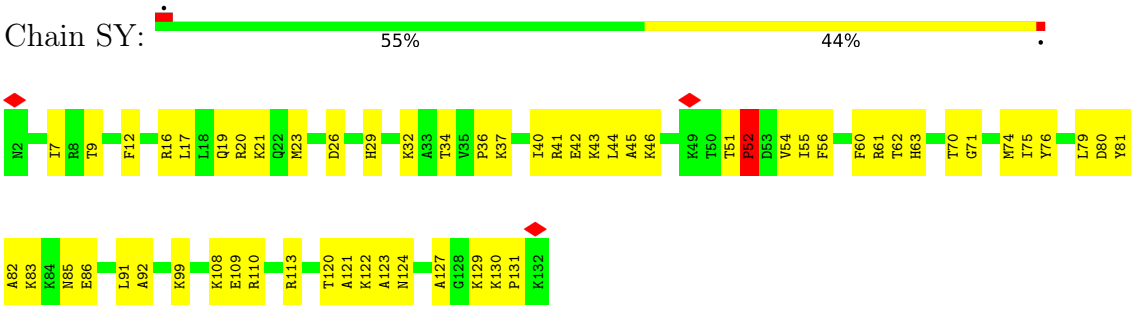


• Molecule 8: 40S ribosomal protein S24



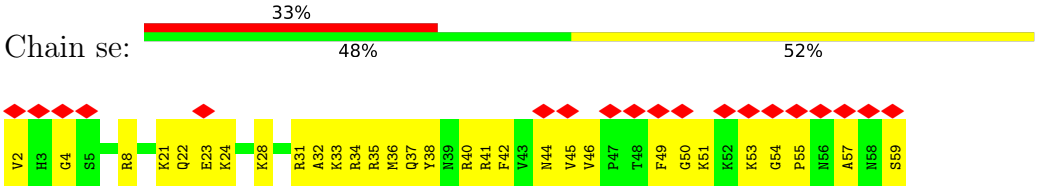
• Molecule 8: 40S ribosomal protein S24

Chain SY:



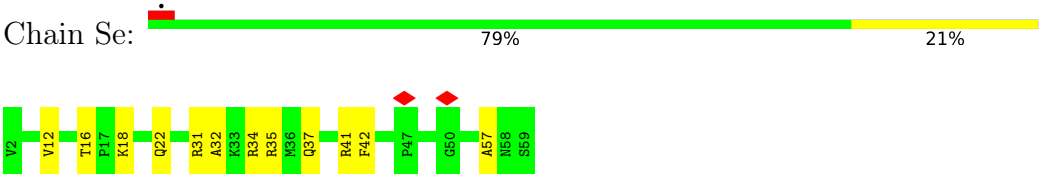
• Molecule 9: Small ribosomal subunit protein eS30

Chain se:



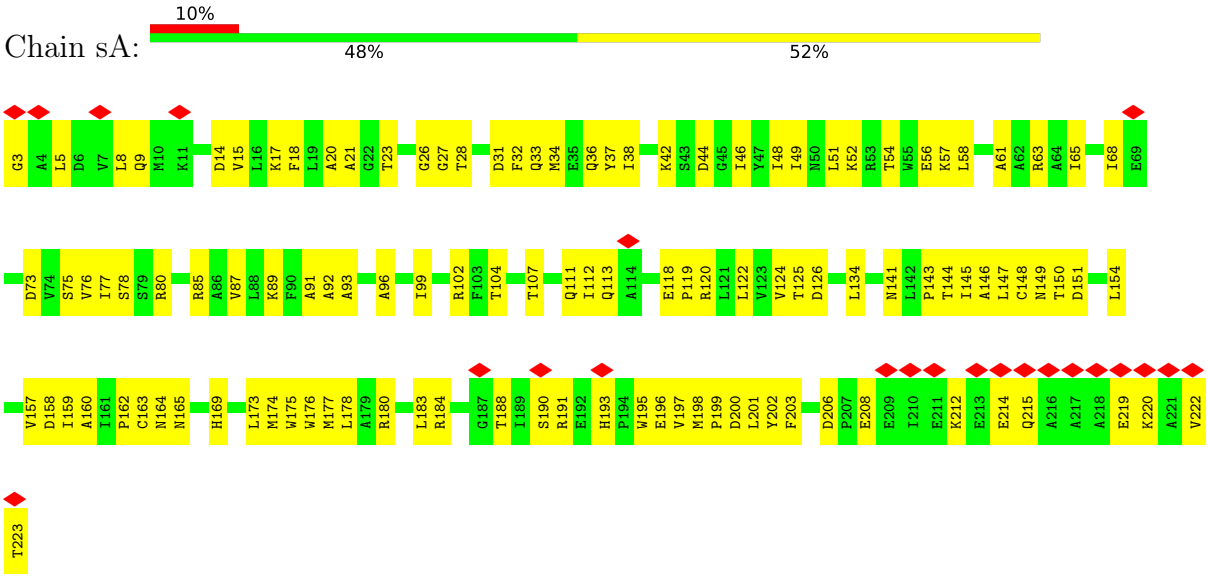
• Molecule 9: Small ribosomal subunit protein eS30

Chain Se:



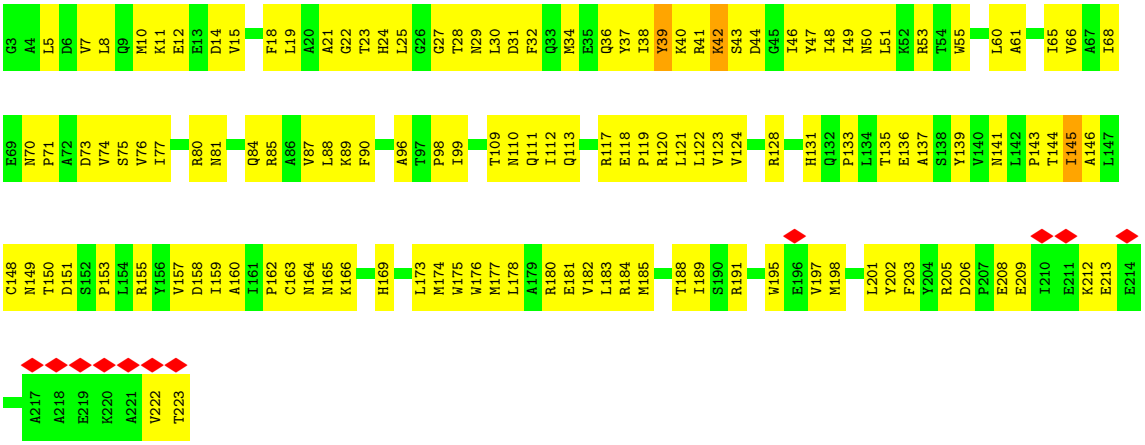
• Molecule 10: 40S ribosomal protein SA

Chain sA:



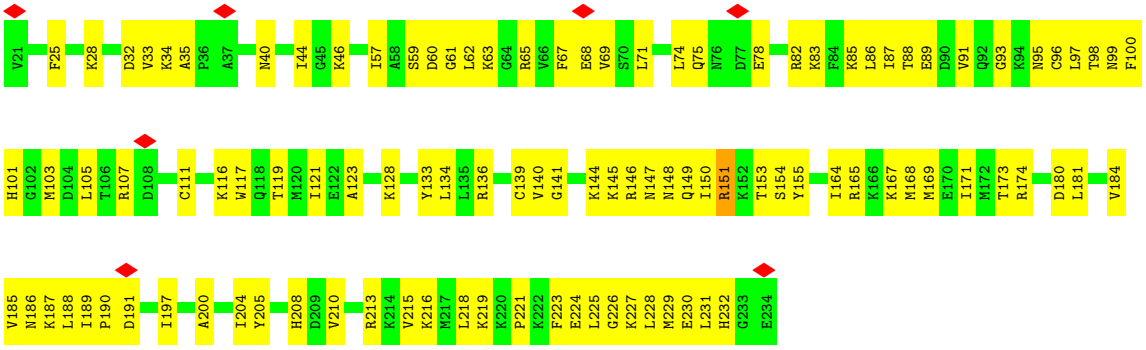
• Molecule 10: 40S ribosomal protein SA

Chain SA:



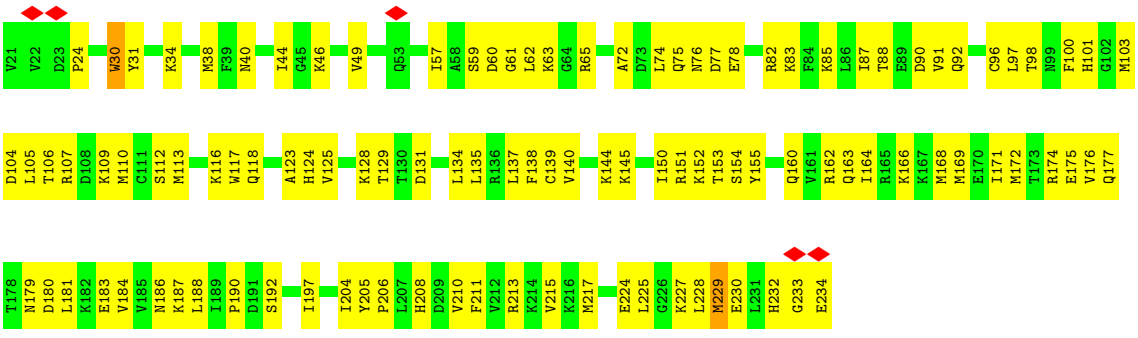
• Molecule 11: 40S ribosomal protein S3a

Chain sB:



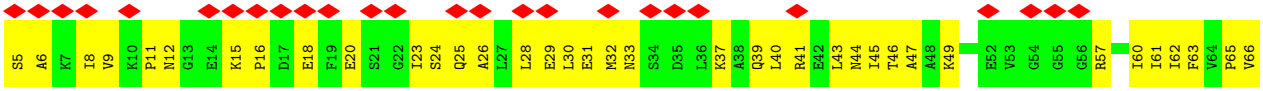
• Molecule 11: 40S ribosomal protein S3a

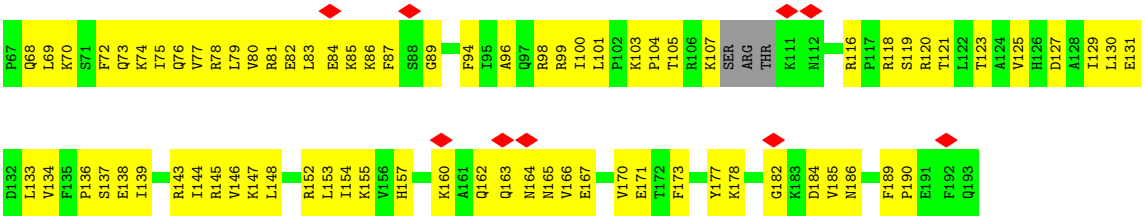
Chain SB:



• Molecule 12: Small ribosomal subunit protein eS7

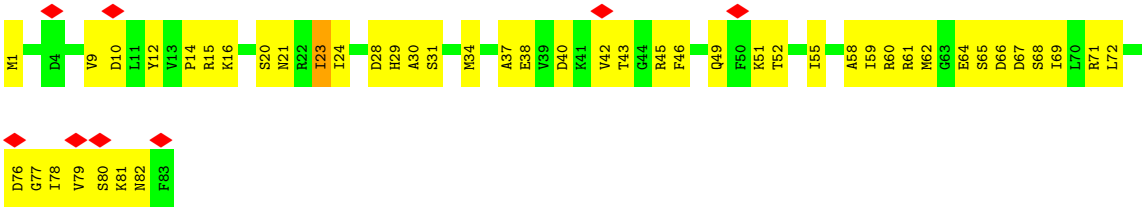
Chain sH:



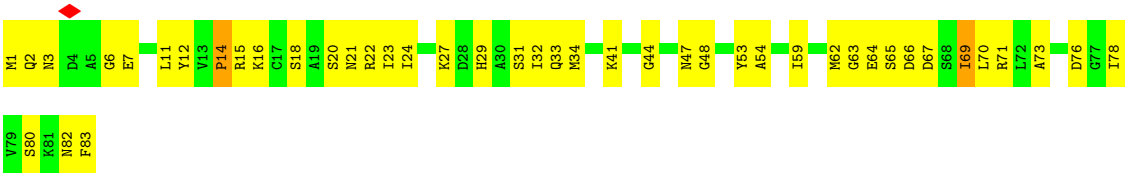


• Molecule 12: Small ribosomal subunit protein eS7

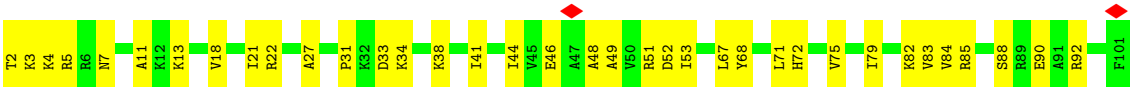
• Molecule 13: 40S ribosomal protein S21



• Molecule 13: 40S ribosomal protein S21

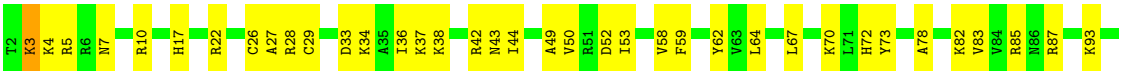


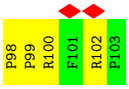
• Molecule 14: 40S ribosomal protein S26



• Molecule 14: 40S ribosomal protein S26

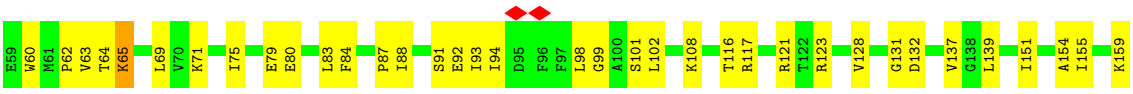
Chain Sa:

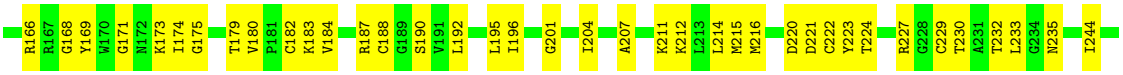


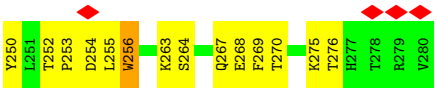


• Molecule 15: 40S ribosomal protein S2

Chain sC:





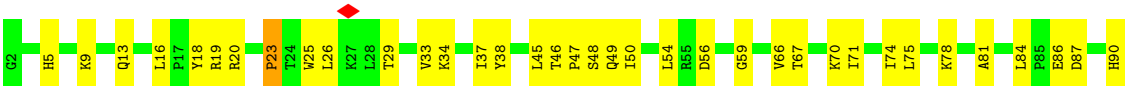


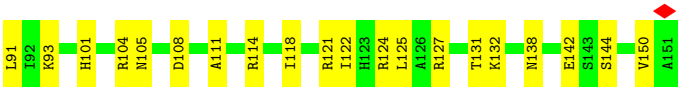
• Molecule 15: 40S ribosomal protein S2

Chain SC:

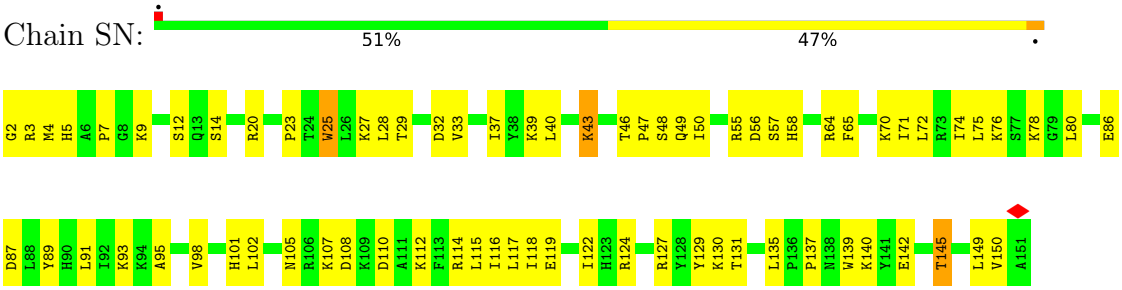
• Molecule 16: 40S ribosomal protein S13

Chain sN:

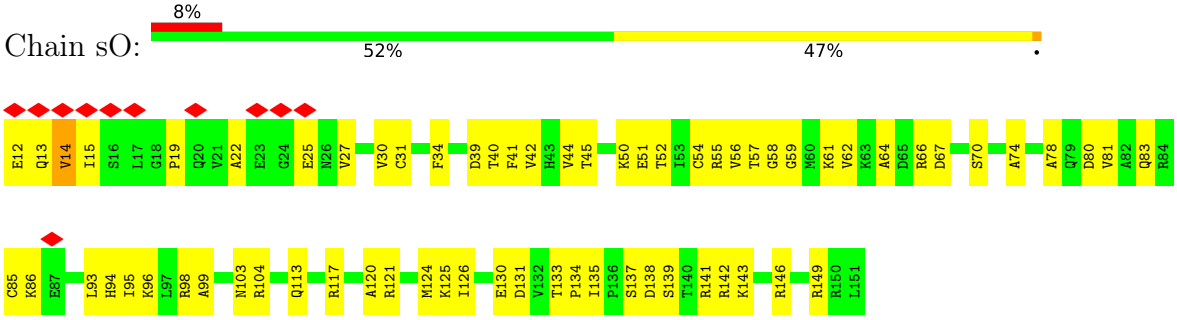




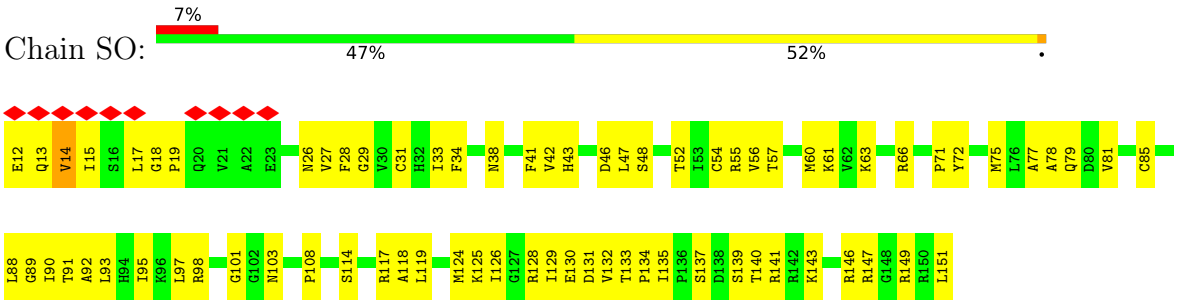
• Molecule 16: 40S ribosomal protein S13



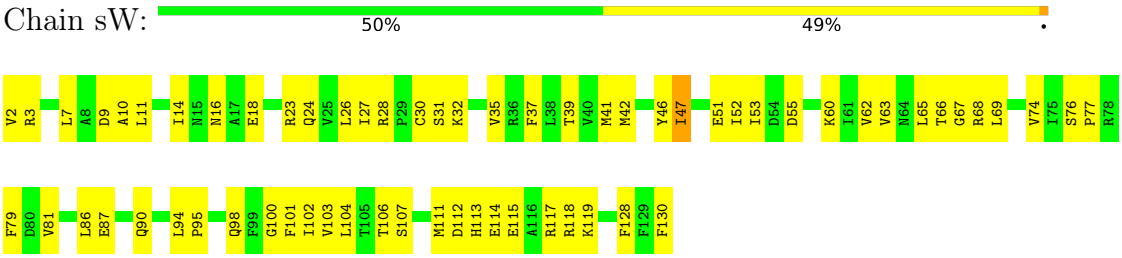
• Molecule 17: Small ribosomal subunit protein uS11



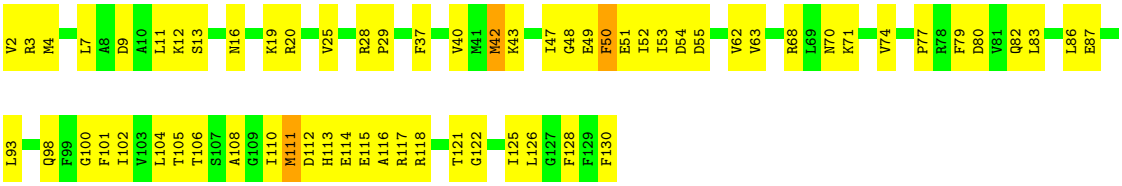
• Molecule 17: Small ribosomal subunit protein uS11



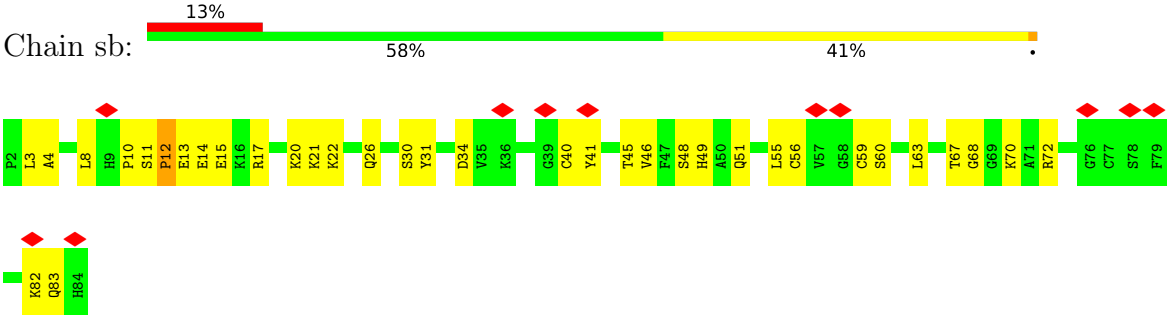
• Molecule 18: 40S ribosomal protein S15a



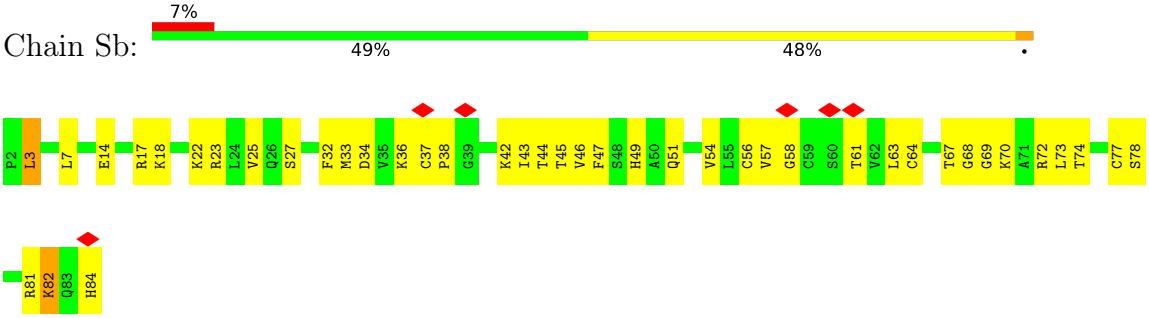
• Molecule 18: 40S ribosomal protein S15a



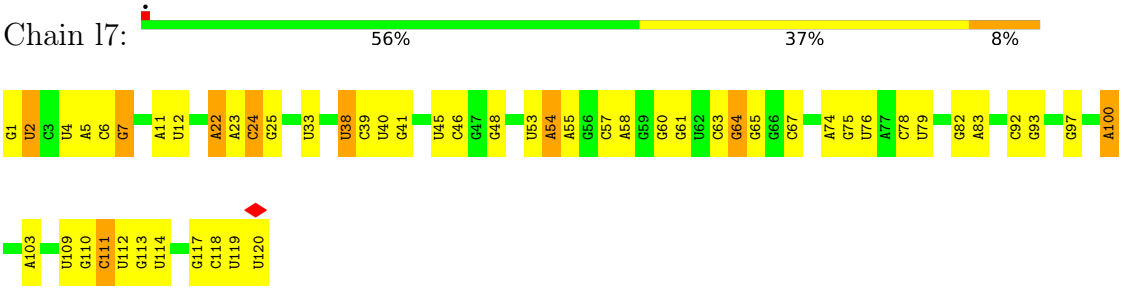
• Molecule 19: Small ribosomal subunit protein eS27



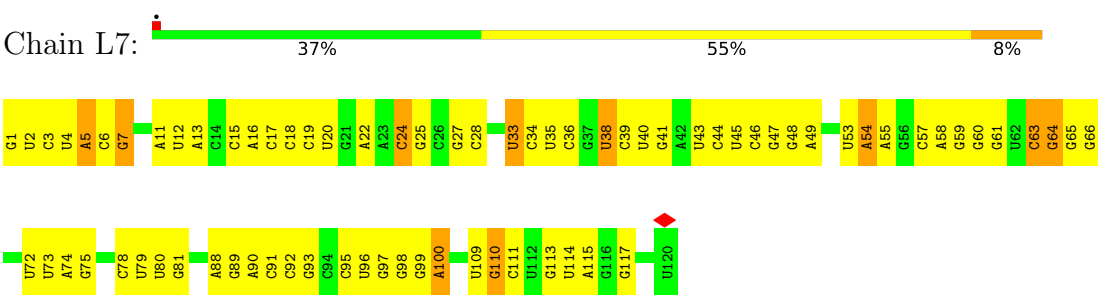
• Molecule 19: Small ribosomal subunit protein eS27



• Molecule 20: 5S rRNA [Homo sapiens]

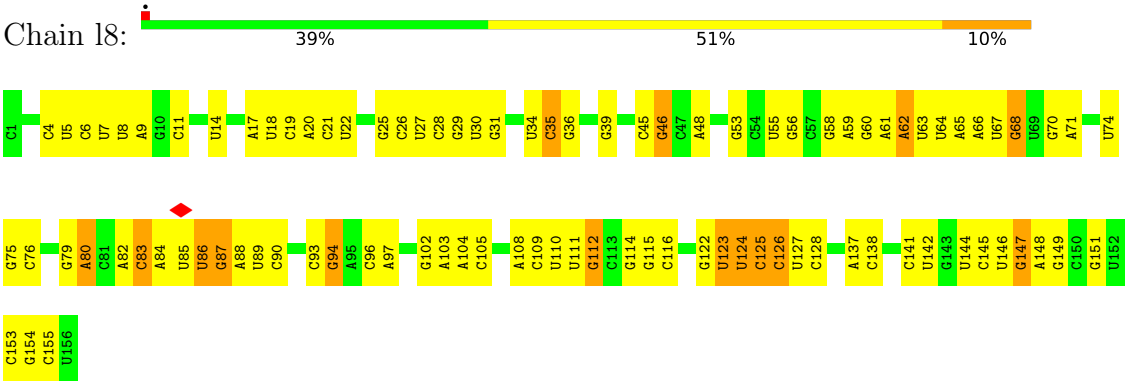


• Molecule 20: 5S rRNA [Homo sapiens]



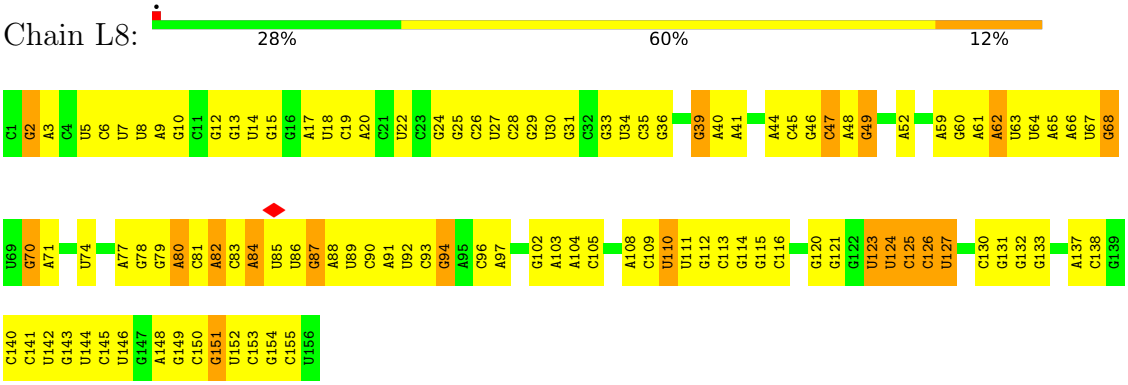
• Molecule 21: 5.8S rRNA [Homo sapiens]

Chain l8:



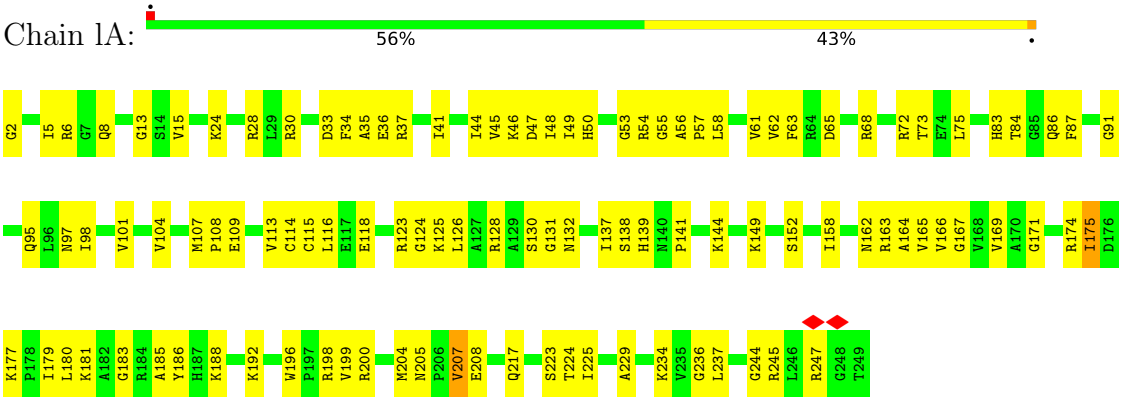
• Molecule 21: 5.8S rRNA [Homo sapiens]

Chain L8:



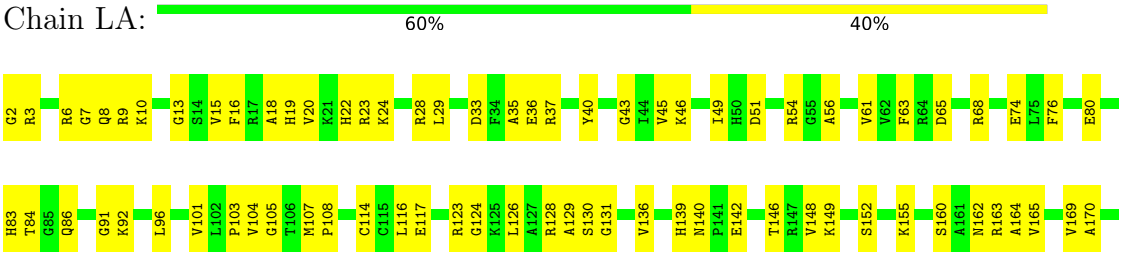
• Molecule 22: 60S ribosomal protein L8

Chain lA:



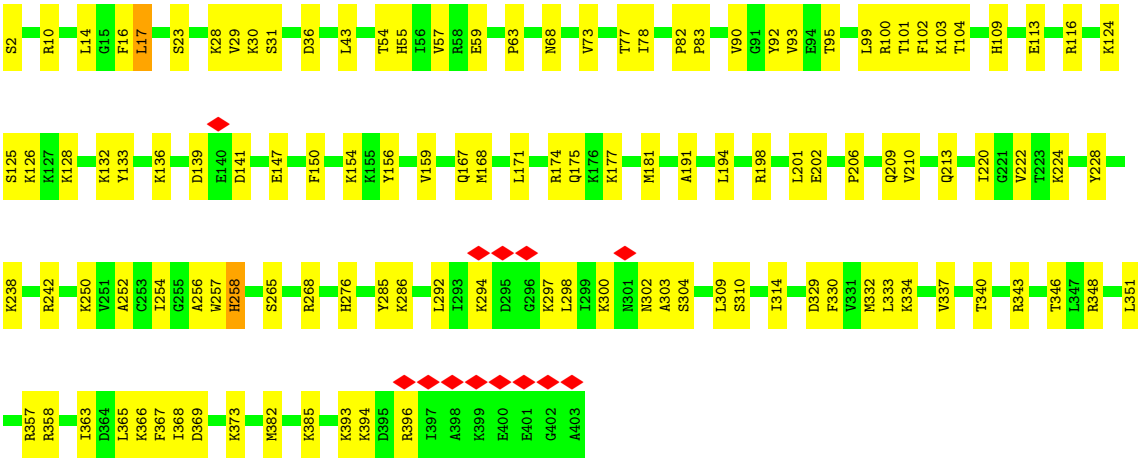
• Molecule 22: 60S ribosomal protein L8

Chain LA:



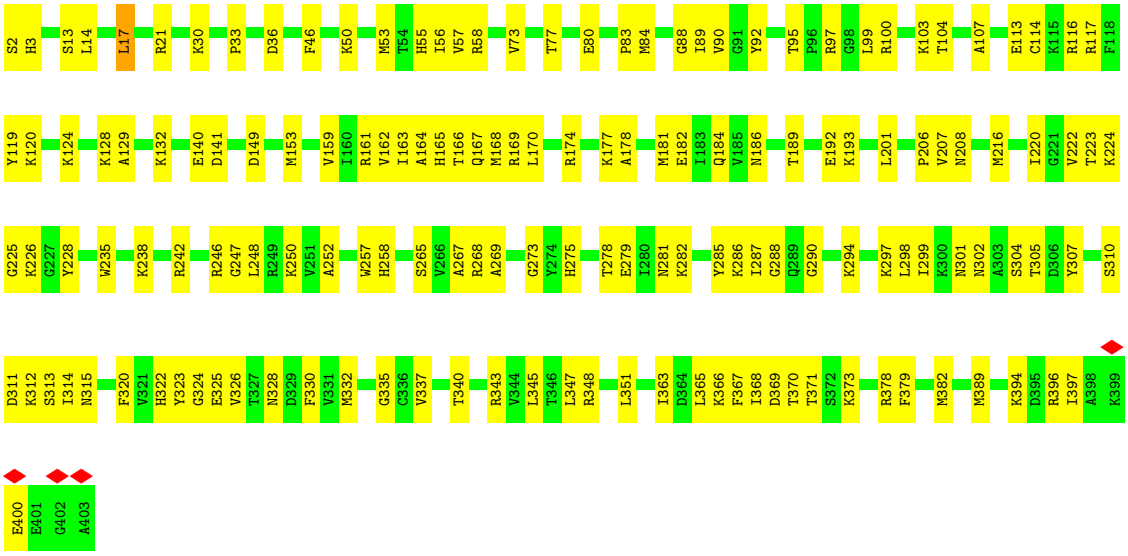
• Molecule 23: Large ribosomal subunit protein uL3

Chain lB:



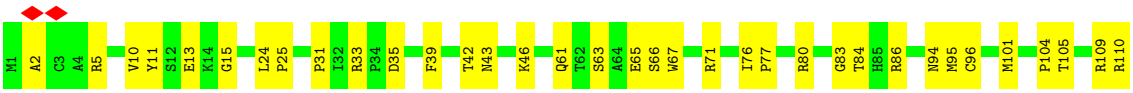
• Molecule 23: Large ribosomal subunit protein uL3

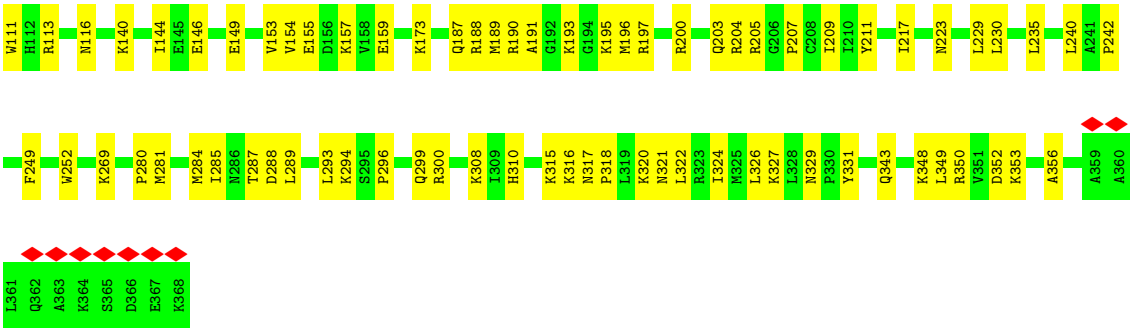
Chain LB:



• Molecule 24: 60S ribosomal protein L4

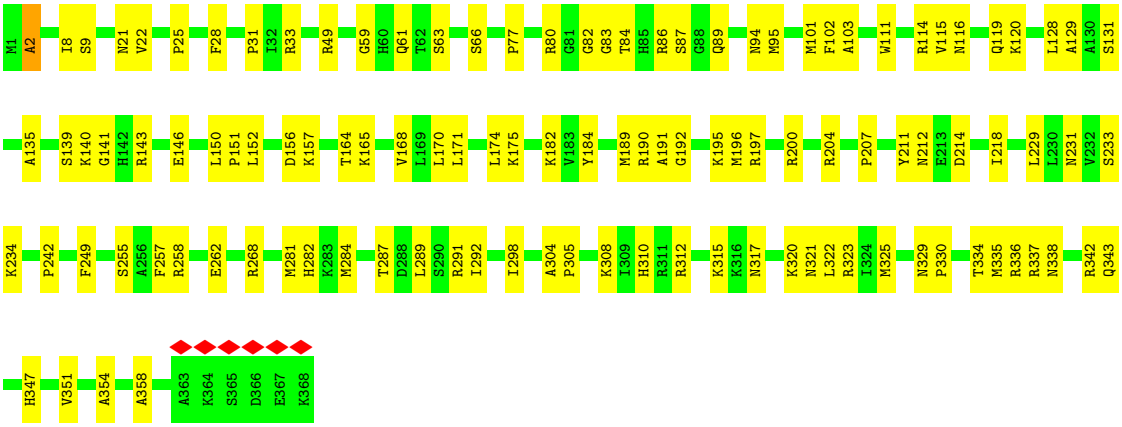
Chain lC:





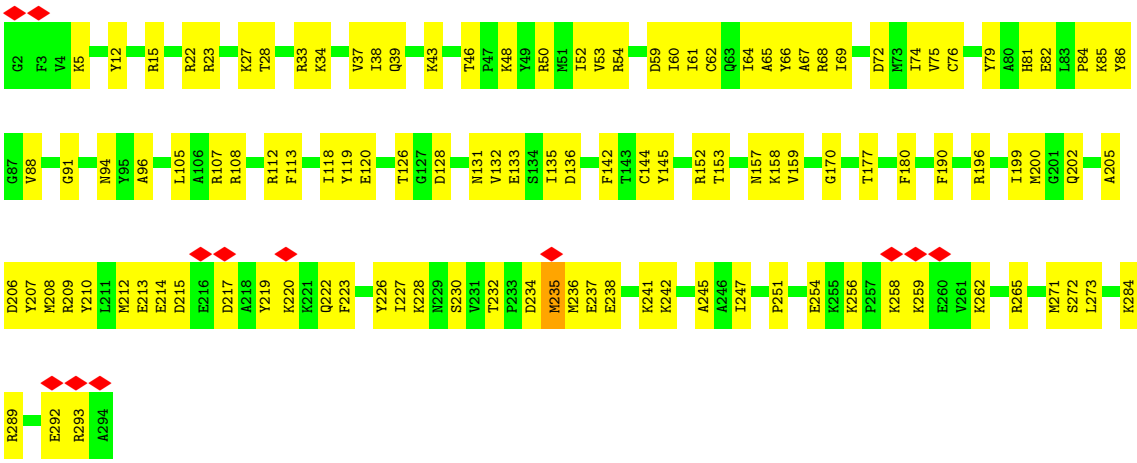
• Molecule 24: 60S ribosomal protein L4

Chain LC:



• Molecule 25: Large ribosomal subunit protein uL18

Chain lD:

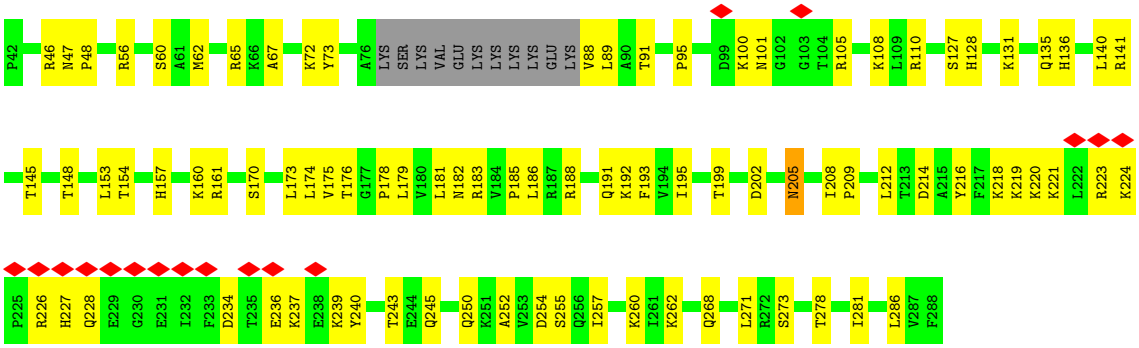


• Molecule 25: Large ribosomal subunit protein uL18

Chain LD:

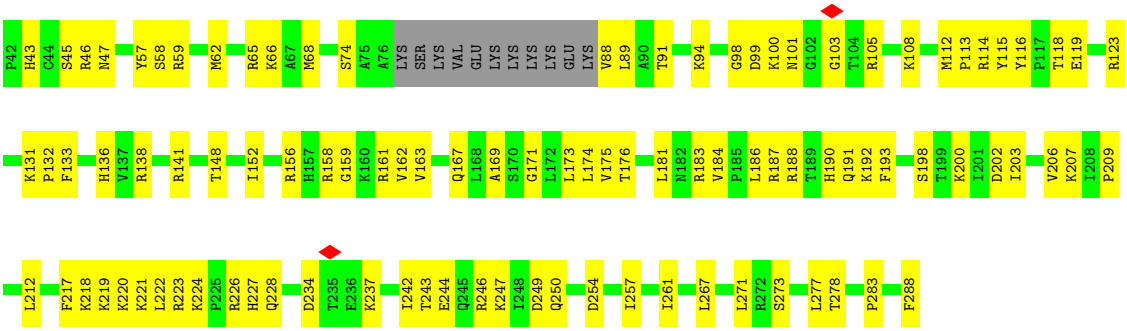
• Molecule 26: Large ribosomal subunit protein eL6

Chain lE:



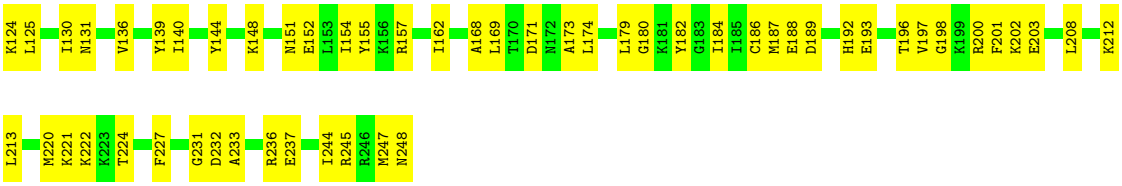
• Molecule 26: Large ribosomal subunit protein eL6

Chain LE:



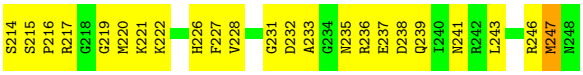
• Molecule 27: 60S ribosomal protein L7

Chain lF:



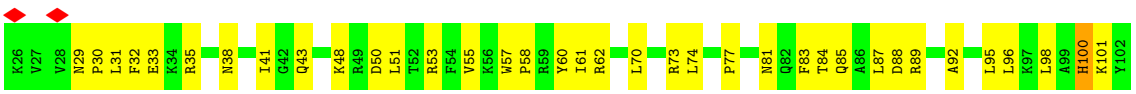
• Molecule 27: 60S ribosomal protein L7

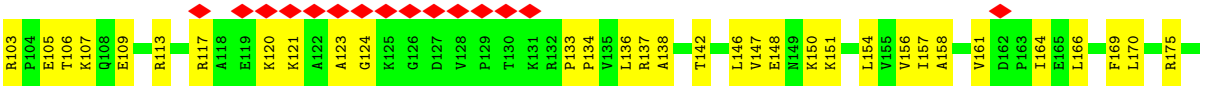
Chain LF:



• Molecule 28: 60S ribosomal protein L7a

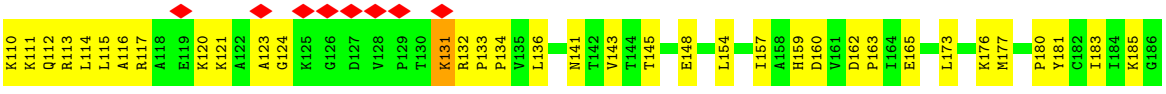
Chain lG:

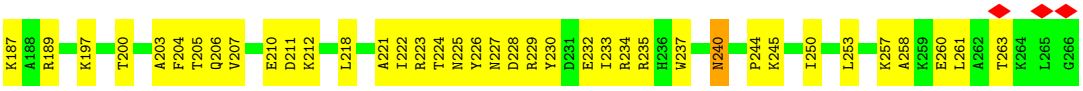




• Molecule 28: 60S ribosomal protein L7a

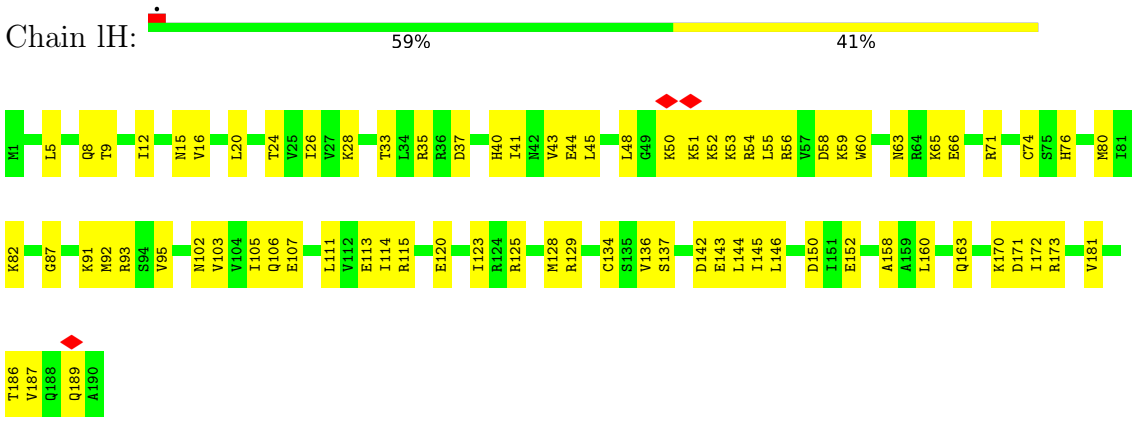
Chain LG:





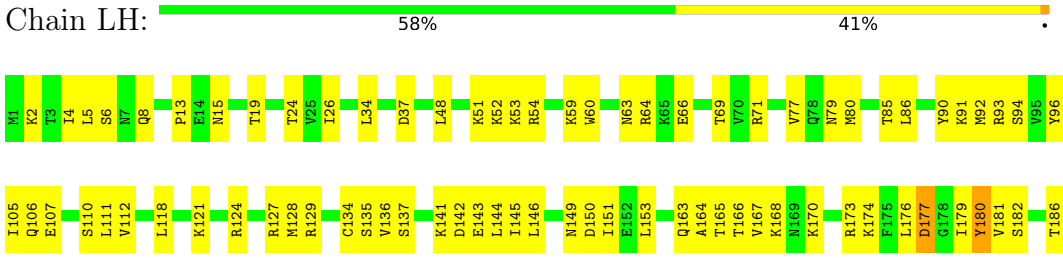
• Molecule 29: 60S ribosomal protein L9

Chain lH:



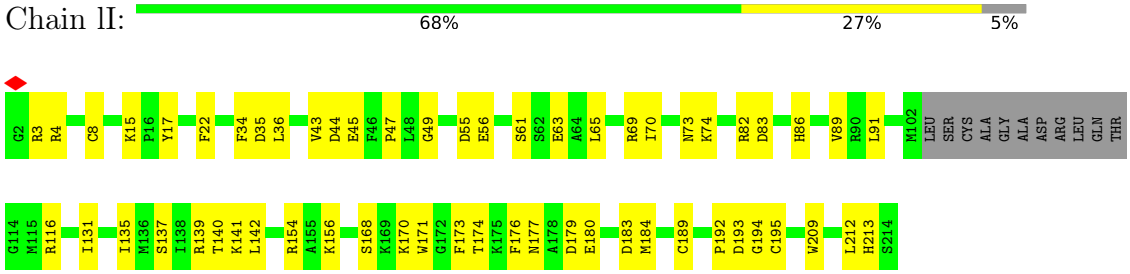
• Molecule 29: 60S ribosomal protein L9

Chain LH:



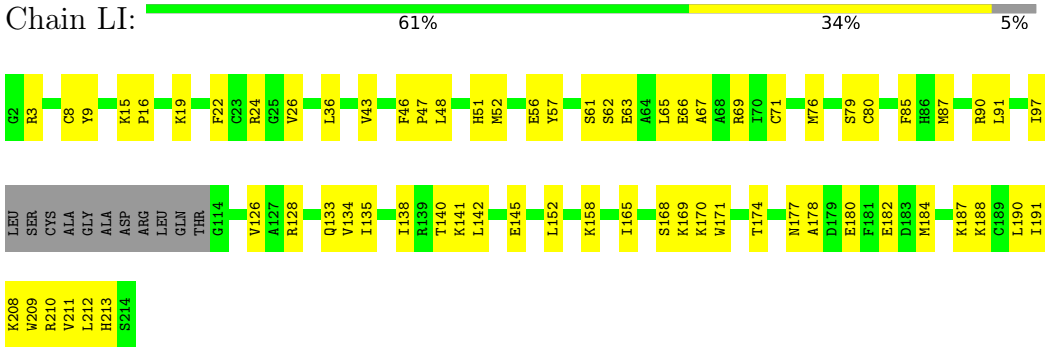
• Molecule 30: Ribosomal protein uL16-like

Chain lI:



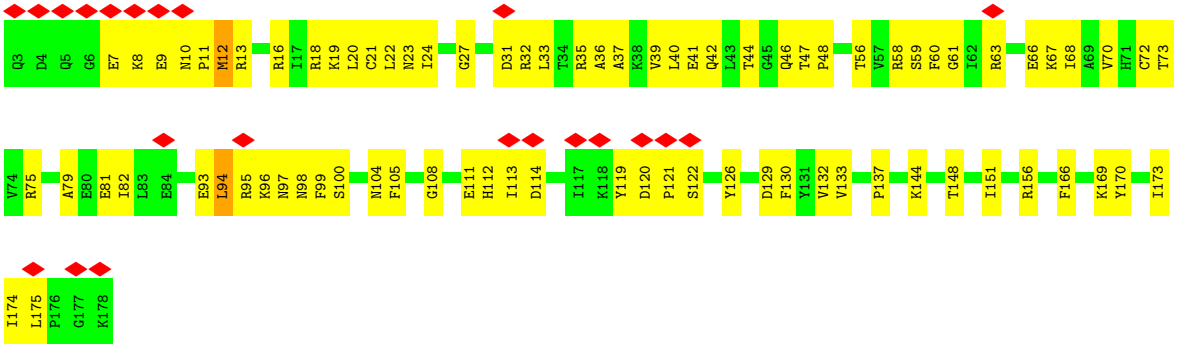
• Molecule 30: Ribosomal protein uL16-like

Chain LI:

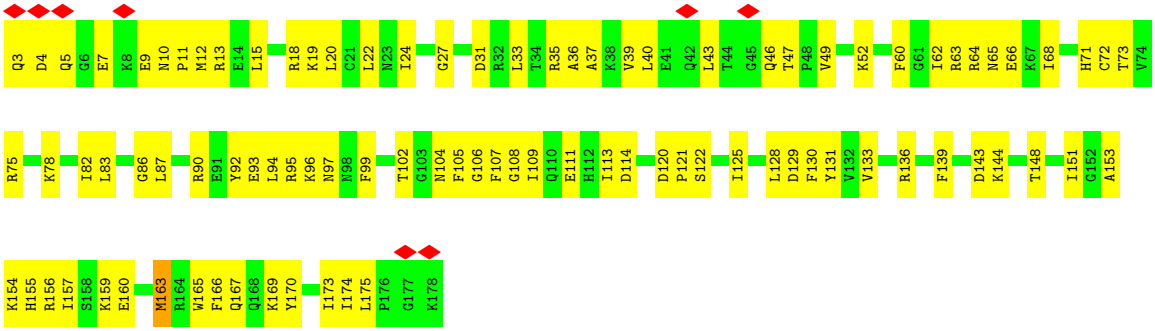


• Molecule 31: 60S ribosomal protein L11

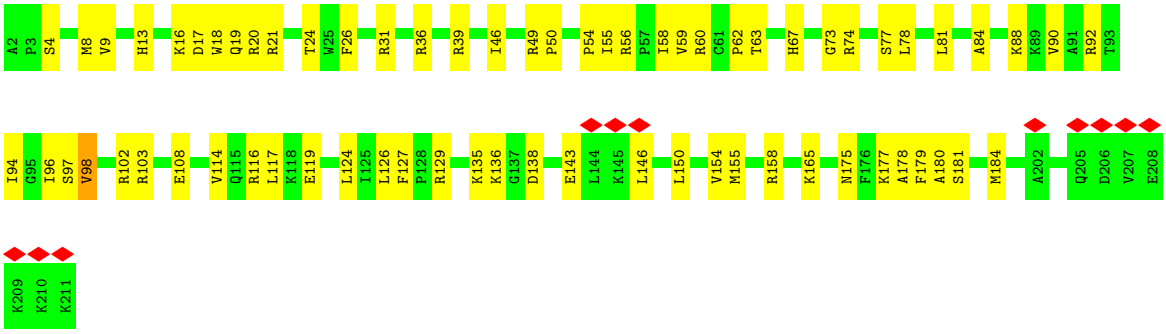
Chain lJ:



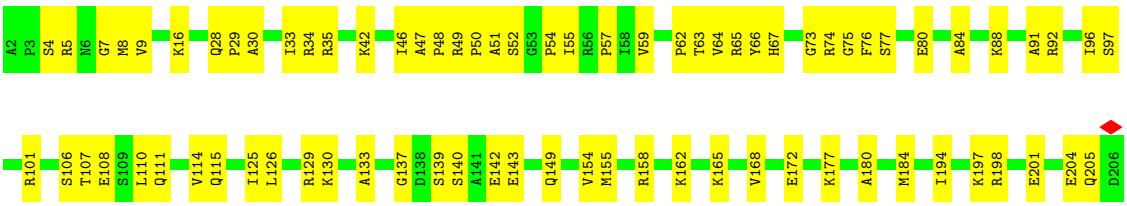
• Molecule 31: 60S ribosomal protein L11

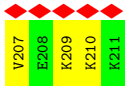


• Molecule 32: Large ribosomal subunit protein eL13



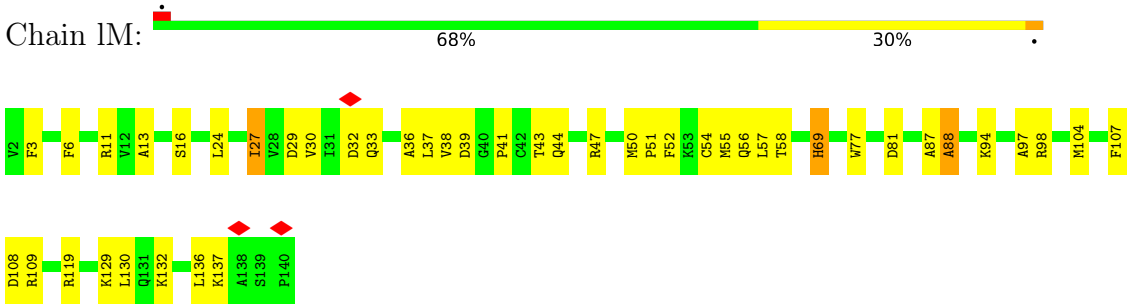
• Molecule 32: Large ribosomal subunit protein eL13





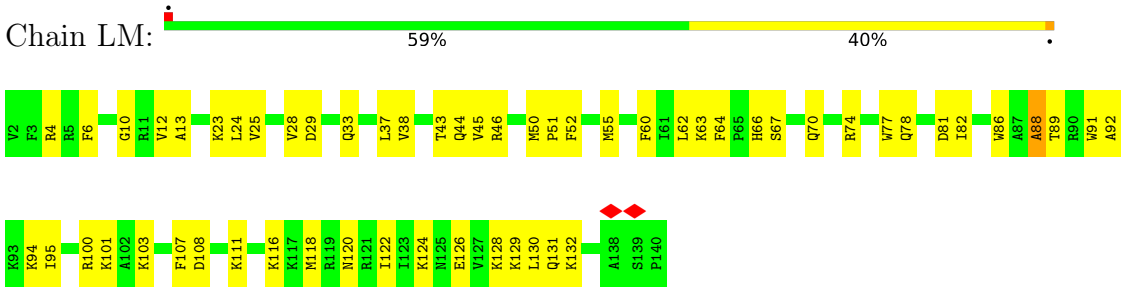
• Molecule 33: 60S ribosomal protein L14

Chain lM:



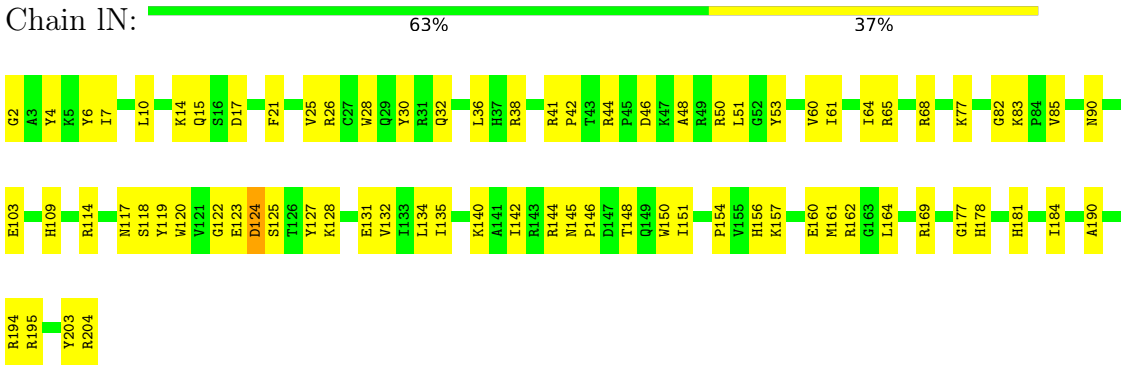
• Molecule 33: 60S ribosomal protein L14

Chain LM:



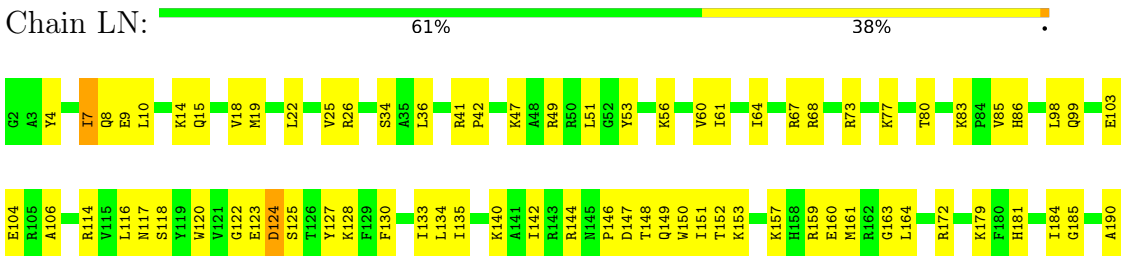
• Molecule 34: 60S ribosomal protein L15

Chain lN:



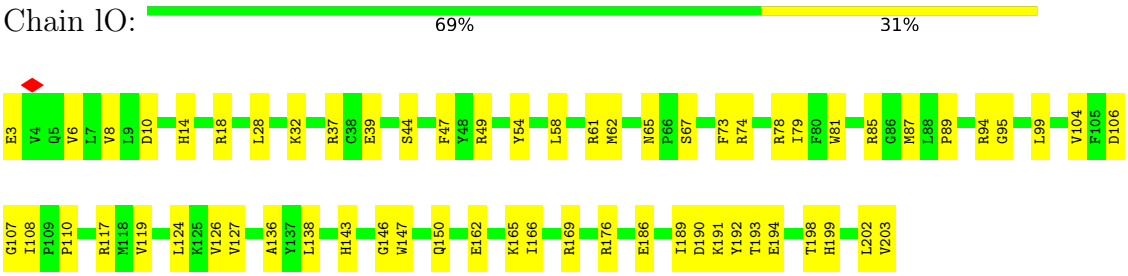
• Molecule 34: 60S ribosomal protein L15

Chain LN:



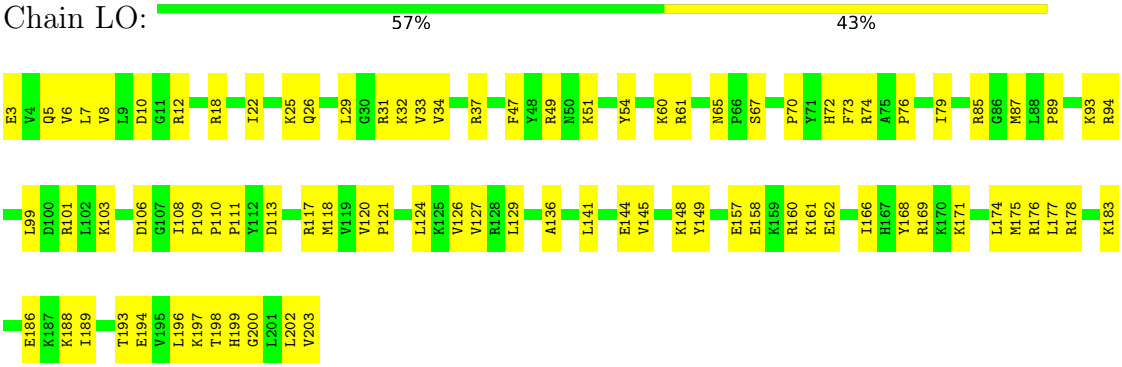
• Molecule 35: 60S ribosomal protein L13a

Chain lO:



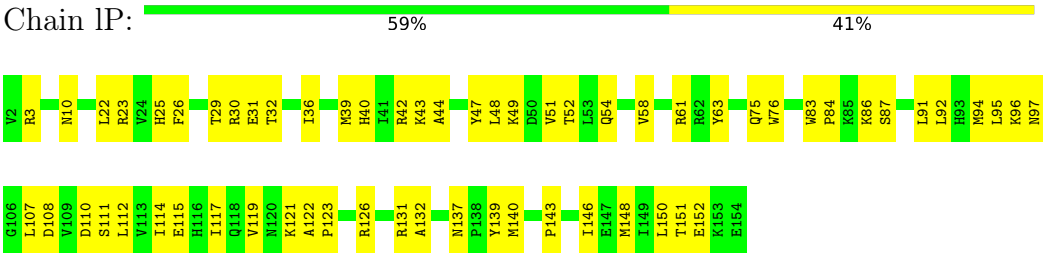
• Molecule 35: 60S ribosomal protein L13a

Chain LO:



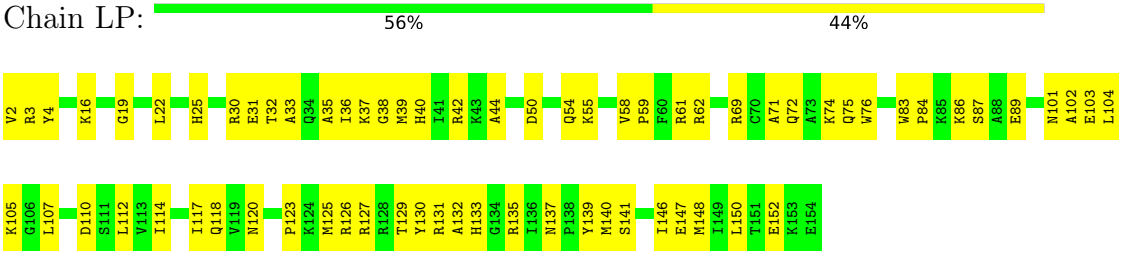
• Molecule 36: 60S ribosomal protein L17

Chain lP:



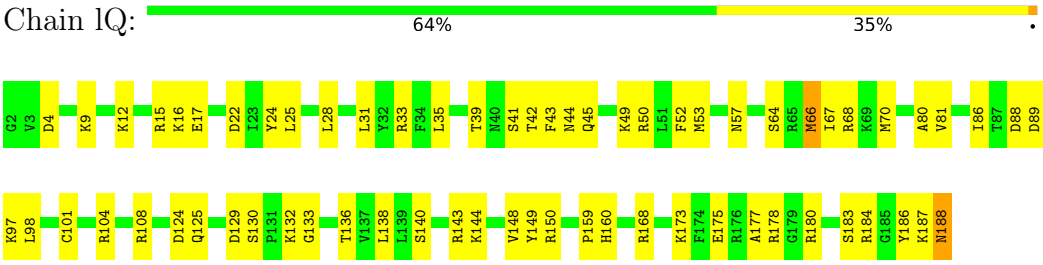
• Molecule 36: 60S ribosomal protein L17

Chain LP:



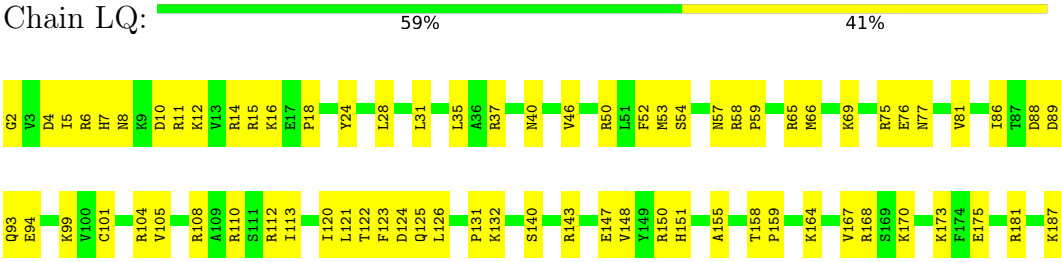
• Molecule 37: 60S ribosomal protein L18

Chain lQ:



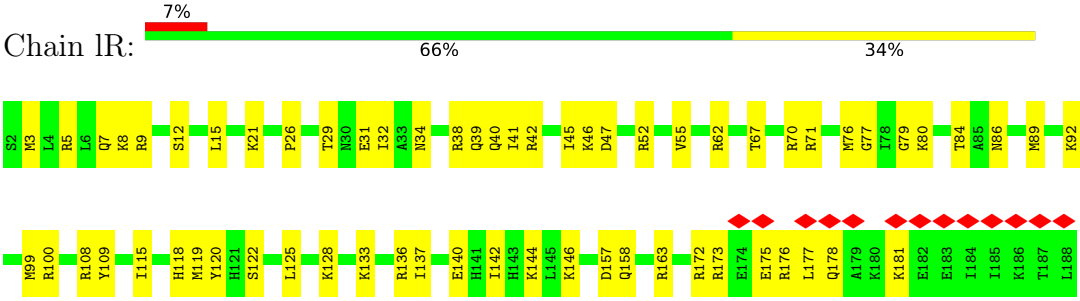
• Molecule 37: 60S ribosomal protein L18

Chain LQ:



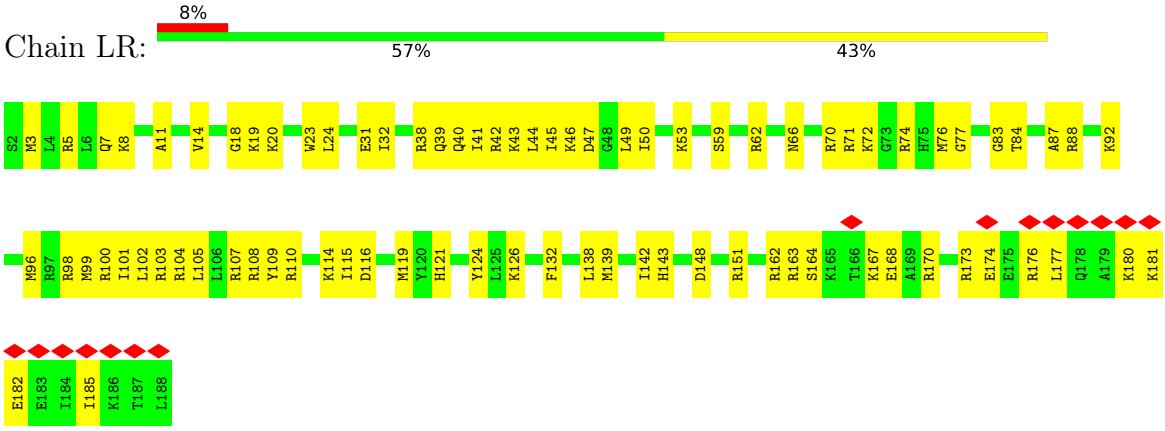
• Molecule 38: 60S ribosomal protein L19

Chain lR:



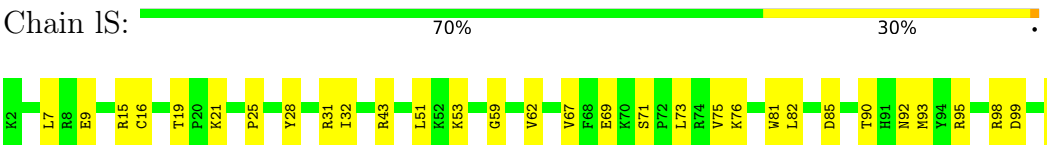
• Molecule 38: 60S ribosomal protein L19

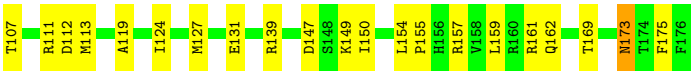
Chain LR:



• Molecule 39: 60S ribosomal protein L18a

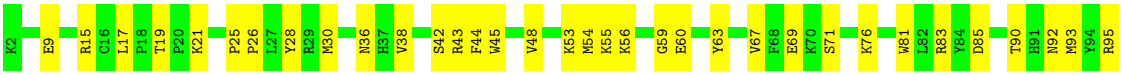
Chain lS:





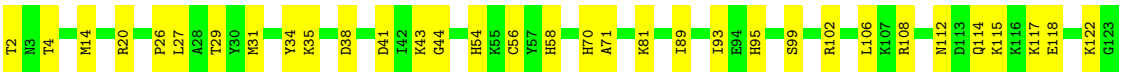
• Molecule 39: 60S ribosomal protein L18a

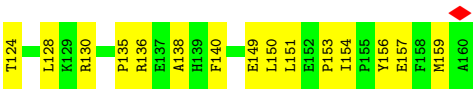
Chain LS:



• Molecule 40: 60S ribosomal protein L21

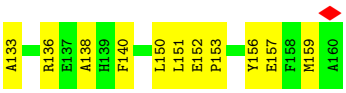
Chain lT:





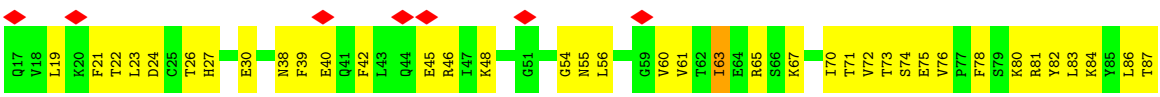
• Molecule 40: 60S ribosomal protein L21

Chain LT:



• Molecule 41: Heparin-binding protein HBp15

Chain lU:

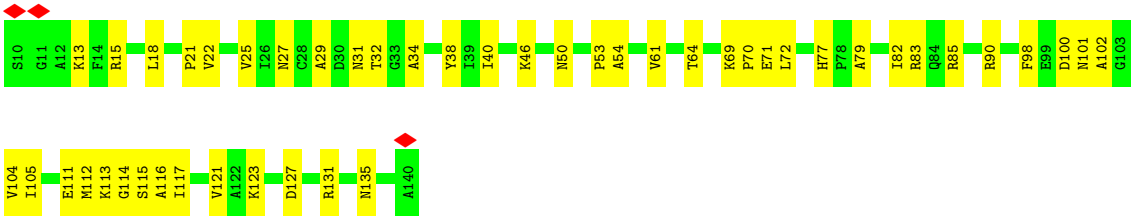


• Molecule 41: Heparin-binding protein HBp15

Chain LU:

• Molecule 42: 60S ribosomal protein L23

Chain lV:

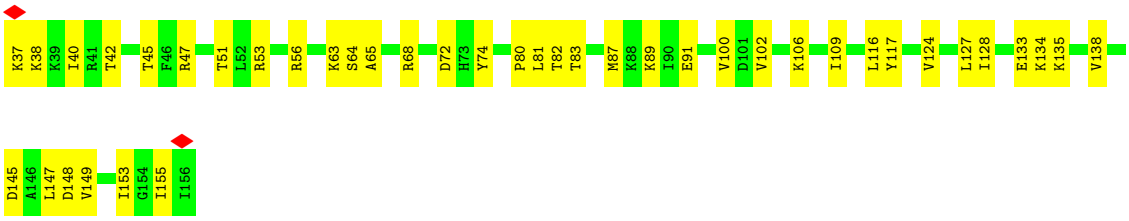


• Molecule 42: 60S ribosomal protein L23

Chain LV:

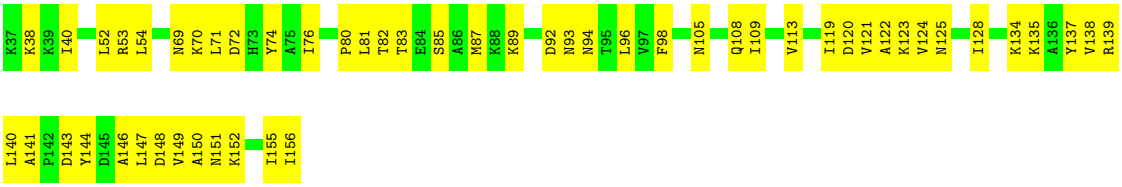
• Molecule 43: 60S ribosomal protein L23a

Chain lX:



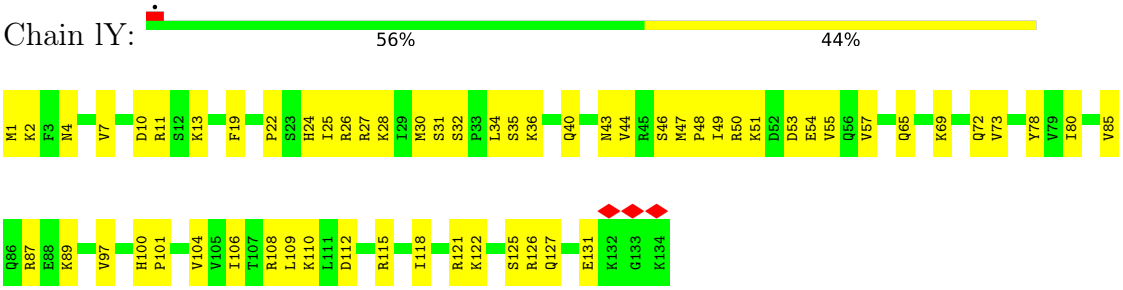
• Molecule 43: 60S ribosomal protein L23a

Chain LX:



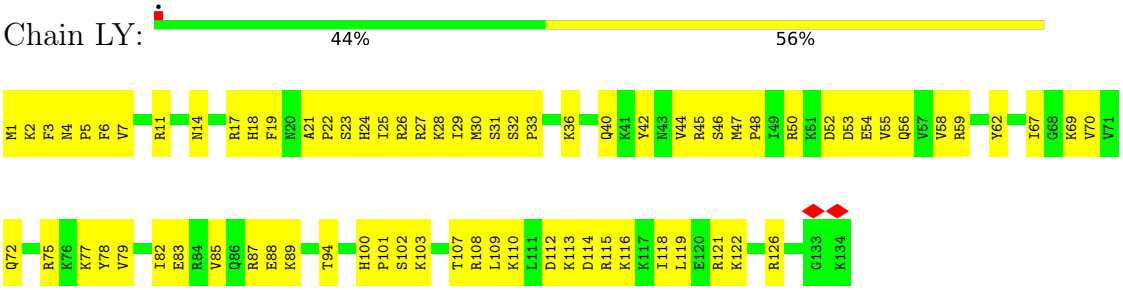
• Molecule 44: 60S ribosomal protein L26

Chain lY:



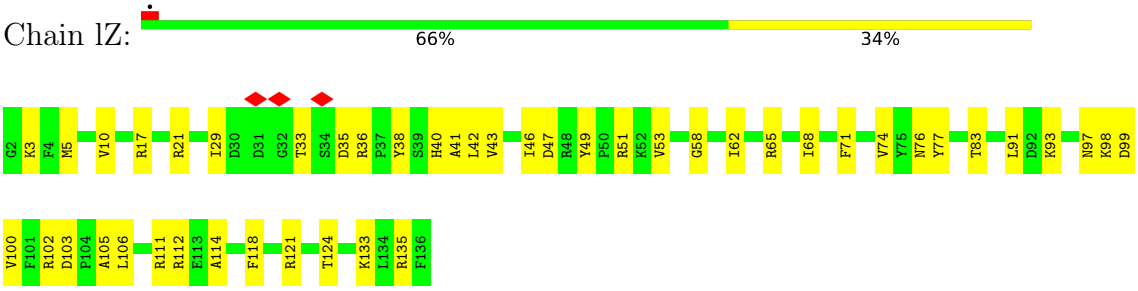
• Molecule 44: 60S ribosomal protein L26

Chain LY:



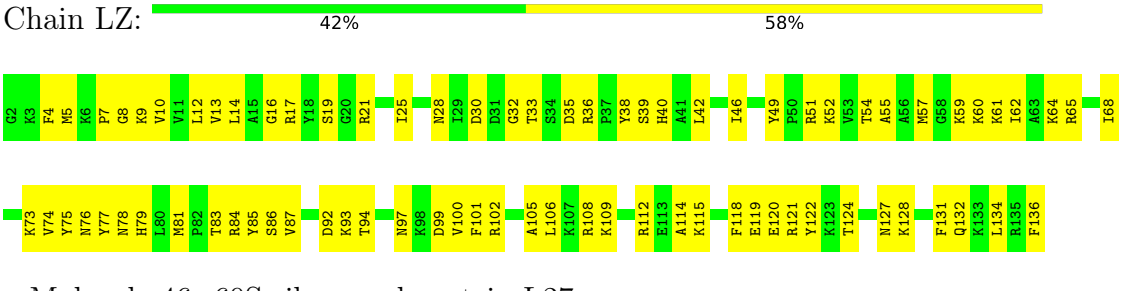
• Molecule 45: 60S ribosomal protein L27

Chain lZ:



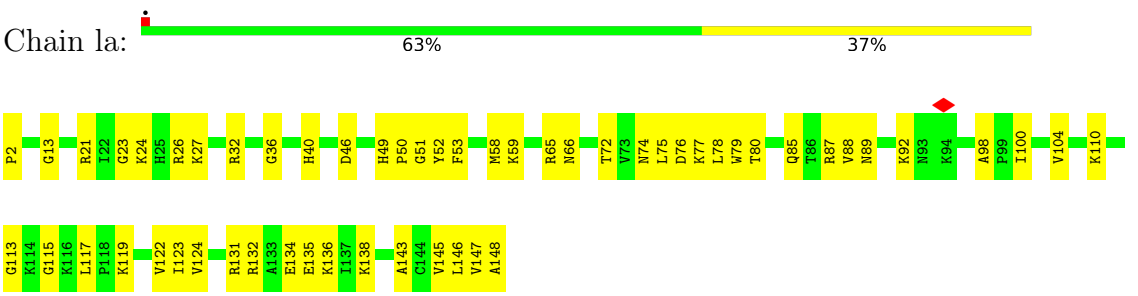
• Molecule 45: 60S ribosomal protein L27

Chain LZ:



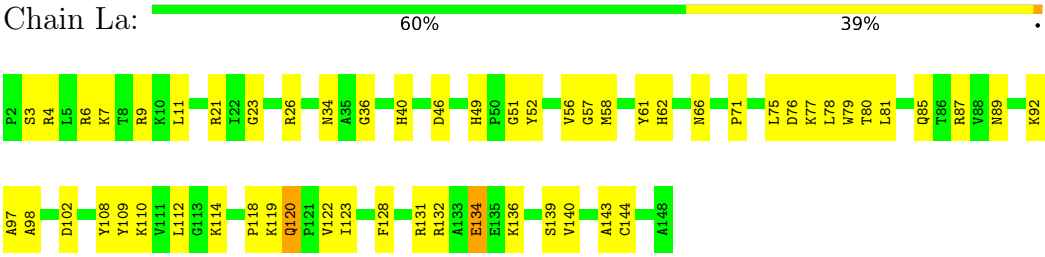
• Molecule 46: 60S ribosomal protein L27a

Chain la:



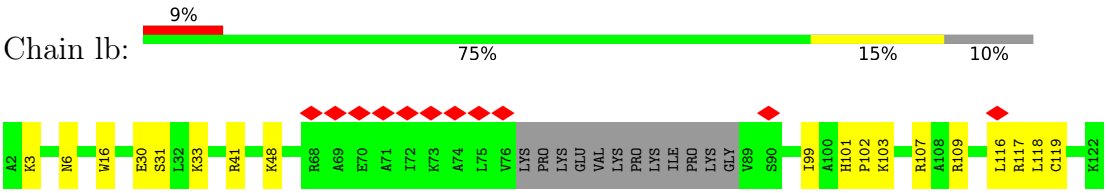
• Molecule 46: 60S ribosomal protein L27a

Chain La:



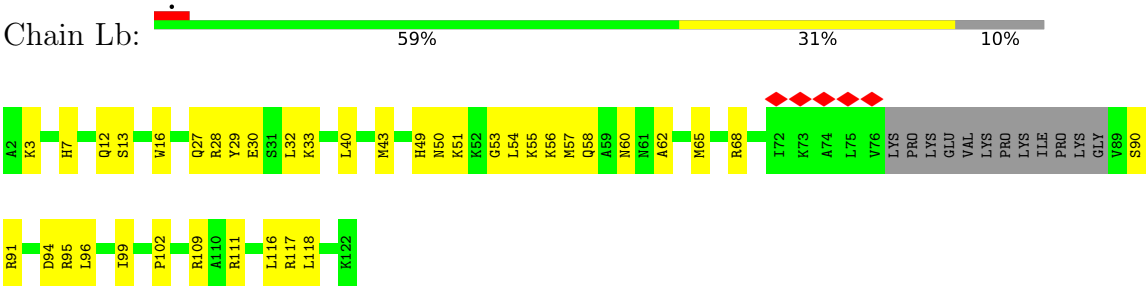
• Molecule 47: Large ribosomal subunit protein eL29

Chain lb:



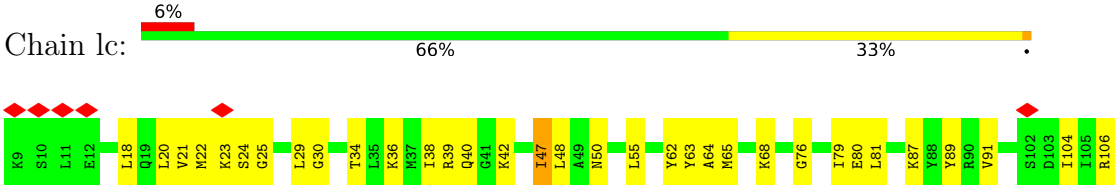
• Molecule 47: Large ribosomal subunit protein eL29

Chain Lb:



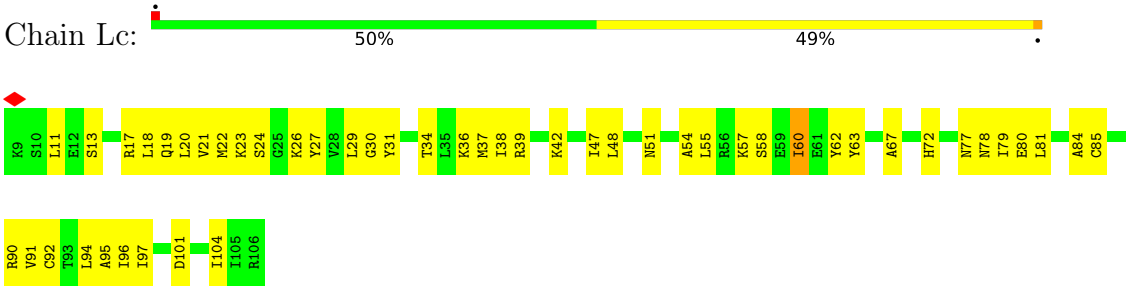
• Molecule 48: 60S ribosomal protein L30

Chain lc:



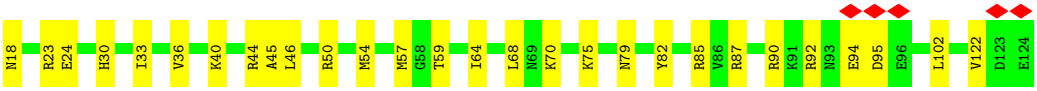
• Molecule 48: 60S ribosomal protein L30

Chain Lc:



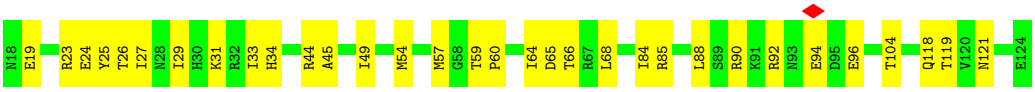
• Molecule 49: 60S ribosomal protein L31

Chain ld:



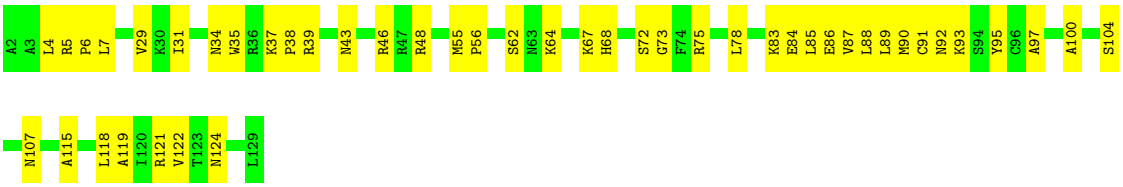
• Molecule 49: 60S ribosomal protein L31

Chain Ld:



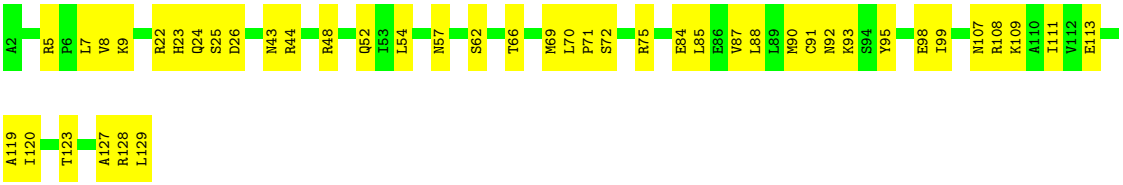
• Molecule 50: 60S ribosomal protein L32

Chain le:



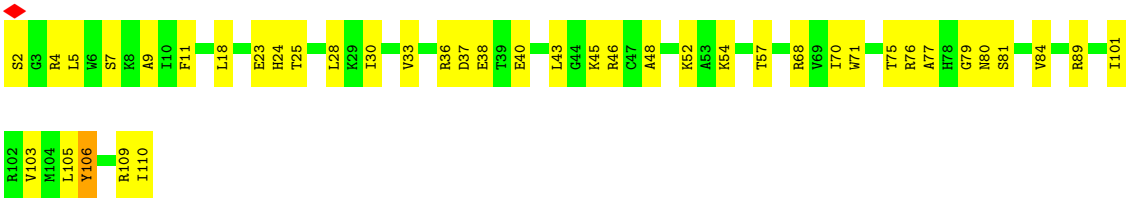
• Molecule 50: 60S ribosomal protein L32

Chain Le:



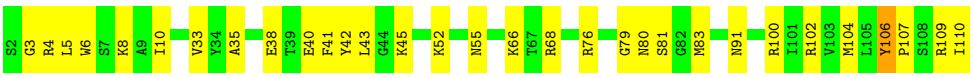
• Molecule 51: 60S ribosomal protein L35a

Chain lf:



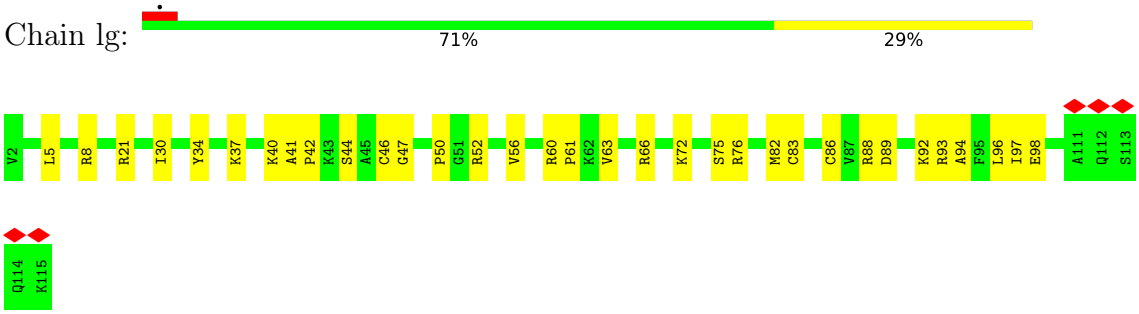
• Molecule 51: 60S ribosomal protein L35a

Chain Lf:



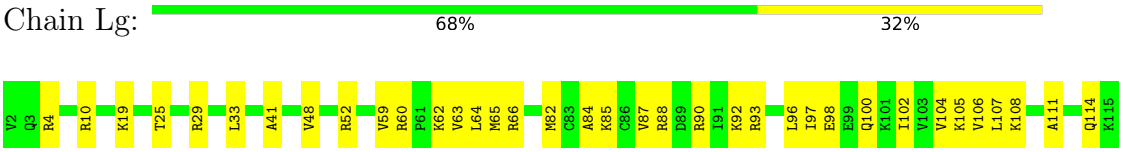
• Molecule 52: 60S ribosomal protein L34

Chain lg:



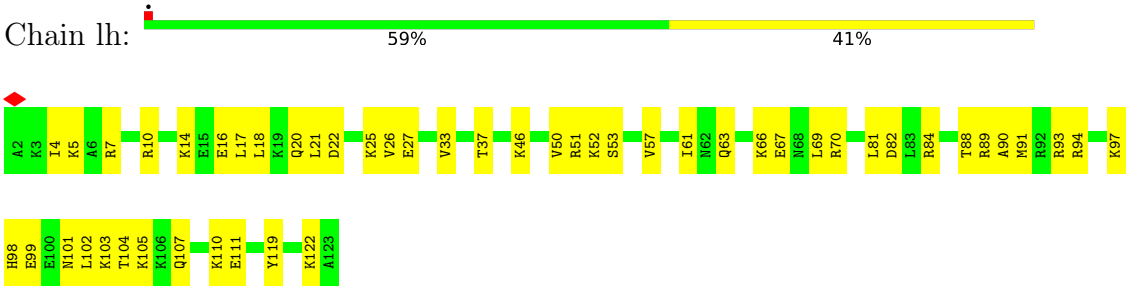
• Molecule 52: 60S ribosomal protein L34

Chain Lg:



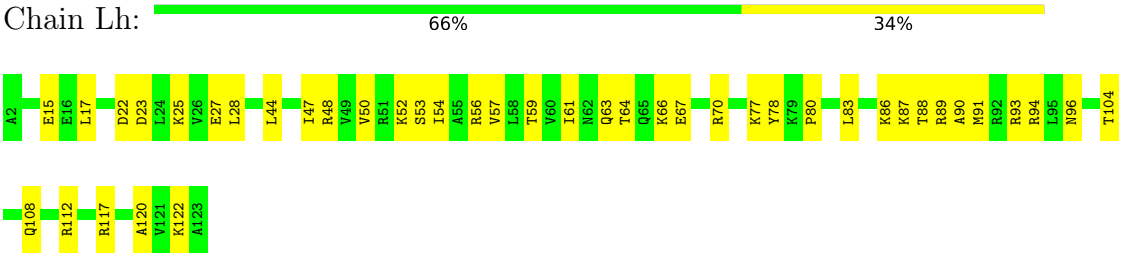
• Molecule 53: 60S ribosomal protein L35

Chain lh:



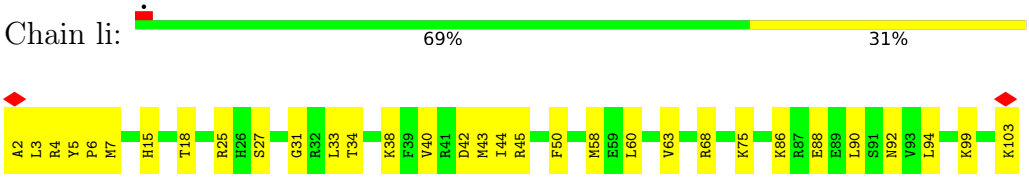
• Molecule 53: 60S ribosomal protein L35

Chain Lh:



• Molecule 54: 60S ribosomal protein L36

Chain li:

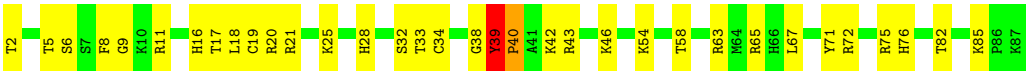


• Molecule 54: 60S ribosomal protein L36

Chain Li:

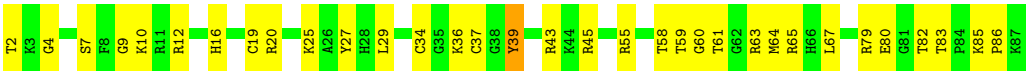
• Molecule 55: 60S ribosomal protein L37

Chain lj:



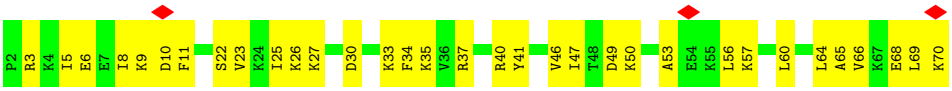
• Molecule 55: 60S ribosomal protein L37

Chain Lj:



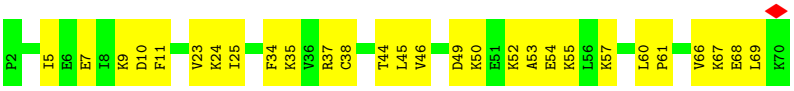
• Molecule 56: 60S ribosomal protein L38

Chain lk:



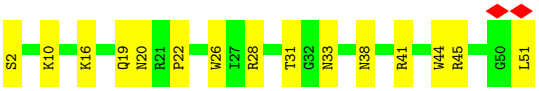
• Molecule 56: 60S ribosomal protein L38

Chain Lk:



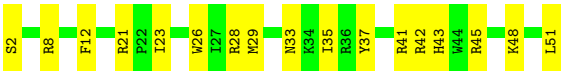
• Molecule 57: 60S ribosomal protein L39

Chain ll:



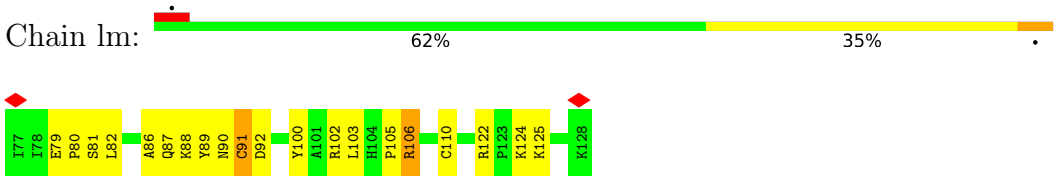
• Molecule 57: 60S ribosomal protein L39

Chain Ll:



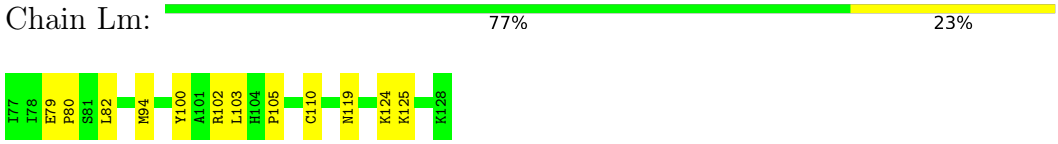
• Molecule 58: Large ribosomal subunit protein eL40

Chain lm:



• Molecule 58: Large ribosomal subunit protein eL40

Chain Lm:

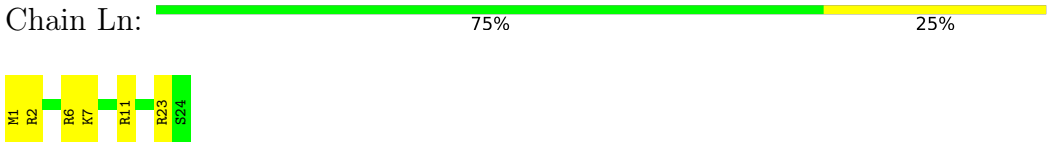


• Molecule 59: 60S ribosomal protein L41

Chain ln:

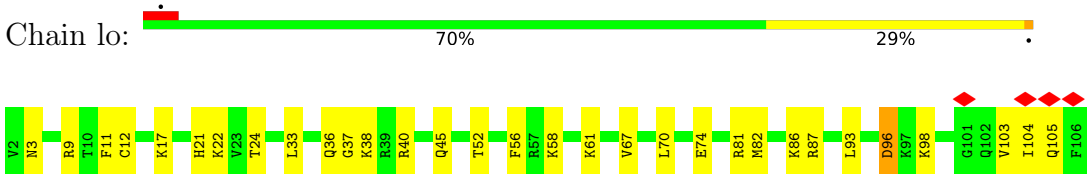
• Molecule 59: 60S ribosomal protein L41

Chain Ln:



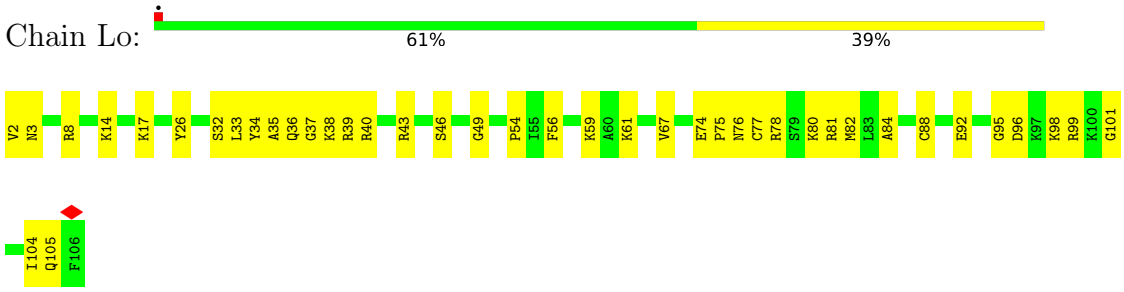
• Molecule 60: 60S ribosomal protein L36a

Chain lo:



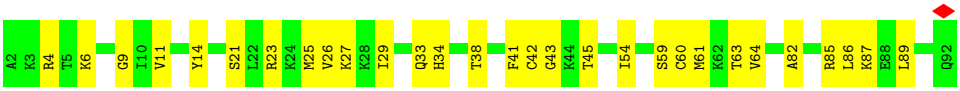
• Molecule 60: 60S ribosomal protein L36a

Chain Lo:



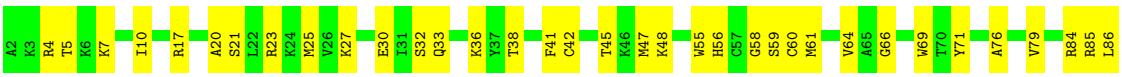
• Molecule 61: 60S ribosomal protein L37a

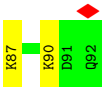
Chain lp:



• Molecule 61: 60S ribosomal protein L37a

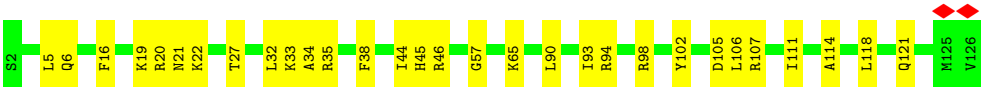
Chain Lp:





• Molecule 62: 60S ribosomal protein L28

Chain lr:

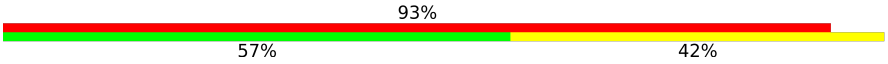


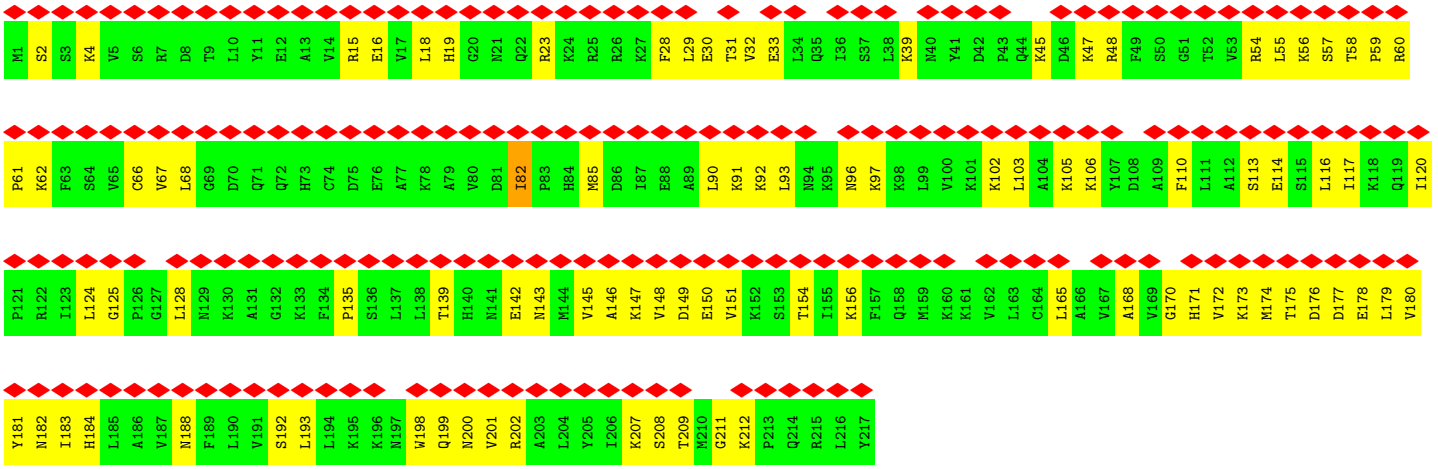
• Molecule 62: 60S ribosomal protein L28

Chain Lr:

• Molecule 63: 60S ribosomal protein L10a

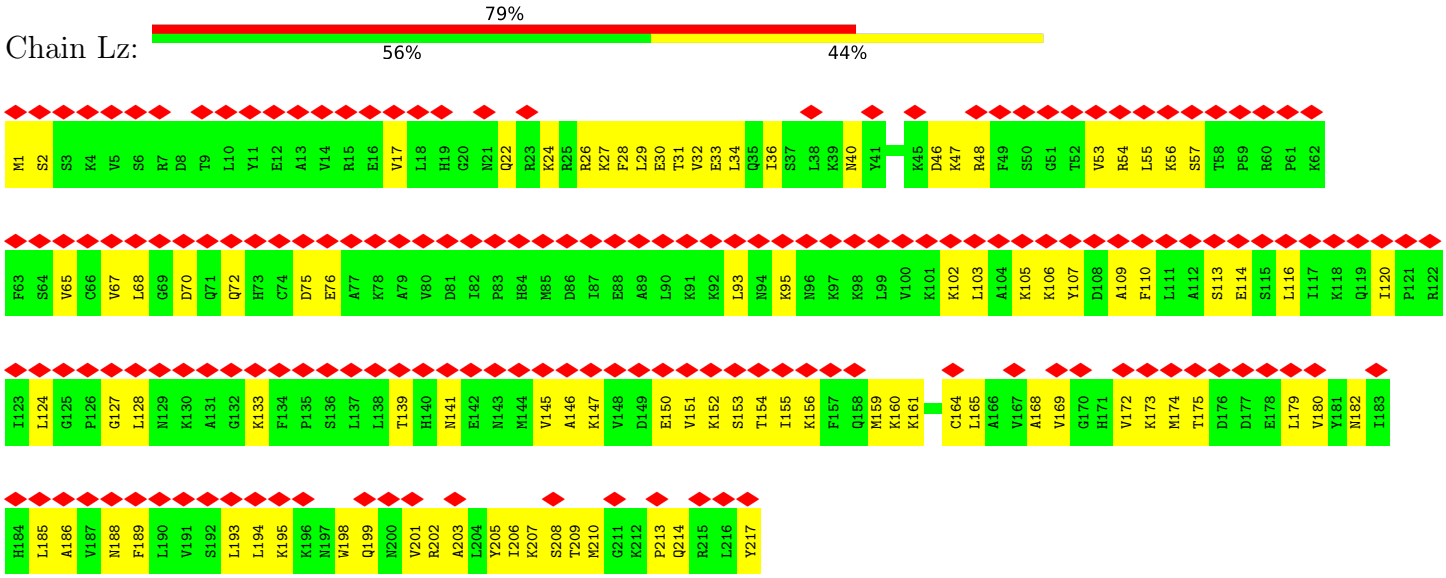
Chain lz:





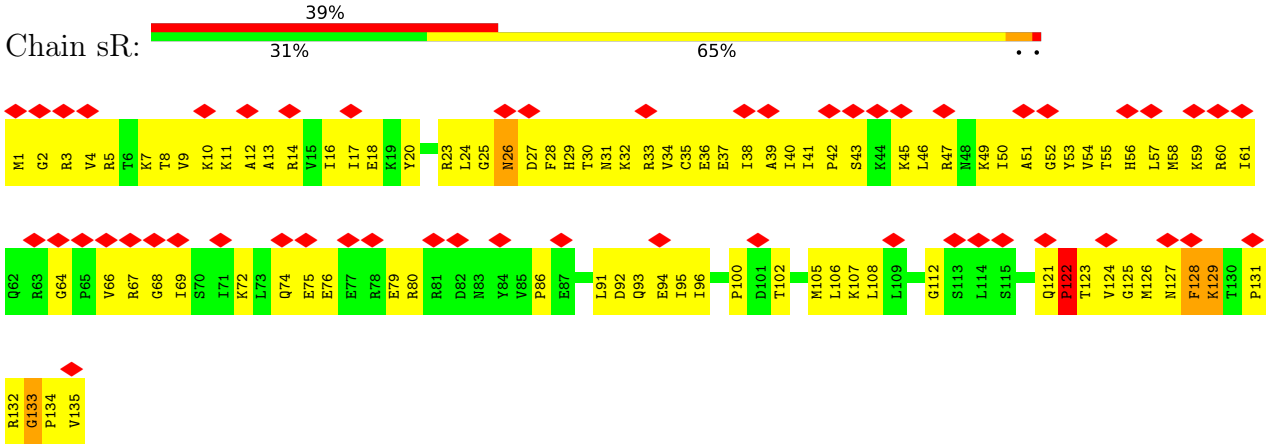
• Molecule 63: 60S ribosomal protein L10a

Chain Lz:



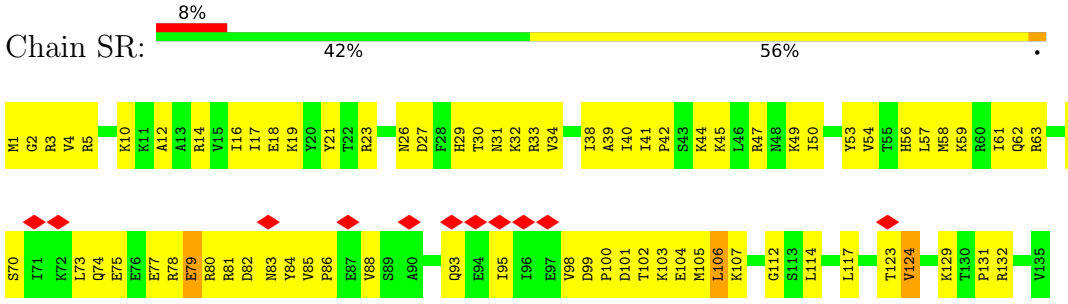
• Molecule 64: 40S ribosomal protein S17

Chain sR:



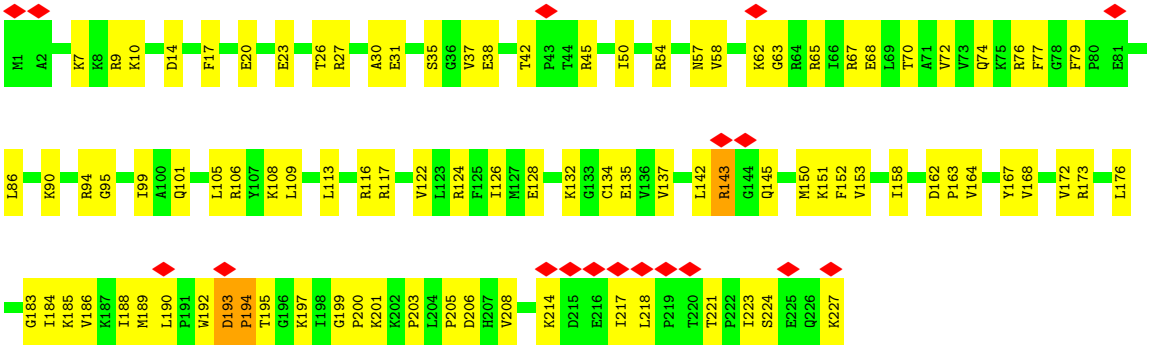
• Molecule 64: 40S ribosomal protein S17

Chain SR:



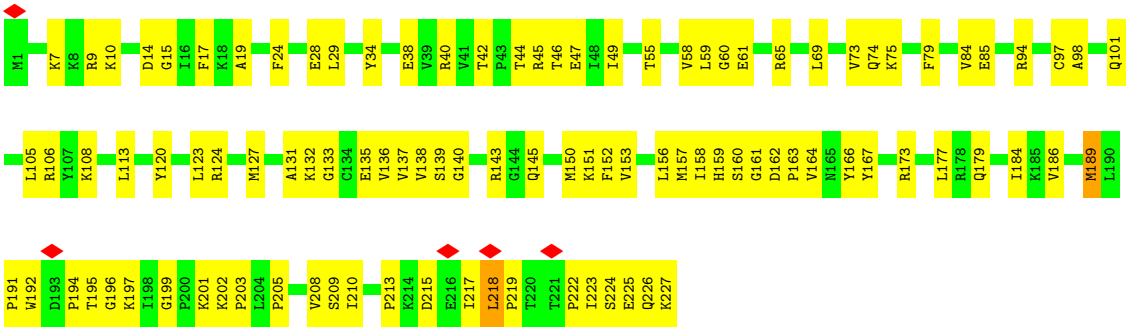
• Molecule 65: Small ribosomal subunit protein uS3

Chain sD:



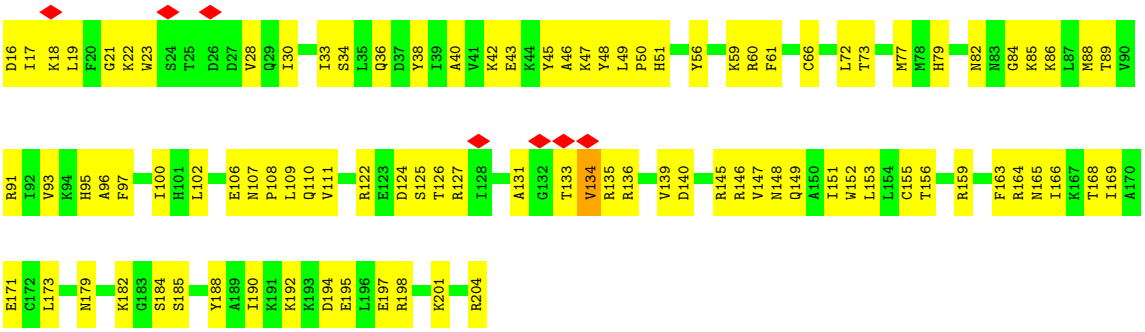
• Molecule 65: Small ribosomal subunit protein uS3

Chain SD:



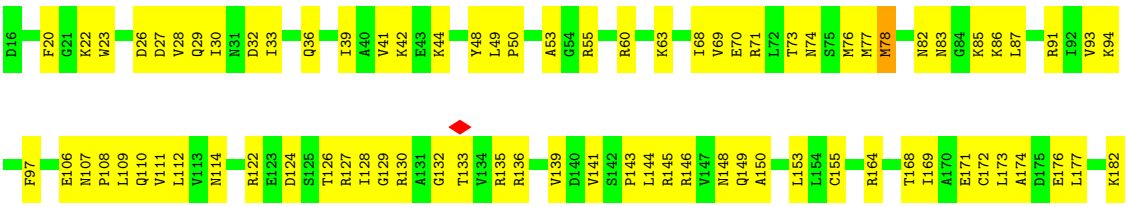
• Molecule 66: 40S ribosomal protein S5

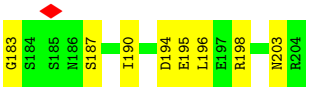
Chain sF:



• Molecule 66: 40S ribosomal protein S5

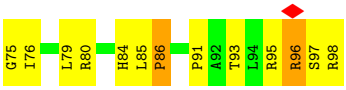
Chain SF:





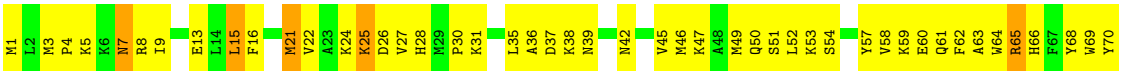
• Molecule 67: 40S ribosomal protein S10

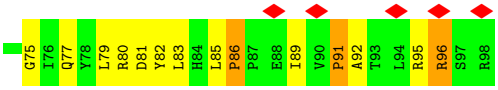
Chain sK:



• Molecule 67: 40S ribosomal protein S10

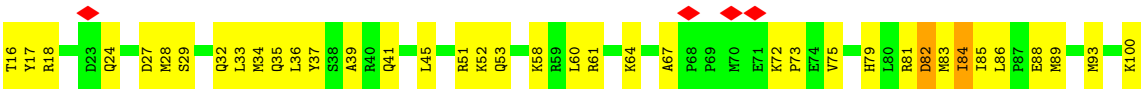
Chain SK:





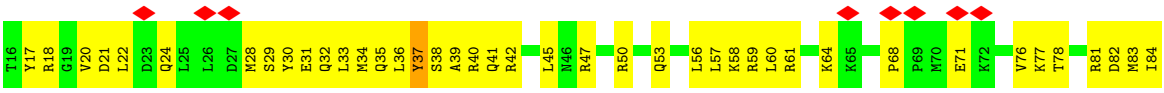
• Molecule 68: Small ribosomal subunit protein uS19

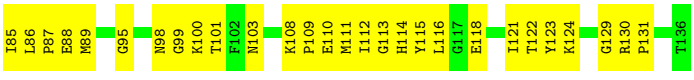
Chain sP:



• Molecule 68: Small ribosomal subunit protein uS19

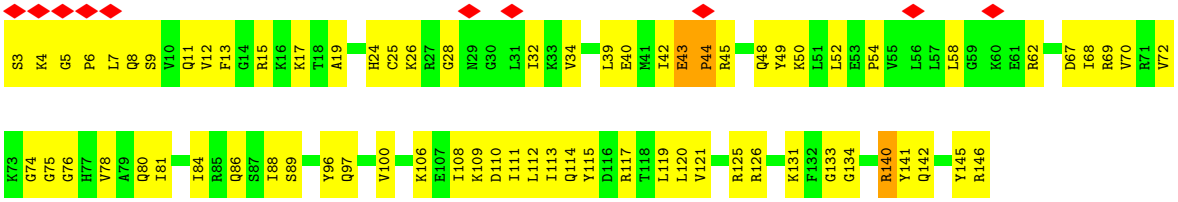
Chain SP:





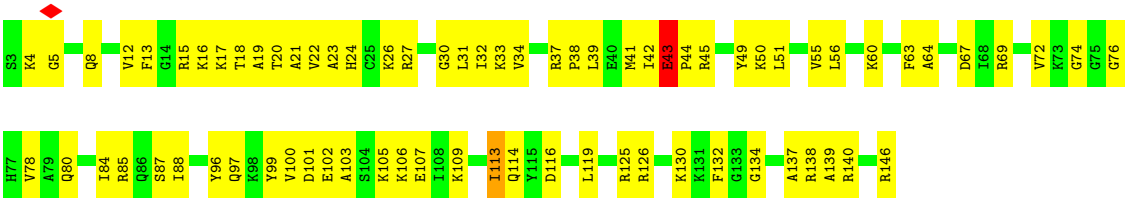
• Molecule 69: Small ribosomal subunit protein uS9

Chain sQ:



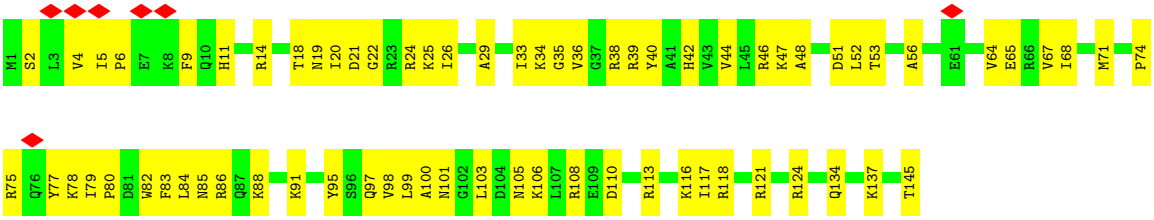
• Molecule 69: Small ribosomal subunit protein uS9

Chain SQ:



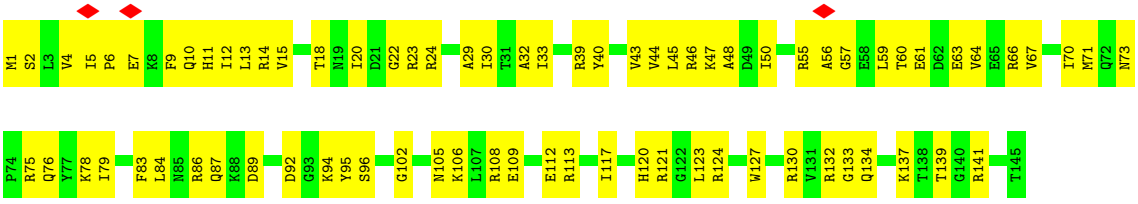
• Molecule 70: 40S ribosomal protein S18

Chain sS:



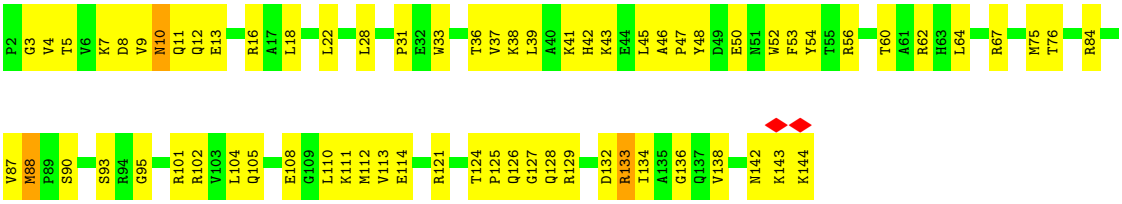
• Molecule 70: 40S ribosomal protein S18

Chain SS:



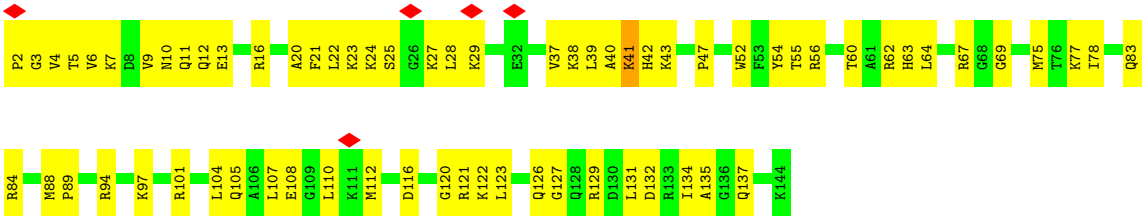
• Molecule 71: 40S ribosomal protein S19

Chain sT:



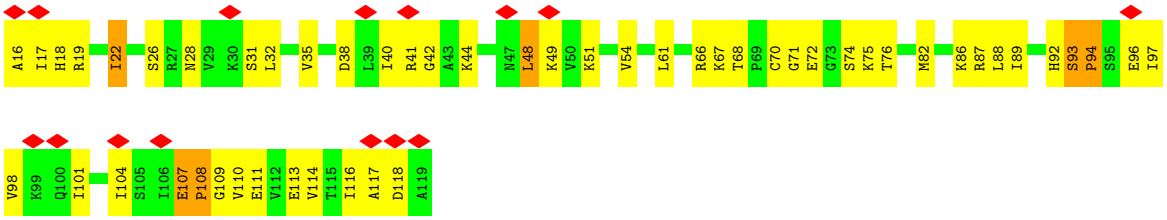
• Molecule 71: 40S ribosomal protein S19

Chain ST:



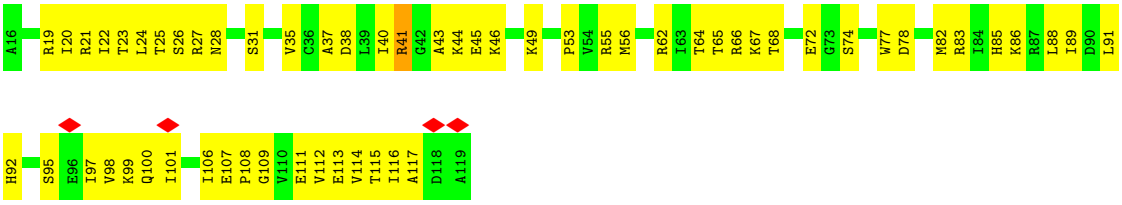
• Molecule 72: 40S ribosomal protein S20

Chain sU:



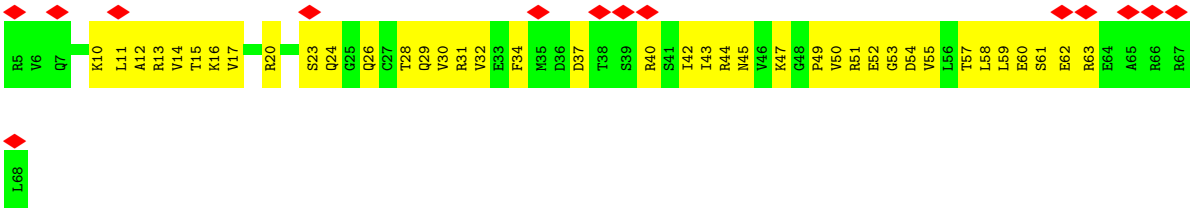
• Molecule 72: 40S ribosomal protein S20

Chain SU:



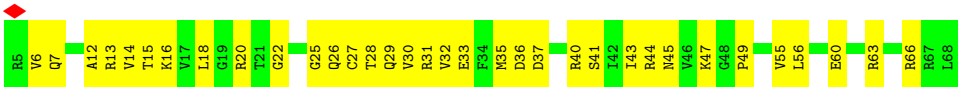
• Molecule 73: 40S ribosomal protein S28

Chain sc:



• Molecule 73: 40S ribosomal protein S28

Chain Sc:

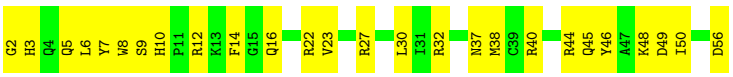


• Molecule 74: 40S ribosomal protein S29

Chain sd:

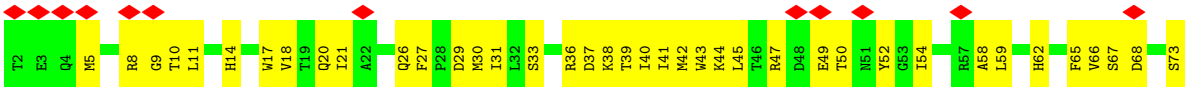
• Molecule 74: 40S ribosomal protein S29

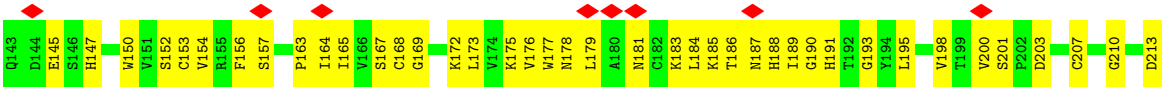
Chain Sd:

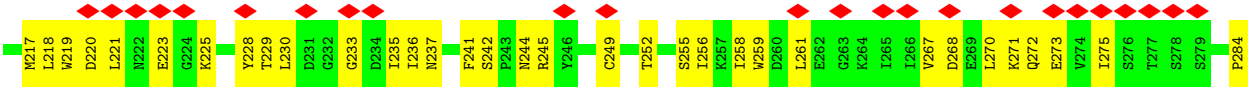


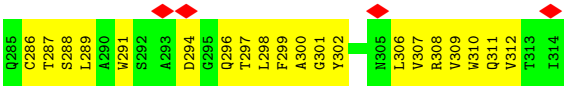
• Molecule 75: Receptor of activated protein C kinase 1

Chain sg:



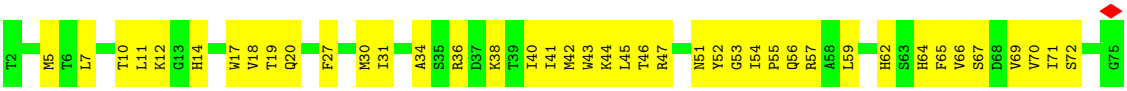


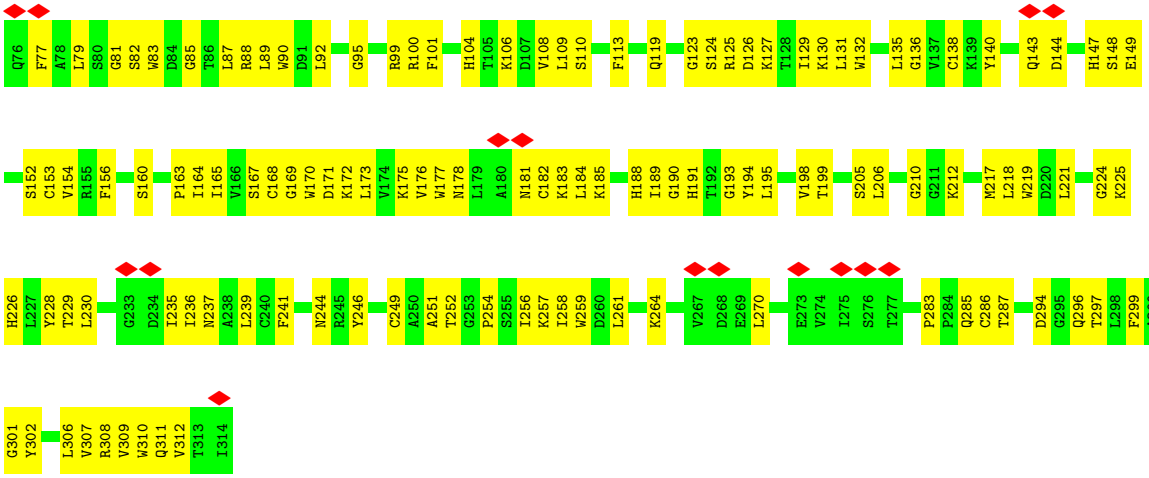




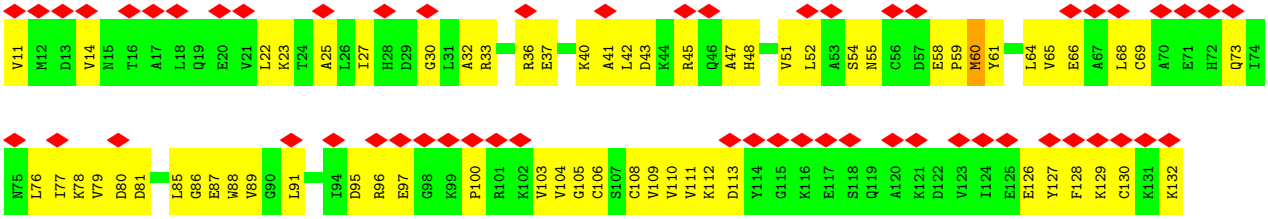
• Molecule 75: Receptor of activated protein C kinase 1

Chain Sg:

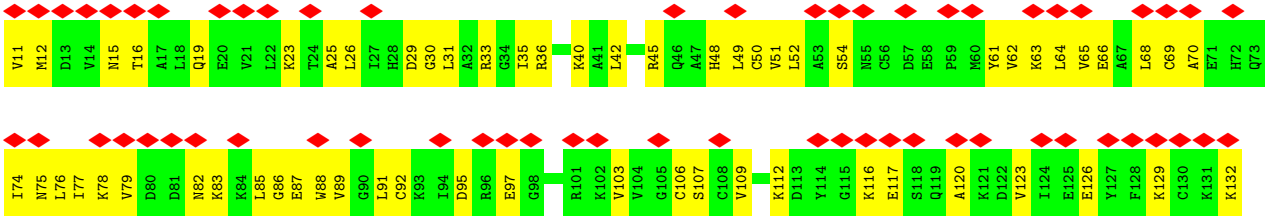




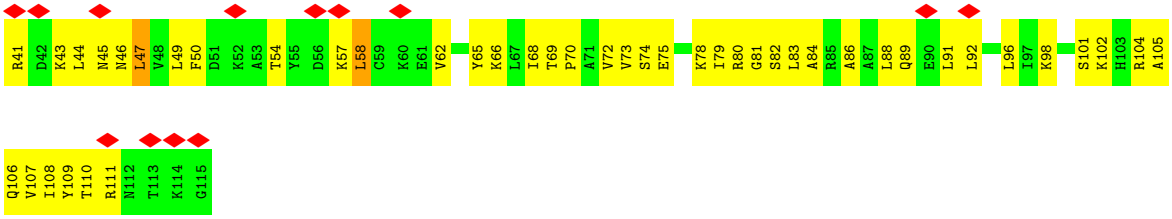
• Molecule 76: Small ribosomal subunit protein eS12



• Molecule 76: Small ribosomal subunit protein eS12

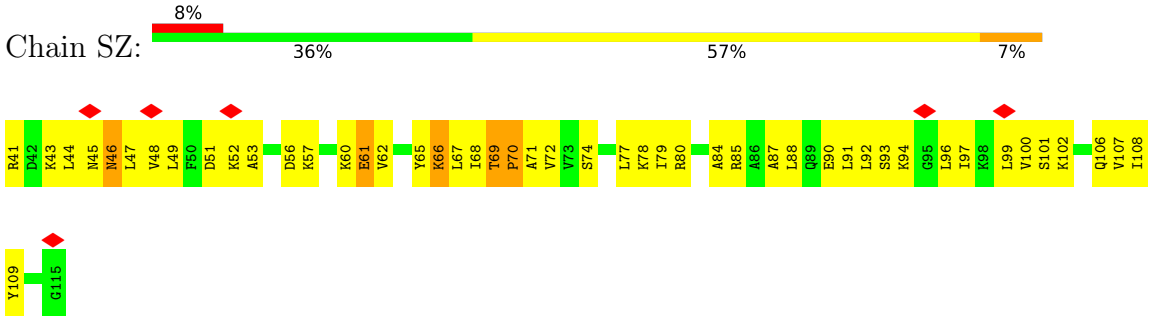


• Molecule 77: Small ribosomal subunit protein eS25



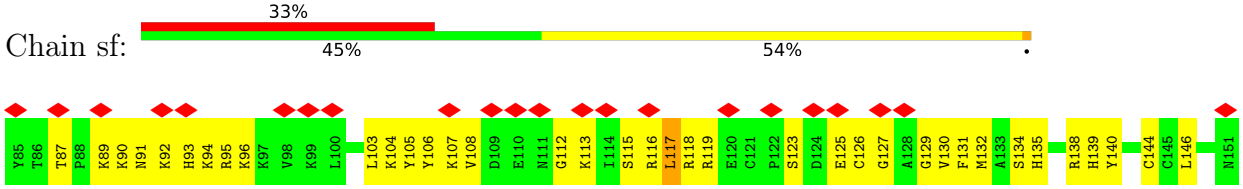
• Molecule 77: Small ribosomal subunit protein eS25

Chain SZ:



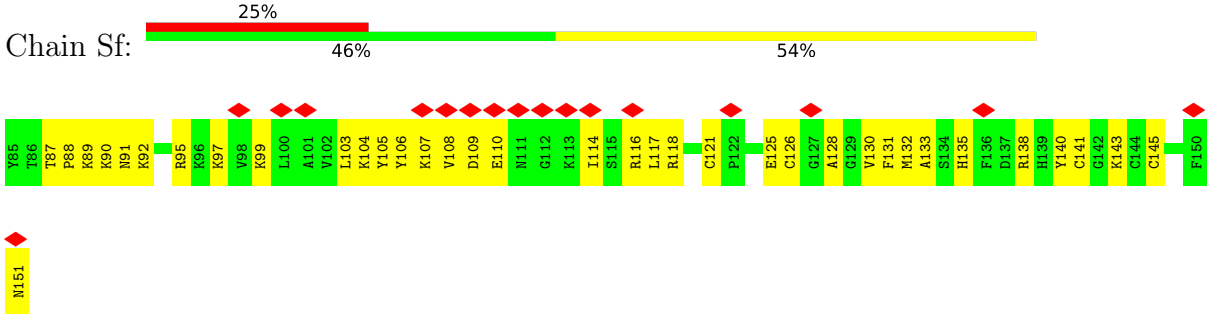
• Molecule 78: Ubiquitin-40S ribosomal protein S27a

Chain sf:



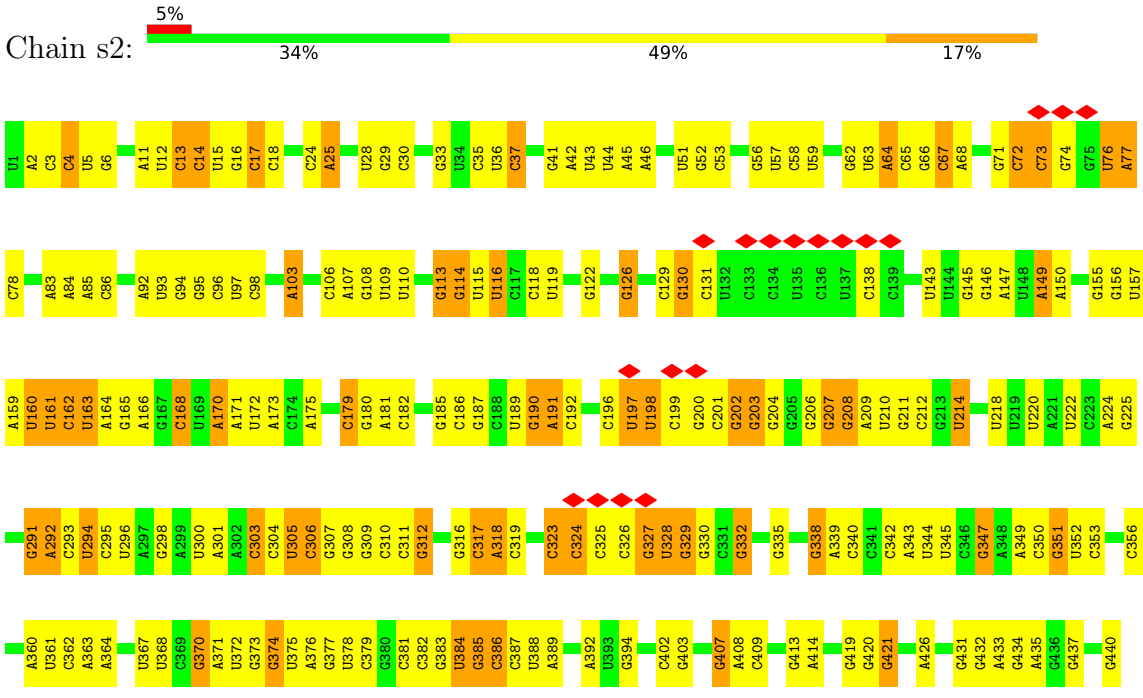
• Molecule 78: Ubiquitin-40S ribosomal protein S27a

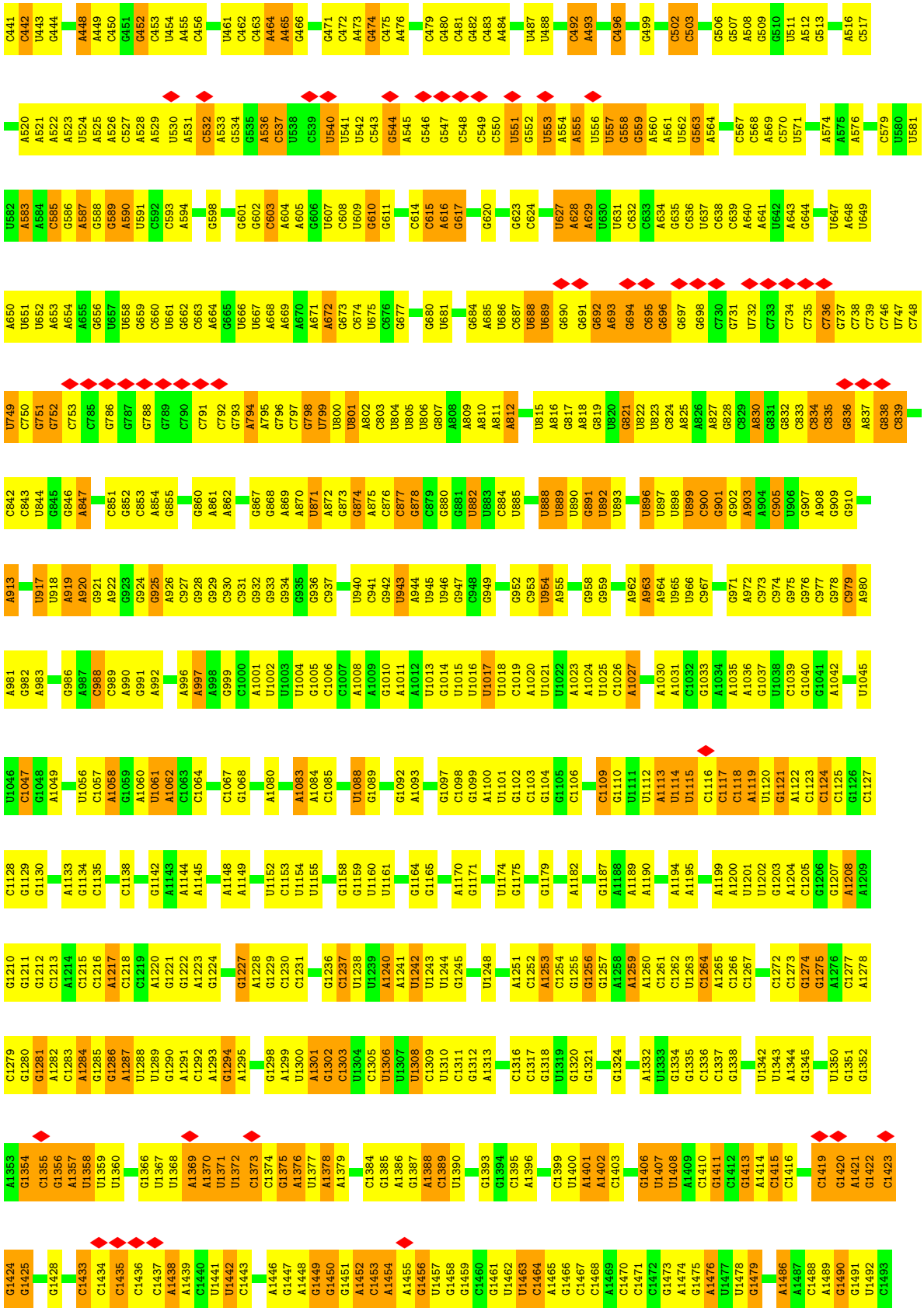
Chain Sf:

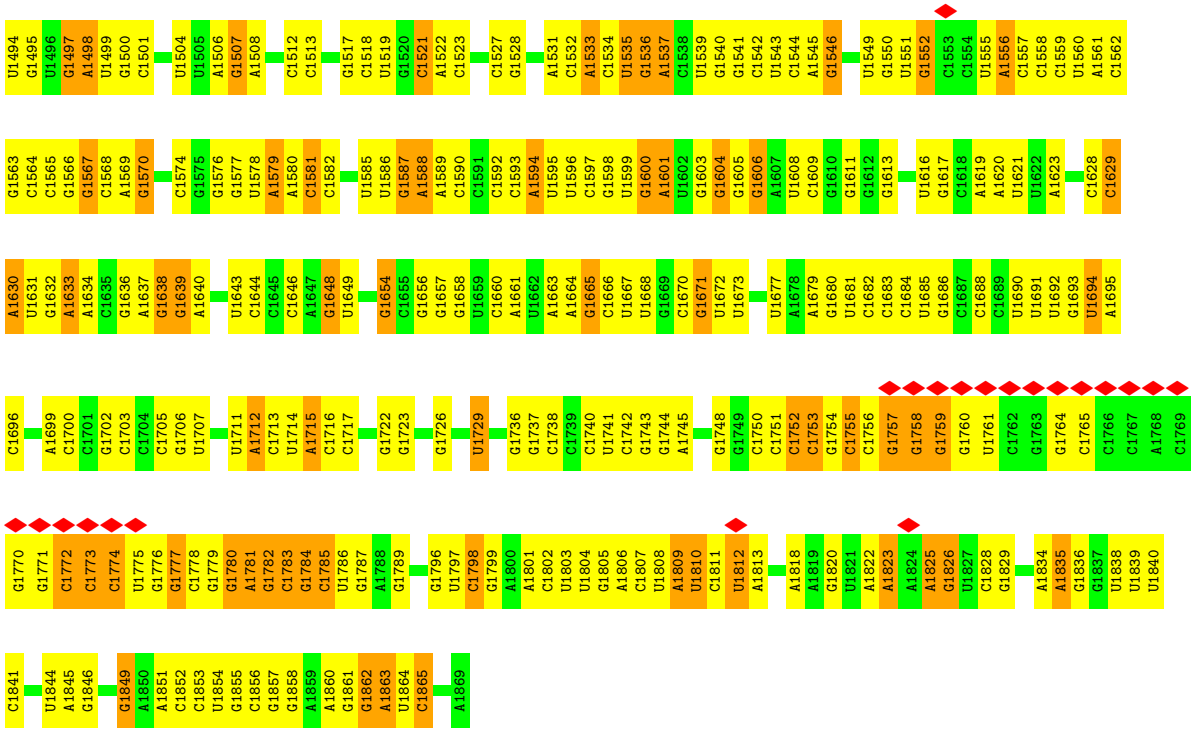


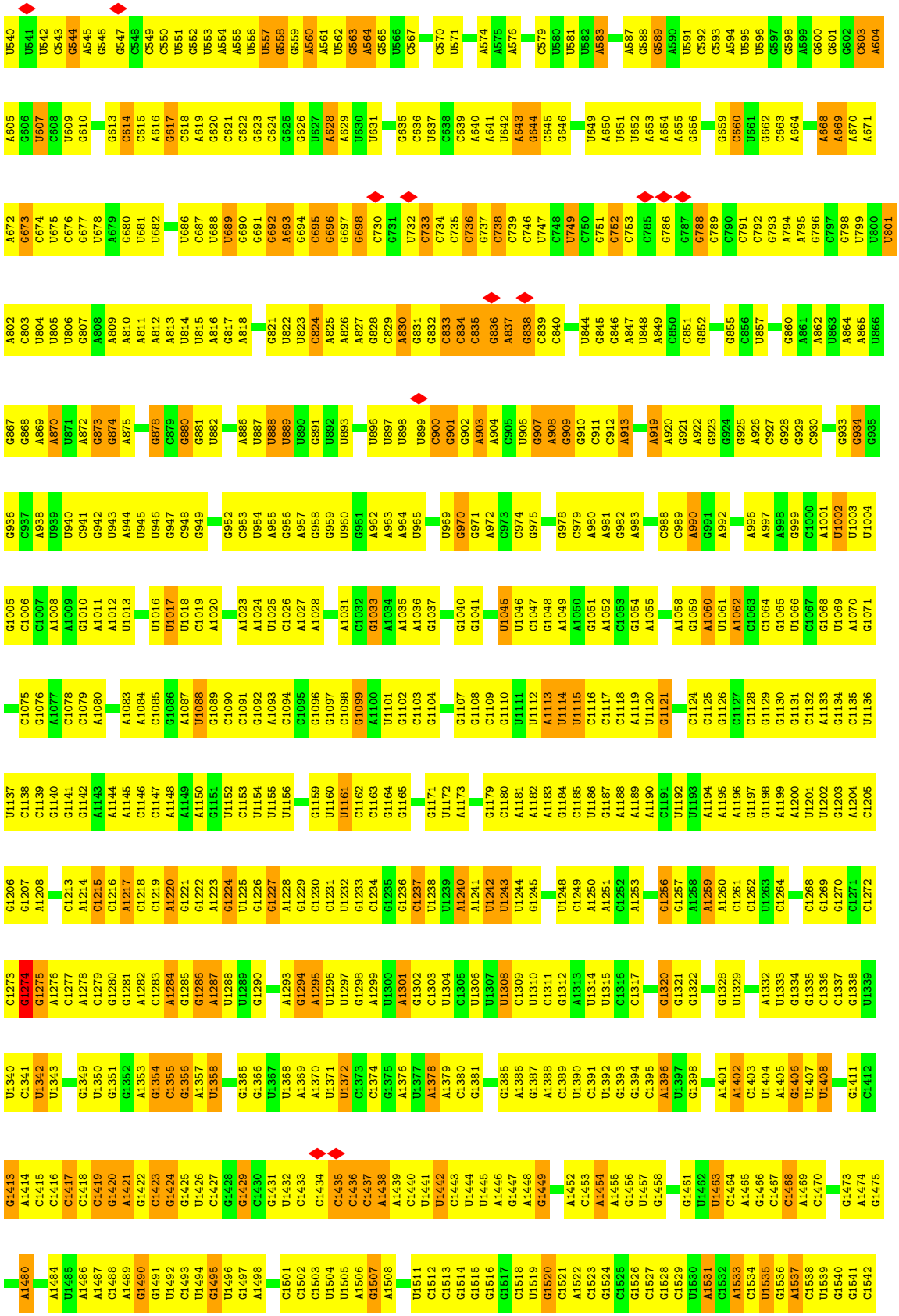
• Molecule 79: 18S rRNA [Homo sapiens]

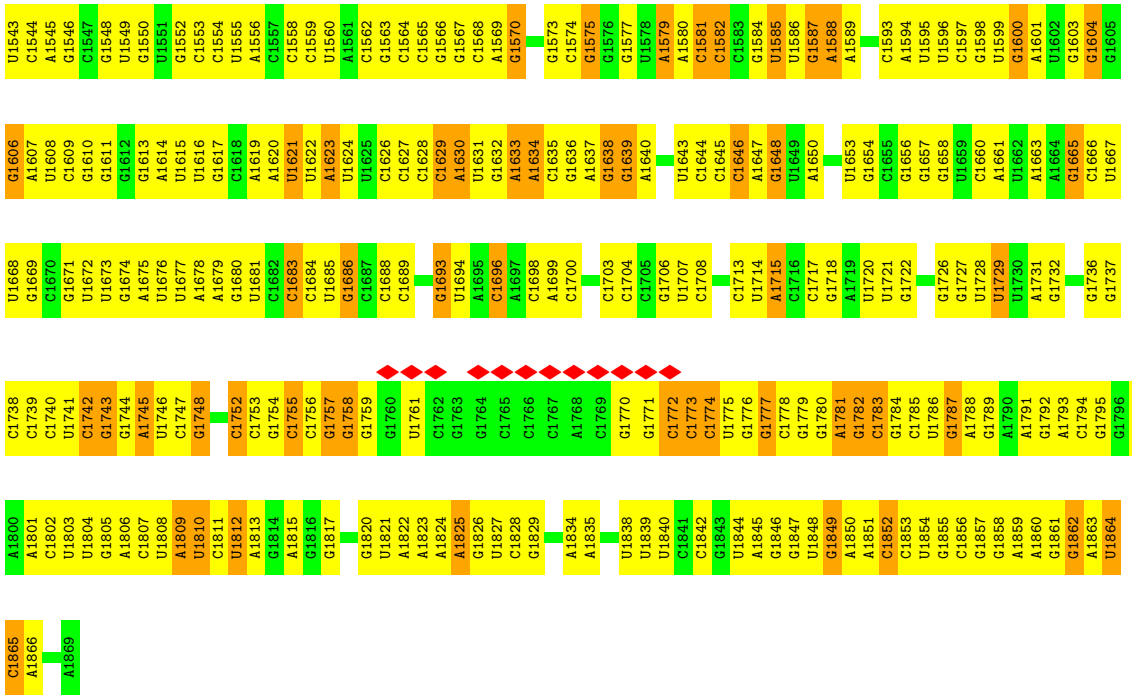
Chain s2:





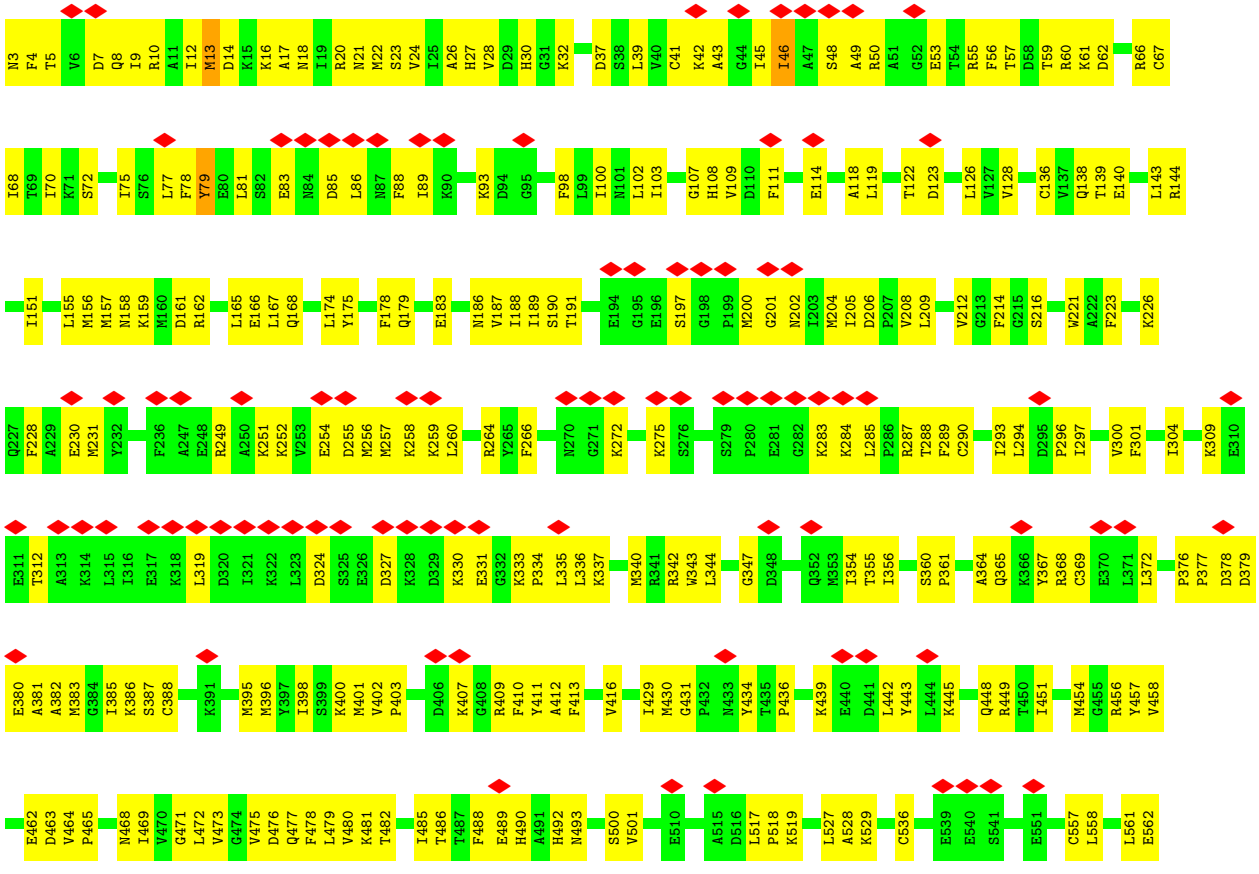


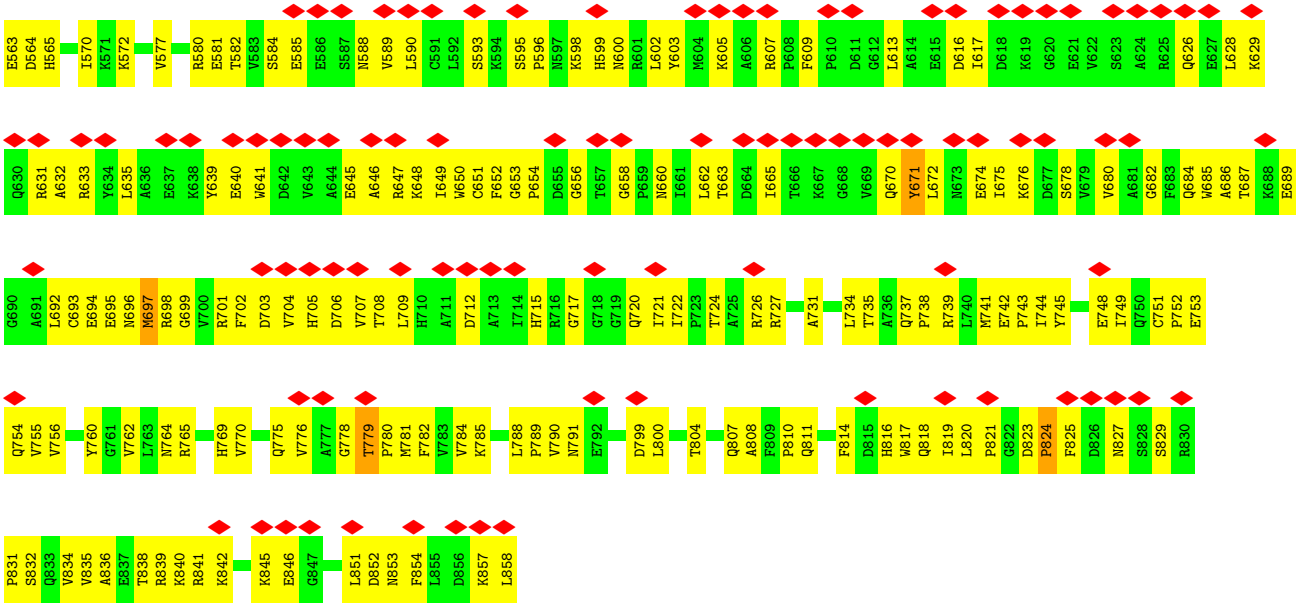




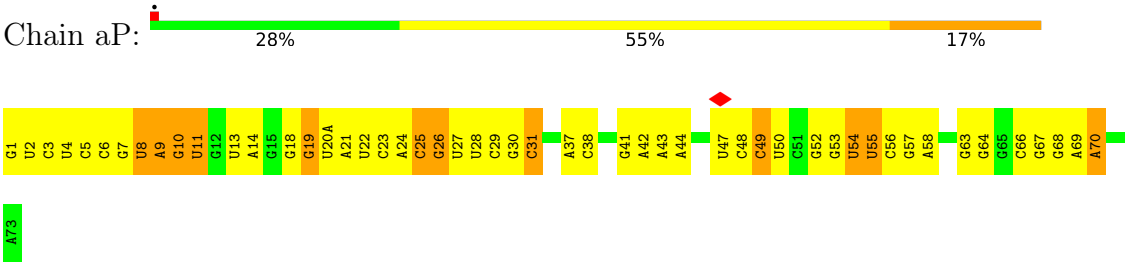
• Molecule 80: Elongation factor 2

Chain cB:

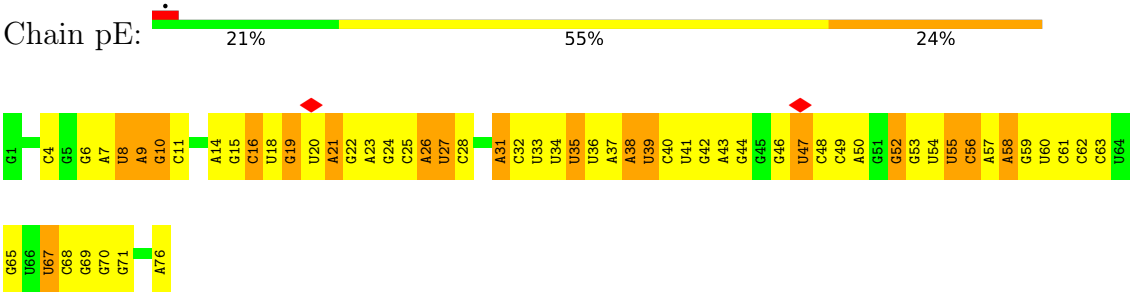




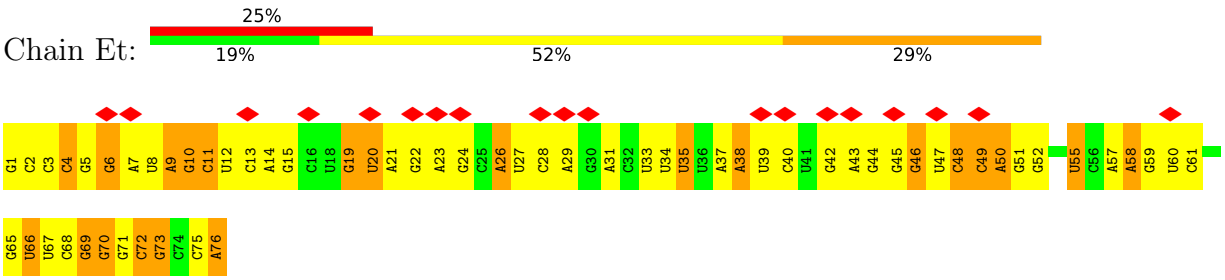
• Molecule 81: A/P site tRNA [Homo sapiens]



• Molecule 82: P/E site tRNA [Homo sapiens]

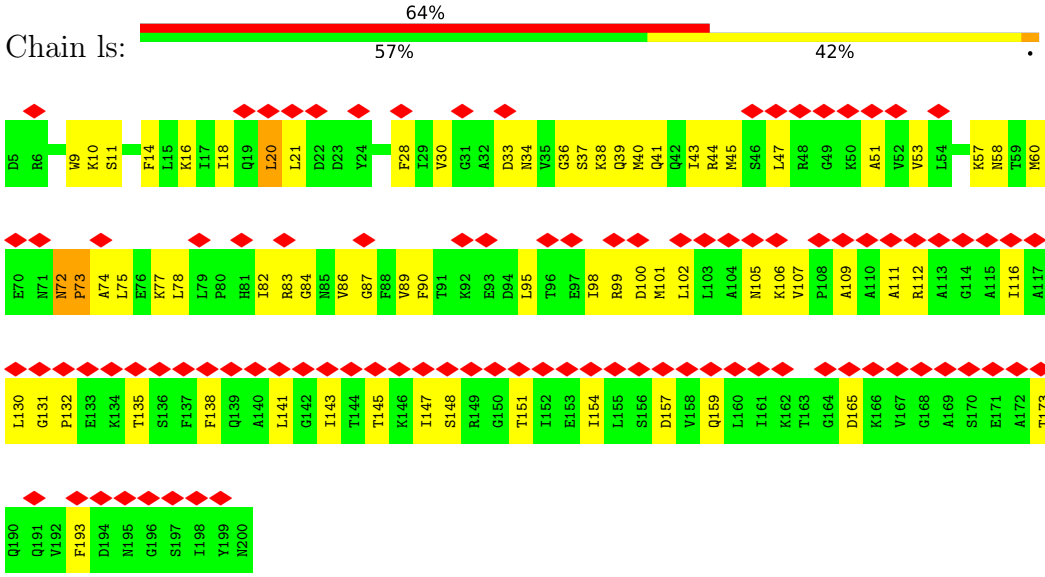


• Molecule 82: P/E site tRNA [Homo sapiens]



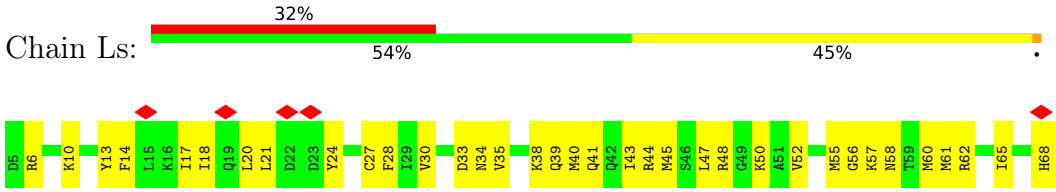
• Molecule 83: 60S acidic ribosomal protein P0

Chain ls:



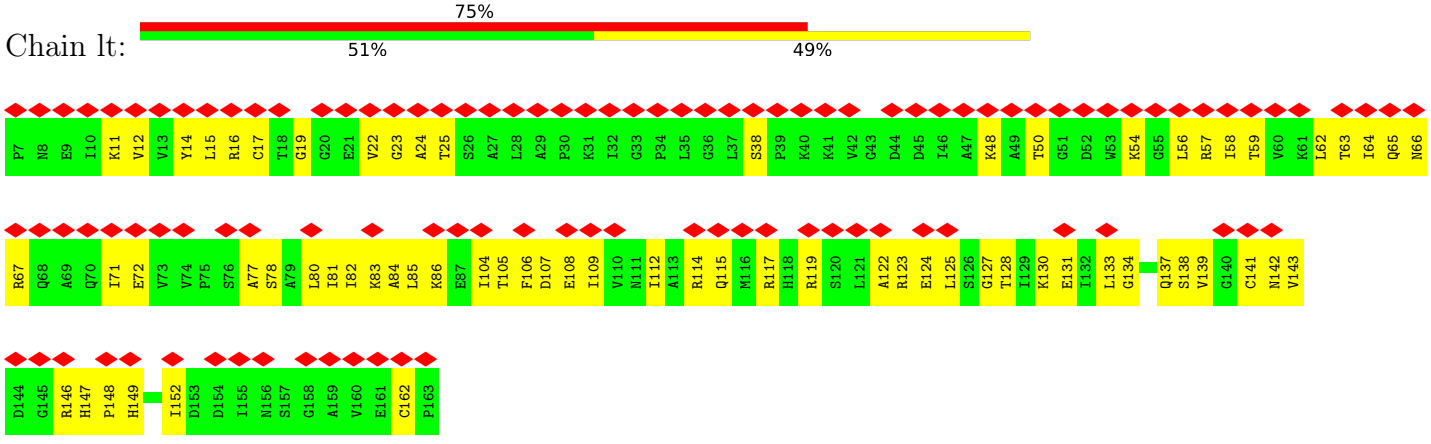
• Molecule 83: 60S acidic ribosomal protein P0

Chain Ls:



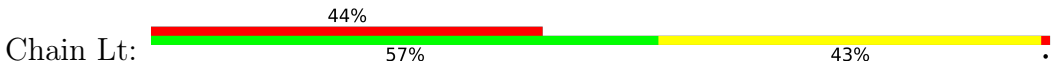
• Molecule 84: 60S ribosomal protein L12 [Homo sapiens]

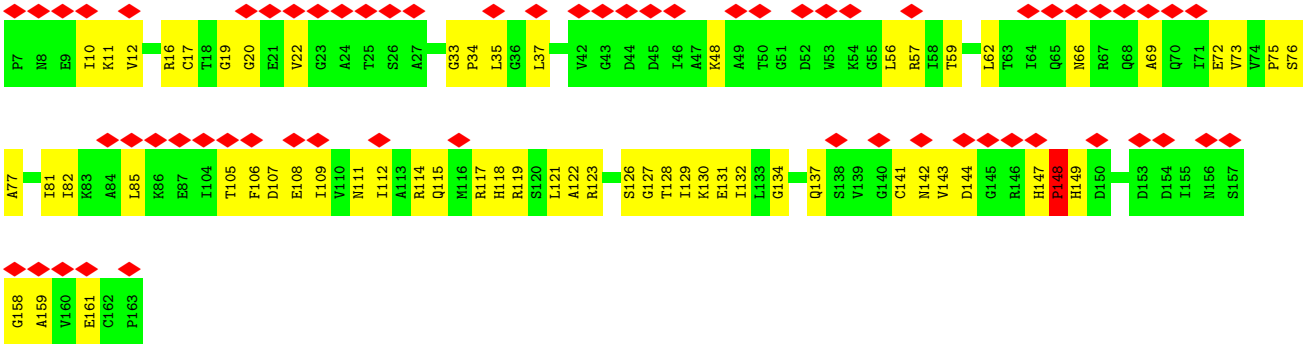
Chain lt:



• Molecule 84: 60S ribosomal protein L12 [Homo sapiens]

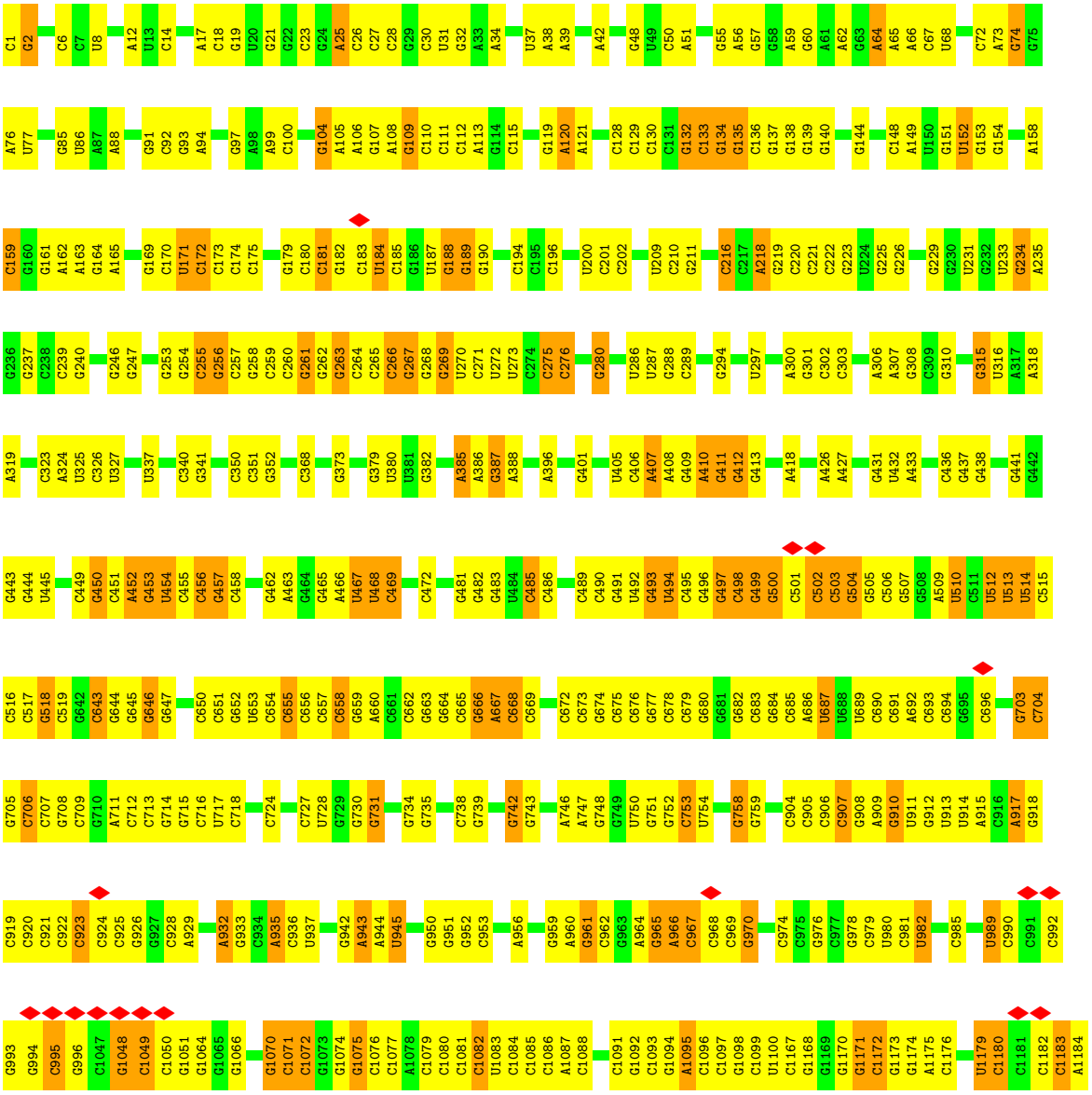
Chain Lt:

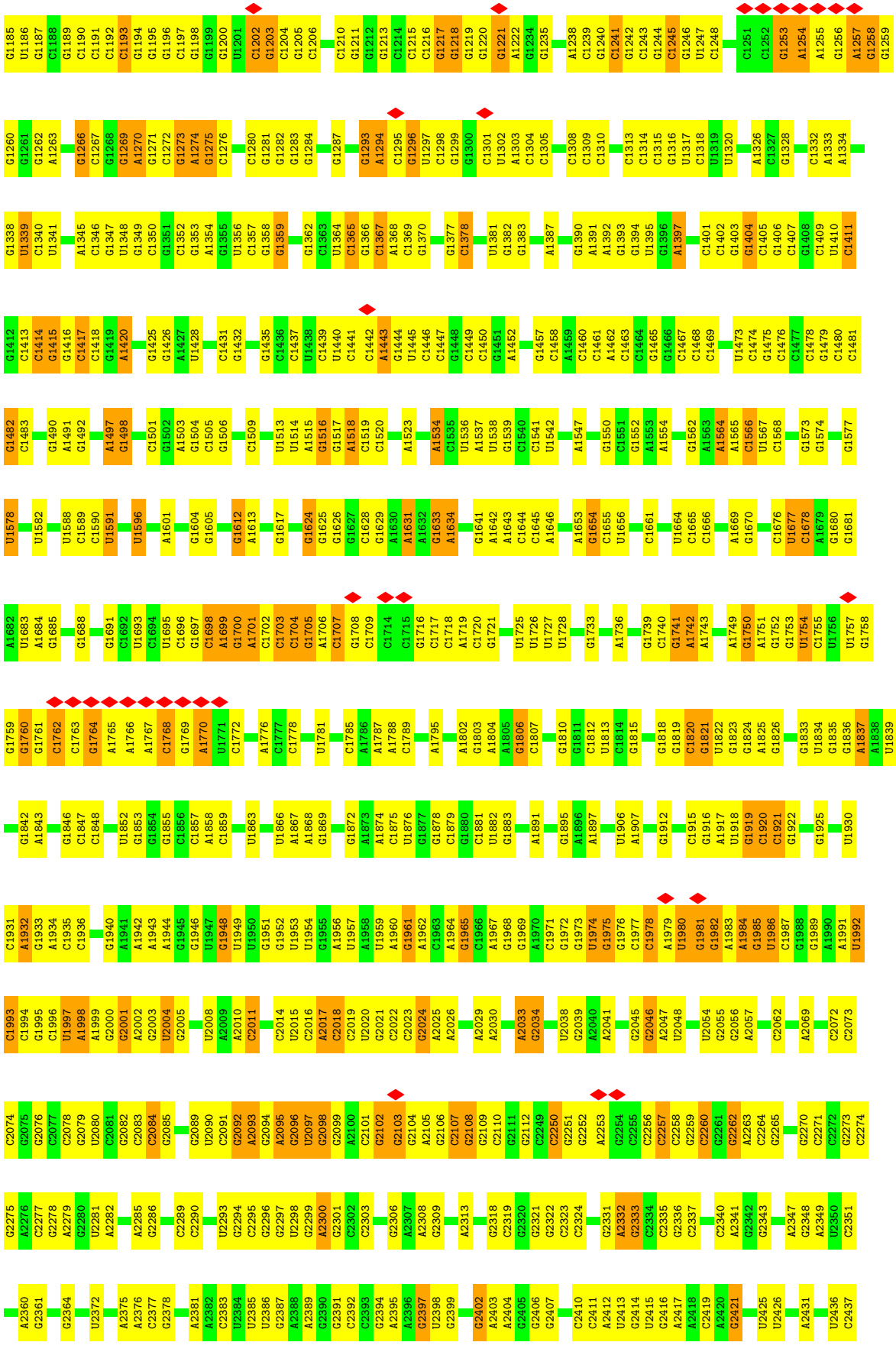


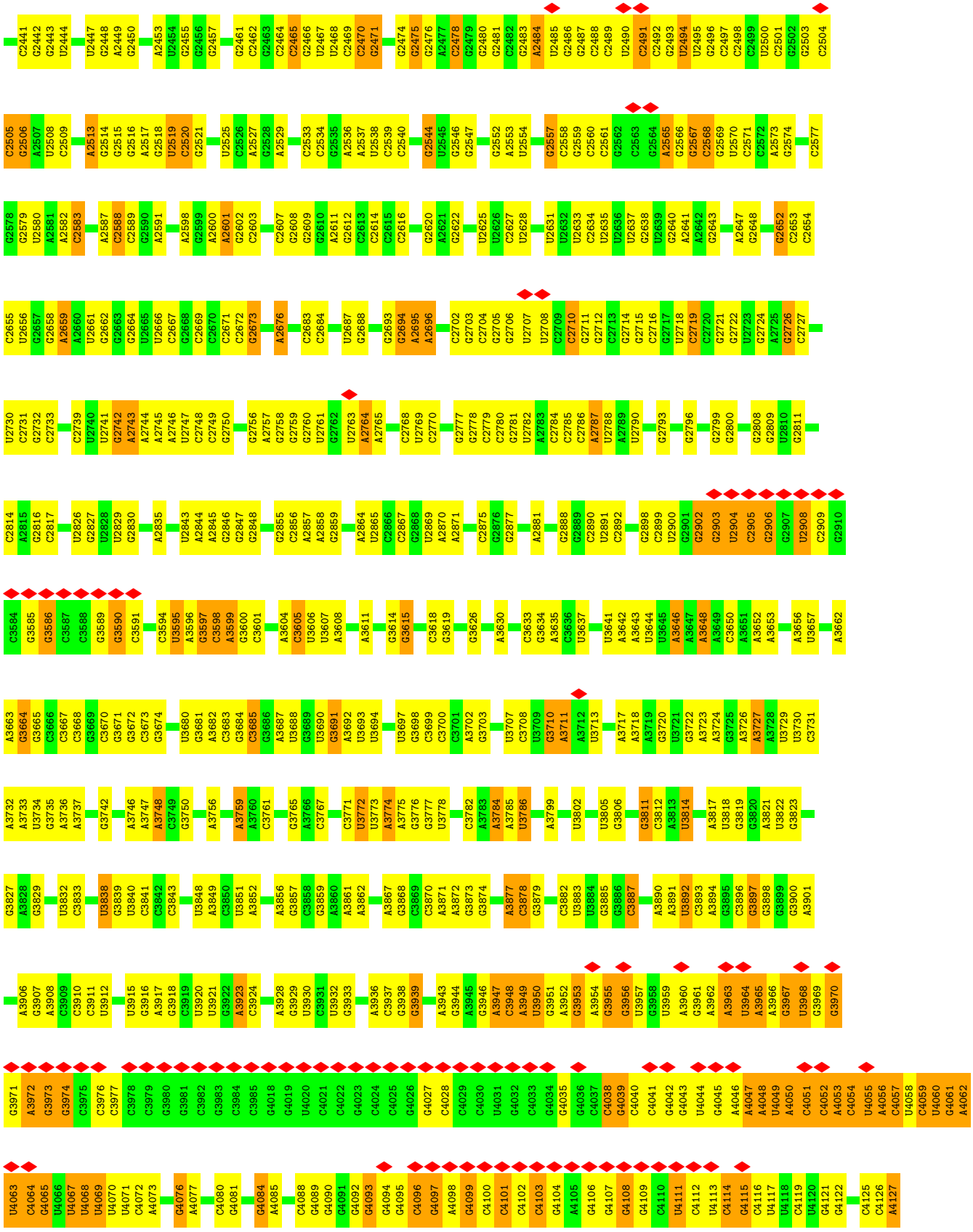


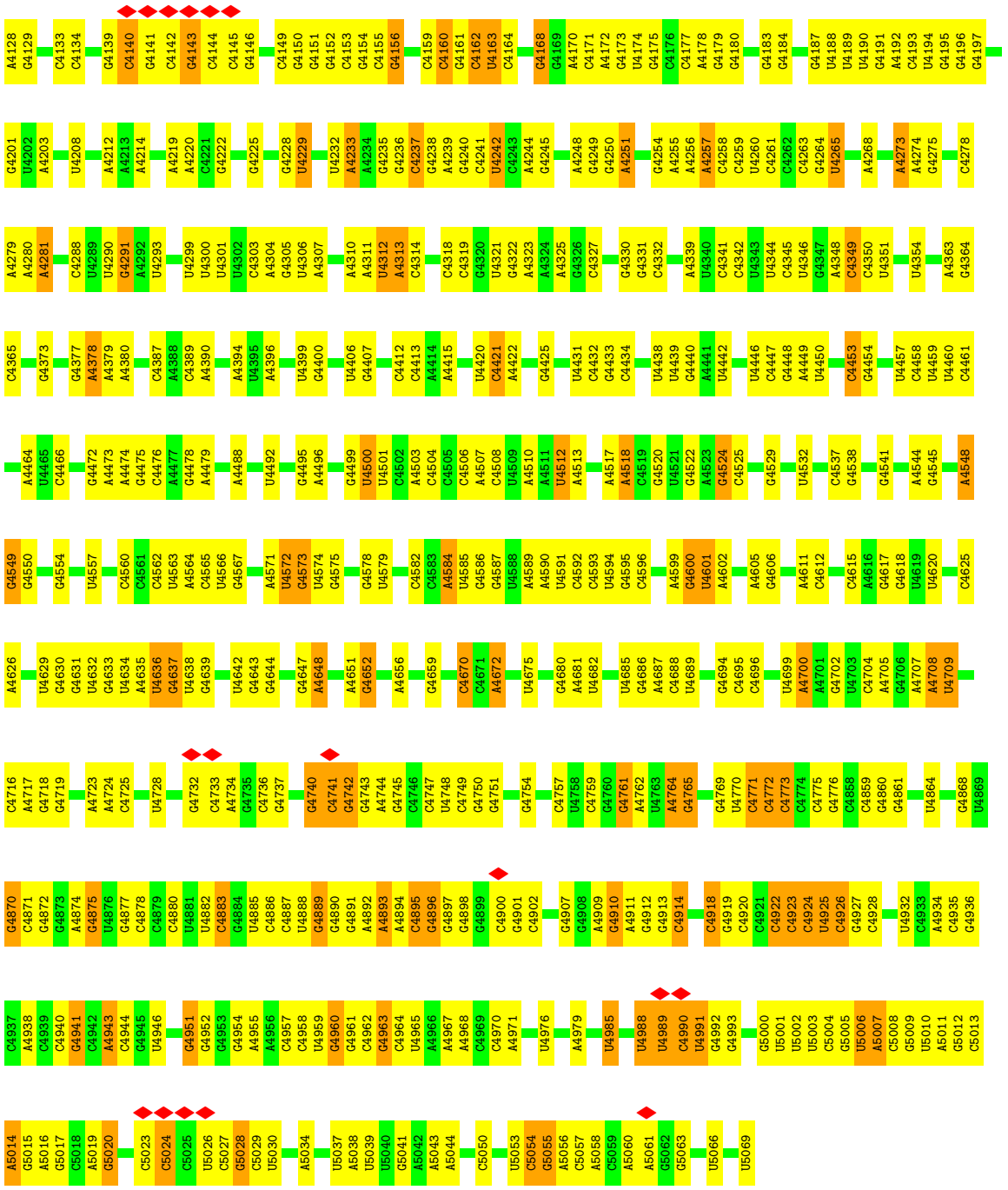
• Molecule 85: 28S rRNA [Homo sapiens]

Chain l5:



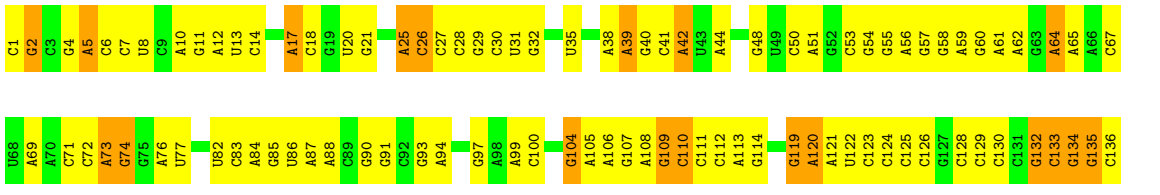


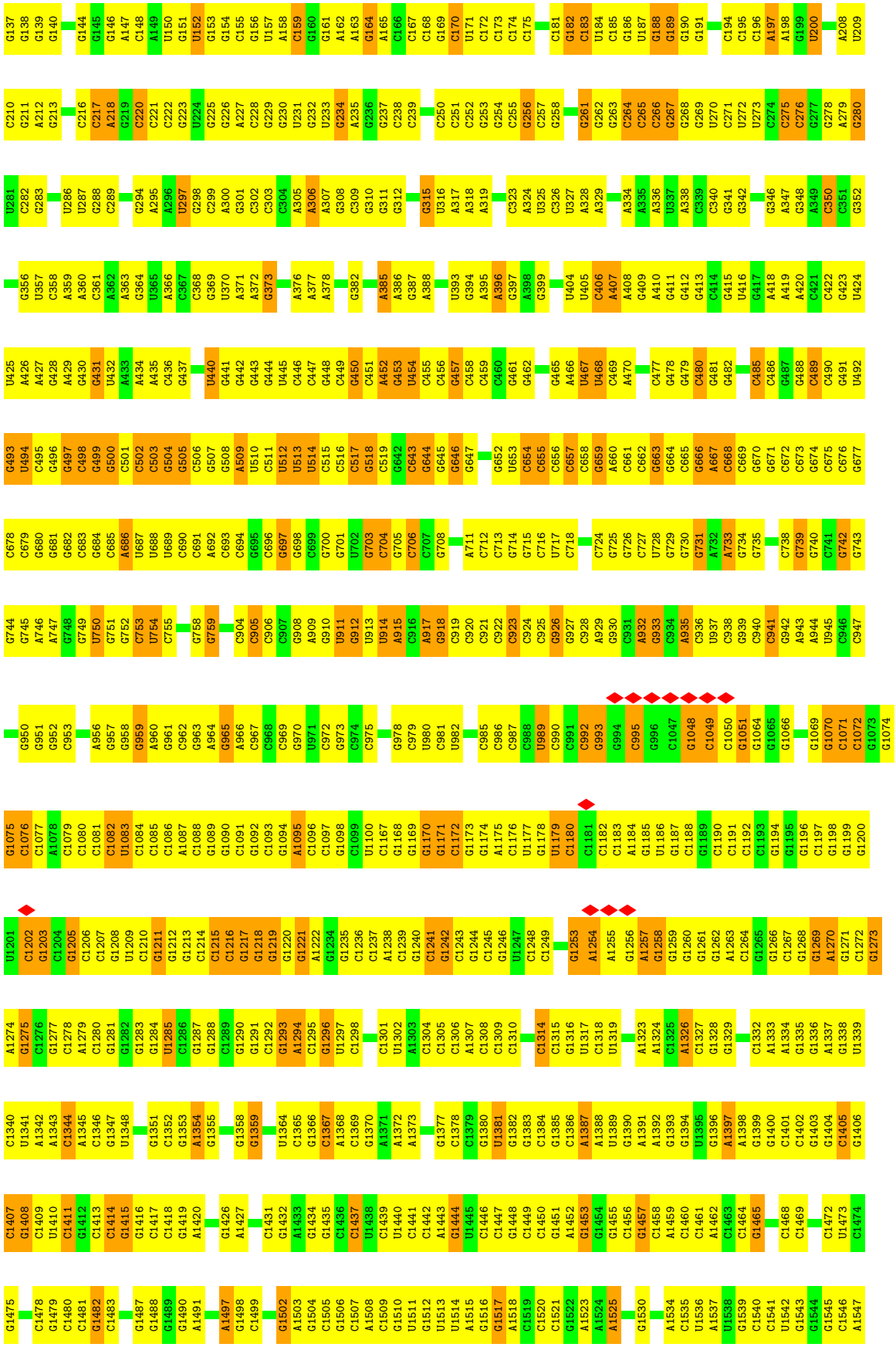


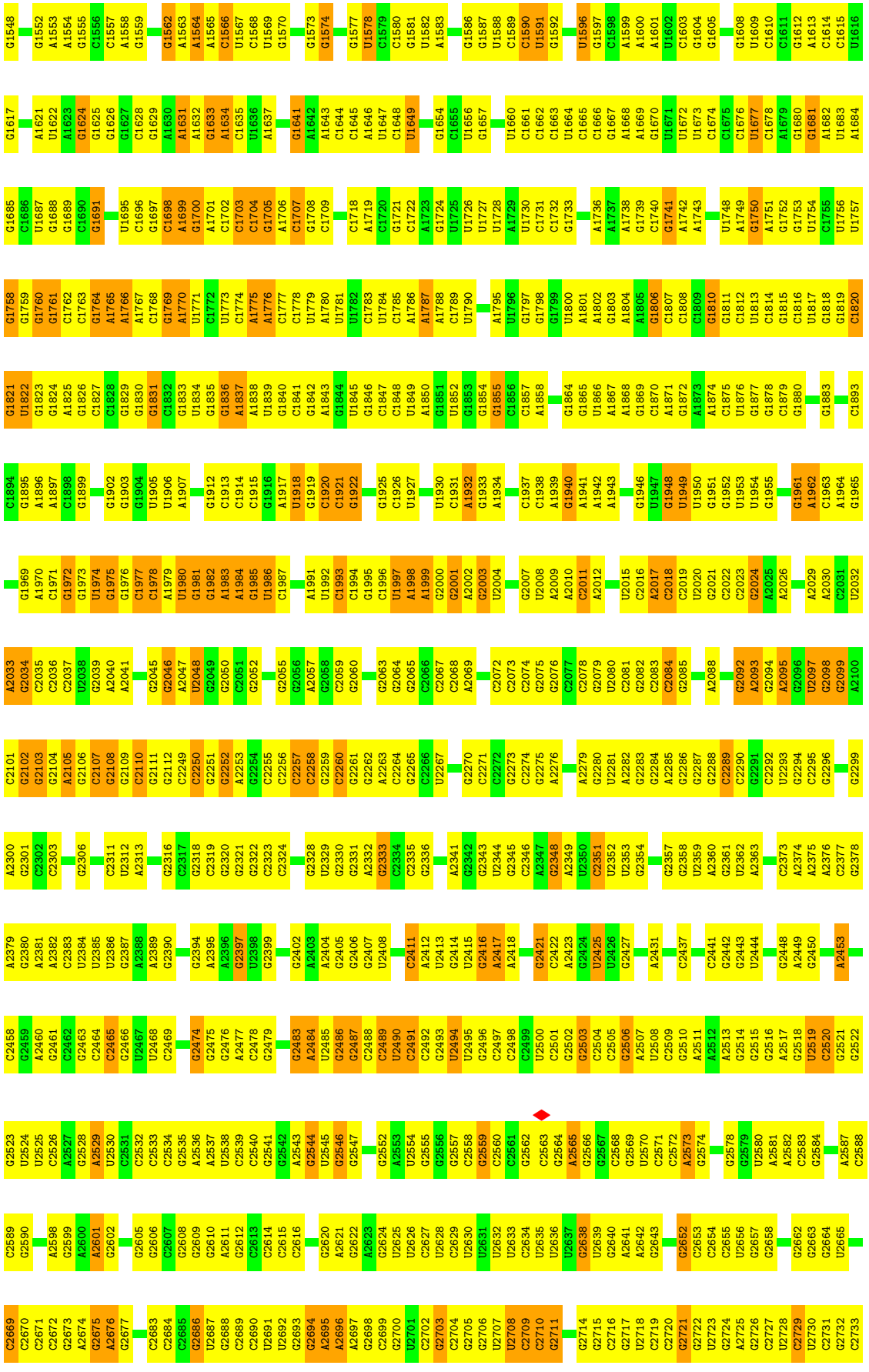


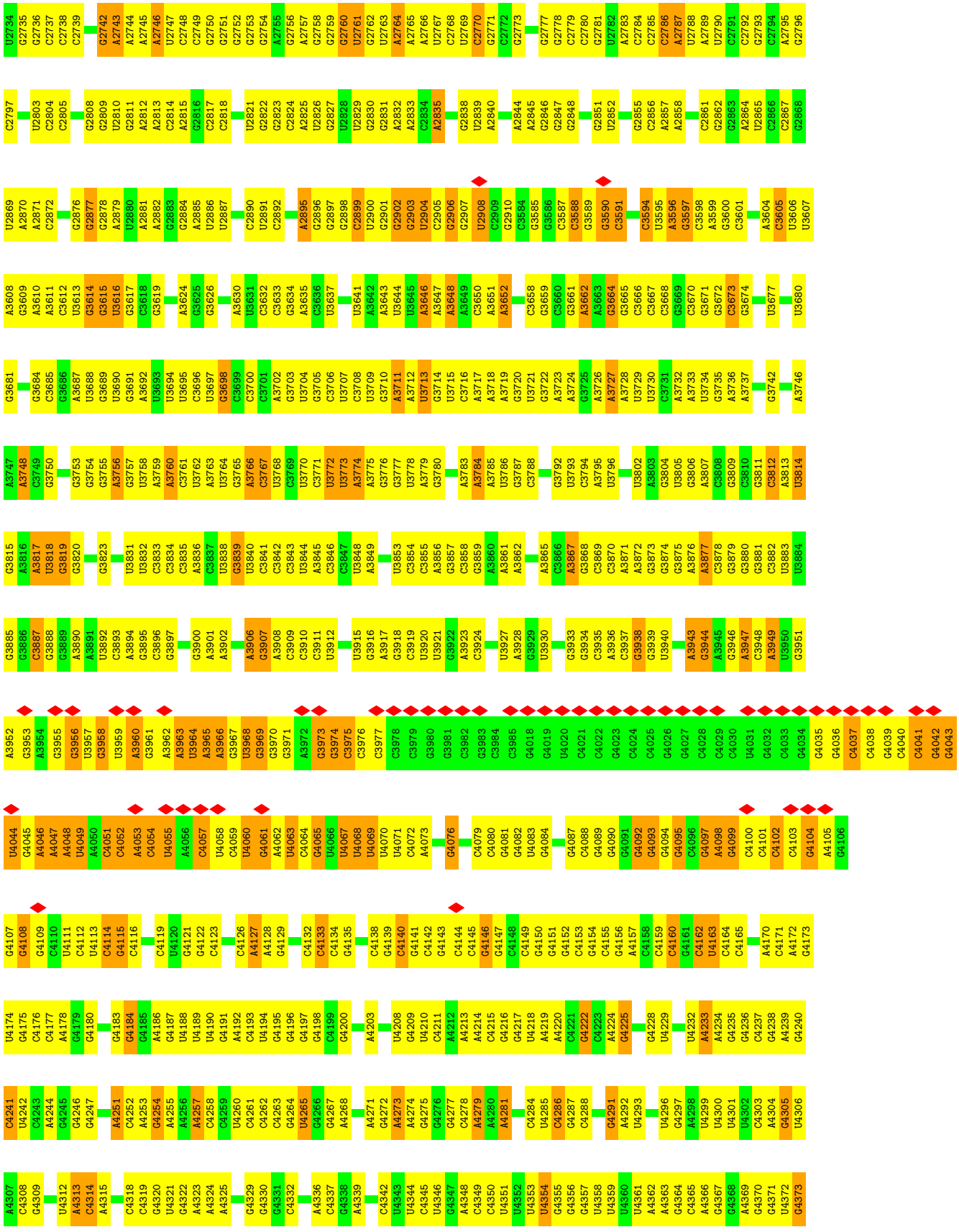
• Molecule 85: 28S rRNA [Homo sapiens]

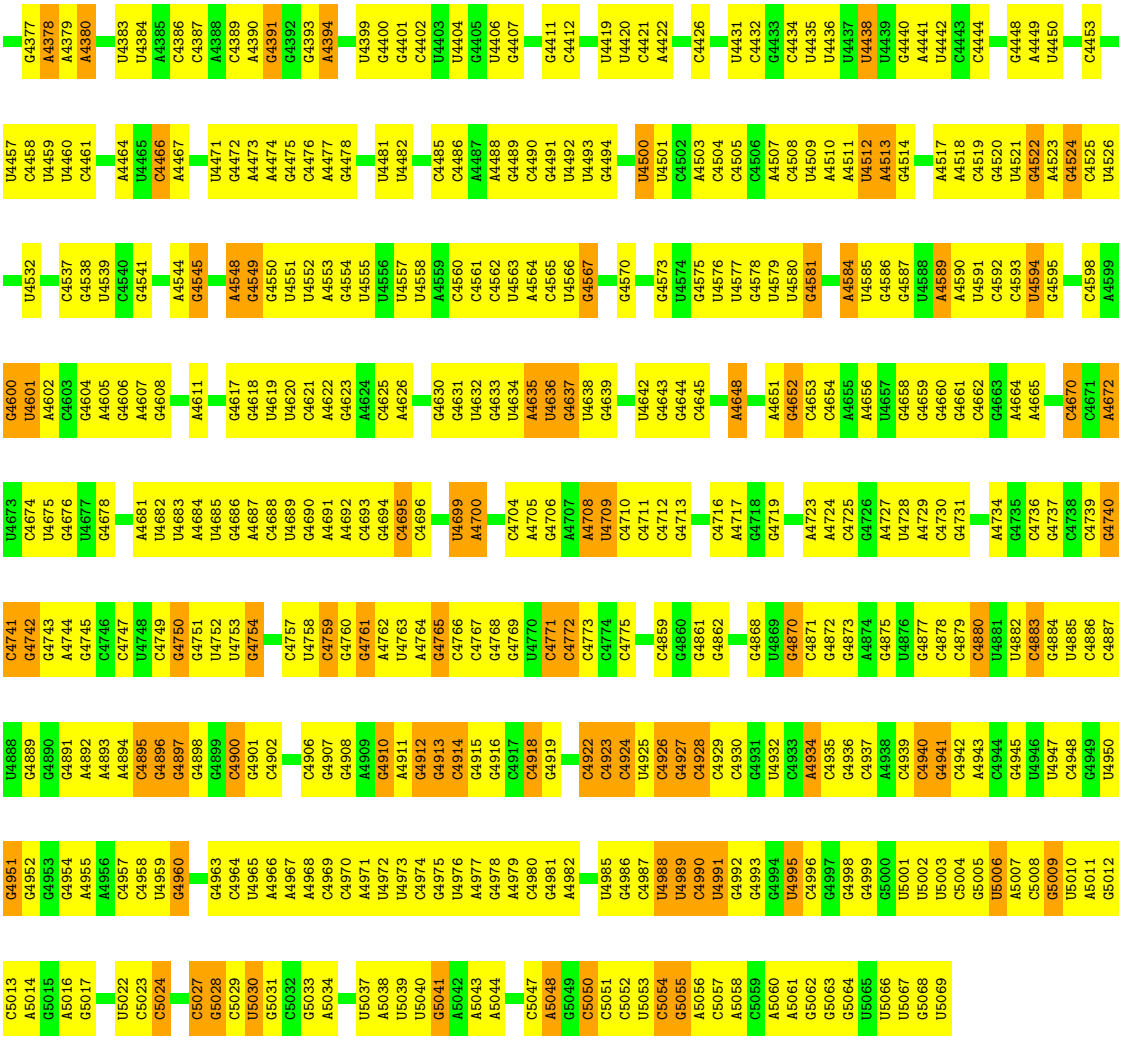
Chain L5:





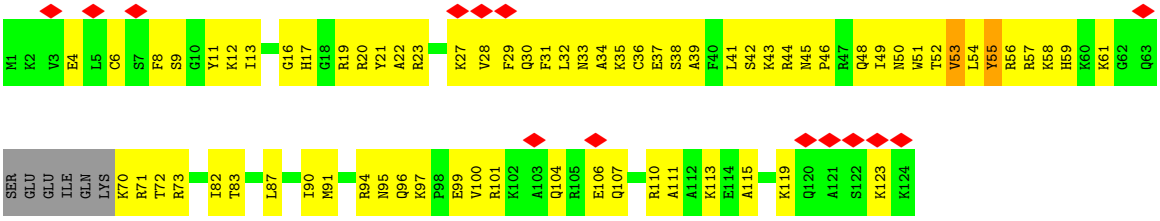






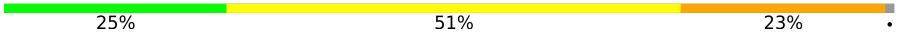
• Molecule 86: Ribosomal protein L24

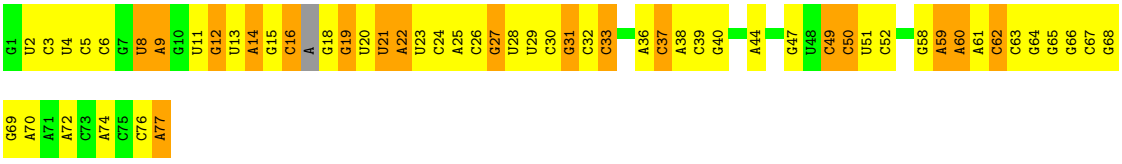
Chain LW:



• Molecule 87: A/T site tRNA [Homo sapiens]

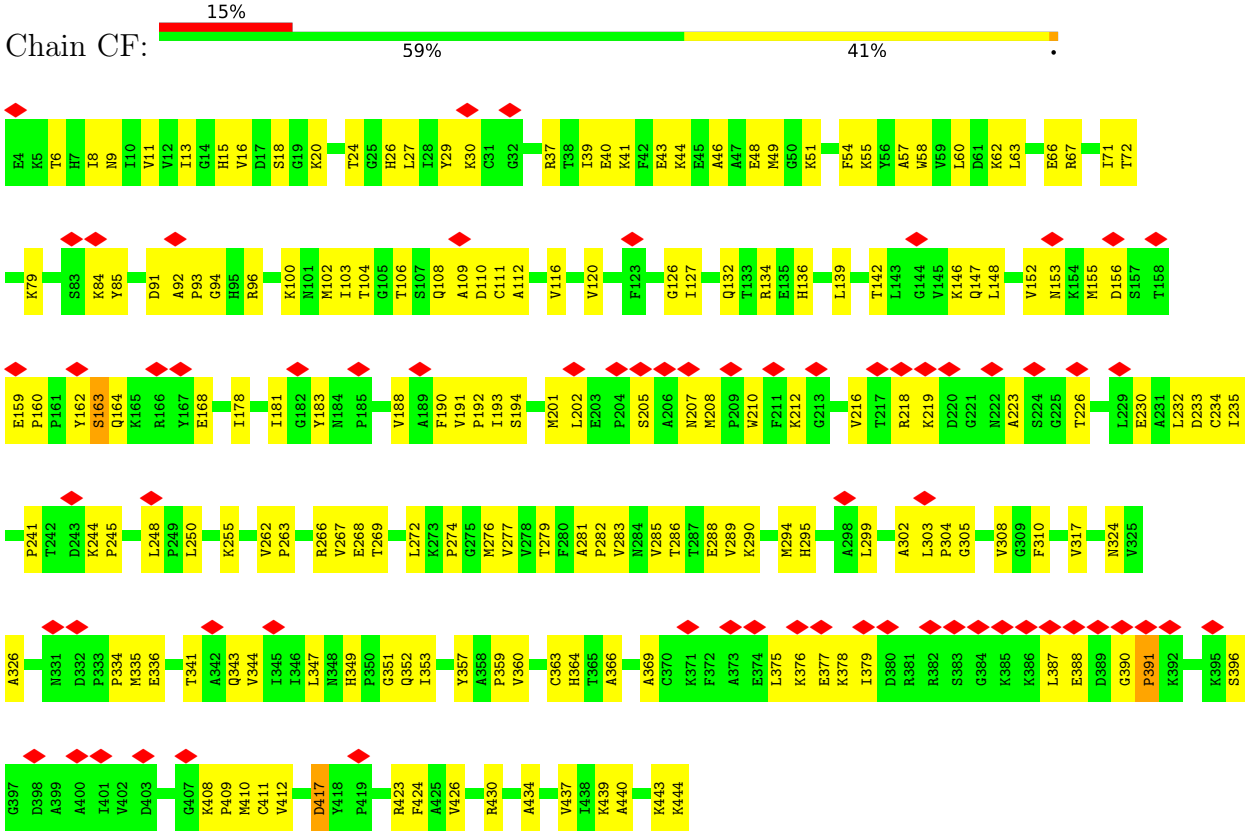
Chain AT:





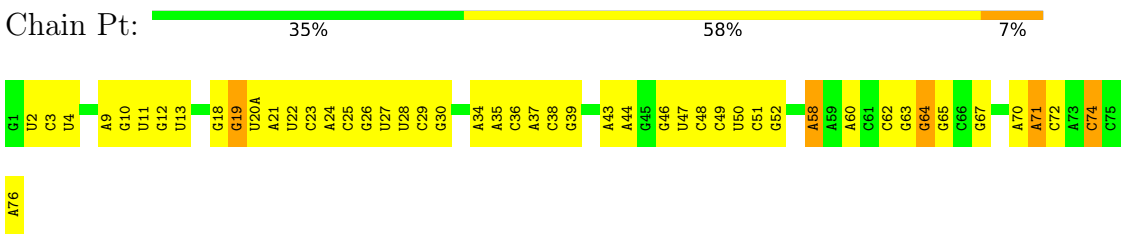
• Molecule 88: Putative elongation factor 1-alpha-like 3

Chain CF:



• Molecule 89: P site tRNA

Chain Pt:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	9137	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.691	Depositor
Minimum map value	-0.099	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.033	Depositor
Recommended contour level	0.099	Depositor
Map size (Å)	640.8, 640.8, 640.8	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.068, 1.068, 1.068	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, SEP, 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	cH	0.21	0/977	0.59	2/1306 (0.2%)
2	SE	0.18	0/2118	0.42	0/2849
2	sE	0.19	0/2118	0.44	0/2849
3	SI	0.16	0/1715	0.39	0/2287
3	sI	0.25	1/1715 (0.1%)	0.44	0/2287
4	SL	0.16	0/1268	0.42	0/1696
4	sL	0.24	0/1268	0.46	0/1696
5	SX	0.15	0/1116	0.36	0/1490
5	sX	0.20	0/1116	0.44	0/1490
6	SG	0.36	4/1946 (0.2%)	0.61	3/2590 (0.1%)
6	sG	0.33	2/1946 (0.1%)	0.43	1/2590 (0.0%)
7	SJ	0.19	0/1550	0.44	1/2069 (0.0%)
7	sJ	0.18	0/1550	0.43	0/2069
8	SY	0.79	4/1083 (0.4%)	0.89	8/1438 (0.6%)
8	sY	0.44	2/1083 (0.2%)	0.54	0/1438
9	Se	0.14	0/465	0.36	0/612
9	se	0.25	0/465	0.56	0/612
10	SA	0.26	1/1778 (0.1%)	0.47	0/2416
10	sA	0.27	0/1778	0.50	0/2416
11	SB	0.29	1/1765 (0.1%)	0.50	2/2362 (0.1%)
11	sB	0.28	0/1765	0.49	0/2362
12	SH	0.33	2/1519 (0.1%)	0.51	1/2033 (0.0%)
12	sH	0.21	0/1519	0.53	0/2033
13	SV	0.33	0/643	0.66	1/860 (0.1%)
13	sV	0.26	0/643	0.51	0/860
14	Sa	0.46	1/836 (0.1%)	0.55	2/1121 (0.2%)
14	sa	0.27	0/836	0.49	0/1121
15	SC	0.20	0/1762	0.41	0/2381
15	sC	0.34	1/1762 (0.1%)	0.51	0/2381
16	SN	0.31	2/1232 (0.2%)	0.38	0/1656
16	sN	0.24	0/1232	0.40	1/1656 (0.1%)
17	SO	0.23	0/1062	0.54	2/1425 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	sO	0.26	0/1062	0.59	2/1425 (0.1%)
18	SW	0.45	3/1051 (0.3%)	0.48	0/1406
18	sW	0.26	0/1051	0.50	0/1406
19	Sb	0.41	1/665 (0.2%)	0.48	0/891
19	sb	0.41	1/665 (0.2%)	0.86	4/891 (0.4%)
20	L7	0.18	0/2861	0.27	0/4459
20	l7	0.20	0/2861	0.26	0/4459
21	L8	0.19	0/3701	0.28	0/5766
21	l8	0.21	0/3701	0.27	0/5766
22	LA	0.26	0/1936	0.43	0/2596
22	lA	0.26	0/1936	0.48	0/2596
23	LB	0.20	0/3306	0.41	0/4424
23	lB	0.24	0/3306	0.42	0/4424
24	LC	0.20	0/2981	0.40	2/4002 (0.0%)
24	lC	0.24	0/2981	0.43	2/4002 (0.0%)
25	LD	0.31	0/2428	0.48	1/3252 (0.0%)
25	lD	0.30	1/2428 (0.0%)	0.42	0/3252
26	LE	0.18	0/1942	0.41	0/2606
26	lE	0.20	0/1942	0.43	0/2606
27	LF	0.33	1/1905 (0.1%)	0.36	0/2539
27	lF	0.23	0/1905	0.37	0/2539
28	LG	0.26	0/1960	0.46	2/2637 (0.1%)
28	lG	0.25	1/1960 (0.1%)	0.41	0/2637
29	LH	0.21	0/1537	0.37	0/2066
29	lH	0.26	0/1537	0.45	0/2066
30	LI	0.24	0/1673	0.38	0/2233
30	lI	0.24	0/1673	0.44	0/2233
31	LJ	0.33	1/1433 (0.1%)	0.50	0/1915
31	lJ	0.24	0/1433	0.57	3/1915 (0.2%)
32	LL	0.20	0/1732	0.41	0/2315
32	lL	0.22	0/1732	0.42	0/2315
33	LM	0.17	0/1161	0.41	0/1554
33	lM	0.23	0/1161	0.46	0/1554
34	LN	0.22	0/1746	0.40	0/2338
34	lN	0.24	0/1746	0.39	0/2338
35	LO	0.18	0/1682	0.35	0/2250
35	lO	0.23	0/1682	0.41	0/2250
36	LP	0.24	0/1268	0.41	0/1701
36	lP	0.26	0/1268	0.43	0/1701
37	LQ	0.22	0/1537	0.35	0/2052
37	lQ	0.25	0/1537	0.39	0/2052
38	LR	0.24	0/1582	0.37	0/2091
38	lR	0.20	0/1582	0.37	0/2091

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
39	LS	0.21	0/1493	0.38	0/2003
39	lS	0.24	0/1493	0.38	0/2003
40	LT	0.21	0/1326	0.42	0/1770
40	lT	0.23	0/1326	0.41	0/1770
41	LU	0.24	0/839	0.56	0/1126
41	lU	0.25	0/839	0.57	1/1126 (0.1%)
42	LV	0.23	0/993	0.41	0/1332
42	lV	0.25	0/993	0.44	0/1332
43	LX	0.32	0/1002	0.41	0/1345
43	lX	0.22	0/1002	0.38	0/1345
44	LY	0.19	0/1132	0.39	0/1504
44	lY	0.23	0/1132	0.37	0/1504
45	LZ	0.25	0/1130	0.48	0/1507
45	lZ	0.24	0/1130	0.47	0/1507
46	La	0.36	1/1191 (0.1%)	0.39	0/1591
46	la	0.24	0/1191	0.43	0/1591
47	Lb	0.26	0/889	0.38	0/1175
47	lb	0.18	0/889	0.39	0/1175
48	Lc	0.21	0/774	0.45	0/1038
48	lc	0.22	0/774	0.45	0/1038
49	Ld	0.25	0/903	0.37	0/1216
49	ld	0.25	0/903	0.40	0/1216
50	Le	0.21	0/1071	0.38	0/1429
50	le	0.24	0/1071	0.45	0/1429
51	Lf	0.19	0/895	0.46	0/1198
51	lf	0.24	0/895	0.42	0/1198
52	Lg	0.20	0/916	0.35	0/1220
52	lg	0.22	0/916	0.40	0/1220
53	Lh	0.19	0/1023	0.39	0/1351
53	lh	0.21	0/1023	0.37	0/1351
54	Li	0.21	0/843	0.44	0/1115
54	li	0.19	0/843	0.39	0/1115
55	Lj	0.21	0/720	0.38	0/952
55	lj	0.57	4/720 (0.6%)	0.83	4/952 (0.4%)
56	Lk	0.21	0/575	0.46	0/761
56	lk	0.21	0/575	0.44	0/761
57	Ll	0.19	0/454	0.32	0/599
57	ll	0.24	0/454	0.36	0/599
58	Lm	0.16	0/435	0.35	0/575
58	lm	0.39	1/435 (0.2%)	0.43	0/575
59	Ln	0.16	0/231	0.40	0/294
59	ln	0.19	0/231	0.34	0/294
60	Lo	0.20	0/876	0.44	0/1156

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
60	lo	0.21	0/876	0.38	0/1156
61	Lp	0.21	0/718	0.35	0/953
61	lp	0.23	0/718	0.39	0/953
62	Lr	0.22	0/1017	0.38	0/1364
62	lr	0.22	0/1017	0.42	0/1364
63	Lz	0.17	0/1769	0.46	0/2371
63	lz	0.16	0/1769	0.44	0/2371
64	SR	0.27	0/1105	0.52	0/1484
64	sR	0.63	4/1105 (0.4%)	1.02	6/1484 (0.4%)
65	SD	0.58	3/1793 (0.2%)	0.47	1/2414 (0.0%)
65	sD	0.92	5/1793 (0.3%)	1.01	11/2414 (0.5%)
66	SF	0.16	0/1516	0.40	0/2037
66	sF	0.27	0/1516	0.52	1/2037 (0.0%)
67	SK	0.63	3/851 (0.4%)	0.67	1/1147 (0.1%)
67	sK	0.50	1/851 (0.1%)	0.89	4/1147 (0.3%)
68	SP	0.18	0/1003	0.46	0/1342
68	sP	0.21	0/1003	0.46	0/1342
69	SQ	0.17	0/1160	0.45	0/1553
69	sQ	0.34	1/1160 (0.1%)	0.61	0/1553
70	SS	0.17	0/1216	0.39	0/1628
70	sS	0.21	0/1216	0.46	0/1628
71	ST	0.22	0/1131	0.45	0/1515
71	sT	0.27	0/1131	0.53	1/1515 (0.1%)
72	SU	0.33	0/831	0.53	1/1115 (0.1%)
72	sU	0.72	5/831 (0.6%)	0.92	7/1115 (0.6%)
73	Sc	0.20	0/508	0.65	2/680 (0.3%)
73	sc	0.25	0/508	0.53	0/680
74	Sd	0.24	0/470	0.44	0/623
74	sd	0.22	0/470	0.48	0/623
75	Sg	0.24	0/2493	0.44	0/3394
75	sg	0.24	0/2493	0.50	0/3394
76	SM	0.21	0/950	0.43	0/1275
76	sM	0.18	0/950	0.43	0/1275
77	SZ	0.75	5/604 (0.8%)	1.14	6/810 (0.7%)
77	sZ	0.31	0/604	0.64	0/810
78	Sf	0.32	0/560	0.63	2/745 (0.3%)
78	sf	0.50	1/560 (0.2%)	0.60	0/745
79	S2	0.15	0/41242	0.29	1/64255 (0.0%)
79	s2	0.19	0/41241	0.31	0/64251
80	cB	0.27	2/6734 (0.0%)	0.53	5/9094 (0.1%)
81	aP	0.13	0/1692	0.27	0/2634
82	Et	0.13	0/1778	0.30	0/2767
82	pE	0.17	0/1778	0.36	0/2767

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
83	Ls	0.18	0/1519	0.44	1/2052 (0.0%)
83	ls	0.44	3/1519 (0.2%)	0.68	6/2052 (0.3%)
84	Lt	0.60	1/1058 (0.1%)	0.79	4/1430 (0.3%)
84	lt	0.19	0/1058	0.51	0/1430
85	L5	0.20	0/89312	0.30	0/139287
85	l5	0.21	0/89313	0.30	0/139291
86	LW	0.59	3/979 (0.3%)	0.60	1/1295 (0.1%)
87	AT	0.11	0/1805	0.25	0/2809
88	CF	0.56	6/3442 (0.2%)	0.75	9/4656 (0.2%)
89	Pt	0.13	0/1761	0.26	0/2741
All	All	0.24	79/489910 (0.0%)	0.38	115/718287 (0.0%)

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
1	cH	0	1
5	SX	0	1
5	sX	0	1
12	SH	0	1
12	sH	0	1
22	LA	0	1
22	lA	0	1
23	LB	0	2
23	lB	0	3
31	LJ	0	1
31	lJ	0	1
33	LM	0	1
33	lM	0	2
35	LO	0	1
35	lO	0	1
51	Lf	0	1
51	lf	0	1
55	Lj	0	1
55	lj	0	1
64	sR	0	2
65	sD	0	1
66	SF	0	1
69	SQ	0	1
69	sQ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
72	sU	0	1
77	SZ	0	1
All	All	0	31

All (79) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
65	sD	193	ASP	C-O	22.92	1.47	1.24
8	SY	52	PRO	CG-CD	-19.63	0.84	1.50
88	CF	391	PRO	CG-CD	-18.28	0.88	1.50
88	CF	390	GLY	C-O	17.54	1.47	1.24
65	SD	218	LEU	C-O	17.03	1.32	1.23
84	Lt	148	PRO	CG-CD	-16.52	0.94	1.50
65	sD	194	PRO	CG-CD	-16.32	0.95	1.50
65	sD	194	PRO	N-CD	15.70	1.69	1.47
65	sD	193	ASP	CA-C	14.30	1.71	1.52
65	sD	194	PRO	N-CA	-11.40	1.33	1.47
65	SD	189	MET	SD-CE	-11.30	1.51	1.79
88	CF	391	PRO	N-CD	10.70	1.62	1.47
8	SY	51	THR	C-N	10.51	1.58	1.33
14	Sa	98	PRO	CA-C	10.04	1.61	1.52
72	sU	108	PRO	CG-CD	-9.95	1.17	1.50
6	sG	64	LYS	CE-NZ	-9.26	1.21	1.49
86	LW	55	TYR	CG-CD1	-9.20	1.20	1.39
67	sK	85	LEU	C-O	8.79	1.32	1.24
77	SZ	70	PRO	CG-CD	-8.71	1.21	1.50
67	SK	25	LYS	CD-CE	-8.51	1.26	1.52
77	SZ	69	THR	C-O	8.47	1.30	1.24
78	sf	117	LEU	CG-CD1	-8.42	1.24	1.52
83	ls	73	PRO	CG-CD	-8.32	1.22	1.50
88	CF	390	GLY	C-N	-7.94	1.23	1.33
86	LW	55	TYR	CE1-CZ	-7.88	1.19	1.38
25	lD	235	MET	SD-CE	-7.86	1.59	1.79
72	sU	93	SER	CB-OG	-7.81	1.26	1.42
55	lj	39	TYR	C-N	-7.69	1.24	1.34
19	Sb	82	LYS	CE-NZ	-7.62	1.26	1.49
72	sU	107	GLU	C-N	7.62	1.51	1.33
64	sR	121	GLN	C-O	7.38	1.33	1.24
64	sR	122	PRO	CG-CD	-7.36	1.25	1.50
46	La	120	GLN	CD-NE2	-7.33	1.17	1.33
12	SH	157	HIS	CG-ND1	-7.24	1.30	1.38
8	SY	52	PRO	CA-C	7.23	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	SW	42	MET	SD-CE	-7.20	1.61	1.79
80	cB	13	MET	SD-CE	-7.11	1.61	1.79
88	CF	391	PRO	CA-CB	-7.08	1.46	1.54
77	SZ	70	PRO	N-CA	-6.86	1.39	1.47
72	sU	108	PRO	N-CA	-6.79	1.38	1.47
69	sQ	140	ARG	CZ-NH2	-6.74	1.24	1.33
6	SG	8	PRO	N-CD	6.65	1.57	1.47
88	CF	391	PRO	CB-CG	-6.46	1.17	1.49
16	SN	25	TRP	CZ3-CH2	-6.45	1.24	1.40
58	lm	106	ARG	CZ-NH2	-6.43	1.25	1.33
19	sb	12	PRO	CG-CD	-6.40	1.28	1.50
64	sR	129	LYS	CD-CE	-6.39	1.33	1.52
65	SD	189	MET	C-N	-6.34	1.23	1.33
80	cB	823	ASP	C-O	6.32	1.31	1.24
6	SG	8	PRO	CG-CD	-6.27	1.29	1.50
6	sG	82	SER	CA-CB	6.22	1.64	1.53
27	LF	70	ARG	C-O	-6.22	1.16	1.24
11	SB	30	TRP	CZ2-CH2	-6.19	1.25	1.37
83	ls	72	ASN	C-N	6.08	1.48	1.33
6	SG	8	PRO	N-CA	-6.07	1.39	1.47
8	SY	52	PRO	CB-CG	6.01	1.79	1.49
55	lj	40	PRO	CG-CD	-6.00	1.30	1.50
3	sI	195	LEU	CG-CD1	-5.97	1.32	1.52
55	lj	39	TYR	CA-C	5.86	1.60	1.52
55	lj	39	TYR	C-O	-5.84	1.16	1.24
6	SG	7	PHE	C-O	5.80	1.30	1.24
18	SW	50	PHE	CE2-CZ	-5.78	1.21	1.38
83	ls	20	LEU	CG-CD2	-5.77	1.33	1.52
77	SZ	69	THR	C-N	5.66	1.38	1.33
67	SK	65	ARG	CA-CB	-5.60	1.44	1.53
12	SH	157	HIS	CD2-NE2	-5.58	1.31	1.37
10	SA	39	TYR	CA-CB	-5.56	1.44	1.53
8	sY	22	GLN	CD-NE2	-5.55	1.21	1.33
67	SK	86	PRO	CA-C	-5.55	1.47	1.52
15	sC	256	TRP	CZ3-CH2	-5.54	1.26	1.40
64	sR	122	PRO	CA-C	5.52	1.60	1.52
77	SZ	69	THR	CA-C	5.42	1.57	1.52
16	SN	25	TRP	CD2-CE3	-5.36	1.31	1.40
28	lG	77	PRO	CA-C	-5.30	1.48	1.52
8	sY	81	TYR	CE1-CZ	-5.30	1.25	1.38
18	SW	111	MET	SD-CE	-5.29	1.66	1.79
86	LW	55	TYR	CE2-CZ	-5.17	1.25	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
72	sU	48	LEU	CB-CG	-5.15	1.43	1.53
31	LJ	163	MET	CG-SD	-5.14	1.68	1.80

All (115) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
65	sD	194	PRO	CA-N-CD	-28.05	72.73	112.00
65	sD	193	ASP	CA-C-O	-25.99	94.42	118.33
88	CF	391	PRO	CB-CG-CD	23.07	179.92	106.10
8	SY	52	PRO	CA-N-CD	-20.85	82.81	112.00
64	sR	122	PRO	CA-N-CD	-20.70	83.02	112.00
77	SZ	70	PRO	CA-N-CD	-20.41	83.42	112.00
6	SG	8	PRO	CA-N-CD	-19.96	84.05	112.00
88	CF	391	PRO	CA-N-CD	-19.56	84.61	112.00
19	sb	12	PRO	CA-N-CD	-18.93	85.50	112.00
67	sK	86	PRO	CA-N-CD	-18.62	85.93	112.00
88	CF	391	PRO	CA-CB-CG	-18.14	70.04	104.50
55	lj	40	PRO	CA-N-CD	-18.05	86.73	112.00
80	cB	824	PRO	CA-N-CD	-17.34	87.72	112.00
83	ls	73	PRO	CA-N-CD	-17.11	88.05	112.00
72	sU	108	PRO	CA-N-CD	-16.54	88.85	112.00
88	CF	391	PRO	N-CD-CG	-13.86	82.42	103.20
88	CF	390	GLY	CA-C-O	-13.25	102.57	121.52
84	Lt	148	PRO	CA-N-CD	-12.49	94.52	112.00
65	sD	193	ASP	C-N-CD	11.50	172.16	125.00
88	CF	391	PRO	N-CA-CB	11.10	114.49	102.72
84	Lt	148	PRO	CA-CB-CG	-11.04	83.52	104.50
72	sU	94	PRO	CA-N-CD	-10.91	96.72	112.00
77	SZ	69	THR	CA-C-O	-10.85	109.98	120.94
64	sR	129	LYS	CG-CD-CE	10.72	135.96	111.30
8	SY	52	PRO	CA-CB-CG	-10.68	84.21	104.50
64	sR	121	GLN	CA-C-O	-9.92	110.42	119.75
84	Lt	148	PRO	N-CD-CG	-9.81	88.49	103.20
8	SY	52	PRO	N-CA-C	9.34	131.70	112.47
17	sO	14	VAL	CA-C-N	9.09	138.06	121.70
17	sO	14	VAL	C-N-CA	9.09	138.06	121.70
13	SV	14	PRO	CA-N-CD	-8.98	99.43	112.00
8	SY	52	PRO	N-CD-CG	-8.66	90.21	103.20
67	SK	91	PRO	CA-N-CD	-8.54	100.04	112.00
67	sK	85	LEU	CA-C-O	-8.21	111.76	120.87
83	ls	73	PRO	N-CA-C	8.04	129.04	112.47
65	sD	194	PRO	CB-CG-CD	-8.01	80.46	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
73	Sc	6	VAL	CA-C-N	7.86	131.21	120.67
73	Sc	6	VAL	C-N-CA	7.86	131.21	120.67
6	SG	7	PHE	CA-C-O	-7.82	109.97	119.67
84	Lt	148	PRO	N-CA-C	7.82	128.59	112.47
24	lC	2	ALA	CA-C-N	7.76	135.68	121.70
24	lC	2	ALA	C-N-CA	7.76	135.68	121.70
6	SG	7	PHE	C-N-CD	7.76	156.81	125.00
88	CF	390	GLY	C-N-CD	7.73	156.68	125.00
86	LW	55	TYR	CD1-CE1-CZ	7.70	133.47	119.60
80	cB	46	ILE	N-CA-C	-7.64	105.86	113.20
80	cB	79	TYR	CD1-CE1-CZ	7.63	133.34	119.60
77	SZ	70	PRO	N-CA-C	-7.55	104.08	114.80
65	sD	194	PRO	N-CA-CB	7.52	111.18	102.76
88	CF	391	PRO	N-CA-C	-7.50	98.20	112.01
25	LD	113	PHE	CZ-CE2-CD2	7.50	133.49	120.00
24	LC	2	ALA	CA-C-N	7.42	135.06	121.70
24	LC	2	ALA	C-N-CA	7.42	135.06	121.70
71	sT	125	PRO	CA-N-CD	-7.42	101.62	112.00
65	SD	218	LEU	O-C-N	-7.41	118.12	121.53
77	SZ	69	THR	C-N-CD	7.41	155.37	125.00
17	SO	14	VAL	CA-C-N	7.19	134.64	121.70
17	SO	14	VAL	C-N-CA	7.19	134.64	121.70
83	ls	72	ASN	CA-C-N	-7.16	110.89	119.84
83	ls	72	ASN	C-N-CA	-7.16	110.89	119.84
8	SY	51	THR	C-N-CD	7.07	153.97	125.00
65	sD	194	PRO	CA-CB-CG	-7.04	91.11	104.50
65	sD	194	PRO	N-CA-C	-6.88	103.06	114.75
80	cB	823	ASP	CA-C-O	-6.75	111.30	119.67
72	sU	93	SER	CA-CB-OG	-6.64	97.81	111.10
77	SZ	69	THR	CA-C-N	-6.58	112.93	120.89
77	SZ	69	THR	C-N-CA	-6.58	112.93	120.89
8	SY	52	PRO	CB-CG-CD	-6.45	85.46	106.10
78	Sf	88	PRO	CA-N-CD	-6.43	103.00	112.00
78	Sf	88	PRO	N-CD-CG	-6.36	93.66	103.20
14	Sa	99	PRO	CA-N-CD	-6.25	103.25	112.00
72	sU	107	GLU	C-N-CD	6.21	150.46	125.00
65	sD	193	ASP	CA-C-N	-6.16	113.88	120.47
65	sD	193	ASP	C-N-CA	-6.16	113.88	120.47
28	LG	134	PRO	CA-N-CD	-6.12	103.43	112.00
55	lj	40	PRO	N-CA-CB	-6.02	97.86	103.46
64	sR	122	PRO	CB-CG-CD	-5.99	86.94	106.10
72	sU	108	PRO	CA-CB-CG	-5.82	93.43	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
64	sR	121	GLN	C-N-CD	5.80	148.79	125.00
19	sb	12	PRO	N-CD-CG	-5.78	94.53	103.20
88	CF	391	PRO	CA-C-O	-5.76	114.94	122.19
83	ls	73	PRO	N-CA-CB	-5.73	97.23	103.25
72	SU	41	ARG	NE-CZ-NH1	-5.72	115.78	121.50
11	SB	24	PRO	CA-N-CD	-5.69	104.04	112.00
6	sG	139	SER	N-CA-C	-5.64	108.19	114.62
79	S2	1274	G	C5'-C4'-C3'	5.59	123.58	115.20
8	SY	51	THR	CA-C-N	-5.55	112.90	119.84
8	SY	51	THR	C-N-CA	-5.55	112.90	119.84
41	lU	98	ASP	N-CA-C	-5.53	107.54	114.56
65	sD	194	PRO	CB-CA-C	5.52	119.15	110.49
19	sb	12	PRO	N-CA-CB	-5.49	97.49	103.25
12	SH	157	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
19	sb	12	PRO	CA-CB-CG	-5.47	94.11	104.50
67	sK	85	LEU	C-N-CD	5.46	147.38	125.00
65	sD	193	ASP	O-C-N	5.43	126.07	120.70
7	SJ	165	TYR	N-CA-C	-5.38	107.72	114.56
14	Sa	98	PRO	O-C-N	5.36	127.78	121.46
55	lj	40	PRO	N-CD-CG	-5.35	95.18	103.20
72	sU	107	GLU	CA-C-N	-5.30	113.22	119.84
72	sU	107	GLU	C-N-CA	-5.30	113.22	119.84
1	cH	43	LYS	CA-C-N	5.25	131.57	121.54
1	cH	43	LYS	C-N-CA	5.25	131.57	121.54
83	Ls	80	PRO	CA-N-CD	-5.23	104.68	112.00
80	cB	824	PRO	N-CA-C	-5.20	107.26	114.27
31	lJ	11	PRO	CA-N-CD	-5.13	104.82	112.00
16	sN	23	PRO	CA-N-CD	-5.12	104.84	112.00
67	sK	86	PRO	N-CA-CB	5.11	108.04	103.08
31	lJ	12	MET	CA-C-N	-5.08	112.15	122.31
31	lJ	12	MET	C-N-CA	-5.08	112.15	122.31
28	LG	134	PRO	N-CD-CG	-5.08	95.58	103.20
64	sR	125	GLY	N-CA-C	-5.07	108.16	113.58
11	SB	24	PRO	N-CD-CG	-5.07	95.60	103.20
66	sF	134	VAL	N-CA-C	-5.05	106.73	111.48
83	ls	73	PRO	CB-CG-CD	-5.03	89.99	106.10
55	lj	39	TYR	C-N-CD	-5.03	104.40	125.00

There are no chirality outliers.

All (31) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
22	LA	13	GLY	Peptide
23	LB	17	LEU	Peptide
23	LB	258	HIS	Peptide
31	LJ	94	LEU	Peptide
33	LM	88	ALA	Peptide
35	LO	110	PRO	Peptide
51	Lf	106	TYR	Peptide
55	Lj	39	TYR	Peptide
66	SF	78	MET	Peptide
12	SH	15	LYS	Peptide
69	SQ	43	GLU	Peptide
5	SX	126	ALA	Peptide
77	SZ	46	ASN	Peptide
1	cH	51	GLN	Peptide
22	lA	13	GLY	Peptide
23	lB	16	PHE	Peptide
23	lB	17	LEU	Peptide
23	lB	258	HIS	Peptide
31	lJ	94	LEU	Peptide
33	lM	87	ALA	Peptide
33	lM	88	ALA	Peptide
35	lO	110	PRO	Peptide
51	lf	106	TYR	Peptide
55	lj	39	TYR	Peptide
65	sD	193	ASP	Peptide
12	sH	15	LYS	Peptide
69	sQ	43	GLU	Peptide
64	sR	133	GLY	Peptide
64	sR	26	ASN	Peptide
72	sU	107	GLU	Peptide
5	sX	126	ALA	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	cH	968	0	1013	74	0
2	SE	2076	0	2177	107	0
2	sE	2076	0	2177	101	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	SI	1686	0	1772	85	0
3	sI	1686	0	1772	84	0
4	SL	1247	0	1323	65	0
4	sL	1247	0	1323	83	0
5	SX	1098	0	1167	58	0
5	sX	1098	0	1167	37	0
6	SG	1923	0	2089	109	0
6	sG	1923	0	2089	119	0
7	SJ	1525	0	1640	85	0
7	sJ	1525	0	1640	89	0
8	SY	1065	0	1142	76	0
8	sY	1065	0	1142	111	0
9	Se	459	0	503	13	0
9	se	459	0	503	60	0
10	SA	1741	0	1746	164	0
10	sA	1741	0	1746	148	0
11	SB	1738	0	1809	117	0
11	sB	1738	0	1809	139	0
12	SH	1497	0	1590	94	0
12	sH	1497	0	1590	118	0
13	SV	636	0	637	62	0
13	sV	636	0	637	59	0
14	Sa	821	0	870	43	0
14	sa	821	0	870	47	0
15	SC	1725	0	1813	115	0
15	sC	1725	0	1813	114	0
16	SN	1208	0	1294	82	0
16	sN	1208	0	1294	57	0
17	SO	1049	0	1073	100	0
17	sO	1049	0	1073	78	0
18	SW	1034	0	1080	83	0
18	sW	1034	0	1080	76	0
19	Sb	651	0	672	65	0
19	sb	651	0	672	41	0
20	L7	2561	0	1295	85	0
20	l7	2561	0	1295	50	0
21	L8	3314	0	1683	122	0
21	l8	3314	0	1683	92	0
22	LA	1898	0	1993	98	0
22	lA	1898	0	1993	96	0
23	LB	3238	0	3376	153	0
23	lB	3238	0	3376	117	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	LC	2927	0	3104	101	0
24	lC	2927	0	3104	107	0
25	LD	2382	0	2410	156	0
25	lD	2382	0	2410	124	0
26	LE	1904	0	2055	103	0
26	lE	1904	0	2055	72	0
27	LF	1870	0	1996	99	0
27	lF	1870	0	1996	83	0
28	LG	1927	0	2074	116	0
28	lG	1927	0	2074	87	0
29	LH	1518	0	1601	71	0
29	lH	1518	0	1601	69	0
30	LI	1634	0	1671	82	0
30	lI	1634	0	1671	49	0
31	LJ	1410	0	1441	118	0
31	lJ	1410	0	1441	85	0
32	LL	1701	0	1818	80	0
32	lL	1701	0	1818	65	0
33	LM	1138	0	1204	67	0
33	lM	1138	0	1204	43	0
34	LN	1701	0	1749	84	0
34	lN	1701	0	1749	73	0
35	LO	1650	0	1794	82	0
35	lO	1650	0	1794	52	0
36	LP	1242	0	1269	64	0
36	lP	1242	0	1269	46	0
37	LQ	1513	0	1628	83	0
37	lQ	1513	0	1628	68	0
38	LR	1566	0	1729	106	0
38	lR	1566	0	1729	64	0
39	LS	1453	0	1490	75	0
39	lS	1453	0	1490	53	0
40	LT	1298	0	1366	55	0
40	lT	1298	0	1366	45	0
41	LU	825	0	850	47	0
41	lU	825	0	850	58	0
42	LV	979	0	1039	42	0
42	lV	979	0	1039	38	0
43	LX	985	0	1066	66	0
43	lX	985	0	1066	33	0
44	LY	1115	0	1205	64	0
44	lY	1115	0	1205	53	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	LZ	1107	0	1182	80	0
45	lZ	1107	0	1182	51	0
46	La	1162	0	1213	62	0
46	la	1162	0	1213	51	0
47	Lb	876	0	948	59	0
47	lb	876	0	948	19	0
48	Lc	764	0	804	52	0
48	lc	764	0	804	25	0
49	Ld	888	0	930	36	0
49	ld	888	0	930	31	0
50	Le	1053	0	1147	37	0
50	le	1053	0	1146	47	0
51	Lf	876	0	912	36	0
51	lf	876	0	912	32	0
52	Lg	906	0	998	41	0
52	lg	906	0	998	31	0
53	Lh	1015	0	1148	44	0
53	lh	1015	0	1148	47	0
54	Li	832	0	917	51	0
54	li	832	0	917	31	0
55	Lj	705	0	737	30	0
55	lj	705	0	736	32	0
56	Lk	569	0	637	25	0
56	lk	569	0	637	34	0
57	Ll	444	0	483	17	0
57	ll	444	0	483	21	0
58	Lm	429	0	465	11	0
58	lm	429	0	465	28	0
59	Ln	230	0	276	8	0
59	ln	230	0	276	13	0
60	Lo	862	0	929	40	0
60	lo	862	0	929	25	0
61	Lp	708	0	756	34	0
61	lp	708	0	756	28	0
62	Lr	1002	0	1068	62	0
62	lr	1002	0	1068	24	0
63	Lz	1741	0	1854	93	0
63	lz	1741	0	1854	78	0
64	SR	1090	0	1149	94	0
64	sR	1090	0	1149	251	0
65	SD	1765	0	1865	110	0
65	sD	1765	0	1865	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
66	SF	1495	0	1549	87	0
66	sF	1495	0	1549	102	0
67	SK	827	0	854	127	0
67	sK	827	0	854	60	0
68	SP	985	0	1031	69	0
68	sP	985	0	1031	60	0
69	SQ	1142	0	1213	80	0
69	sQ	1142	0	1213	86	0
70	SS	1198	0	1261	87	0
70	sS	1198	0	1261	80	0
71	ST	1112	0	1146	82	0
71	sT	1112	0	1146	80	0
72	SU	821	0	883	72	0
72	sU	821	0	883	55	0
73	Sc	506	0	536	35	0
73	sc	506	0	536	53	0
74	Sd	459	0	452	47	0
74	sd	459	0	452	30	0
75	Sg	2436	0	2393	191	0
75	sg	2436	0	2393	192	0
76	SM	940	0	965	54	0
76	sM	940	0	965	63	0
77	SZ	598	0	656	65	0
77	sZ	598	0	656	72	0
78	Sf	548	0	555	33	0
78	sf	548	0	555	56	0
79	S2	36898	0	18605	1275	0
79	s2	36898	0	18605	1176	0
80	cB	6605	0	6679	414	0
81	aP	1514	0	770	46	0
82	Et	1593	0	810	58	0
82	pE	1593	0	810	59	0
83	Ls	1496	0	1540	80	0
83	ls	1496	0	1540	102	0
84	Lt	1046	0	1076	55	0
84	lt	1046	0	1076	61	0
85	L5	79860	0	40301	2575	0
85	l5	79860	0	40302	1661	0
86	LW	965	0	1029	111	0
87	AT	1616	0	824	53	0
88	CF	3383	0	3431	151	0
89	Pt	1576	0	803	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
90	Lg	1	0	0	0	0
90	Lj	1	0	0	0	0
90	Lm	1	0	0	0	0
90	Lo	1	0	0	0	0
90	Lp	1	0	0	0	0
90	Sa	1	0	0	0	0
90	lg	1	0	0	0	0
90	lj	1	0	0	0	0
90	lm	1	0	0	0	0
90	lo	1	0	0	0	0
90	lp	1	0	0	0	0
90	sa	1	0	0	0	0
91	L5	215	0	0	0	0
91	L7	3	0	0	0	0
91	L8	3	0	0	0	0
91	LA	1	0	0	0	0
91	LP	1	0	0	0	0
91	LV	1	0	0	0	0
91	Le	1	0	0	0	0
91	Lg	1	0	0	0	0
91	S2	29	0	0	0	0
91	l5	214	0	0	0	0
91	l7	3	0	0	0	0
91	l8	3	0	0	0	0
91	lA	1	0	0	0	0
91	lI	1	0	0	0	0
91	lP	1	0	0	0	0
91	lV	1	0	0	0	0
91	le	1	0	0	0	0
91	lj	1	0	0	0	0
91	s2	28	0	0	1	0
91	sR	1	0	0	0	0
All	All	456973	0	341642	16225	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 21.

All (16225) 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)
8:SY:52:PRO:CG	8:SY:52:PRO:CB	1.79	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:SY:52:PRO:CG	8:SY:52:PRO:N	1.73	1.51
15:sC:121:ARG:NH2	15:sC:123:ARG:HH11	1.24	1.35
25:LD:208:MET:HE1	25:LD:219:TYR:CE1	1.62	1.34
11:sB:28:LYS:NZ	17:sO:51:GLU:OE2	1.63	1.30
25:lD:289:ARG:HA	25:lD:292:GLU:OE1	1.34	1.27
64:SR:101:ASP:HA	64:SR:104:GLU:OE2	1.28	1.26
65:SD:157:MET:CA	65:SD:189:MET:HE3	1.66	1.26
7:SJ:65:GLU:CD	7:SJ:66:LYS:H	1.45	1.25
65:SD:157:MET:HE3	65:SD:159:HIS:CD2	1.73	1.24
78:sf:106:TYR:HA	78:sf:117:LEU:CD1	1.69	1.23
24:lC:13:GLU:OE1	24:lC:157:LYS:HD3	1.33	1.23
15:sC:121:ARG:NH1	15:sC:123:ARG:HD2	1.52	1.22
78:sf:105:TYR:O	78:sf:117:LEU:HD13	1.40	1.21
13:SV:22:ARG:NH2	13:SV:23:ILE:HD12	1.53	1.21
77:sZ:47:LEU:HD22	77:sZ:80:ARG:N	1.56	1.20
82:Et:26:A:N6	82:Et:44:G:H1	1.39	1.20
78:sf:106:TYR:HA	78:sf:117:LEU:HD11	1.19	1.18
64:sR:126:MET:SD	64:sR:129:LYS:HD3	1.84	1.17
86:LW:52:THR:N	86:LW:55:TYR:HE1	1.40	1.17
14:sa:46:GLU:HB2	17:sO:113:GLN:NE2	1.59	1.16
80:cB:385:ILE:HD11	80:cB:395:MET:HG3	1.27	1.16
8:SY:52:PRO:CG	8:SY:52:PRO:CA	2.22	1.16
8:sY:114:MET:SD	8:sY:127:ALA:HB3	1.86	1.16
10:SA:39:TYR:HB2	64:SR:105:MET:CE	1.75	1.15
63:lz:85:MET:HE1	63:lz:93:LEU:HD12	1.22	1.15
16:sN:104:ARG:NH2	48:lc:80:GLU:OE1	1.81	1.14
18:SW:42:MET:HE1	18:SW:50:PHE:CD2	1.80	1.14
31:LJ:99:PHE:HD2	31:LJ:163:MET:SD	1.69	1.14
65:sD:194:PRO:N	65:sD:194:PRO:CD	1.69	1.13
18:SW:42:MET:HE1	18:SW:50:PHE:CE2	1.82	1.13
83:ls:120:GLU:OE2	83:ls:159:GLN:NE2	1.82	1.13
46:La:79:TRP:CZ2	46:La:120:GLN:NE2	2.16	1.13
71:sT:88:MET:HE1	79:s2:1665:G:N7	1.61	1.13
83:Ls:27:CYS:SG	83:Ls:90:PHE:HE2	1.69	1.13
47:Lb:55:LYS:NZ	47:Lb:58:GLN:HE21	1.46	1.13
64:sR:126:MET:HE2	64:sR:129:LYS:HD2	1.29	1.12
80:cB:824:PRO:HD2	80:cB:825:PHE:N	1.56	1.12
12:SH:157:HIS:HE1	12:SH:190:PRO:N	1.45	1.12
13:SV:22:ARG:HE	13:SV:23:ILE:N	1.44	1.12
37:LQ:93:GLN:HG2	37:LQ:94:GLU:OE2	1.49	1.12
15:sC:253:PRO:HA	15:sC:256:TRP:CE3	1.82	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:LI:48:LEU:CD2	30:LI:142:LEU:HA	1.80	1.12
67:SK:25:LYS:CE	67:SK:65:ARG:HA	1.78	1.12
84:Lt:142:ASN:HB2	84:Lt:148:PRO:HD3	1.29	1.12
32:LL:201:GLU:O	32:LL:205:GLN:NE2	1.80	1.12
85:l5:1176:C:H42	85:l5:1184:A:N6	1.48	1.12
85:L5:2748:C:H5"	52:Lg:65:MET:HE1	1.30	1.12
85:L5:1819:G:C5	25:LD:113:PHE:HE2	1.67	1.11
67:SK:25:LYS:NZ	67:SK:65:ARG:HA	1.65	1.11
49:Ld:29:ILE:HD13	49:Ld:84:ILE:HD12	1.29	1.11
8:sY:20:ARG:HE	8:sY:22:GLN:NE2	1.49	1.10
10:sA:147:LEU:HD11	10:sA:174:MET:HE3	1.18	1.10
49:Ld:54:MET:HE1	49:Ld:60:PRO:HA	1.30	1.10
27:LF:215:SER:C	27:LF:247:MET:HE1	1.75	1.10
8:SY:74:MET:HE2	8:SY:76:TYR:CE2	1.87	1.10
4:sL:33:LEU:HD12	4:sL:34:PRO:CD	1.82	1.09
17:sO:51:GLU:OE1	79:s2:952:G:H4'	1.53	1.09
12:SH:157:HIS:ND1	12:SH:190:PRO:HG3	1.67	1.09
27:LF:214:SER:O	27:LF:247:MET:HE2	1.50	1.09
67:SK:49:MET:HE3	67:SK:69:TRP:CZ2	1.86	1.09
15:sC:121:ARG:HH22	15:sC:123:ARG:NH1	1.48	1.09
25:lD:232:THR:HG23	25:lD:235:MET:CE	1.83	1.09
85:l5:1176:C:N4	85:l5:1184:A:H61	1.49	1.08
28:LG:131:LYS:O	28:LG:131:LYS:HD3	1.52	1.08
25:lD:208:MET:HG3	25:lD:223:PHE:CE2	1.87	1.08
67:sK:86:PRO:O	67:sK:86:PRO:HD2	1.50	1.08
41:LU:31:ASP:OD1	41:LU:33:ILE:HG12	1.53	1.08
75:Sg:219:TRP:HD1	75:Sg:226:HIS:HA	1.12	1.08
31:LJ:99:PHE:CD2	31:LJ:163:MET:SD	2.47	1.08
80:cB:43:ALA:CB	80:cB:79:TYR:HE1	1.65	1.07
4:sL:33:LEU:CD1	4:sL:34:PRO:HD2	1.84	1.07
78:sf:118:ARG:HD3	78:sf:131:PHE:HE1	1.02	1.07
16:SN:25:TRP:HH2	19:Sb:32:PHE:HB2	1.11	1.07
85:L5:1095:A:H2	85:L5:1200:G:N1	1.52	1.07
71:ST:112:MET:HE1	71:ST:127:GLY:CA	1.84	1.07
80:cB:13:MET:HE1	80:cB:464:VAL:HG22	1.23	1.06
42:LV:45:ILE:HD13	42:LV:53:PRO:HB3	1.34	1.06
6:sG:64:LYS:HZ1	6:sG:82:SER:HB3	1.19	1.06
38:LR:92:LYS:HG2	38:LR:96:MET:CE	1.84	1.06
16:SN:25:TRP:CE3	19:Sb:82:LYS:HE3	1.89	1.06
85:L5:1095:A:C2	85:L5:1200:G:N1	2.22	1.06
8:sY:110:ARG:HD2	8:sY:114:MET:HE2	1.08	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:13:MET:HE3	80:cB:464:VAL:HG13	1.33	1.06
83:ls:74:ALA:HA	83:ls:77:LYS:HZ3	1.14	1.05
47:Lb:55:LYS:HE2	47:Lb:55:LYS:HA	1.36	1.05
72:SU:37:ALA:C	72:SU:41:ARG:NH1	2.14	1.05
8:sY:19:GLN:NE2	8:sY:81:TYR:CE1	2.24	1.05
8:SY:52:PRO:CD	8:SY:52:PRO:HG2	1.53	1.05
47:Lb:55:LYS:HD3	47:Lb:55:LYS:O	1.57	1.05
25:lD:208:MET:HG3	25:lD:223:PHE:CD2	1.92	1.05
77:sZ:47:LEU:HD22	77:sZ:80:ARG:H	0.91	1.05
10:SA:42:LYS:HD3	10:SA:43:SER:H	1.15	1.05
67:SK:15:LEU:HD13	67:SK:21:MET:HE3	1.38	1.05
64:sR:100:PRO:HD3	64:sR:122:PRO:HD2	1.38	1.04
72:SU:37:ALA:O	72:SU:41:ARG:NH1	1.88	1.04
8:sY:110:ARG:CD	8:sY:114:MET:HE2	1.87	1.04
85:l5:493:G:H1	85:l5:660:A:H2	1.06	1.04
22:LA:61:VAL:HG11	22:LA:76:PHE:CD2	1.91	1.04
48:Lc:20:LEU:HD22	48:Lc:101:ASP:HB3	1.40	1.04
10:SA:39:TYR:HB2	64:SR:105:MET:HE1	1.09	1.04
6:sG:64:LYS:NZ	6:sG:82:SER:HB3	1.73	1.04
27:LF:247:MET:CA	27:LF:247:MET:HE3	1.83	1.04
31:LJ:163:MET:HE1	31:LJ:174:ILE:HG21	1.40	1.04
12:sH:138:GLU:OE2	16:sN:19:ARG:NH2	1.90	1.03
25:lD:232:THR:HG23	25:lD:235:MET:HE1	1.35	1.03
65:sD:218:LEU:HD21	75:sg:189:ILE:HD12	1.36	1.03
8:SY:52:PRO:CD	8:SY:52:PRO:HG3	1.53	1.03
85:L5:1819:G:C4	25:LD:113:PHE:HE2	1.75	1.03
27:LF:247:MET:HA	27:LF:247:MET:CE	1.88	1.03
6:sG:64:LYS:HZ1	6:sG:82:SER:CB	1.71	1.03
12:SH:157:HIS:HE1	12:SH:190:PRO:CA	1.70	1.03
10:SA:42:LYS:HD3	10:SA:43:SER:N	1.73	1.03
13:SV:59:ILE:HA	13:SV:62:MET:HE3	1.38	1.03
65:sD:218:LEU:HD21	75:sg:189:ILE:CD1	1.87	1.03
43:LX:143:ASP:OD1	43:LX:144:TYR:CD1	2.12	1.03
64:sR:126:MET:HE2	64:sR:129:LYS:CD	1.89	1.03
7:sJ:30:LYS:HG3	9:se:42:PHE:HE2	1.24	1.02
11:sB:151:ARG:HE	64:sR:133:GLY:HA2	1.24	1.02
6:SG:8:PRO:HD2	6:SG:9:ALA:N	1.66	1.02
8:SY:52:PRO:CG	8:SY:52:PRO:HD2	1.52	1.02
45:lZ:46:ILE:HD13	45:lZ:118:PHE:HD2	1.23	1.02
8:SY:52:PRO:CG	8:SY:52:PRO:HD3	1.52	1.02
25:LD:271:MET:HE2	25:LD:275:GLN:HB2	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:LQ:187:LYS:O	37:LQ:188:ASN:ND2	1.92	1.02
3:sI:161:LEU:HD21	3:sI:195:LEU:CD1	1.90	1.02
30:LI:48:LEU:HD21	30:LI:142:LEU:HA	1.33	1.02
39:LS:130:GLU:HG2	39:LS:132:ILE:HD11	1.41	1.02
79:s2:878:G:H1	79:s2:908:A:N6	1.56	1.02
15:sC:268:GLU:HG3	15:sC:269:PHE:CE2	1.95	1.01
58:lm:106:ARG:HH21	85:l5:4696:C:H1'	1.21	1.01
75:Sg:188:HIS:NE2	75:Sg:219:TRP:NE1	2.08	1.01
69:sQ:133:GLY:CA	69:sQ:140:ARG:NH2	2.23	1.01
49:ld:64:ILE:HG23	49:ld:68:LEU:HD23	1.39	1.01
27:LF:247:MET:HE3	27:LF:247:MET:HA	1.02	1.01
1:cH:74:THR:OG1	1:cH:76:GLU:OE1	1.76	1.01
79:S2:1656:G:H1	79:S2:1668:U:H3	1.03	1.01
78:sf:118:ARG:HD3	78:sf:131:PHE:CE1	1.93	1.01
88:CF:93:PRO:HD2	88:CF:102:MET:HG2	1.35	1.01
31:lJ:66:GLU:HG3	31:lJ:68:ILE:HD11	1.42	1.00
58:lm:106:ARG:NH2	85:l5:4696:C:C1'	2.24	1.00
10:SA:39:TYR:CB	64:SR:105:MET:HE1	1.91	1.00
69:SQ:109:LYS:O	69:SQ:113:ILE:HG22	1.59	1.00
65:SD:157:MET:HA	65:SD:189:MET:HE3	1.02	1.00
68:SP:34:MET:HE1	68:SP:45:LEU:HB3	1.41	1.00
10:sA:190:SER:HA	13:sV:45:ARG:HH22	1.23	1.00
72:sU:48:LEU:HD11	72:sU:93:SER:OG	1.60	1.00
47:Lb:55:LYS:HZ1	47:Lb:58:GLN:HE21	1.00	1.00
85:L5:2845:A:H61	85:L5:3843:C:H42	1.09	1.00
38:LR:11:ALA:HB2	38:LR:41:ILE:HD11	1.41	1.00
13:sV:66:ASP:OD2	13:sV:67:ASP:N	1.94	1.00
12:SH:157:HIS:CE1	12:SH:190:PRO:N	2.30	0.99
4:sL:18:GLN:HG3	4:sL:33:LEU:HD21	1.44	0.99
86:LW:51:TRP:N	86:LW:55:TYR:OH	1.95	0.99
85:L5:2263:A:H5"	62:Lr:108:MET:CE	1.90	0.99
18:SW:42:MET:CE	18:SW:50:PHE:HE2	1.76	0.99
80:cB:590:LEU:HD13	80:cB:605:LYS:HE3	1.40	0.99
77:sZ:47:LEU:CD2	77:sZ:80:ARG:H	1.74	0.99
85:L5:2263:A:C5'	62:Lr:108:MET:HE1	1.91	0.99
65:SD:157:MET:HA	65:SD:189:MET:CE	1.92	0.98
10:sA:17:LYS:NZ	10:sA:176:TRP:CH2	2.29	0.98
85:L5:512:U:H3	85:L5:647:G:H1	1.02	0.98
18:sW:53:ILE:HD11	18:sW:60:LYS:HB2	1.44	0.98
67:SK:47:LYS:NZ	79:S2:1274:G:C4'	2.27	0.98
75:Sg:218:LEU:HD23	75:Sg:228:TYR:CD2	1.98	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:LI:62:SER:HA	30:LI:65:LEU:HD23	1.45	0.98
8:sY:20:ARG:NE	8:sY:22:GLN:NE2	2.09	0.98
15:sC:121:ARG:NH2	15:sC:123:ARG:NH1	2.09	0.98
58:lm:106:ARG:NH2	85:l5:4696:C:H1'	1.78	0.98
19:Sb:33:MET:CE	19:Sb:46:VAL:HG23	1.93	0.98
85:l5:1095:A:H2	85:l5:1200:G:H1	1.01	0.98
85:L5:1402:C:O2	85:L5:1415:G:N2	1.97	0.98
18:SW:42:MET:CE	18:SW:50:PHE:CE2	2.47	0.97
67:SK:49:MET:SD	67:SK:69:TRP:CD2	2.57	0.97
68:sP:28:MET:CE	68:sP:33:LEU:HD12	1.93	0.97
64:sR:93:GLN:O	64:sR:95:ILE:HD12	1.61	0.97
38:lR:71:ARG:HH22	85:l5:3604:A:H5"	1.28	0.97
85:l5:1095:A:C2	85:l5:1200:G:N1	2.33	0.97
85:L5:2845:A:H61	85:L5:3843:C:N4	1.61	0.97
23:LB:224:LYS:HD3	23:LB:340:THR:HG22	1.44	0.97
67:SK:47:LYS:NZ	79:S2:1274:G:H4'	1.79	0.97
19:Sb:42:LYS:NZ	19:Sb:56:CYS:HB2	1.78	0.97
45:lZ:103:ASP:OD2	45:lZ:106:LEU:HG	1.65	0.97
18:SW:111:MET:HE2	18:SW:116:ALA:CA	1.95	0.97
45:LZ:57:MET:HG3	45:LZ:62:ILE:HG13	1.47	0.97
18:sW:62:VAL:HG21	19:sb:8:LEU:HD21	1.47	0.96
71:sT:128:GLN:NE2	79:s2:1415:C:O2'	1.97	0.96
72:SU:37:ALA:CA	72:SU:41:ARG:HH12	1.78	0.96
43:LX:143:ASP:OD1	43:LX:144:TYR:N	1.97	0.96
82:pE:26:A:H61	82:pE:44:G:H1	1.05	0.96
71:ST:112:MET:HE1	71:ST:127:GLY:HA2	1.46	0.96
24:lC:13:GLU:OE2	24:lC:157:LYS:HE2	1.63	0.96
55:Lj:19:CYS:SG	55:Lj:34:CYS:HB2	2.04	0.96
89:Pt:50:U:H3	89:Pt:64:G:H1	0.98	0.96
11:sB:121:ILE:HD12	11:sB:164:ILE:HD11	1.46	0.96
83:ls:74:ALA:HA	83:ls:77:LYS:NZ	1.80	0.96
15:sC:268:GLU:HG3	15:sC:269:PHE:CD2	2.00	0.96
8:SY:52:PRO:N	8:SY:52:PRO:HG2	1.55	0.96
66:sF:61:PHE:HE1	73:sc:51:ARG:HG2	1.29	0.96
75:sg:29:ASP:O	75:sg:29:ASP:OD2	1.84	0.96
85:L5:1401:C:O2	85:L5:1416:G:N2	1.99	0.96
64:sR:30:THR:H	79:s2:1455:A:H5'	1.28	0.96
27:LF:70:ARG:O	27:LF:74:MET:SD	2.23	0.96
77:sZ:47:LEU:HD11	77:sZ:79:ILE:HA	1.48	0.95
11:sB:151:ARG:HE	64:sR:133:GLY:CA	1.79	0.95
67:SK:25:LYS:HE3	67:SK:65:ARG:HA	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:379:ASP:OD2	80:cB:380:GLU:N	2.00	0.95
8:SY:20:ARG:HD2	8:SY:74:MET:HE1	1.48	0.95
79:s2:1033:G:H1	79:s2:1080:A:HO2'	1.12	0.95
12:SH:73:GLN:HA	12:SH:76:GLN:HG2	1.48	0.95
16:SN:25:TRP:HH2	19:Sb:32:PHE:CB	1.78	0.95
45:LZ:9:LYS:O	45:LZ:25:ILE:HD12	1.65	0.95
83:ls:20:LEU:CD2	83:ls:90:PHE:HD1	1.79	0.95
12:SH:157:HIS:CE1	12:SH:190:PRO:CA	2.50	0.95
85:L5:1819:G:C5	25:LD:113:PHE:CE2	2.54	0.95
7:SJ:65:GLU:CD	7:SJ:66:LYS:N	2.25	0.95
13:SV:22:ARG:NE	13:SV:23:ILE:H	1.64	0.95
75:Sg:219:TRP:CD1	75:Sg:226:HIS:HA	2.02	0.95
77:sZ:47:LEU:CD1	77:sZ:79:ILE:HA	1.97	0.95
26:LE:244:GLU:HA	26:LE:247:LYS:CD	1.96	0.95
23:LB:103:LYS:HB3	23:LB:153:MET:HE2	1.48	0.94
25:LD:208:MET:HE1	25:LD:219:TYR:CD1	2.02	0.94
15:sC:121:ARG:HH12	15:sC:123:ARG:CD	1.80	0.94
32:lL:135:LYS:HB2	32:lL:136:LYS:HZ3	1.29	0.94
5:SX:45:SER:HG	5:SX:46:HIS:HD1	1.15	0.94
67:SK:25:LYS:NZ	67:SK:65:ARG:CA	2.30	0.94
7:sJ:30:LYS:CG	9:se:42:PHE:HE2	1.79	0.94
79:S2:1033:G:H1	79:S2:1080:A:HO2'	0.99	0.94
80:cB:580:ARG:HG3	80:cB:817:TRP:CZ3	2.02	0.94
85:L5:2781:G:OP1	43:LX:128:ILE:HD12	1.67	0.94
78:sf:118:ARG:CD	78:sf:131:PHE:HE1	1.80	0.94
26:LE:261:ILE:HG13	26:LE:267:LEU:HD23	1.50	0.94
38:LR:92:LYS:HG2	38:LR:96:MET:HE1	1.45	0.94
16:SN:25:TRP:CH2	19:Sb:32:PHE:HB2	2.01	0.94
25:LD:208:MET:CE	25:LD:219:TYR:CE1	2.51	0.94
49:Ld:29:ILE:HD13	49:Ld:84:ILE:CD1	1.95	0.94
13:sV:29:HIS:CE1	15:sC:87:PRO:HA	2.03	0.94
64:sR:5:ARG:HD3	64:sR:9:VAL:HG23	1.50	0.94
13:SV:11:LEU:HD21	15:SC:248:TYR:OH	1.65	0.94
8:sY:19:GLN:HG3	8:sY:81:TYR:CD1	2.02	0.94
86:LW:8:PHE:CE2	86:LW:46:PRO:HA	2.03	0.94
86:LW:51:TRP:CA	86:LW:55:TYR:OH	2.15	0.94
85:L5:493:G:H1	85:L5:660:A:H2	1.01	0.94
84:Lt:142:ASN:HB2	84:Lt:148:PRO:CD	1.96	0.93
15:sC:121:ARG:HH12	15:sC:123:ARG:HD2	1.12	0.93
83:ls:34:ASN:CG	85:l5:1968:G:H4'	1.92	0.93
16:SN:25:TRP:CE3	19:Sb:82:LYS:CE	2.52	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cH:43:LYS:HE2	9:se:45:VAL:HA	1.49	0.93
41:lU:61:VAL:HG23	41:lU:74:SER:HB2	1.50	0.93
22:LA:61:VAL:HG11	22:LA:76:PHE:CE2	2.01	0.93
11:sB:150:ILE:HB	64:sR:131:PRO:HB2	1.51	0.93
20:L7:43:U:H4'	31:LJ:143:ASP:OD2	1.68	0.93
10:sA:36:GLN:NE2	13:sV:67:ASP:OD2	2.01	0.93
26:lE:127:SER:O	26:lE:128:HIS:ND1	2.01	0.93
64:sR:100:PRO:CD	64:sR:122:PRO:HD2	1.99	0.93
66:sF:40:ALA:C	66:sF:45:TYR:CE1	2.47	0.93
13:SV:12:TYR:CE2	13:SV:14:PRO:HD3	2.04	0.93
85:L5:2017:A:HO2'	85:L5:2018:C:H6	0.94	0.93
38:LR:99:MET:HE2	38:LR:99:MET:HA	1.51	0.93
76:SM:52:LEU:HD12	76:SM:76:LEU:HD11	1.50	0.93
8:sY:19:GLN:NE2	8:sY:81:TYR:HE1	1.64	0.93
13:SV:70:LEU:HD22	13:SV:71:ARG:HH22	1.28	0.93
37:LQ:94:GLU:OE2	37:LQ:94:GLU:N	2.02	0.93
42:LV:62:MET:HA	42:LV:62:MET:HE3	1.51	0.92
18:SW:111:MET:HE2	18:SW:116:ALA:HA	1.51	0.92
8:sY:20:ARG:HE	8:sY:22:GLN:HE22	1.03	0.92
6:sG:64:LYS:NZ	6:sG:82:SER:CB	2.31	0.92
7:SJ:110:LEU:HA	7:SJ:113:GLN:HE21	1.32	0.92
8:sY:55:ILE:HD12	8:sY:75:ILE:HG22	1.52	0.92
85:L5:4053:A:H4'	63:Lz:207:LYS:HB3	1.52	0.92
6:SG:8:PRO:CD	6:SG:9:ALA:N	2.31	0.92
25:LD:208:MET:HE1	25:LD:219:TYR:HE1	1.27	0.92
6:sG:103:ASP:OD1	6:sG:104:ALA:N	2.03	0.92
68:sP:28:MET:HE2	68:sP:33:LEU:HD12	1.52	0.92
24:lC:95:MET:HE3	24:lC:95:MET:HA	1.52	0.92
63:lz:85:MET:CE	63:lz:93:LEU:HD12	2.00	0.92
78:sf:105:TYR:C	78:sf:117:LEU:HD13	1.94	0.92
86:LW:56:ARG:HG2	86:LW:61:LYS:HB2	1.52	0.92
85:L5:3937:C:H1'	34:LN:125:SER:HB2	1.52	0.92
31:LJ:96:LYS:HD2	31:LJ:175:LEU:HD13	1.50	0.92
10:sA:51:LEU:HD22	64:sR:105:MET:HE1	1.51	0.91
76:sM:60:MET:SD	76:sM:60:MET:N	2.43	0.91
19:Sb:33:MET:HE2	19:Sb:46:VAL:HG23	1.52	0.91
12:sH:76:GLN:HE22	12:sH:94:PHE:HB2	1.35	0.91
66:sF:61:PHE:CE1	73:sc:51:ARG:HG2	2.05	0.91
30:LI:206:LEU:HD22	30:LI:210:ARG:NH2	1.84	0.91
80:cB:43:ALA:CA	80:cB:79:TYR:HE1	1.82	0.91
27:LF:214:SER:O	27:LF:247:MET:CE	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:sB:155:TYR:OH	79:s2:989:C:OP2	1.88	0.91
86:LW:52:THR:N	86:LW:55:TYR:CE1	2.21	0.91
85:L5:1269:G:N2	85:L5:1441:C:C2	2.38	0.91
85:L5:2781:G:P	43:LX:128:ILE:HD12	2.10	0.91
64:sR:126:MET:CG	64:sR:129:LYS:HD3	1.99	0.91
65:SD:157:MET:CE	65:SD:159:HIS:CD2	2.54	0.91
67:SK:25:LYS:HE3	67:SK:65:ARG:CA	1.99	0.91
75:Sg:42:MET:HE3	75:Sg:43:TRP:N	1.86	0.91
15:sC:252:THR:C	15:sC:256:TRP:HZ3	1.79	0.91
86:LW:52:THR:CA	86:LW:55:TYR:HE1	1.83	0.91
77:sZ:46:ASN:O	77:sZ:47:LEU:HD13	1.70	0.91
85:l5:2557:G:H1	85:l5:2570:U:H3	0.92	0.91
25:LD:208:MET:SD	25:LD:223:PHE:CD1	2.63	0.91
80:cB:43:ALA:CB	80:cB:79:TYR:CE1	2.53	0.91
80:cB:824:PRO:CD	80:cB:825:PHE:N	2.31	0.90
12:SH:157:HIS:CE1	12:SH:190:PRO:CB	2.54	0.90
64:sR:41:ILE:HD12	79:s2:1387:G:H2'	1.54	0.90
85:l5:1401:C:O2	85:l5:1416:G:N2	2.04	0.90
86:LW:52:THR:O	86:LW:55:TYR:CD1	2.24	0.90
83:ls:20:LEU:CD2	83:ls:90:PHE:CD1	2.53	0.90
88:CF:376:LYS:HG2	88:CF:377:GLU:HG3	1.53	0.90
83:Ls:27:CYS:SG	83:Ls:90:PHE:CE2	2.52	0.90
79:s2:1748:G:H1	79:s2:1786:U:H3	1.11	0.90
54:Li:2:ALA:N	54:Li:5:TYR:HH	1.69	0.90
79:s2:1729:U:H3	79:s2:1805:G:H1	1.13	0.90
88:CF:244:LYS:NZ	88:CF:417:ASP:OD2	2.03	0.90
13:sV:29:HIS:ND1	15:sC:87:PRO:HB3	1.87	0.90
80:cB:13:MET:CE	80:cB:464:VAL:HG13	2.01	0.90
80:cB:672:LEU:HD21	80:cB:707:VAL:HG21	1.54	0.90
56:lk:6:GLU:OE2	56:lk:6:GLU:N	2.04	0.90
59:ln:17:ARG:HA	59:ln:20:MET:SD	2.11	0.90
64:sR:29:HIS:HA	64:sR:32:LYS:HD2	1.52	0.90
79:s2:925:G:H1	79:s2:1017:U:H3	1.19	0.90
85:L5:4139:G:H21	85:L5:4140:C:H41	1.18	0.90
80:cB:13:MET:HE1	80:cB:464:VAL:CG2	2.02	0.89
6:sG:64:LYS:HZ1	6:sG:82:SER:CA	1.85	0.89
67:SK:47:LYS:HZ1	79:S2:1274:G:H4'	1.37	0.89
85:L5:4907:G:N2	85:L5:4914:C:O2	2.04	0.89
49:Ld:54:MET:HE1	49:Ld:60:PRO:CA	2.03	0.89
70:SS:44:VAL:HG21	70:SS:71:MET:HG2	1.55	0.89
71:ST:88:MET:HE3	71:ST:89:PRO:HD2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:SU:37:ALA:CB	72:SU:41:ARG:HH12	1.85	0.89
75:Sg:70:VAL:HG13	75:Sg:113:PHE:CE1	2.08	0.89
85:L5:1819:G:C6	25:LD:113:PHE:CE2	2.60	0.89
52:Lg:85:LYS:HA	52:Lg:88:ARG:HE	1.37	0.89
15:sC:252:THR:C	15:sC:256:TRP:CZ3	2.50	0.89
85:l5:1095:A:H2	85:l5:1200:G:N1	1.71	0.89
34:lN:125:SER:HB3	85:l5:3937:C:H1'	1.55	0.89
69:sQ:109:LYS:O	69:sQ:109:LYS:HD3	1.72	0.89
84:Lt:82:ILE:HD12	84:Lt:137:GLN:HB3	1.55	0.89
85:L5:2748:C:C5'	52:Lg:65:MET:HE1	2.02	0.88
47:Lb:55:LYS:NZ	47:Lb:58:GLN:NE2	2.21	0.88
50:le:5:ARG:NH2	85:l5:454:U:H1'	1.88	0.88
49:Ld:29:ILE:CD1	49:Ld:84:ILE:HD12	2.03	0.88
82:pE:26:A:N6	82:pE:44:G:H1	1.71	0.88
85:l5:1100:U:H3	85:l5:1194:G:H1	1.17	0.88
39:LS:130:GLU:N	39:LS:130:GLU:OE2	2.06	0.88
15:sC:121:ARG:CZ	15:sC:123:ARG:HD2	2.03	0.88
31:lJ:121:PRO:HD3	70:sS:101:ASN:HD21	1.38	0.88
88:CF:410:MET:SD	88:CF:411:CYS:N	2.47	0.88
85:L5:1819:G:C4	25:LD:113:PHE:CE2	2.62	0.88
72:SU:37:ALA:C	72:SU:41:ARG:HH12	1.79	0.88
73:sc:49:PRO:O	73:sc:51:ARG:NH1	2.07	0.88
10:SA:185:MET:HE3	10:SA:185:MET:O	1.74	0.88
31:LJ:20:LEU:HD23	31:LJ:20:LEU:O	1.73	0.88
80:cB:7:ASP:OD1	80:cB:462:GLU:OE2	1.92	0.87
83:ls:74:ALA:CA	83:ls:77:LYS:HZ3	1.88	0.87
68:SP:86:LEU:HD12	68:SP:87:PRO:HD2	1.55	0.87
79:S2:528:A:H2'	79:S2:529:A:H8	1.39	0.87
73:sc:44:ARG:HH21	73:sc:58:LEU:HD11	1.39	0.87
85:L5:25:A:H61	85:L5:58:G:H1	1.19	0.87
24:lC:13:GLU:OE1	24:lC:157:LYS:CD	2.21	0.87
57:ll:28:ARG:HA	57:ll:33:ASN:ND2	1.89	0.87
85:l5:2486:G:N7	85:l5:2493:G:N1	2.21	0.87
12:SH:157:HIS:ND1	12:SH:190:PRO:CG	2.37	0.87
46:La:134:GLU:OE2	46:La:144:CYS:SG	2.31	0.87
79:S2:1729:U:H3	79:S2:1805:G:H1	1.16	0.87
85:l5:1762:C:N4	85:l5:1770:A:C2	2.42	0.87
75:Sg:217:MET:SD	75:Sg:219:TRP:CZ2	2.66	0.87
14:sa:46:GLU:HB2	17:sO:113:GLN:HE21	1.37	0.87
8:SY:20:ARG:HD2	8:SY:74:MET:CE	2.04	0.87
11:SB:30:TRP:CZ3	17:SO:19:PRO:N	2.42	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:sQ:111:ILE:HA	69:sQ:114:GLN:HE22	1.38	0.87
6:sG:64:LYS:HD3	6:sG:83:CYS:SG	2.15	0.87
25:lD:196:ARG:HH21	25:lD:200:MET:CE	1.88	0.87
72:sU:48:LEU:HD11	72:sU:93:SER:CB	2.03	0.87
88:CF:375:LEU:HB3	88:CF:391:PRO:HD2	1.53	0.87
80:cB:43:ALA:HA	80:cB:79:TYR:CE1	2.09	0.87
83:ls:38:LYS:NZ	85:l5:1971:C:O2'	2.08	0.87
31:LJ:159:LYS:O	31:LJ:163:MET:HG2	1.75	0.87
11:sB:151:ARG:HB3	64:sR:133:GLY:H	1.39	0.86
69:sQ:133:GLY:N	69:sQ:140:ARG:NH2	2.22	0.86
85:L5:2557:G:H1	85:L5:2570:U:H3	1.22	0.86
27:LF:216:PRO:N	27:LF:247:MET:HE1	1.90	0.86
44:lY:30:MET:HE3	44:lY:78:TYR:HA	1.57	0.86
80:cB:734:LEU:HD22	80:cB:851:LEU:HD13	1.57	0.86
70:sS:67:VAL:O	70:sS:71:MET:HE3	1.75	0.86
12:SH:157:HIS:CE1	12:SH:190:PRO:CG	2.57	0.86
65:SD:157:MET:CA	65:SD:189:MET:CE	2.50	0.86
77:SZ:70:PRO:CD	77:SZ:71:ALA:N	2.38	0.86
79:s2:464:A:N6	80:cB:48:SER:OG	2.08	0.86
85:l5:1414:C:H2'	85:l5:1415:G:H8	1.38	0.86
67:SK:25:LYS:HZ1	67:SK:65:ARG:CA	1.88	0.86
34:lN:36:LEU:HD12	34:lN:64:ILE:HD11	1.57	0.86
69:sQ:133:GLY:HA3	69:sQ:140:ARG:NH2	1.90	0.86
80:cB:43:ALA:HB2	80:cB:79:TYR:HE1	1.40	0.86
85:l5:1402:C:O2	85:l5:1415:G:N2	2.06	0.86
10:SA:22:GLY:O	10:SA:24:HIS:ND1	2.07	0.86
31:LJ:96:LYS:HD2	31:LJ:175:LEU:CD1	2.06	0.86
11:sB:145:LYS:HG3	64:sR:134:PRO:HA	1.56	0.86
64:sR:43:SER:HB2	79:s2:1387:G:H5"	1.56	0.86
85:L5:2845:A:N6	85:L5:3843:C:H42	1.71	0.86
87:AT:51:U:H3	87:AT:65:G:H1	0.87	0.86
1:cH:96:ALA:HB2	1:cH:106:ILE:HD12	1.57	0.86
85:L5:1269:G:N2	85:L5:1441:C:O2	2.09	0.86
71:sT:88:MET:HE1	79:s2:1665:G:C5	2.10	0.86
88:CF:93:PRO:HD2	88:CF:102:MET:CG	2.04	0.86
84:Lt:56:LEU:O	84:Lt:56:LEU:HD23	1.75	0.86
13:SV:22:ARG:HE	13:SV:23:ILE:H	0.86	0.86
14:Sa:58:VAL:HG12	17:SO:125:LYS:HE2	1.56	0.86
85:l5:1072:C:O2	85:l5:1240:G:N2	2.08	0.85
13:sV:51:LYS:NZ	13:sV:76:ASP:OD1	2.08	0.85
8:SY:20:ARG:CD	8:SY:74:MET:HE1	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:SV:22:ARG:HH22	13:SV:23:ILE:HD12	1.39	0.85
88:CF:375:LEU:HB3	88:CF:391:PRO:CD	2.07	0.85
67:sK:28:HIS:HB2	74:sd:8:TRP:HE1	1.40	0.85
34:LN:123:GLU:HG3	34:LN:124:ASP:H	1.40	0.85
38:LR:92:LYS:C	38:LR:96:MET:HE3	2.01	0.85
80:cB:605:LYS:HD2	80:cB:705:HIS:NE2	1.91	0.85
80:cB:824:PRO:HD2	80:cB:825:PHE:H	1.39	0.85
10:SA:42:LYS:CD	10:SA:43:SER:H	1.89	0.85
51:lf:11:PHE:HB2	51:lf:101:ILE:HD11	1.59	0.85
6:sG:64:LYS:NZ	6:sG:82:SER:CA	2.39	0.85
58:lm:88:LYS:HE2	58:lm:89:TYR:CE1	2.12	0.85
74:sd:12:ARG:NH2	79:s2:1513:C:OP1	2.09	0.85
85:L5:3967:G:H1	85:L5:4055:U:H3	0.85	0.85
72:SU:35:VAL:HG22	72:SU:107:GLU:HG2	1.57	0.85
85:L5:493:G:N1	85:L5:660:A:C2	2.44	0.85
85:L5:1072:C:O2	85:L5:1240:G:N2	2.09	0.85
57:ll:28:ARG:HA	57:ll:33:ASN:HD21	1.40	0.85
2:SE:214:ASN:ND2	2:SE:216:ASN:OD1	2.10	0.85
67:sK:86:PRO:O	67:sK:86:PRO:CD	2.25	0.84
77:sZ:98:LYS:NZ	77:sZ:111:ARG:O	2.10	0.84
10:SA:81:ASN:HA	10:SA:84:GLN:HE22	1.42	0.84
13:SV:22:ARG:NH2	13:SV:23:ILE:CD1	2.39	0.84
36:LP:126:ARG:HB2	36:LP:140:MET:HE1	1.58	0.84
37:LQ:76:GLU:OE2	37:LQ:76:GLU:N	2.09	0.84
64:SR:21:TYR:OH	64:SR:61:ILE:HD12	1.76	0.84
1:cH:81:ILE:HD11	1:cH:132:LEU:HD13	1.59	0.84
10:sA:169:HIS:HD1	10:sA:203:PHE:HE2	1.21	0.84
37:lQ:50:ARG:HA	37:lQ:53:MET:HE3	1.58	0.84
11:SB:107:ARG:NH1	17:SO:133:THR:O	2.09	0.84
11:sB:151:ARG:H	64:sR:133:GLY:H	1.24	0.84
75:sg:129:ILE:HD12	75:sg:154:VAL:HG11	1.60	0.84
73:Sc:13:ARG:HB2	73:Sc:35:MET:HE3	1.59	0.84
7:sJ:30:LYS:HG3	9:se:42:PHE:CE2	2.10	0.84
84:lt:64:ILE:HB	84:lt:71:ILE:CG2	2.07	0.84
64:sR:5:ARG:HG2	64:sR:9:VAL:CG2	2.07	0.84
76:sM:59:PRO:HD2	76:sM:60:MET:SD	2.17	0.84
36:lP:39:MET:HE3	36:lP:44:ALA:HA	1.58	0.84
85:L5:1402:C:N3	85:L5:1415:G:N1	2.24	0.84
80:cB:580:ARG:HG3	80:cB:817:TRP:CE3	2.12	0.84
86:LW:8:PHE:CD2	86:LW:46:PRO:HB3	2.11	0.84
35:LO:29:LEU:HB3	51:Lf:10:ILE:HG21	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1461:G:H3'	79:S2:1463:U:H3	1.42	0.84
79:S2:1550:G:H3'	79:S2:1579:A:H61	1.42	0.84
22:lA:108:PRO:HG2	61:lp:86:LEU:HD21	1.59	0.84
69:sQ:109:LYS:HD3	69:sQ:109:LYS:C	2.03	0.84
76:SM:62:VAL:O	76:SM:66:GLU:OE2	1.94	0.84
67:SK:25:LYS:CE	67:SK:65:ARG:CA	2.54	0.84
8:sY:19:GLN:NE2	8:sY:81:TYR:CD1	2.44	0.84
85:l5:4098:A:H2'	85:l5:4099:G:H4'	1.58	0.84
18:SW:111:MET:HE2	18:SW:116:ALA:N	1.92	0.84
28:LG:131:LYS:O	28:LG:131:LYS:CD	2.26	0.84
71:ST:22:LEU:HD21	71:ST:28:LEU:HD11	1.59	0.84
17:sO:113:GLN:OE1	17:sO:113:GLN:HA	1.76	0.83
22:LA:140:ASN:HB2	22:LA:142:GLU:OE1	1.79	0.83
53:Lh:44:LEU:O	53:Lh:47:ILE:HG12	1.78	0.83
70:SS:23:ARG:HD3	77:SZ:48:VAL:HG22	1.60	0.83
14:sa:53:ILE:HD13	17:sO:120:ALA:HB2	1.60	0.83
65:sD:54:ARG:HD3	65:sD:57:ASN:OD1	1.78	0.83
8:SY:52:PRO:CG	8:SY:52:PRO:CD	0.84	0.83
23:lB:286:LYS:HB2	23:lB:332:MET:HE2	1.60	0.83
58:lm:106:ARG:NH2	85:l5:4696:C:O4'	2.08	0.83
66:sF:33:ILE:HA	66:sF:36:GLN:HG2	1.58	0.83
66:sF:40:ALA:C	66:sF:45:TYR:HE1	1.85	0.83
80:cB:43:ALA:HB2	80:cB:79:TYR:CE1	2.13	0.83
85:L5:1207:C:H2'	85:L5:1208:G:H8	1.42	0.83
67:SK:47:LYS:HD2	67:SK:50:GLN:HE21	1.43	0.83
85:L5:1972:G:N2	85:L5:1994:C:O2	2.10	0.83
42:LV:45:ILE:CD1	42:LV:53:PRO:HB3	2.08	0.83
67:SK:61:GLN:NE2	67:SK:70:TYR:OH	2.12	0.83
64:sR:32:LYS:N	79:s2:1455:A:OP1	2.08	0.83
65:sD:218:LEU:CD2	75:sg:189:ILE:HD12	2.09	0.83
10:sA:14:ASP:OD1	10:sA:177:MET:SD	2.36	0.83
18:sW:2:VAL:HG22	18:sW:3:ARG:H	1.43	0.83
66:sF:155:CYS:SG	66:sF:159:ARG:NH2	2.51	0.83
76:sM:91:LEU:O	76:sM:91:LEU:HG	1.78	0.83
11:SB:179:ASN:ND2	11:SB:183:GLU:OE2	2.11	0.83
75:Sg:20:GLN:HG2	75:Sg:69:VAL:H	1.44	0.83
23:lB:63:PRO:HA	23:lB:68:ASN:HD21	1.44	0.83
78:sf:103:LEU:HD12	78:sf:104:LYS:N	1.94	0.83
8:SY:19:GLN:HG3	8:SY:81:TYR:CE1	2.13	0.83
17:SO:52:THR:HG21	79:S2:952:G:H21	1.44	0.83
17:sO:143:LYS:HB2	79:s2:1047:C:H5'	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:sP:28:MET:HE2	68:sP:33:LEU:CD1	2.09	0.82
79:s2:1374:C:O2'	79:s2:1464:C:O2'	1.97	0.82
2:SE:136:ILE:HB	2:SE:149:TYR:HE1	1.44	0.82
11:SB:229:MET:SD	11:SB:230:GLU:N	2.52	0.82
38:LR:92:LYS:O	38:LR:96:MET:HE3	1.78	0.82
7:sJ:80:ARG:NH2	79:s2:818:A:OP1	2.12	0.82
9:se:51:LYS:HZ1	65:sD:117:ARG:HH22	1.25	0.82
10:sA:147:LEU:HD21	10:sA:174:MET:SD	2.20	0.82
46:la:26:ARG:NH2	85:l5:1656:U:OP2	2.12	0.82
68:sP:111:MET:HE2	70:sS:117:ILE:HD11	1.59	0.82
36:LP:36:ILE:O	36:LP:39:MET:HE3	1.79	0.82
66:SF:73:THR:HA	66:SF:76:MET:HG2	1.61	0.82
8:sY:10:ARG:HA	79:s2:839:C:H41	1.42	0.82
36:lP:32:THR:O	36:lP:36:ILE:HG23	1.79	0.82
75:sg:11:LEU:HB3	75:sg:43:TRP:HZ3	1.42	0.82
6:SG:50:VAL:HG21	6:SG:111:LEU:HD13	1.59	0.82
11:SB:30:TRP:CH2	17:SO:18:GLY:C	2.57	0.82
8:sY:36:PRO:HG3	79:s2:570:C:H4'	1.61	0.82
51:lf:33:VAL:HG23	51:lf:38:GLU:HB2	1.62	0.82
75:sg:223:GLU:OE1	75:sg:225:LYS:HG3	1.79	0.82
4:SL:82:MET:HE3	4:SL:85:THR:OG1	1.79	0.82
85:L5:1972:G:N1	85:L5:1994:C:N3	2.27	0.82
32:LL:172:GLU:OE2	54:Li:2:ALA:HA	1.79	0.82
34:LN:124:ASP:HB3	34:LN:127:TYR:H	1.45	0.82
63:Lz:160:LYS:HG2	63:Lz:165:LEU:HD13	1.59	0.82
1:cH:85:ARG:HH22	79:s2:1321:G:H5'	1.45	0.82
2:sE:72:ILE:HG13	2:sE:90:ILE:HG22	1.58	0.82
23:lB:2:SER:N	85:l5:4517:A:N7	2.27	0.82
80:cB:734:LEU:HD22	80:cB:851:LEU:CD1	2.09	0.82
18:SW:42:MET:HE2	18:SW:50:PHE:HE2	1.43	0.82
19:Sb:42:LYS:CE	19:Sb:56:CYS:HB2	2.10	0.82
85:L5:1812:C:H1'	47:Lb:57:MET:HE1	1.60	0.82
23:lB:300:LYS:HZ1	23:lB:309:LEU:HA	1.42	0.82
64:sR:5:ARG:HG2	64:sR:9:VAL:HG21	1.59	0.82
80:cB:824:PRO:CD	80:cB:825:PHE:H	1.91	0.82
14:Sa:58:VAL:HG12	17:SO:125:LYS:CE	2.09	0.82
85:L5:2520:C:O2	85:L5:2640:G:N2	2.12	0.82
25:LD:209:ARG:HA	25:LD:212:MET:HG2	1.61	0.82
28:LG:230:TYR:HA	28:LG:233:ILE:HG22	1.61	0.82
72:sU:48:LEU:CD1	72:sU:93:SER:OG	2.27	0.82
10:SA:37:TYR:CD2	10:SA:162:PRO:HG3	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:LI:61:SER:O	30:LI:65:LEU:HD22	1.80	0.82
25:lD:126:THR:HG23	25:lD:128:ASP:OD1	1.80	0.82
88:CF:108:GLN:HA	88:CF:266:ARG:HD2	1.60	0.82
63:Lz:174:MET:SD	63:Lz:175:THR:N	2.52	0.82
2:sE:152:PRO:HG2	6:sG:216:ARG:HG2	1.59	0.82
15:sC:102:LEU:HD11	15:sC:131:GLY:HA2	1.60	0.82
31:lJ:121:PRO:CD	70:sS:101:ASN:HD21	1.93	0.82
64:sR:27:ASP:HB2	64:sR:55:THR:HG21	1.61	0.82
67:SK:49:MET:CE	67:SK:69:TRP:CZ2	2.61	0.82
64:sR:126:MET:CE	64:sR:129:LYS:CD	2.58	0.82
85:l5:1402:C:N3	85:l5:1415:G:N1	2.28	0.82
41:LU:46:ARG:O	41:LU:47:ILE:HD13	1.80	0.82
35:LO:118:MET:HE2	35:LO:118:MET:H	1.44	0.81
67:SK:25:LYS:HE3	67:SK:65:ARG:C	2.04	0.81
79:s2:1488:C:O2'	79:s2:1490:G:OP2	1.97	0.81
45:lZ:99:ASP:HB2	45:lZ:102:ARG:NH2	1.94	0.81
69:sQ:42:ILE:HG22	69:sQ:43:GLU:H	1.43	0.81
80:cB:42:LYS:HD2	80:cB:79:TYR:OH	1.81	0.81
2:SE:87:MET:HE1	2:SE:100:ARG:NH1	1.94	0.81
85:L5:2333:G:H5"	24:LC:195:LYS:HE3	1.63	0.81
30:LI:48:LEU:HD22	30:LI:141:LYS:O	1.79	0.81
78:sf:106:TYR:CA	78:sf:117:LEU:HD11	2.09	0.81
10:SA:39:TYR:CB	64:SR:105:MET:CE	2.52	0.81
85:L5:1414:C:H2'	85:L5:1415:G:H8	1.45	0.81
85:L5:5041:G:C5	23:LB:389:MET:HE1	2.15	0.81
60:Lo:104:ILE:HD12	60:Lo:105:GLN:HB3	1.63	0.81
75:Sg:217:MET:SD	75:Sg:219:TRP:HZ2	2.01	0.81
75:sg:77:PHE:HB3	75:sg:89:LEU:HD11	1.63	0.81
77:sZ:46:ASN:O	77:sZ:47:LEU:CD1	2.27	0.81
79:S2:116:U:H3	79:S2:347:G:H1	0.83	0.81
10:sA:27:GLY:H	10:sA:46:ILE:HG23	1.45	0.81
15:sC:253:PRO:CA	15:sC:256:TRP:CE3	2.63	0.81
72:sU:94:PRO:O	72:sU:94:PRO:HD2	1.78	0.81
25:LD:52:ILE:HD13	25:LD:147:ASP:HB3	1.61	0.81
38:LR:173:ARG:HG2	79:S2:909:G:H3'	1.61	0.81
43:LX:82:THR:HA	43:LX:87:MET:CE	2.10	0.81
66:SF:130:ARG:H	66:SF:136:ARG:HH21	1.28	0.81
88:CF:9:ASN:HB2	88:CF:109:ALA:HA	1.61	0.81
45:lZ:49:TYR:CD2	45:lZ:133:LYS:HB2	2.16	0.81
85:L5:493:G:O6	85:L5:660:A:N1	2.12	0.81
75:Sg:7:LEU:HD11	75:Sg:308:ARG:HB2	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:lY:50:ARG:NH2	44:lY:112:ASP:OD2	2.14	0.81
64:sR:53:TYR:H	79:s2:1466:G:H5"	1.43	0.81
80:cB:385:ILE:CD1	80:cB:395:MET:HG3	2.11	0.81
28:LG:173:LEU:HA	54:Li:43:MET:HE3	1.61	0.81
73:Sc:13:ARG:HB2	73:Sc:35:MET:CE	2.11	0.81
83:Ls:143:ILE:HD11	83:Ls:158:VAL:HG12	1.62	0.81
64:sR:126:MET:SD	79:s2:1109:C:O2	2.39	0.81
66:sF:84:GLY:O	79:s2:1673:U:O2'	1.98	0.81
85:l5:1992:U:H4'	85:l5:1993:C:H5"	1.63	0.81
13:SV:22:ARG:HH21	13:SV:23:ILE:HD12	1.39	0.81
85:L5:1095:A:N1	85:L5:1200:G:O6	2.14	0.81
85:L5:4474:A:H5"	58:Lm:125:LYS:HG3	1.63	0.80
72:SU:37:ALA:HB1	72:SU:41:ARG:HH12	1.44	0.80
85:l5:4887:C:H42	85:l5:4932:U:H3	1.27	0.80
85:L5:494:U:H3	85:L5:659:G:H1	1.29	0.80
38:LR:173:ARG:HD3	79:S2:910:G:C8	2.16	0.80
8:sY:110:ARG:HD2	8:sY:114:MET:CE	2.03	0.80
85:L5:1306:C:H2'	85:L5:1307:A:H8	1.46	0.80
85:L5:2353:U:H2'	85:L5:2354:G:H8	1.46	0.80
38:lR:46:LYS:NZ	85:l5:2706:G:O6	2.15	0.80
72:SU:68:THR:HG1	79:S2:1337:C:HO2'	1.27	0.80
16:sN:90:HIS:HD2	79:s2:926:A:H5"	1.46	0.80
38:lR:71:ARG:HH22	85:l5:3604:A:C5'	1.95	0.80
75:sg:306:LEU:HD11	75:sg:308:ARG:HH21	1.46	0.80
27:LF:74:MET:SD	27:LF:74:MET:N	2.55	0.80
71:sT:108:GLU:OE1	71:sT:113:VAL:O	2.00	0.80
78:sf:93:HIS:NE2	79:s2:1305:C:OP1	2.13	0.80
29:LH:128:MET:SD	29:LH:128:MET:N	2.49	0.80
30:LI:43:VAL:HG11	30:LI:192:PRO:HB3	1.64	0.80
75:Sg:188:HIS:NE2	75:Sg:219:TRP:CD1	2.50	0.80
17:sO:117:ARG:NH1	73:sc:62:GLU:HB2	1.97	0.80
85:L5:186:G:N3	85:L5:1366:G:N2	2.29	0.80
85:L5:3963:A:H3'	85:L5:3965:A:H5'	1.62	0.80
21:L8:19:C:H2'	21:L8:20:A:H8	1.45	0.80
31:LJ:163:MET:CE	31:LJ:174:ILE:HG21	2.11	0.80
69:sQ:43:GLU:HG3	69:sQ:44:PRO:HD2	1.63	0.80
75:sg:14:HIS:HD2	75:sg:41:ILE:HD13	1.46	0.80
29:lH:92:MET:HG3	29:lH:181:VAL:HA	1.64	0.80
77:sZ:98:LYS:HG3	77:sZ:110:THR:CG2	2.12	0.80
85:l5:1176:C:N3	85:l5:1184:A:N1	2.30	0.80
85:L5:2416:G:N2	85:L5:2427:G:O6	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:LA:96:LEU:HD21	22:LA:107:MET:HG2	1.63	0.80
31:LJ:87:LEU:HD21	31:LJ:170:TYR:HE1	1.47	0.80
47:Lb:55:LYS:CE	47:Lb:58:GLN:HE21	1.94	0.80
14:sa:4:LYS:HD3	14:sa:5:ARG:HH21	1.46	0.80
29:lH:63:ASN:OD1	29:lH:66:GLU:OE1	1.99	0.80
41:lU:91:LEU:HD22	41:lU:96:LEU:HB2	1.62	0.80
71:sT:12:GLN:NE2	79:s2:1593:C:O2	2.15	0.80
80:cB:13:MET:HE2	80:cB:465:PRO:HD2	1.64	0.80
85:l5:4773:C:O2	85:l5:4861:G:N2	2.12	0.80
27:LF:70:ARG:O	27:LF:74:MET:HE1	1.82	0.80
31:LJ:87:LEU:HD11	31:LJ:170:TYR:CD1	2.17	0.80
19:sb:22:LYS:NZ	79:s2:1129:G:OP1	2.14	0.79
80:cB:5:THR:O	80:cB:8:GLN:NE2	2.14	0.79
85:l5:2520:C:O2	85:l5:2640:G:N2	2.14	0.79
9:Se:34:ARG:NH2	79:S2:642:U:OP2	2.15	0.79
25:lD:196:ARG:HH21	25:lD:200:MET:HE1	1.47	0.79
85:L5:3848:U:H2'	85:L5:3849:A:H8	1.46	0.79
25:LD:208:MET:CE	25:LD:219:TYR:HE1	1.90	0.79
12:sH:145:ARG:HB3	12:sH:153:LEU:HG	1.64	0.79
85:l5:181:C:H3'	85:l5:182:G:H8	1.46	0.79
85:l5:1401:C:N3	85:l5:1416:G:N1	2.30	0.79
11:SB:30:TRP:CH2	17:SO:18:GLY:CA	2.64	0.79
85:L5:3754:G:H1	85:L5:3770:U:H3	0.80	0.79
85:L5:4754:G:OP1	51:Lf:4:ARG:NH1	2.15	0.79
31:LJ:169:LYS:NZ	31:LJ:170:TYR:CE2	2.49	0.79
65:SD:143:ARG:HH21	79:S2:607:U:H2'	1.46	0.79
14:sa:22:ARG:HD3	17:sO:142:ARG:HG3	1.65	0.79
86:LW:50:ASN:C	86:LW:55:TYR:OH	2.25	0.79
4:SL:5:GLN:HE22	4:SL:11:GLN:H	1.30	0.79
16:SN:4:MET:HE1	79:S2:1024:A:OP2	1.82	0.79
75:sg:129:ILE:CD1	75:sg:154:VAL:HG11	2.12	0.79
86:LW:101:ARG:HH22	6:SG:147:LEU:HA	1.47	0.79
85:L5:513:U:H1'	85:L5:516:C:H41	1.48	0.79
29:LH:92:MET:SD	29:LH:180:TYR:C	2.66	0.79
75:Sg:188:HIS:CD2	75:Sg:219:TRP:CE2	2.71	0.79
6:sG:28:TYR:HB3	6:sG:29:GLU:OE2	1.83	0.79
24:lC:13:GLU:OE2	24:lC:157:LYS:CE	2.29	0.79
69:sQ:142:GLN:NE2	79:s2:1527:C:OP1	2.16	0.79
85:l5:1994:C:H2'	85:l5:1995:G:H8	1.44	0.79
8:SY:42:GLU:HA	8:SY:52:PRO:HG3	1.64	0.79
11:SB:30:TRP:HH2	17:SO:18:GLY:CA	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3968:U:O4	85:L5:4053:A:O2'	1.99	0.79
32:LL:8:MET:HE1	37:LQ:168:ARG:HA	1.62	0.79
56:lk:47:ILE:HD11	56:lk:53:ALA:HB2	1.65	0.79
37:lQ:94:GLU:OE2	37:lQ:94:GLU:N	2.13	0.79
65:sD:194:PRO:CD	65:sD:194:PRO:C	2.38	0.79
85:l5:4139:G:H21	85:l5:4140:C:H41	1.29	0.79
6:SG:8:PRO:CD	6:SG:9:ALA:H	1.92	0.79
11:SB:197:ILE:HG21	11:SB:210:VAL:HG21	1.65	0.79
20:L7:114:U:H4'	25:LD:73:MET:HE1	1.62	0.79
45:LZ:81:MET:HE2	45:LZ:81:MET:HA	1.63	0.79
79:S2:1756:C:OP2	79:S2:1757:G:N2	2.16	0.79
4:sL:7:GLU:HB2	4:sL:11:GLN:HE22	1.48	0.79
11:sB:68:GLU:OE1	11:sB:83:LYS:HD3	1.83	0.79
80:cB:649:ILE:HA	80:cB:663:THR:HG22	1.63	0.79
8:SY:20:ARG:CB	8:SY:74:MET:HE1	2.13	0.79
18:SW:42:MET:HE1	18:SW:50:PHE:HD2	1.47	0.79
85:L5:493:G:N1	85:L5:660:A:H2	1.80	0.79
32:LL:107:THR:HA	32:LL:110:LEU:HD12	1.64	0.79
80:cB:8:GLN:HE22	80:cB:45:ILE:HD11	1.48	0.79
68:SP:108:LYS:HG3	68:SP:110:GLU:H	1.48	0.79
82:Et:8:U:H5'	82:Et:49:C:H5'	1.65	0.79
13:sV:71:ARG:HE	19:sb:4:ALA:HB3	1.48	0.78
37:lQ:104:ARG:NH2	85:l5:1353:G:N7	2.31	0.78
82:pE:41:U:H2'	82:pE:42:G:H8	1.47	0.78
30:LI:206:LEU:CD2	30:LI:210:ARG:NH2	2.46	0.78
75:Sg:109:LEU:HD23	75:Sg:124:SER:C	2.06	0.78
75:Sg:237:ASN:HD21	75:Sg:287:THR:HA	1.48	0.78
76:SM:52:LEU:HD12	76:SM:76:LEU:CD1	2.12	0.78
3:sI:161:LEU:CD2	3:sI:195:LEU:CD1	2.61	0.78
12:sH:57:ARG:NH1	12:sH:57:ARG:HA	1.98	0.78
65:sD:194:PRO:C	65:sD:194:PRO:HD2	1.96	0.78
76:sM:91:LEU:HD21	76:sM:104:VAL:O	1.82	0.78
85:L5:1072:C:N3	85:L5:1240:G:N1	2.27	0.78
66:SF:48:TYR:CD1	69:SQ:49:TYR:CD2	2.71	0.78
12:sH:69:LEU:HD13	12:sH:96:ALA:HB2	1.65	0.78
64:sR:18:GLU:HG2	64:sR:68:GLY:HA2	1.65	0.78
80:cB:260:LEU:O	80:cB:288:THR:OG1	2.01	0.78
11:SB:124:HIS:HE2	79:S2:940:U:HO2'	1.28	0.78
41:LU:28:PRO:HB3	41:LU:33:ILE:HD11	1.63	0.78
45:lZ:46:ILE:HD13	45:lZ:118:PHE:CD2	2.13	0.78
86:LW:52:THR:OG1	86:LW:55:TYR:CD1	2.37	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:308:G:OP2	85:L5:308:G:N2	2.16	0.78
32:LL:172:GLU:CD	54:Li:2:ALA:HA	2.07	0.78
34:LN:51:LEU:HD13	34:LN:117:ASN:ND2	1.98	0.78
39:LS:130:GLU:HG2	39:LS:132:ILE:CD1	2.12	0.78
62:Lr:66:ARG:NH1	62:Lr:75:THR:O	2.16	0.78
79:S2:149:A:H3'	79:S2:150:A:H8	1.48	0.78
79:S2:1737:G:H1	79:S2:1797:U:H3	1.30	0.78
31:lJ:56:THR:HG23	31:lJ:63:ARG:HA	1.65	0.78
79:s2:878:G:H1	79:s2:908:A:H61	0.83	0.78
29:LH:92:MET:SD	29:LH:179:ILE:HG22	2.23	0.78
77:SZ:41:ARG:HH12	77:SZ:44:LEU:HD22	1.46	0.78
3:sI:161:LEU:CD2	3:sI:195:LEU:HD12	2.13	0.78
66:sF:40:ALA:O	66:sF:45:TYR:CE1	2.37	0.78
80:cB:43:ALA:CA	80:cB:79:TYR:CE1	2.67	0.78
47:Lb:55:LYS:HE2	47:Lb:58:GLN:NE2	1.99	0.78
66:SF:48:TYR:CD1	69:SQ:49:TYR:HD2	2.01	0.78
68:SP:77:LYS:HG3	79:S2:1298:G:H5'	1.64	0.78
72:SU:37:ALA:HB1	72:SU:41:ARG:NH1	1.99	0.78
79:S2:1204:A:N6	79:S2:1693:G:N1	2.31	0.78
1:cH:58:THR:HA	1:cH:61:LEU:HB2	1.64	0.78
10:sA:195:TRP:NE1	10:sA:197:VAL:HG23	1.98	0.78
64:sR:28:PHE:N	79:s2:1455:A:O5'	2.17	0.78
80:cB:369:CYS:HA	80:cB:372:LEU:HB2	1.66	0.78
85:L5:1505:C:H2'	85:L5:1506:G:H8	1.49	0.78
67:SK:47:LYS:HZ1	79:S2:1274:G:C4'	1.94	0.78
75:Sg:219:TRP:CD1	75:Sg:226:HIS:HD1	2.01	0.78
77:SZ:70:PRO:HD2	77:SZ:71:ALA:N	1.92	0.78
40:lT:2:THR:OG1	85:l5:4220:A:OP2	2.02	0.78
77:sZ:98:LYS:HG3	77:sZ:110:THR:HG23	1.64	0.78
29:lH:120:GLU:OE1	85:l5:4612:C:H1'	1.83	0.78
69:sQ:133:GLY:H	69:sQ:140:ARG:NH2	1.81	0.78
71:sT:143:LYS:HD3	71:sT:144:LYS:HG2	1.64	0.78
75:sg:168:CYS:SG	75:sg:195:LEU:HB3	2.23	0.78
85:L5:3708:C:O2	85:L5:3742:G:N2	2.13	0.78
25:LD:52:ILE:HD13	25:LD:147:ASP:CB	2.14	0.78
45:LZ:81:MET:HE1	48:Lc:63:TYR:HE1	1.48	0.78
49:Ld:29:ILE:CD1	49:Ld:84:ILE:CD1	2.62	0.78
79:S2:1756:C:N4	79:S2:1775:U:O4	2.16	0.78
19:sb:11:SER:OG	19:sb:13:GLU:OE2	2.01	0.78
82:pE:6:G:H1	82:pE:67:U:H3	1.31	0.78
85:l5:3708:C:O2	85:l5:3742:G:N2	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3967:G:N2	85:L5:4055:U:O2	2.17	0.78
10:sA:38:ILE:HD11	10:sA:150:THR:HG22	1.67	0.77
12:sH:144:ILE:O	12:sH:145:ARG:NH1	2.17	0.77
64:sR:126:MET:HG2	64:sR:129:LYS:HD3	1.64	0.77
15:SC:137:VAL:CG1	15:SC:217:ALA:HA	2.13	0.77
19:Sb:33:MET:HE2	19:Sb:46:VAL:CG2	2.14	0.77
85:L5:1994:C:H4'	84:Lt:131:GLU:HG3	1.66	0.77
23:LB:285:TYR:CB	23:LB:332:MET:HE3	2.14	0.77
7:sJ:177:ASN:HA	7:sJ:180:LYS:HE3	1.66	0.77
30:lI:139:ARG:NH1	30:lI:195:CYS:SG	2.57	0.77
85:L5:1444:G:H1	85:L5:2104:G:H21	1.30	0.77
36:LP:50:ASP:HB3	36:LP:55:LYS:HB2	1.66	0.77
87:AT:12:G:H22	87:AT:23:U:H3	1.30	0.77
86:LW:9:SER:HA	86:LW:52:THR:HA	1.65	0.77
8:SY:20:ARG:CG	8:SY:74:MET:HE1	2.15	0.77
85:L5:1079:C:O2	85:L5:1221:G:N2	2.17	0.77
3:sI:192:GLY:HA3	4:sL:19:ASN:HD21	1.48	0.77
23:lB:54:THR:HG22	23:lB:373:LYS:HE3	1.67	0.77
85:L5:1819:G:C2	25:LD:113:PHE:CD2	2.73	0.77
26:LE:47:ASN:HB2	26:LE:62:MET:HE1	1.66	0.77
27:LF:187:MET:HA	27:LF:187:MET:HE3	1.66	0.77
68:SP:130:ARG:HE	68:SP:131:PRO:HD2	1.50	0.77
79:S2:588:G:H4'	79:S2:589:G:H5'	1.65	0.77
79:S2:880:G:O6	79:S2:906:U:N3	2.17	0.77
84:Lt:130:LYS:HZ2	84:Lt:159:ALA:HA	1.50	0.77
11:sB:151:ARG:HB3	64:sR:133:GLY:N	1.99	0.77
64:sR:29:HIS:NE2	79:s2:1476:A:N1	2.33	0.77
80:cB:462:GLU:CD	80:cB:462:GLU:H	1.92	0.77
17:SO:57:THR:OG1	17:SO:60:MET:HE3	1.84	0.77
39:LS:81:TRP:CZ3	39:LS:130:GLU:OE1	2.38	0.77
20:l7:54:A:C5	31:lJ:12:MET:SD	2.78	0.77
29:lH:113:GLU:OE1	29:lH:115:ARG:NH2	2.18	0.77
86:LW:8:PHE:CE2	86:LW:46:PRO:CA	2.67	0.77
2:SE:174:LYS:HE2	2:SE:176:ASP:HB2	1.66	0.77
2:SE:192:ILE:HD12	2:SE:243:GLY:HA3	1.66	0.77
18:SW:11:LEU:HD12	18:SW:74:VAL:HB	1.66	0.77
85:L5:3597:G:H5"	38:LR:139:MET:HE3	1.64	0.77
24:LC:284:MET:HE1	37:LQ:28:LEU:HB3	1.64	0.77
27:LF:70:ARG:O	27:LF:74:MET:CE	2.33	0.77
72:SU:37:ALA:HB3	72:SU:41:ARG:HH22	1.47	0.77
8:sY:28:LEU:HD12	8:sY:68:LYS:HZ3	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:lD:23:ARG:NH1	85:l5:4280:A:OP2	2.18	0.77
64:sR:8:THR:OG1	79:s2:1371:U:OP2	2.02	0.77
65:sD:194:PRO:HG2	65:sD:199:GLY:H	1.49	0.77
85:L5:2000:G:O2'	85:L5:2001:G:N7	2.15	0.77
34:LN:10:LEU:HG	34:LN:19:MET:HE1	1.67	0.77
21:l8:35:C:O2	85:l5:21:G:N2	2.16	0.77
34:lN:36:LEU:HD12	34:lN:64:ILE:CD1	2.14	0.77
25:LD:212:MET:HE1	25:LD:219:TYR:CD1	2.20	0.77
75:Sg:47:ARG:HD2	75:Sg:52:TYR:HE2	1.46	0.77
85:l5:3641:U:OP2	85:l5:3646:A:N6	2.18	0.77
31:LJ:78:LYS:HD2	31:LJ:82:ILE:HD11	1.67	0.77
66:SF:53:ALA:HB1	69:SQ:125:ARG:HH22	1.50	0.77
8:sY:20:ARG:NH1	8:sY:74:MET:SD	2.58	0.77
10:sA:147:LEU:CD1	10:sA:174:MET:HE3	2.06	0.77
16:sN:90:HIS:CD2	79:s2:926:A:H5"	2.20	0.77
55:lj:39:TYR:O	55:lj:39:TYR:CD2	2.37	0.77
65:sD:189:MET:SD	65:sD:189:MET:N	2.58	0.77
83:ls:34:ASN:ND2	85:l5:1968:G:H4'	2.00	0.77
83:ls:53:VAL:HG12	83:ls:89:VAL:HG23	1.66	0.77
85:l5:1984:A:N7	85:l5:2010:A:O2'	2.18	0.77
18:SW:111:MET:CE	18:SW:116:ALA:HA	2.14	0.77
31:LJ:78:LYS:O	31:LJ:82:ILE:HG12	1.84	0.77
38:LR:11:ALA:CB	38:LR:41:ILE:HD11	2.16	0.77
11:sB:151:ARG:NE	64:sR:133:GLY:HA2	1.99	0.76
12:sH:43:LEU:HD12	12:sH:68:GLN:HG3	1.65	0.76
18:SW:4:MET:CE	79:S2:682:U:O2'	2.32	0.76
31:LJ:46:GLN:NE2	31:LJ:72:CYS:SG	2.57	0.76
36:LP:102:ALA:O	36:LP:107:LEU:HD23	1.85	0.76
69:SQ:4:LYS:HA	79:S2:1423:C:H41	1.50	0.76
77:SZ:43:LYS:HE3	77:SZ:45:ASN:HD22	1.49	0.76
25:lD:232:THR:CG2	25:lD:235:MET:CE	2.63	0.76
31:lJ:121:PRO:HD3	70:sS:101:ASN:ND2	2.00	0.76
85:l5:1079:C:O2	85:l5:1221:G:N2	2.18	0.76
8:SY:74:MET:HG2	8:SY:86:GLU:OE2	1.86	0.76
12:SH:76:GLN:HE22	12:SH:94:PHE:HD2	1.32	0.76
12:sH:30:LEU:O	12:sH:33:ASN:ND2	2.18	0.76
41:lU:82:TYR:CD2	85:l5:2631:U:H1'	2.21	0.76
64:sR:126:MET:HG2	64:sR:126:MET:O	1.82	0.76
79:s2:1550:G:H3'	79:s2:1579:A:H61	1.50	0.76
85:l5:493:G:N1	85:l5:660:A:C2	2.51	0.76
12:SH:69:LEU:HD12	12:SH:96:ALA:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:Li:15:HIS:O	54:Li:15:HIS:HD2	1.69	0.76
82:Et:37:A:H3'	82:Et:38:A:H8	1.50	0.76
8:sY:20:ARG:NE	8:sY:22:GLN:HE21	1.82	0.76
79:s2:146:G:H1	79:s2:173:A:H61	1.33	0.76
80:cB:75:ILE:HA	80:cB:454:MET:HA	1.67	0.76
85:l5:138:G:H2'	85:l5:139:G:C8	2.20	0.76
85:L5:1975:G:N2	85:L5:1983:A:OP1	2.19	0.76
64:sR:126:MET:CE	64:sR:129:LYS:HD2	2.11	0.76
6:SG:36:VAL:N	6:SG:50:VAL:O	2.15	0.76
34:LN:117:ASN:OD1	34:LN:118:SER:N	2.18	0.76
1:cH:53:SER:O	1:cH:117:ASN:ND2	2.17	0.76
22:lA:34:PHE:HD2	28:lG:41:ILE:CD1	1.98	0.76
31:lJ:40:LEU:O	31:lJ:44:THR:OG1	2.02	0.76
75:sg:18:VAL:O	75:sg:287:THR:OG1	2.02	0.76
85:l5:909:A:C6	85:l5:910:G:O6	2.38	0.76
7:SJ:28:GLU:OE2	7:SJ:40:LYS:HB3	1.85	0.76
10:SA:124:VAL:HG12	10:SA:146:ALA:HA	1.64	0.76
85:L5:3974:G:H21	63:Lz:30:GLU:HB2	1.51	0.76
65:SD:157:MET:N	65:SD:189:MET:HE3	2.00	0.76
22:lA:34:PHE:HD2	28:lG:41:ILE:HD11	1.50	0.76
15:SC:264:SER:HB3	15:SC:267:GLN:HG2	1.67	0.76
16:SN:46:THR:H	16:SN:49:GLN:HE21	1.30	0.76
23:LB:103:LYS:HB3	23:LB:153:MET:CE	2.16	0.76
49:Ld:54:MET:CE	49:Ld:60:PRO:HA	2.12	0.76
3:sI:123:ARG:HH21	3:sI:129:LEU:HD22	1.51	0.76
8:sY:19:GLN:HE21	8:sY:81:TYR:HD1	1.33	0.76
28:lG:113:ARG:HE	28:lG:117:ARG:HH12	1.30	0.76
28:lG:117:ARG:HA	28:lG:120:LYS:HG2	1.68	0.76
29:lH:163:GLN:HE22	85:l5:4686:G:H21	1.30	0.76
78:sf:118:ARG:CD	78:sf:131:PHE:CE1	2.63	0.76
85:L5:4517:A:N7	23:LB:2:SER:N	2.34	0.76
79:S2:15:U:O2'	79:S2:669:A:N6	2.17	0.76
79:S2:928:G:H2'	79:S2:929:G:C8	2.20	0.76
14:sa:46:GLU:CB	17:sO:113:GLN:NE2	2.47	0.76
23:lB:242:ARG:NH2	85:l5:2856:C:O2	2.19	0.76
66:sF:195:GLU:OE1	66:sF:195:GLU:HA	1.84	0.76
69:sQ:45:ARG:HA	69:sQ:48:GLN:HB3	1.68	0.76
36:LP:40:HIS:NE2	36:LP:110:ASP:O	2.17	0.76
46:La:120:GLN:N	46:La:120:GLN:OE1	2.19	0.76
67:SK:28:HIS:CD2	74:Sd:8:TRP:CZ2	2.74	0.76
71:ST:112:MET:HE1	71:ST:127:GLY:HA3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:lX:102:VAL:HA	43:lX:134:LYS:HG3	1.68	0.76
64:sR:14:ARG:NH2	79:s2:1373:C:H1'	2.01	0.76
72:sU:94:PRO:HD2	72:sU:97:ILE:HG22	1.68	0.76
79:s2:928:G:H2'	79:s2:929:G:C8	2.21	0.76
80:cB:430:MET:HG3	80:cB:442:LEU:HD13	1.67	0.76
18:SW:4:MET:HE1	79:S2:682:U:O2'	1.86	0.76
2:sE:64:ILE:HD11	8:sY:18:LEU:HG	1.67	0.75
6:sG:15:LEU:HD12	6:sG:16:ILE:N	2.01	0.75
24:lC:293:LEU:O	24:lC:299:GLN:NE2	2.19	0.75
80:cB:762:VAL:HA	80:cB:765:ARG:HE	1.50	0.75
10:SA:42:LYS:CD	10:SA:43:SER:N	2.49	0.75
85:L5:3966:A:N6	85:L5:4057:C:O2	2.19	0.75
30:LI:207:ASP:OD2	30:LI:208:LYS:N	2.18	0.75
54:Li:15:HIS:O	54:Li:15:HIS:CD2	2.39	0.75
88:CF:335:MET:HB3	88:CF:443:LYS:HE3	1.67	0.75
11:sB:151:ARG:NH2	79:s2:1124:C:OP1	2.19	0.75
32:lL:184:MET:HE2	85:l5:1479:G:H21	1.51	0.75
36:lP:32:THR:HA	36:lP:58:VAL:HG21	1.67	0.75
78:sf:106:TYR:CA	78:sf:117:LEU:CD1	2.58	0.75
85:l5:4093:G:N7	85:l5:4095:G:N2	2.33	0.75
16:SN:25:TRP:CZ3	19:Sb:82:LYS:HG3	2.20	0.75
88:CF:178:ILE:HB	88:CF:183:TYR:HB2	1.68	0.75
41:lU:102:VAL:HG22	41:lU:110:TYR:CE1	2.21	0.75
45:lZ:38:TYR:HB3	85:l5:2656:U:H5"	1.67	0.75
10:SA:42:LYS:HE2	10:SA:42:LYS:HA	1.69	0.75
11:SB:85:LYS:HB3	11:SB:101:HIS:HB3	1.67	0.75
85:L5:4773:C:O2	85:L5:4861:G:N2	2.13	0.75
30:LI:212:LEU:HD12	30:LI:213:HIS:H	1.51	0.75
38:LR:109:TYR:HB3	38:LR:115:ILE:HD13	1.67	0.75
88:CF:13:ILE:HD12	88:CF:136:HIS:HB3	1.68	0.75
24:lC:95:MET:HE1	85:l5:2349:A:N6	2.00	0.75
32:lL:8:MET:HE1	37:lQ:168:ARG:HA	1.69	0.75
79:s2:1277:C:H2'	79:s2:1278:A:H8	1.49	0.75
85:l5:4894:A:H3'	85:l5:4895:C:H5'	1.69	0.75
39:LS:93:MET:HE3	39:LS:95:ARG:HH11	1.50	0.75
75:Sg:87:LEU:HB2	75:Sg:101:PHE:HD2	1.49	0.75
25:lD:234:ASP:O	25:lD:235:MET:HG2	1.86	0.75
73:sc:37:ASP:OD2	73:sc:40:ARG:HB2	1.86	0.75
80:cB:28:VAL:HG21	85:l5:4606:G:H5"	1.67	0.75
5:SX:9:THR:HG22	79:S2:681:U:H4'	1.68	0.75
16:SN:25:TRP:CH2	19:Sb:32:PHE:CB	2.65	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Sb:33:MET:HE1	19:Sb:46:VAL:HG23	1.68	0.75
39:LS:95:ARG:NH2	39:LS:112:ASP:OD2	2.19	0.75
79:S2:1488:C:O2'	79:S2:1490:G:OP2	2.05	0.75
50:le:84:GLU:OE2	62:lr:20:ARG:NH1	2.19	0.75
75:sg:188:HIS:HB3	75:sg:219:TRP:HZ3	1.51	0.75
77:sZ:79:ILE:HG21	77:sZ:84:ALA:HB2	1.69	0.75
83:ls:62:ARG:HH22	83:ls:83:ARG:HH11	1.33	0.75
13:SV:22:ARG:HH21	13:SV:23:ILE:CD1	1.97	0.75
66:SF:135:ARG:O	66:SF:203:ASN:ND2	2.20	0.75
87:AT:18:G:H21	87:AT:59:A:H5'	1.51	0.75
47:lb:41:ARG:NH1	85:l5:1492:G:O2'	2.20	0.75
85:L5:1573:G:OP1	38:LR:92:LYS:NZ	2.18	0.75
25:LD:232:THR:HG22	25:LD:235:MET:SD	2.26	0.75
31:LJ:20:LEU:HD13	31:LJ:22:LEU:HD11	1.69	0.75
45:LZ:30:ASP:HA	45:LZ:39:SER:HB2	1.69	0.75
70:SS:2:SER:H	77:SZ:49:LEU:HD11	1.48	0.75
78:Sf:99:LYS:NZ	79:S2:1287:A:OP2	2.20	0.75
10:sA:80:ARG:NH2	10:sA:165:ASN:O	2.20	0.75
29:lH:172:ILE:O	58:lm:90:ASN:ND2	2.20	0.75
80:cB:200:MET:HE2	80:cB:200:MET:HA	1.69	0.75
75:Sg:218:LEU:HD23	75:Sg:228:TYR:HD2	1.52	0.75
76:SM:48:HIS:HB2	76:SM:112:LYS:HA	1.68	0.75
15:sC:102:LEU:HD12	15:sC:131:GLY:C	2.10	0.75
64:sR:30:THR:H	79:s2:1455:A:C5'	2.00	0.75
71:sT:129:ARG:HD2	71:sT:133:ARG:CZ	2.17	0.75
77:sZ:82:SER:OG	79:s2:1598:G:OP2	2.05	0.75
78:sf:93:HIS:CE1	78:sf:96:LYS:NZ	2.55	0.75
80:cB:59:THR:HG22	80:cB:456:ARG:HG2	1.69	0.75
80:cB:179:GLN:O	80:cB:183:GLU:HG2	1.87	0.75
31:LJ:87:LEU:HD11	31:LJ:170:TYR:HD1	1.52	0.75
23:lB:224:LYS:HG2	23:lB:340:THR:HG22	1.69	0.74
38:lR:3:MET:CE	38:lR:5:ARG:HB2	2.16	0.74
71:ST:38:LYS:NZ	79:S2:1628:C:OP1	2.19	0.74
88:CF:267:VAL:HB	88:CF:304:PRO:HA	1.69	0.74
15:sC:98:LEU:CD1	15:sC:102:LEU:HD22	2.17	0.74
60:lo:67:VAL:HG11	60:lo:82:MET:HE3	1.69	0.74
69:sQ:133:GLY:CA	69:sQ:140:ARG:HH22	1.97	0.74
80:cB:402:VAL:HG13	80:cB:411:TYR:HB2	1.69	0.74
80:cB:663:THR:OG1	80:cB:703:ASP:OD1	2.05	0.74
85:l5:493:G:O6	85:l5:660:A:N1	2.21	0.74
85:L5:2017:A:O2'	85:L5:2018:C:O5'	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:LA:104:VAL:HA	22:LA:107:MET:HE3	1.69	0.74
47:Lb:55:LYS:CE	47:Lb:58:GLN:NE2	2.50	0.74
79:S2:1536:G:H2'	79:S2:1537:A:C8	2.22	0.74
10:sA:163:CYS:SG	10:sA:164:ASN:N	2.60	0.74
11:sB:151:ARG:HD3	79:s2:1101:U:OP1	1.87	0.74
39:lS:95:ARG:NH2	39:lS:112:ASP:OD1	2.19	0.74
50:le:92:ASN:ND2	50:le:119:ALA:O	2.19	0.74
11:sB:151:ARG:HB2	64:sR:132:ARG:HE	1.52	0.74
24:lC:101:MET:HE1	24:lC:105:THR:HG23	1.68	0.74
65:sD:192:TRP:CZ3	65:sD:203:PRO:HG3	2.23	0.74
80:cB:330:LYS:HE2	80:cB:331:GLU:H	1.52	0.74
85:L5:352:G:N7	24:LC:197:ARG:NH2	2.34	0.74
85:L5:4773:C:N3	85:L5:4861:G:N1	2.26	0.74
25:LD:236:MET:HA	25:LD:239:MET:HG3	1.69	0.74
70:SS:67:VAL:O	70:SS:71:MET:HG3	1.87	0.74
75:Sg:236:ILE:HD13	75:Sg:239:LEU:HD21	1.69	0.74
6:sG:64:LYS:HZ1	6:sG:82:SER:N	1.85	0.74
7:sJ:38:ARG:N	7:sJ:42:GLU:OE2	2.20	0.74
17:sO:117:ARG:HH12	73:sc:62:GLU:HB2	1.53	0.74
20:l7:54:A:OP1	31:lJ:8:LYS:NZ	2.20	0.74
44:lY:65:GLN:N	44:lY:65:GLN:OE1	2.19	0.74
82:pE:41:U:H2'	82:pE:42:G:C8	2.21	0.74
2:SE:115:THR:HG22	2:SE:118:GLU:HG2	1.68	0.74
8:SY:20:ARG:HB2	8:SY:74:MET:HE1	1.68	0.74
13:SV:15:ARG:NH1	13:SV:33:GLN:OE1	2.21	0.74
45:LZ:13:VAL:HG13	45:LZ:75:TYR:HE1	1.52	0.74
82:Et:9:A:H2'	82:Et:11:C:H41	1.52	0.74
3:sI:26:LYS:O	3:sI:29:LEU:HD23	1.87	0.74
7:sJ:127:ARG:HD3	9:se:31:ARG:HE	1.53	0.74
85:L5:1656:U:OP2	46:La:26:ARG:NH2	2.21	0.74
35:LO:22:ILE:HD11	39:LS:166:ARG:HD3	1.67	0.74
67:SK:49:MET:HE3	67:SK:69:TRP:CE2	2.22	0.74
83:Ls:20:LEU:HD21	83:Ls:90:PHE:CD1	2.21	0.74
6:sG:178:ARG:NH2	79:s2:145:G:N7	2.35	0.74
12:sH:143:ARG:HB2	12:sH:155:LYS:HG3	1.68	0.74
25:lD:206:ASP:HA	25:lD:209:ARG:HG2	1.69	0.74
33:lM:38:VAL:HG21	33:lM:50:MET:HE3	1.69	0.74
83:ls:20:LEU:HD23	83:ls:90:PHE:HD1	1.53	0.74
16:SN:25:TRP:CE3	19:Sb:82:LYS:CD	2.71	0.74
41:LU:46:ARG:C	41:LU:47:ILE:HD13	2.12	0.74
67:SK:49:MET:SD	67:SK:69:TRP:CE2	2.80	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:SQ:15:ARG:HG2	69:SQ:20:THR:HG23	1.70	0.74
79:S2:454:U:H2'	79:S2:455:A:H8	1.52	0.74
86:LW:19:ARG:HG2	86:LW:33:ASN:HA	1.70	0.74
40:LT:63:ARG:HB3	40:LT:63:ARG:NH1	2.02	0.74
67:SK:47:LYS:NZ	79:S2:1274:G:O4'	2.18	0.74
11:sB:227:LYS:HA	11:sB:230:GLU:OE2	1.88	0.74
64:sR:41:ILE:CD1	79:s2:1387:G:H2'	2.18	0.74
64:sR:126:MET:SD	64:sR:129:LYS:CD	2.72	0.74
80:cB:820:LEU:HD12	80:cB:821:PRO:HD2	1.69	0.74
83:ls:77:LYS:N	83:ls:77:LYS:HD3	2.01	0.74
85:L5:298:G:OP1	34:LN:179:LYS:NZ	2.21	0.74
22:LA:61:VAL:CG1	22:LA:76:PHE:CD2	2.70	0.74
23:LB:279:GLU:OE1	23:LB:282:LYS:NZ	2.20	0.74
69:SQ:38:PRO:HD2	69:SQ:41:MET:HB2	1.70	0.74
16:sN:23:PRO:HD2	16:sN:26:LEU:HD23	1.69	0.74
29:lH:52:LYS:NZ	85:l5:758:G:H4'	2.03	0.74
64:sR:10:LYS:NZ	79:s2:1367:U:O2'	2.15	0.74
69:sQ:114:GLN:OE1	69:sQ:114:GLN:N	2.19	0.74
45:LZ:54:THR:H	45:LZ:57:MET:CE	2.00	0.74
83:Ls:21:LEU:HD11	83:Ls:69:LEU:HD11	1.70	0.74
44:lY:4:ASN:HB2	44:lY:7:VAL:HG22	1.68	0.73
47:lb:30:GLU:OE1	47:lb:30:GLU:N	2.17	0.73
66:sF:159:ARG:NH1	79:s2:1535:U:O4	2.20	0.73
67:sK:42:ASN:HA	67:sK:45:VAL:HG12	1.70	0.73
80:cB:590:LEU:CD1	80:cB:605:LYS:HE3	2.15	0.73
85:L5:1645:C:H2'	85:L5:1646:A:H8	1.53	0.73
20:L7:57:C:H2'	20:L7:58:A:H8	1.53	0.73
64:SR:45:LYS:NZ	79:S2:1389:C:OP2	2.20	0.73
6:sG:57:ASP:OD1	6:sG:59:GLN:N	2.15	0.73
6:sG:64:LYS:CE	6:sG:82:SER:HB3	2.17	0.73
8:sY:20:ARG:CZ	8:sY:22:GLN:HE21	2.02	0.73
21:l8:21:C:O2	85:l5:379:G:N2	2.20	0.73
22:lA:34:PHE:CD2	28:lG:41:ILE:HD11	2.23	0.73
40:lT:122:LYS:HG3	40:lT:124:THR:HG23	1.70	0.73
51:lf:52:LYS:NZ	85:l5:4751:G:N7	2.36	0.73
75:sg:49:GLU:HG3	75:sg:50:THR:HG23	1.68	0.73
80:cB:588:ASN:HD22	80:cB:589:VAL:HG13	1.51	0.73
48:Lc:48:LEU:HD21	48:Lc:60:ILE:CD1	2.18	0.73
61:Lp:30:GLU:OE2	61:Lp:30:GLU:N	2.21	0.73
66:SF:71:ARG:NH2	66:SF:148:ASN:OD1	2.21	0.73
11:sB:32:ASP:HB3	11:sB:46:LYS:HD3	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:sb:17:ARG:O	19:sb:17:ARG:NH1	2.21	0.73
25:lD:202:GLN:NE2	25:lD:237:GLU:OE1	2.21	0.73
51:lf:23:GLU:N	51:lf:23:GLU:OE2	2.21	0.73
86:LW:8:PHE:CE1	86:LW:46:PRO:HD3	2.23	0.73
11:SB:91:VAL:HG12	11:SB:96:CYS:HB3	1.68	0.73
19:Sb:42:LYS:HZ3	19:Sb:56:CYS:HB2	1.51	0.73
85:L5:3708:C:N3	85:L5:3742:G:N1	2.30	0.73
22:LA:104:VAL:HA	22:LA:107:MET:CE	2.18	0.73
25:LD:52:ILE:HD11	25:LD:147:ASP:OD2	1.88	0.73
63:Lz:207:LYS:HZ3	63:Lz:213:PRO:HA	1.53	0.73
25:lD:118:ILE:HD11	25:lD:135:ILE:HD12	1.70	0.73
79:s2:225:G:N2	79:s2:296:U:O4	2.17	0.73
85:l5:3950:U:H2'	85:l5:3951:G:C8	2.24	0.73
13:SV:11:LEU:CD2	15:SC:248:TYR:OH	2.36	0.73
85:L5:1708:G:H2'	85:L5:1709:C:H3'	1.69	0.73
85:L5:4371:G:N2	82:Et:76:A:O2'	2.20	0.73
2:sE:19:MET:SD	2:sE:51:ARG:NH1	2.61	0.73
2:sE:98:ASN:OD1	2:sE:119:ALA:HB2	1.88	0.73
6:sG:135:PRO:HG2	6:sG:141:ILE:HG12	1.70	0.73
65:sD:194:PRO:CD	65:sD:195:THR:N	2.52	0.73
79:s2:567:C:O2'	79:s2:583:A:N6	2.21	0.73
83:ls:39:GLN:NE2	83:ls:107:VAL:HG11	2.04	0.73
85:L5:261:G:H2'	85:L5:262:G:C8	2.24	0.73
41:LU:61:VAL:HG23	41:LU:74:SER:CB	2.18	0.73
7:sJ:134:HIS:HE2	79:s2:561:A:HO2'	1.33	0.73
29:lH:106:GLN:HB2	29:lH:111:LEU:HB3	1.69	0.73
31:lJ:21:CYS:SG	85:l5:4259:C:O2'	2.45	0.73
64:sR:60:ARG:HD2	79:s2:1464:C:H5'	1.69	0.73
86:LW:50:ASN:HA	86:LW:55:TYR:CE2	2.23	0.73
10:SA:175:TRP:CZ3	10:SA:178:LEU:HD23	2.24	0.73
79:S2:1277:C:H2'	79:S2:1278:A:H8	1.54	0.73
83:Ls:101:MET:SD	83:Ls:102:LEU:N	2.61	0.73
6:sG:58:LYS:HA	6:sG:107:SER:HB2	1.69	0.73
81:aP:50:U:O2	81:aP:64:G:N2	2.19	0.73
83:ls:20:LEU:HD21	83:ls:90:PHE:HD1	1.51	0.73
85:l5:1332:C:H2'	85:l5:1333:A:H8	1.51	0.73
35:LO:121:PRO:HA	35:LO:124:LEU:HD12	1.71	0.73
75:Sg:40:ILE:HB	75:Sg:59:LEU:HD22	1.69	0.73
75:Sg:45:LEU:HD11	75:Sg:299:PHE:HZ	1.54	0.73
88:CF:343:GLN:HE22	88:CF:379:ILE:HG21	1.53	0.73
13:sV:21:ASN:ND2	18:sW:66:THR:O	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:sV:42:VAL:HG13	13:sV:43:THR:HG22	1.70	0.73
80:cB:385:ILE:HD11	80:cB:395:MET:CG	2.15	0.73
16:SN:14:SER:HB3	79:S2:1016:U:H5"	1.70	0.73
25:LD:217:ASP:OD2	25:LD:218:ALA:N	2.21	0.73
26:LE:244:GLU:HA	26:LE:247:LYS:CG	2.19	0.73
30:LI:76:MET:SD	30:LI:76:MET:N	2.61	0.73
52:Lg:85:LYS:HA	52:Lg:88:ARG:NE	2.03	0.73
66:SF:20:PHE:O	66:SF:22:LYS:NZ	2.22	0.73
79:S2:1115:U:O2'	79:S2:1117:C:OP2	2.06	0.73
79:S2:1204:A:N1	79:S2:1693:G:N2	2.36	0.73
10:sA:42:LYS:NZ	10:sA:44:ASP:HB3	2.04	0.73
16:sN:142:GLU:OE2	16:sN:144:SER:N	2.14	0.73
31:lJ:20:LEU:CD1	31:lJ:132:VAL:HG12	2.19	0.73
64:sR:5:ARG:CD	64:sR:9:VAL:HG23	2.19	0.73
68:sP:28:MET:HE3	68:sP:33:LEU:HD12	1.67	0.73
85:l5:2020:U:H2'	85:l5:2021:G:H8	1.54	0.73
13:SV:12:TYR:HB3	15:SC:79:GLU:HB3	1.70	0.73
25:LD:271:MET:CE	25:LD:275:GLN:HB2	2.16	0.73
77:SZ:47:LEU:HD23	77:SZ:79:ILE:HA	1.70	0.73
27:lF:50:ILE:HD12	27:lF:186:CYS:HB3	1.71	0.73
45:lZ:74:VAL:O	45:lZ:74:VAL:HG12	1.89	0.73
49:ld:33:ILE:HD11	49:ld:45:ALA:HB2	1.71	0.73
70:sS:5:ILE:HA	77:sZ:49:LEU:HD11	1.71	0.73
79:s2:1536:G:H2'	79:s2:1537:A:H8	1.54	0.73
82:pE:35:U:H2'	82:pE:36:U:C6	2.24	0.73
85:l5:1444:G:H1	85:l5:2104:G:H21	1.34	0.73
85:L5:2491:C:H2'	85:L5:2492:C:C6	2.24	0.73
85:L5:3594:C:O2	85:L5:3597:G:N2	2.22	0.73
28:LG:105:GLU:OE2	28:LG:113:ARG:NH2	2.22	0.73
30:LI:87:MET:HE1	30:LI:138:ILE:HG12	1.71	0.73
32:LL:84:ALA:HB2	32:LL:114:VAL:HG23	1.70	0.73
56:Lk:7:GLU:OE1	56:Lk:9:LYS:HB3	1.88	0.73
65:SD:177:LEU:HG	65:SD:179:GLN:H	1.54	0.73
72:SU:21:ARG:NH2	79:S2:1404:U:OP2	2.21	0.73
74:Sd:7:TYR:CZ	74:Sd:8:TRP:CZ3	2.77	0.73
30:lI:140:THR:HG22	30:lI:141:LYS:H	1.54	0.72
35:lO:190:ASP:OD1	35:lO:191:LYS:N	2.23	0.72
58:lm:100:TYR:O	85:l5:4472:G:O2'	2.07	0.72
65:sD:217:ILE:HG13	65:sD:218:LEU:H	1.53	0.72
72:sU:68:THR:O	74:sd:40:ARG:NH2	2.22	0.72
73:sc:44:ARG:HH12	73:sc:63:ARG:HB2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:sg:14:HIS:CD2	75:sg:41:ILE:HD13	2.23	0.72
47:Lb:54:LEU:O	47:Lb:57:MET:HG2	1.89	0.72
75:Sg:164:ILE:HG22	75:Sg:178:ASN:HA	1.71	0.72
25:lD:289:ARG:CA	25:lD:292:GLU:OE1	2.27	0.72
55:lj:11:ARG:NH1	85:l5:1534:A:O2'	2.21	0.72
55:lj:63:ARG:HD2	55:lj:65:ARG:HG2	1.71	0.72
79:s2:981:A:H2'	79:s2:982:G:C8	2.24	0.72
12:SH:157:HIS:HE1	12:SH:189:PHE:C	1.97	0.72
85:L5:170:C:N3	85:L5:266:C:N4	2.37	0.72
46:La:118:PRO:O	46:La:120:GLN:OE1	2.07	0.72
62:Lr:52:GLU:N	62:Lr:52:GLU:OE1	2.22	0.72
79:S2:1779:G:N2	79:S2:1780:G:O6	2.21	0.72
1:cH:43:LYS:HG3	1:cH:44:TRP:N	2.05	0.72
64:sR:29:HIS:N	79:s2:1455:A:O5'	2.23	0.72
64:sR:32:LYS:HG2	79:s2:1453:C:C2	2.24	0.72
79:s2:191:A:N6	79:s2:208:G:O2'	2.22	0.72
80:cB:600:ASN:HD21	80:cB:721:ILE:HD11	1.53	0.72
84:lt:105:THR:HA	84:lt:143:VAL:HA	1.71	0.72
84:lt:137:GLN:N	84:lt:137:GLN:OE1	2.22	0.72
85:l5:1669:A:H4'	85:l5:1685:G:H22	1.54	0.72
85:l5:4773:C:N3	85:l5:4861:G:N1	2.30	0.72
30:LI:36:LEU:HD11	30:LI:69:ARG:HH11	1.53	0.72
39:LS:127:MET:HG3	40:LT:153:PRO:HG2	1.71	0.72
45:LZ:52:LYS:O	45:LZ:65:ARG:NH2	2.22	0.72
67:SK:49:MET:CE	67:SK:69:TRP:CH2	2.72	0.72
88:CF:410:MET:SD	88:CF:411:CYS:O	2.46	0.72
83:Ls:88:PHE:HB3	83:Ls:90:PHE:CZ	2.23	0.72
4:sL:41:GLY:HA3	79:s2:291:G:H1'	1.71	0.72
18:sW:2:VAL:HG22	18:sW:3:ARG:N	2.04	0.72
27:lF:182:TYR:HB3	27:lF:200:ARG:HG3	1.71	0.72
36:lP:117:ILE:HG22	36:lP:148:MET:HB2	1.72	0.72
69:sQ:3:SER:OG	69:sQ:4:LYS:N	2.23	0.72
69:sQ:133:GLY:HA3	69:sQ:140:ARG:HH22	1.51	0.72
80:cB:43:ALA:HA	80:cB:79:TYR:HE1	1.49	0.72
16:SN:110:ASP:OD2	79:S2:934:G:N2	2.19	0.72
30:LI:48:LEU:HD21	30:LI:142:LEU:CA	2.14	0.72
54:Li:3:LEU:HG	54:Li:4:ARG:HG2	1.71	0.72
67:SK:80:ARG:HH21	67:SK:83:LEU:HD11	1.54	0.72
10:sA:56:GLU:HG3	13:sV:80:SER:HB2	1.71	0.72
80:cB:7:ASP:OD1	80:cB:462:GLU:CD	2.32	0.72
10:SA:36:GLN:O	10:SA:53:ARG:NH1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3717:A:OP2	85:L5:3735:G:N2	2.19	0.72
31:LJ:20:LEU:HD22	31:LJ:22:LEU:HD12	1.69	0.72
2:sE:37:LYS:NZ	79:s2:345:U:OP1	2.22	0.72
4:sL:80:MET:HA	4:sL:86:ILE:HD11	1.71	0.72
11:sB:119:THR:HG22	11:sB:155:TYR:HD1	1.52	0.72
23:lB:28:LYS:NZ	85:l5:4582:C:OP2	2.20	0.72
86:LW:4:GLU:HB3	86:LW:30:GLN:HG2	1.70	0.72
86:LW:52:THR:O	86:LW:55:TYR:HD1	1.69	0.72
16:SN:25:TRP:CD2	19:Sb:82:LYS:HE3	2.25	0.72
85:L5:150:U:O4	28:LG:187:LYS:NZ	2.22	0.72
85:L5:2601:A:N6	85:L5:2744:A:OP2	2.21	0.72
85:L5:2664:G:OP2	38:LR:121:HIS:ND1	2.22	0.72
85:L5:4620:U:OP2	85:L5:4670:C:N4	2.23	0.72
63:Lz:70:ASP:OD1	63:Lz:72:GLN:NE2	2.21	0.72
10:sA:51:LEU:CD2	64:sR:105:MET:HE1	2.18	0.72
41:lU:101:ARG:NH2	85:l5:2702:C:OP1	2.21	0.72
85:l5:4140:C:N3	85:l5:4145:C:O2'	2.23	0.72
8:SY:56:PHE:HB2	8:SY:74:MET:HB3	1.70	0.72
8:SY:121:ALA:HA	8:SY:124:ASN:HB2	1.71	0.72
85:L5:369:G:N2	85:L5:372:A:OP2	2.21	0.72
25:LD:111:ASN:HD22	25:LD:251:PRO:HG2	1.54	0.72
45:LZ:101:PHE:C	45:LZ:102:ARG:HD3	2.14	0.72
48:Lc:48:LEU:HD21	48:Lc:60:ILE:HD11	1.72	0.72
79:S2:690:G:OP2	79:S2:690:G:N2	2.21	0.72
18:sW:11:LEU:HD11	18:sW:37:PHE:CE2	2.24	0.72
44:lY:121:ARG:NH1	85:l5:194:C:O2	2.22	0.72
65:sD:7:LYS:HA	65:sD:10:LYS:HG2	1.71	0.72
75:sg:87:LEU:HB2	75:sg:101:PHE:HD2	1.55	0.72
77:sZ:58:LEU:O	77:sZ:62:VAL:HG23	1.89	0.72
85:l5:450:G:H1	85:l5:1297:U:H3	1.37	0.72
21:L8:109:C:H2'	55:Lj:20:ARG:HH22	1.55	0.72
36:LP:40:HIS:HE1	36:LP:42:ARG:HG2	1.54	0.72
39:LS:95:ARG:HD2	39:LS:113:MET:HE3	1.71	0.72
47:Lb:55:LYS:HA	47:Lb:58:GLN:HE22	1.54	0.72
51:Lf:42:TYR:HA	51:Lf:45:LYS:HG2	1.72	0.72
78:Sf:89:LYS:HG2	78:Sf:91:ASN:H	1.55	0.72
84:Lt:105:THR:HA	84:Lt:143:VAL:HA	1.72	0.72
7:sJ:91:LYS:HD2	7:sJ:96:TYR:CD1	2.25	0.72
54:li:2:ALA:N	54:li:5:TYR:HH	1.88	0.72
76:sM:40:LYS:HE2	78:sf:130:VAL:HA	1.70	0.72
85:L5:1933:G:H2'	85:L5:1934:A:C8	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2856:C:O2	23:LB:242:ARG:NH2	2.23	0.72
22:LA:96:LEU:HB2	61:Lp:87:LYS:HG3	1.71	0.72
24:LC:94:ASN:HD22	24:LC:102:PHE:HB2	1.54	0.72
1:cH:46:ALA:HA	9:se:41:ARG:HE	1.53	0.72
25:lD:208:MET:HG3	25:lD:223:PHE:HE2	1.53	0.72
31:lJ:63:ARG:N	31:lJ:66:GLU:OE1	2.17	0.72
45:lZ:46:ILE:HD11	45:lZ:68:ILE:HG13	1.71	0.72
67:sK:60:GLU:OE1	67:sK:61:GLN:N	2.23	0.72
79:s2:885:U:O2	79:s2:901:G:O6	2.07	0.72
85:L5:2486:G:N7	85:L5:2493:G:N1	2.37	0.72
23:LB:224:LYS:CD	23:LB:340:THR:HG22	2.18	0.72
69:SQ:32:ILE:HG21	69:SQ:39:LEU:HD22	1.72	0.72
75:Sg:188:HIS:NE2	75:Sg:219:TRP:CE2	2.57	0.72
79:S2:1536:G:H2'	79:S2:1537:A:H8	1.54	0.72
15:sC:253:PRO:N	15:sC:256:TRP:CZ3	2.58	0.71
25:lD:232:THR:HG23	25:lD:235:MET:HE2	1.70	0.71
66:sF:126:THR:HA	66:sF:135:ARG:HG3	1.72	0.71
85:l5:3946:G:H1	85:l5:4067:U:H3	1.38	0.71
25:LD:50:ARG:NH2	25:LD:147:ASP:OD2	2.23	0.71
48:Lc:29:LEU:HD22	48:Lc:91:VAL:HG21	1.72	0.71
74:Sd:22:ARG:HG2	74:Sd:38:MET:CE	2.20	0.71
10:sA:85:ARG:HH21	10:sA:89:LYS:HZ3	1.36	0.71
64:sR:27:ASP:O	79:s2:1454:A:O2'	2.07	0.71
83:ls:34:ASN:OD1	85:l5:1968:G:H4'	1.89	0.71
85:L5:323:C:H2'	85:L5:324:A:H8	1.55	0.71
85:L5:1973:G:O2'	84:Lt:117:ARG:NH2	2.23	0.71
61:Lp:7:LYS:O	61:Lp:27:LYS:NZ	2.22	0.71
65:SD:135:GLU:HG3	65:SD:153:VAL:HG22	1.72	0.71
75:Sg:165:ILE:HD11	75:Sg:177:TRP:HB2	1.73	0.71
79:S2:1757:G:O6	79:S2:1758:G:N2	2.23	0.71
6:sG:20:ASP:HB3	6:sG:23:LYS:HD2	1.72	0.71
8:sY:108:LYS:NZ	79:s2:506:G:OP1	2.23	0.71
8:sY:114:MET:SD	8:sY:127:ALA:CB	2.73	0.71
51:lf:2:SER:N	85:l5:4946:U:HO2'	1.88	0.71
85:l5:1480:C:O2'	85:l5:1482:G:OP2	2.08	0.71
18:SW:2:VAL:HG13	18:SW:3:ARG:H	1.55	0.71
85:L5:1818:G:OP2	85:L5:1818:G:N2	2.23	0.71
85:L5:2484:A:H62	85:L5:2494:U:H3	1.38	0.71
85:L5:4177:C:H2'	85:L5:4178:A:H8	1.52	0.71
44:LY:54:GLU:HB2	44:LY:108:ARG:HB3	1.71	0.71
67:SK:15:LEU:CD1	67:SK:21:MET:HE3	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:SU:85:HIS:ND1	79:S2:1447:G:OP1	2.19	0.71
2:sE:94:LYS:HZ3	8:sY:16:ARG:H	1.38	0.71
49:ld:90:ARG:HD2	49:ld:102:LEU:HD13	1.72	0.71
80:cB:654:PRO:HD2	80:cB:658:GLY:HA3	1.72	0.71
81:aP:18:G:O2'	81:aP:57:G:N2	2.22	0.71
5:SX:67:ARG:NH1	79:S2:617:G:N7	2.37	0.71
17:SO:34:PHE:HB3	17:SO:41:PHE:HB2	1.72	0.71
85:L5:4088:C:OP1	22:LA:37:ARG:NH1	2.23	0.71
85:L5:4541:G:N2	85:L5:4544:A:OP2	2.20	0.71
22:LA:51:ASP:OD2	22:LA:54:ARG:NH1	2.22	0.71
31:LJ:144:LYS:O	31:LJ:148:THR:OG1	2.07	0.71
36:LP:102:ALA:O	36:LP:107:LEU:CD2	2.37	0.71
87:AT:21:U:OP1	87:AT:49:C:N4	2.23	0.71
25:lD:223:PHE:HB3	25:lD:226:TYR:HB2	1.72	0.71
65:sD:95:GLY:HA2	65:sD:101:GLN:NE2	2.05	0.71
79:s2:928:G:H1	79:s2:1013:U:H3	1.35	0.71
85:L5:2263:A:H5"	62:Lr:108:MET:HE1	0.94	0.71
22:LA:56:ALA:HB2	22:LA:130:SER:HB3	1.72	0.71
11:sB:46:LYS:HE3	17:sO:19:PRO:HB2	1.73	0.71
25:lD:232:THR:OG1	25:lD:235:MET:HE2	1.91	0.71
31:lJ:20:LEU:HD12	31:lJ:132:VAL:HG12	1.71	0.71
71:sT:84:ARG:NH2	79:s2:1605:G:OP1	2.24	0.71
85:L5:4054:C:N4	63:Lz:36:ILE:O	2.23	0.71
33:LM:122:ILE:HD13	35:LO:189:ILE:HD11	1.73	0.71
40:LT:94:GLU:OE2	40:LT:94:GLU:N	2.21	0.71
64:SR:56:HIS:NE2	79:S2:1465:A:OP1	2.24	0.71
67:SK:13:GLU:CD	67:SK:13:GLU:H	1.98	0.71
67:SK:25:LYS:CE	67:SK:65:ARG:C	2.64	0.71
77:SZ:69:THR:HG22	77:SZ:72:VAL:HG12	1.73	0.71
24:lC:95:MET:HE1	85:l5:2349:A:C6	2.25	0.71
31:lJ:66:GLU:HG3	31:lJ:68:ILE:CD1	2.19	0.71
31:lJ:94:LEU:HD11	31:lJ:98:ASN:HB2	1.72	0.71
75:sg:11:LEU:HB3	75:sg:43:TRP:CZ3	2.25	0.71
85:l5:4098:A:N1	85:l5:4112:C:N4	2.39	0.71
15:SC:256:TRP:CZ3	18:SW:68:ARG:HB2	2.25	0.71
85:L5:4897:G:OP1	33:LM:128:LYS:NZ	2.23	0.71
24:LC:116:ASN:HB2	24:LC:119:GLN:HG3	1.71	0.71
79:S2:1286:G:N2	79:S2:1312:G:O2'	2.22	0.71
27:lF:232:ASP:OD1	27:lF:236:ARG:NH2	2.24	0.71
72:sU:48:LEU:CG	72:sU:93:SER:OG	2.39	0.71
79:s2:527:C:H2'	79:s2:528:A:C8	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1374:C:HO2'	79:s2:1464:C:HO2'	1.28	0.71
83:ls:34:ASN:OD1	85:l5:1968:G:C4'	2.39	0.71
13:SV:22:ARG:HH21	13:SV:23:ILE:CG1	2.04	0.71
25:LD:51:MET:HE2	25:LD:146:LEU:HD12	1.73	0.71
25:LD:196:ARG:HG2	25:LD:200:MET:HE2	1.71	0.71
33:LM:28:VAL:HB	33:LM:37:LEU:HG	1.73	0.71
2:sE:16:LYS:HD2	79:s2:812:A:H5'	1.72	0.71
6:sG:181:THR:HG22	6:sG:183:ARG:H	1.55	0.71
25:lD:208:MET:CG	25:lD:223:PHE:CD2	2.73	0.71
80:cB:4:PHE:N	80:cB:45:ILE:O	2.18	0.71
85:L5:1391:A:N3	46:La:58:MET:HE2	2.06	0.71
30:LI:62:SER:HA	30:LI:65:LEU:CD2	2.20	0.71
18:sW:11:LEU:HD12	18:sW:74:VAL:HB	1.73	0.71
25:lD:232:THR:H	25:lD:235:MET:CE	2.03	0.71
39:lS:69:GLU:OE1	39:lS:102:THR:HG22	1.91	0.71
67:sK:98:ARG:HH21	75:Sg:51:ASN:HB3	1.56	0.71
80:cB:564:ASP:OD1	80:cB:565:HIS:N	2.24	0.71
83:ls:30:VAL:O	83:ls:87:GLY:N	2.24	0.71
85:L5:1406:G:H1	85:L5:1411:C:HO2'	1.38	0.71
85:L5:4472:G:O2'	58:Lm:100:TYR:O	2.09	0.71
36:LP:38:GLY:H	36:LP:114:ILE:HG23	1.55	0.71
50:Le:92:ASN:ND2	50:Le:119:ALA:O	2.24	0.71
68:SP:35:GLN:OE1	68:SP:35:GLN:N	2.21	0.71
8:sY:21:LYS:HB2	8:sY:75:ILE:HD11	1.74	0.70
13:sV:29:HIS:CE1	15:sC:87:PRO:CA	2.74	0.70
37:lQ:17:GLU:N	37:lQ:17:GLU:OE1	2.24	0.70
50:le:34:ASN:ND2	85:l5:2322:G:OP2	2.23	0.70
56:lk:27:LYS:O	56:lk:70:LYS:NZ	2.24	0.70
65:sD:168:VAL:HG12	65:sD:189:MET:HE3	1.73	0.70
69:sQ:133:GLY:N	69:sQ:140:ARG:HH22	1.89	0.70
77:sZ:47:LEU:HD21	77:sZ:79:ILE:HG13	1.71	0.70
84:lt:141:CYS:SG	84:lt:142:ASN:N	2.58	0.70
85:l5:1435:G:N1	85:l5:1449:C:N3	2.32	0.70
85:l5:4992:G:H2'	85:l5:4993:G:C8	2.26	0.70
15:SC:211:LYS:HG2	15:SC:215:MET:CE	2.20	0.70
29:LH:105:ILE:HD11	29:LH:144:LEU:HD11	1.72	0.70
54:Li:93:VAL:O	54:Li:97:MET:HG3	1.91	0.70
64:SR:59:LYS:O	64:SR:63:ARG:NH2	2.23	0.70
67:SK:47:LYS:CE	79:S2:1274:G:H4'	2.20	0.70
12:sH:131:GLU:HA	12:sH:139:ILE:HD11	1.72	0.70
17:sO:50:LYS:HD2	79:s2:976:G:H1'	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:sF:22:LYS:HG3	66:sF:23:TRP:CD1	2.26	0.70
70:sS:2:SER:HB3	77:sZ:49:LEU:HD13	1.72	0.70
71:sT:104:LEU:HD12	71:sT:121:ARG:HD2	1.71	0.70
76:sM:58:GLU:HB3	76:sM:61:TYR:HB2	1.72	0.70
77:sZ:47:LEU:CD2	77:sZ:80:ARG:N	2.43	0.70
85:l5:513:U:N3	85:l5:516:C:OP2	2.25	0.70
14:Sa:5:ARG:HH21	79:S2:1864:U:H3'	1.55	0.70
85:L5:3688:U:OP2	22:LA:198:ARG:NH2	2.23	0.70
85:L5:4926:C:H5'	85:L5:4927:G:H21	1.57	0.70
67:SK:47:LYS:HZ3	79:S2:1274:G:C4'	1.96	0.70
79:S2:1441:U:O2	79:S2:1443:C:N4	2.25	0.70
63:Lz:199:GLN:NE2	63:Lz:201:VAL:O	2.24	0.70
16:sN:47:PRO:HA	16:sN:50:ILE:HG12	1.72	0.70
75:sg:217:MET:CE	75:sg:219:TRP:HZ2	2.04	0.70
79:s2:1228:A:H2'	79:s2:1229:G:C8	2.27	0.70
3:SI:148:LYS:NZ	79:S2:189:U:OP1	2.24	0.70
85:L5:4872:G:OP2	33:LM:94:LYS:NZ	2.24	0.70
25:LD:111:ASN:HD21	25:LD:252:VAL:HG22	1.54	0.70
45:LZ:46:ILE:HD11	45:LZ:49:TYR:HA	1.73	0.70
47:Lb:55:LYS:HE2	47:Lb:55:LYS:CA	2.11	0.70
54:Li:94:LEU:HD12	54:Li:97:MET:SD	2.31	0.70
84:Lt:111:ASN:OD1	84:Lt:115:GLN:NE2	2.24	0.70
44:lY:48:PRO:O	44:lY:115:ARG:NH2	2.21	0.70
68:sP:64:LYS:NZ	68:sP:88:GLU:O	2.24	0.70
79:s2:1759:G:N2	79:s2:1760:G:O6	2.24	0.70
80:cB:398:ILE:HD13	80:cB:412:ALA:HB1	1.72	0.70
10:SA:42:LYS:HG3	10:SA:44:ASP:H	1.55	0.70
85:L5:1187:G:OP2	85:L5:1187:G:N2	2.17	0.70
85:L5:3873:G:H2'	85:L5:3874:G:C8	2.26	0.70
85:L5:5055:G:N2	49:Ld:118:GLN:OE1	2.22	0.70
31:LJ:20:LEU:HD22	31:LJ:22:LEU:CD1	2.21	0.70
62:Lr:98:ARG:HG2	62:Lr:99:LYS:HD2	1.74	0.70
70:SS:86:ARG:NH2	70:SS:89:ASP:OD1	2.24	0.70
71:ST:25:SER:OG	71:ST:27:LYS:NZ	2.23	0.70
29:lH:8:GLN:HG2	29:lH:9:THR:N	2.05	0.70
32:lL:63:THR:HG21	46:la:66:ASN:HB3	1.72	0.70
56:lk:35:LYS:NZ	85:l5:2693:G:OP1	2.22	0.70
85:l5:189:G:H2'	85:l5:190:G:H8	1.56	0.70
85:l5:513:U:H3'	85:l5:514:U:H4'	1.73	0.70
85:l5:4620:U:OP2	85:l5:4670:C:N4	2.24	0.70
6:SG:142:ARG:HG3	6:SG:147:LEU:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:SJ:63:LEU:O	7:SJ:70:ARG:NH1	2.23	0.70
10:SA:77:ILE:HG22	10:SA:99:ILE:HB	1.72	0.70
51:Lf:40:GLU:O	51:Lf:109:ARG:NH2	2.24	0.70
63:Lz:155:ILE:HG21	63:Lz:168:ALA:HB3	1.73	0.70
4:sL:13:GLN:HE22	4:sL:35:ARG:HD2	1.55	0.70
6:sG:183:ARG:HH22	79:s2:316:G:H3'	1.55	0.70
15:sC:98:LEU:HD11	15:sC:102:LEU:HD22	1.73	0.70
25:lD:232:THR:CB	25:lD:235:MET:HE2	2.21	0.70
31:lJ:35:ARG:NH1	31:lJ:122:SER:O	2.24	0.70
41:lU:81:ARG:HA	41:lU:84:LYS:HB3	1.72	0.70
69:sQ:40:GLU:N	69:sQ:40:GLU:OE1	2.24	0.70
73:sc:62:GLU:OE1	73:sc:62:GLU:N	2.19	0.70
75:sg:217:MET:CB	75:sg:219:TRP:HE1	2.05	0.70
80:cB:527:LEU:HD11	80:cB:557:CYS:HB2	1.74	0.70
85:l5:3697:U:H5"	85:l5:3698:G:H5'	1.72	0.70
8:SY:34:THR:O	79:S2:570:C:O2'	2.09	0.70
85:L5:5041:G:C6	23:LB:389:MET:HE1	2.26	0.70
28:LG:86:ALA:HA	28:LG:183:ILE:HG23	1.72	0.70
72:SU:46:LYS:HE2	72:SU:101:ILE:HG21	1.72	0.70
3:sI:89:GLU:O	3:sI:93:THR:HG22	1.91	0.70
5:sX:95:GLU:OE1	5:sX:140:ARG:NH2	2.25	0.70
14:sa:4:LYS:NZ	79:s2:1863:A:OP2	2.22	0.70
25:lD:232:THR:CG2	25:lD:235:MET:HE2	2.21	0.70
46:la:89:ASN:HA	46:la:92:LYS:HE3	1.72	0.70
78:sf:118:ARG:HB2	78:sf:131:PHE:CE1	2.26	0.70
86:LW:30:GLN:NE2	86:LW:31:PHE:O	2.23	0.70
2:SE:87:MET:SD	2:SE:122:LYS:HG2	2.32	0.70
18:SW:42:MET:SD	18:SW:48:GLY:O	2.50	0.70
29:LH:34:LEU:HB3	29:LH:80:MET:HE1	1.73	0.70
60:Lo:26:TYR:HB3	60:Lo:67:VAL:HG23	1.73	0.70
65:SD:157:MET:HE3	65:SD:159:HIS:HD2	1.51	0.70
79:S2:1101:U:H2'	79:S2:1102:G:C8	2.26	0.70
29:lH:105:ILE:HD11	29:lH:136:VAL:HG23	1.74	0.70
55:lj:5:THR:OG1	85:l5:1601:A:OP1	2.10	0.70
58:lm:103:LEU:HD21	58:lm:110:CYS:HA	1.73	0.70
64:sR:41:ILE:HB	79:s2:1387:G:C4	2.27	0.70
80:cB:16:LYS:NZ	80:cB:387:SER:O	2.23	0.70
83:ls:34:ASN:HD21	85:l5:1968:G:C5'	2.04	0.70
18:SW:50:PHE:HB3	18:SW:63:VAL:HG23	1.72	0.70
79:S2:567:C:O2'	79:S2:583:A:N6	2.25	0.70
23:lB:268:ARG:NH2	85:l5:3896:C:O2'	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:sR:27:ASP:HB3	79:s2:1455:A:H5”	1.73	0.70
64:sR:126:MET:CE	64:sR:129:LYS:HD3	2.21	0.70
85:L5:453:G:OP1	26:LE:228:GLN:NE2	2.24	0.70
31:LJ:113:ILE:H	31:LJ:113:ILE:HD12	1.56	0.70
42:LV:82:ILE:HD12	42:LV:103:GLY:HA2	1.72	0.70
67:SK:25:LYS:HD3	67:SK:62:PHE:HZ	1.57	0.70
76:SM:65:VAL:HA	76:SM:68:LEU:HB3	1.73	0.70
79:S2:925:G:H1	79:S2:1017:U:H3	0.76	0.70
79:S2:1829:G:H1’	79:S2:1850:A:H2	1.55	0.70
21:l8:124:U:OP1	21:l8:126:C:N4	2.23	0.70
32:lL:9:VAL:HG11	46:la:52:TYR:HE1	1.57	0.70
71:sT:88:MET:CE	79:s2:1665:G:N7	2.49	0.70
80:cB:580:ARG:CG	80:cB:817:TRP:CZ3	2.74	0.70
83:ls:38:LYS:NZ	85:l5:1971:C:H4’	2.07	0.70
12:SH:44:ASN:HD21	12:SH:65:PRO:HG3	1.56	0.70
85:L5:3974:G:H2’	63:Lz:24:LYS:HD2	1.73	0.70
85:L5:4353:U:H5”	85:L5:4354:U:H5’	1.72	0.70
47:Lb:30:GLU:OE2	47:Lb:30:GLU:N	2.25	0.70
79:S2:1244:U:H2’	79:S2:1245:G:H8	1.55	0.70
1:cH:61:LEU:O	65:sD:108:LYS:NZ	2.25	0.69
6:sG:64:LYS:NZ	6:sG:82:SER:C	2.50	0.69
60:lo:86:LYS:NZ	85:l5:4331:G:O6	2.24	0.69
65:sD:76:ARG:O	65:sD:76:ARG:NH1	2.23	0.69
71:sT:124:THR:HG23	71:sT:127:GLY:H	1.57	0.69
75:sg:109:LEU:HD11	75:sg:125:ARG:HD3	1.74	0.69
86:LW:52:THR:CA	86:LW:55:TYR:CE1	2.72	0.69
5:SX:107:ARG:HG3	5:SX:110:HIS:HB3	1.74	0.69
7:SJ:122:SER:O	7:SJ:125:HIS:N	2.24	0.69
8:SY:45:ALA:HB3	8:SY:52:PRO:HD2	1.74	0.69
85:L5:2081:C:H5”	37:LQ:11:ARG:HG3	1.74	0.69
47:Lb:55:LYS:HZ1	47:Lb:58:GLN:NE2	1.82	0.69
65:SD:157:MET:N	65:SD:189:MET:CE	2.55	0.69
11:sB:87:ILE:O	11:sB:98:THR:OG1	2.07	0.69
10:SA:109:THR:O	10:SA:111:GLN:NE2	2.25	0.69
85:L5:1461:C:H2’	85:L5:1462:A:H8	1.57	0.69
26:LE:57:TYR:HB2	26:LE:62:MET:SD	2.32	0.69
34:LN:51:LEU:HD22	34:LN:117:ASN:HD21	1.58	0.69
49:Ld:29:ILE:H	49:Ld:29:ILE:HD12	1.57	0.69
75:Sg:27:PHE:CD1	75:Sg:30:MET:HG2	2.27	0.69
75:Sg:87:LEU:HB2	75:Sg:101:PHE:CD2	2.27	0.69
13:sV:34:MET:O	13:sV:52:THR:OG1	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:sC:121:ARG:HH22	15:sC:123:ARG:HH11	0.71	0.69
37:lQ:88:ASP:OD2	37:lQ:89:ASP:N	2.25	0.69
76:sM:40:LYS:NZ	76:sM:43:ASP:OD2	2.24	0.69
85:l5:502:C:H3'	85:l5:503:C:H3'	1.74	0.69
85:l5:2906:G:H1'	85:l5:2908:U:H1'	1.73	0.69
8:SY:83:LYS:HE3	8:SY:91:LEU:HD12	1.73	0.69
85:L5:161:G:H2'	85:L5:162:A:H8	1.56	0.69
70:SS:2:SER:HB3	77:SZ:49:LEU:HD21	1.74	0.69
4:sL:137:THR:OG1	79:s2:373:G:OP1	2.10	0.69
34:lN:164:LEU:O	34:lN:169:ARG:NH2	2.25	0.69
37:lQ:173:LYS:NZ	85:l5:88:A:N7	2.41	0.69
73:sc:20:ARG:HD3	73:sc:28:THR:HG22	1.74	0.69
77:sZ:47:LEU:CD1	77:sZ:78:LYS:HD2	2.22	0.69
79:s2:1115:U:O2'	79:s2:1117:C:OP2	2.10	0.69
80:cB:158:ASN:OD1	80:cB:159:LYS:N	2.25	0.69
83:ls:20:LEU:HD21	83:ls:90:PHE:CD1	2.25	0.69
85:l5:4742:G:H2'	85:l5:4743:G:H8	1.56	0.69
86:LW:52:THR:C	86:LW:55:TYR:CE1	2.71	0.69
85:L5:1095:A:H2	85:L5:1200:G:H1	0.78	0.69
85:L5:1645:C:H2'	85:L5:1646:A:C8	2.26	0.69
85:L5:3607:U:H2'	85:L5:3608:A:H8	1.57	0.69
85:L5:3967:G:O6	85:L5:4055:U:O4	2.11	0.69
22:LA:36:GLU:OE1	22:LA:163:ARG:NH1	2.23	0.69
31:LJ:99:PHE:CE2	31:LJ:163:MET:SD	2.85	0.69
79:S2:851:C:H5"	79:S2:852:G:H5'	1.74	0.69
83:Ls:30:VAL:HG22	83:Ls:189:ILE:HG22	1.75	0.69
11:sB:133:TYR:CD2	11:sB:181:LEU:HD13	2.28	0.69
23:lB:90:VAL:HG22	23:lB:104:THR:HG23	1.75	0.69
38:lR:157:ASP:OD2	38:lR:158:GLN:N	2.25	0.69
73:sc:20:ARG:NH2	79:s2:1679:A:OP1	2.25	0.69
79:s2:588:G:H4'	79:s2:589:G:H5'	1.72	0.69
79:s2:851:C:H5"	79:s2:852:G:H5'	1.75	0.69
84:lt:142:ASN:HD22	84:lt:148:PRO:HB3	1.57	0.69
85:l5:1091:C:H2'	85:l5:1092:G:H8	1.57	0.69
86:LW:55:TYR:HA	86:LW:58:LYS:HB3	1.74	0.69
15:SC:258:GLU:N	15:SC:258:GLU:OE1	2.24	0.69
85:L5:441:G:H2'	85:L5:442:G:H8	1.58	0.69
85:L5:679:C:H2'	85:L5:680:G:H8	1.56	0.69
32:LL:55:ILE:HA	32:LL:154:VAL:HG21	1.74	0.69
36:LP:75:GLN:N	36:LP:75:GLN:OE1	2.25	0.69
37:LQ:122:THR:OG1	37:LQ:124:ASP:OD1	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:SQ:43:GLU:HB3	69:SQ:44:PRO:HD3	1.72	0.69
79:S2:1781:A:O2'	79:S2:1782:G:N7	2.25	0.69
6:sG:64:LYS:NZ	6:sG:82:SER:N	2.41	0.69
18:sW:115:GLU:OE2	18:sW:115:GLU:N	2.21	0.69
50:le:89:LEU:HD23	50:le:90:MET:HG3	1.75	0.69
85:l5:2579:G:N2	85:l5:2582:A:OP2	2.24	0.69
6:SG:233:ARG:HG2	6:SG:234:LEU:HG	1.75	0.69
85:L5:964:A:H2'	85:L5:965:G:H4'	1.74	0.69
26:LE:113:PRO:HB2	26:LE:116:TYR:HE1	1.57	0.69
61:Lp:30:GLU:HA	61:Lp:33:GLN:HG2	1.73	0.69
72:SU:19:ARG:NH2	79:S2:1433:C:O2	2.26	0.69
79:S2:603:C:N4	79:S2:620:G:O6	2.25	0.69
88:CF:193:ILE:HB	88:CF:201:MET:HE2	1.75	0.69
88:CF:255:LYS:HB2	88:CF:317:VAL:HG11	1.73	0.69
31:lJ:32:ARG:HA	31:lJ:35:ARG:HE	1.56	0.69
72:sU:16:ALA:O	72:sU:18:HIS:ND1	2.25	0.69
72:sU:48:LEU:HD23	72:sU:49:LYS:N	2.08	0.69
85:l5:1961:G:N2	85:l5:2024:G:O2'	2.25	0.69
6:SG:135:PRO:HA	79:S2:169:U:H5"	1.74	0.69
85:L5:25:A:N6	85:L5:58:G:H1	1.90	0.69
24:LC:135:ALA:HA	62:Lr:43:LEU:HD12	1.75	0.69
88:CF:94:GLY:H	88:CF:102:MET:HE2	1.56	0.69
2:sE:146:THR:HG21	79:s2:122:G:H21	1.58	0.69
9:se:22:GLN:O	9:se:24:LYS:HD2	1.93	0.69
11:sB:89:GLU:OE1	11:sB:99:ASN:CG	2.36	0.69
19:sb:21:LYS:NZ	19:sb:26:GLN:OE1	2.25	0.69
20:l7:74:A:N3	39:lS:53:LYS:NZ	2.38	0.69
21:l8:67:U:H2'	21:l8:68:G:H8	1.58	0.69
23:lB:57:VAL:HB	23:lB:367:PHE:HB3	1.75	0.69
23:lB:95:THR:HG22	85:l5:4910:G:H4'	1.74	0.69
33:lM:56:GLN:NE2	85:l5:4870:G:C4	2.60	0.69
39:lS:82:LEU:HD11	39:lS:113:MET:HE3	1.74	0.69
42:lV:111:GLU:OE2	42:lV:131:ARG:NH1	2.24	0.69
46:la:76:ASP:HB3	46:la:115:GLY:HA3	1.73	0.69
55:lj:46:LYS:NZ	85:l5:23:C:OP2	2.25	0.69
65:sD:194:PRO:HD3	65:sD:199:GLY:O	1.91	0.69
71:sT:88:MET:CE	79:s2:1665:G:C5	2.76	0.69
79:s2:835:C:H5'	79:s2:836:G:H5'	1.75	0.69
79:s2:996:A:H2'	79:s2:997:A:C8	2.27	0.69
80:cB:836:ALA:O	80:cB:840:LYS:NZ	2.25	0.69
83:ls:101:MET:O	83:ls:105:ASN:ND2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4093:G:N2	85:l5:4114:C:N3	2.40	0.69
85:l5:4907:G:N2	85:l5:4914:C:O2	2.16	0.69
15:SC:257:LYS:NZ	15:SC:258:GLU:O	2.22	0.69
85:L5:1480:C:O2'	85:L5:1482:G:OP2	2.10	0.69
85:L5:2611:A:H5'	85:L5:2688:G:H4'	1.73	0.69
85:L5:4635:A:OP1	85:L5:4636:U:O2'	2.11	0.69
26:LE:244:GLU:HA	26:LE:247:LYS:HG3	1.73	0.69
38:LR:163:ARG:HG3	79:S2:873:G:H5'	1.74	0.69
41:LU:28:PRO:CB	41:LU:33:ILE:HD11	2.23	0.69
79:S2:1228:A:H2'	79:S2:1229:G:C8	2.28	0.69
88:CF:360:VAL:HA	88:CF:369:ALA:HA	1.75	0.69
69:sQ:131:LYS:NZ	79:s2:1479:G:O2'	2.26	0.69
80:cB:692:LEU:O	80:cB:839:ARG:NH1	2.25	0.69
85:L5:1730:U:H1'	40:LT:101:SER:HB3	1.74	0.69
85:L5:2730:U:OP1	52:Lg:19:LYS:NZ	2.25	0.69
85:L5:4260:U:H2'	85:L5:4261:C:H6	1.57	0.69
85:L5:4873:G:C4	35:LO:175:MET:HE2	2.28	0.69
67:SK:25:LYS:HZ1	67:SK:65:ARG:N	1.90	0.69
67:SK:49:MET:HE1	67:SK:69:TRP:CH2	2.28	0.69
68:SP:24:GLN:HB3	68:SP:28:MET:HE3	1.74	0.69
70:SS:23:ARG:HH21	77:SZ:80:ARG:HE	1.40	0.69
63:Lz:147:LYS:HE2	63:Lz:151:VAL:H	1.57	0.69
1:cH:96:ALA:HB2	1:cH:106:ILE:CD1	2.23	0.69
12:sH:47:ALA:HB3	12:sH:63:PHE:HB2	1.73	0.69
17:sO:134:PRO:HB3	79:s2:944:A:H5"	1.74	0.69
39:lS:173:ASN:O	39:lS:173:ASN:ND2	2.26	0.69
53:lh:17:LEU:HD13	53:lh:61:ILE:HG12	1.74	0.69
85:l5:4049:U:O2	85:l5:4051:C:N4	2.26	0.69
85:L5:3877:A:N3	85:L5:4401:G:O2'	2.25	0.69
85:L5:4565:C:OP1	35:LO:65:ASN:ND2	2.20	0.69
20:L7:7:G:H5"	25:LD:22:ARG:HD3	1.75	0.69
21:L8:49:G:OP1	53:Lh:48:ARG:NH1	2.26	0.69
25:LD:50:ARG:NH2	25:LD:52:ILE:HD11	2.08	0.69
52:Lg:111:ALA:O	52:Lg:114:GLN:NE2	2.26	0.69
70:SS:6:PRO:CD	77:SZ:49:LEU:HD23	2.23	0.69
87:AT:21:U:H5'	87:AT:49:C:H42	1.58	0.69
2:sE:64:ILE:HD11	8:sY:18:LEU:CD2	2.24	0.68
42:lV:27:ASN:ND2	42:lV:100:ASP:OD2	2.26	0.68
66:sF:40:ALA:HA	66:sF:45:TYR:OH	1.92	0.68
11:SB:30:TRP:HH2	17:SO:18:GLY:HA2	1.57	0.68
12:SH:93:VAL:HG21	12:SH:133:LEU:HD12	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2565:A:H3'	85:L5:2566:G:H8	1.58	0.68
85:L5:3680:U:OP1	22:LA:54:ARG:NH2	2.26	0.68
85:L5:5051:C:H4'	23:LB:324:GLY:HA2	1.74	0.68
37:LQ:147:GLU:OE2	37:LQ:147:GLU:N	2.25	0.68
39:LS:92:ASN:OD1	40:LT:156:TYR:N	2.27	0.68
79:S2:1656:G:O6	79:S2:1668:U:O4	2.11	0.68
3:sI:113:TYR:CZ	3:sI:158:ILE:HD11	2.29	0.68
15:sC:212:LYS:O	15:sC:216:MET:HG2	1.93	0.68
42:lV:77:HIS:HB2	42:lV:105:ILE:HD11	1.76	0.68
70:sS:88:LYS:H	70:sS:95:TYR:HD1	1.41	0.68
71:sT:143:LYS:NZ	71:sT:144:LYS:HE2	2.08	0.68
10:SA:191:ARG:NH2	13:SV:44:GLY:O	2.25	0.68
17:SO:42:VAL:HG22	17:SO:42:VAL:O	1.93	0.68
22:LA:142:GLU:OE2	22:LA:142:GLU:N	2.23	0.68
42:LV:107:ASN:HD21	42:LV:111:GLU:HB2	1.58	0.68
72:SU:37:ALA:C	72:SU:41:ARG:CZ	2.66	0.68
88:CF:294:MET:HB3	88:CF:308:VAL:HG23	1.75	0.68
11:sB:97:LEU:HB2	11:sB:232:HIS:CE1	2.29	0.68
42:lV:116:ALA:O	42:lV:117:ILE:HD13	1.93	0.68
67:sK:32:HIS:CE1	67:sK:34:GLU:HG2	2.28	0.68
75:sg:11:LEU:HD21	75:sg:52:TYR:HB2	1.74	0.68
85:l5:3710:G:N2	85:l5:3711:A:N7	2.40	0.68
86:LW:21:TYR:HB3	86:LW:29:PHE:HB2	1.76	0.68
12:SH:8:ILE:HG13	12:SH:9:VAL:HG23	1.75	0.68
85:L5:262:G:H2'	85:L5:263:G:C8	2.29	0.68
85:L5:1346:C:H2'	85:L5:1347:G:H8	1.58	0.68
9:se:23:GLU:C	9:se:24:LYS:HD2	2.18	0.68
64:sR:3:ARG:HG3	79:s2:1367:U:H5"	1.74	0.68
69:sQ:43:GLU:O	69:sQ:45:ARG:N	2.26	0.68
85:l5:85:G:O2'	85:l5:97:G:O6	2.10	0.68
85:l5:1768:C:N3	85:l5:1772:C:N4	2.41	0.68
11:SB:144:LYS:HD2	11:SB:206:PRO:HB2	1.75	0.68
85:L5:3946:G:H1	85:L5:4067:U:H3	1.40	0.68
85:L5:4548:A:N6	89:Pt:74:C:OP1	2.26	0.68
85:L5:4683:U:OP2	85:L5:4706:G:N1	2.21	0.68
85:L5:5057:C:H2'	85:L5:5058:A:C8	2.29	0.68
22:LA:124:GLY:O	22:LA:128:ARG:NH1	2.26	0.68
31:LJ:13:ARG:O	31:LJ:136:ARG:NH1	2.26	0.68
53:Lh:27:GLU:OE1	53:Lh:50:VAL:HG21	1.92	0.68
67:SK:47:LYS:HD2	67:SK:50:GLN:NE2	2.06	0.68
10:sA:85:ARG:NH2	10:sA:89:LYS:NZ	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:sW:102:ILE:HD13	18:sW:128:PHE:HB3	1.75	0.68
26:lE:188:ARG:NH2	85:l5:4941:G:OP2	2.26	0.68
56:lk:34:PHE:CE1	56:lk:56:LEU:HD22	2.28	0.68
61:lp:59:SER:O	85:l5:2652:G:N2	2.27	0.68
75:sg:217:MET:HE3	75:sg:219:TRP:CZ2	2.28	0.68
79:s2:861:A:O2'	79:s2:862:A:N7	2.26	0.68
10:SA:23:THR:CB	10:SA:174:MET:HE1	2.23	0.68
16:SN:124:ARG:NH1	79:S2:677:G:OP1	2.27	0.68
85:L5:1819:G:C6	25:LD:113:PHE:CZ	2.82	0.68
85:L5:1819:G:C2	25:LD:113:PHE:CE2	2.81	0.68
85:L5:2520:C:H2'	85:L5:2521:G:H8	1.57	0.68
85:L5:5062:G:O6	23:LB:124:LYS:NZ	2.27	0.68
21:L8:94:G:N3	55:Lj:82:THR:OG1	2.26	0.68
21:L8:153:C:H2'	21:L8:154:G:H8	1.58	0.68
26:LE:244:GLU:HA	26:LE:247:LYS:HD3	1.75	0.68
38:LR:99:MET:HE2	38:LR:99:MET:CA	2.24	0.68
43:LX:156:ILE:H	43:LX:156:ILE:HD12	1.57	0.68
71:ST:6:VAL:HG12	71:ST:135:ALA:HB2	1.73	0.68
79:S2:488:U:H5"	88:CF:290:LYS:HE3	1.75	0.68
3:sI:67:TRP:CH2	3:sI:162:LEU:HD23	2.28	0.68
3:sI:184:ARG:NH2	79:s2:303:C:O2	2.26	0.68
9:se:41:ARG:HG3	9:se:42:PHE:HD1	1.59	0.68
70:sS:113:ARG:O	70:sS:117:ILE:HG22	1.93	0.68
79:s2:304:C:H5"	79:s2:305:U:H5'	1.76	0.68
85:l5:382:G:N1	85:l5:385:A:OP2	2.26	0.68
85:l5:2658:G:N2	85:l5:2676:A:OP2	2.21	0.68
3:SI:161:LEU:HG	3:SI:195:LEU:HD12	1.76	0.68
12:SH:157:HIS:CE1	12:SH:189:PHE:C	2.71	0.68
22:LA:40:TYR:HA	22:LA:91:GLY:HA3	1.75	0.68
29:LH:92:MET:SD	29:LH:180:TYR:O	2.52	0.68
88:CF:11:VAL:HG21	88:CF:106:THR:HG22	1.74	0.68
11:sB:151:ARG:HH21	64:sR:133:GLY:HA3	1.57	0.68
85:l5:261:G:H2'	85:l5:262:G:C8	2.29	0.68
14:Sa:49:ALA:O	17:SO:117:ARG:NH1	2.27	0.68
85:L5:27:C:OP1	34:LN:193:ARG:NH1	2.27	0.68
32:LL:201:GLU:C	32:LL:205:GLN:HE21	1.96	0.68
75:Sg:42:MET:HE3	75:Sg:42:MET:C	2.18	0.68
76:SM:26:LEU:HB3	76:SM:31:LEU:HD11	1.76	0.68
28:lG:175:ARG:CZ	28:lG:230:TYR:CE1	2.76	0.68
31:lJ:18:ARG:HB3	31:lJ:133:VAL:HG23	1.75	0.68
37:lQ:175:GLU:O	85:l5:1497:A:N6	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:lz:209:THR:HA	85:l5:4052:C:H1'	1.76	0.68
64:sR:93:GLN:O	64:sR:95:ILE:CD1	2.41	0.68
70:sS:25:LYS:HZ2	79:s2:1597:C:H5'	1.59	0.68
70:sS:110:ASP:OD1	70:sS:113:ARG:NH2	2.26	0.68
79:s2:1396:A:N7	79:s2:1449:G:O6	2.26	0.68
10:SA:122:LEU:HB3	10:SA:144:THR:HG22	1.76	0.68
18:SW:16:ASN:ND2	79:S2:1094:C:O2	2.27	0.68
18:SW:102:ILE:HD12	18:SW:128:PHE:HB3	1.75	0.68
85:L5:493:G:C6	85:L5:660:A:N1	2.62	0.68
85:L5:2262:G:OP2	62:Lr:98:ARG:NH1	2.26	0.68
23:LB:216:MET:SD	23:LB:281:ASN:HA	2.33	0.68
39:LS:95:ARG:NE	39:LS:97:TYR:OH	2.25	0.68
73:Sc:13:ARG:HA	73:Sc:55:VAL:HA	1.75	0.68
79:S2:982:G:H2'	79:S2:983:A:H8	1.57	0.68
2:sE:97:GLU:N	2:sE:97:GLU:OE1	2.25	0.68
18:sW:47:ILE:HD11	18:sW:63:VAL:CG1	2.23	0.68
28:lG:73:ARG:HH12	85:l5:4162:C:H5	1.38	0.68
29:lH:170:LYS:NZ	85:l5:4479:A:OP1	2.27	0.68
39:lS:98:ARG:NH2	85:l5:748:G:O6	2.26	0.68
46:la:77:LYS:O	46:la:80:THR:OG1	2.12	0.68
61:lp:21:SER:OG	85:l5:3693:U:O3'	2.11	0.68
79:s2:1723:G:H22	79:s2:1810:U:H3	1.40	0.68
11:SB:129:THR:OG1	11:SB:179:ASN:O	2.11	0.68
12:SH:30:LEU:O	12:SH:33:ASN:ND2	2.26	0.68
14:Sa:100:ARG:HE	14:Sa:102:ARG:HE	1.42	0.68
85:L5:198:A:OP1	44:LY:126:ARG:NH2	2.27	0.68
30:LI:206:LEU:HD22	30:LI:210:ARG:HH21	1.59	0.68
47:Lb:53:GLY:O	47:Lb:57:MET:SD	2.51	0.68
48:Lc:23:LYS:HD2	48:Lc:23:LYS:C	2.18	0.68
49:Ld:92:ARG:HG2	49:Ld:94:GLU:HB2	1.75	0.68
75:Sg:156:PHE:HA	75:Sg:165:ILE:HG22	1.75	0.68
88:CF:18:SER:O	88:CF:153:ASN:ND2	2.27	0.68
4:sL:18:GLN:HG3	4:sL:33:LEU:CD2	2.22	0.68
9:se:36:MET:SD	9:se:36:MET:C	2.77	0.68
15:sC:121:ARG:CZ	15:sC:123:ARG:HH11	2.04	0.68
15:sC:268:GLU:OE2	15:sC:269:PHE:CZ	2.47	0.68
38:lR:67:THR:O	38:lR:71:ARG:HG3	1.94	0.68
85:l5:663:G:H2'	85:l5:664:G:C8	2.28	0.68
7:SJ:108:ARG:NH2	7:SJ:149:VAL:O	2.27	0.68
85:L5:2756:G:O6	45:LZ:51:ARG:NH2	2.19	0.68
85:L5:3597:G:H5"	38:LR:139:MET:CE	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3975:C:H4'	63:Lz:24:LYS:HB3	1.76	0.68
23:LB:168:MET:CE	23:LB:178:ALA:HA	2.24	0.68
35:LO:3:GLU:HG2	35:LO:5:GLN:HE22	1.58	0.68
52:Lg:85:LYS:HA	52:Lg:88:ARG:HH21	1.58	0.68
77:SZ:78:LYS:HD3	77:SZ:78:LYS:O	1.94	0.68
34:lN:120:TRP:NE1	34:lN:123:GLU:OE2	2.27	0.67
64:sR:23:ARG:O	64:sR:31:ASN:ND2	2.26	0.67
79:s2:1658:G:OP2	79:s2:1660:C:N4	2.26	0.67
85:l5:4478:G:O2'	85:l5:4602:A:N1	2.27	0.67
3:SI:42:ARG:NH1	79:S2:1741:U:OP1	2.26	0.67
14:Sa:3:LYS:NZ	79:S2:1087:A:OP1	2.24	0.67
85:L5:678:C:H2'	85:L5:679:C:H6	1.60	0.67
85:L5:1663:C:H1'	85:L5:2320:G:H21	1.59	0.67
85:L5:4591:U:H2'	85:L5:4592:C:C6	2.30	0.67
21:L8:67:U:H2'	21:L8:68:G:H8	1.58	0.67
28:LG:81:ASN:O	28:LG:84:THR:OG1	2.12	0.67
30:LI:182:GLU:OE2	30:LI:182:GLU:N	2.24	0.67
38:LR:173:ARG:HD2	79:S2:909:G:C5	2.29	0.67
44:LY:52:ASP:HB2	44:LY:110:LYS:HD3	1.76	0.67
79:S2:940:U:H3	79:S2:1002:U:H3	1.42	0.67
7:sJ:122:SER:O	7:sJ:125:HIS:N	2.25	0.67
40:lT:154:ILE:H	40:lT:154:ILE:HD12	1.58	0.67
69:sQ:19:ALA:HB2	69:sQ:75:GLY:HA3	1.77	0.67
79:s2:1755:C:H2'	79:s2:1756:C:C6	2.29	0.67
80:cB:745:TYR:HB2	80:cB:814:PHE:HA	1.74	0.67
84:lt:38:SER:OG	84:lt:65:GLN:NE2	2.27	0.67
85:l5:2495:U:H2'	85:l5:2496:G:H8	1.58	0.67
11:SB:30:TRP:HZ3	17:SO:19:PRO:CD	2.06	0.67
85:L5:1837:A:H2'	85:L5:1838:A:H8	1.59	0.67
45:LZ:25:ILE:HD12	45:LZ:25:ILE:H	1.59	0.67
14:sa:5:ARG:HH12	79:s2:1864:U:H3'	1.58	0.67
64:sR:60:ARG:HD3	64:sR:66:VAL:HB	1.76	0.67
64:sR:67:ARG:HG3	64:sR:69:ILE:HG12	1.75	0.67
79:s2:51:U:O2'	80:cB:449:ARG:NH1	2.27	0.67
85:l5:138:G:H2'	85:l5:139:G:H8	1.57	0.67
85:l5:495:C:H2'	85:l5:496:G:C8	2.29	0.67
85:l5:1974:U:H4'	85:l5:1975:G:H3'	1.75	0.67
85:l5:2486:G:O6	85:l5:2493:G:O6	2.12	0.67
18:SW:106:THR:HG23	18:SW:108:ALA:H	1.58	0.67
22:LA:149:LYS:HD3	22:LA:155:LYS:HE2	1.77	0.67
36:LP:126:ARG:CB	36:LP:140:MET:HE1	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:910:G:H2'	79:S2:911:C:C6	2.29	0.67
7:sJ:28:GLU:HG2	7:sJ:43:VAL:HG11	1.77	0.67
7:sJ:153:SER:OG	79:s2:821:G:O6	2.10	0.67
31:lJ:151:ILE:HD11	31:lJ:156:ARG:HG3	1.76	0.67
32:lL:46:ILE:O	32:lL:46:ILE:HG13	1.95	0.67
39:lS:147:ASP:OD1	39:lS:149:LYS:N	2.26	0.67
64:sR:100:PRO:CD	64:sR:122:PRO:CD	2.70	0.67
69:sQ:109:LYS:C	69:sQ:109:LYS:CD	2.67	0.67
75:sg:210:GLY:HA3	75:sg:236:ILE:HD11	1.76	0.67
78:sf:103:LEU:HD13	78:sf:105:TYR:HB2	1.75	0.67
79:s2:557:U:H2'	79:s2:558:G:C8	2.28	0.67
79:s2:1726:G:O6	79:s2:1809:A:N6	2.26	0.67
79:s2:1779:G:H2'	79:s2:1780:G:C8	2.29	0.67
3:SI:190:LEU:O	3:SI:195:LEU:HD21	1.95	0.67
85:L5:1382:G:H2'	85:L5:1383:G:H8	1.57	0.67
85:L5:1405:C:N4	85:L5:1408:G:N3	2.35	0.67
23:LB:220:ILE:HD11	23:LB:348:ARG:HH11	1.58	0.67
24:LC:192:GLY:O	24:LC:195:LYS:NZ	2.28	0.67
25:LD:187:SER:OG	25:LD:189:GLU:OE2	2.08	0.67
31:LJ:163:MET:HE1	31:LJ:174:ILE:CG2	2.22	0.67
45:LZ:9:LYS:O	45:LZ:25:ILE:CD1	2.41	0.67
79:S2:691:G:N2	79:S2:691:G:OP2	2.27	0.67
6:sG:29:GLU:OE2	6:sG:29:GLU:N	2.27	0.67
6:sG:188:LYS:O	6:sG:188:LYS:NZ	2.26	0.67
14:sa:46:GLU:OE1	14:sa:46:GLU:O	2.13	0.67
15:sC:169:TYR:OH	15:sC:175:GLY:O	2.12	0.67
35:lO:191:LYS:HE3	35:lO:192:TYR:CZ	2.30	0.67
59:ln:21:ARG:NH2	79:s2:1175:G:OP2	2.27	0.67
70:sS:2:SER:OG	70:sS:4:VAL:O	2.08	0.67
3:SI:25:ARG:NH2	79:S2:434:G:OP2	2.28	0.67
18:SW:55:ASP:HB3	19:Sb:25:VAL:HG22	1.76	0.67
85:L5:1367:C:O2'	85:L5:1369:C:OP2	2.13	0.67
30:LI:48:LEU:HD21	30:LI:142:LEU:HD12	1.75	0.67
32:LL:172:GLU:OE1	54:Li:2:ALA:HA	1.94	0.67
71:ST:112:MET:CE	71:ST:127:GLY:HA2	2.24	0.67
79:S2:165:G:OP2	79:S2:165:G:N2	2.26	0.67
6:sG:215:LYS:NZ	6:sG:219:GLU:OE1	2.28	0.67
20:l7:54:A:C6	31:lJ:12:MET:SD	2.87	0.67
28:lG:95:LEU:HD23	28:lG:95:LEU:C	2.20	0.67
65:sD:68:GLU:HG2	67:sK:93:THR:HB	1.77	0.67
75:sg:17:TRP:H	75:sg:36:ARG:HB2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:sg:66:VAL:HA	75:sg:82:SER:HA	1.76	0.67
2:SE:11:ARG:NH1	2:SE:21:ASP:OD1	2.27	0.67
3:SI:83:TYR:HB2	3:SI:202:ILE:HD11	1.77	0.67
13:SV:22:ARG:NE	13:SV:23:ILE:N	2.30	0.67
18:SW:102:ILE:HG22	18:SW:113:HIS:ND1	2.09	0.67
85:L5:2562:G:N2	85:L5:2565:A:OP2	2.27	0.67
85:L5:2748:C:H4'	52:Lg:65:MET:CE	2.24	0.67
85:L5:3893:C:H2'	85:L5:3894:A:H8	1.60	0.67
34:LN:60:VAL:HG23	34:LN:134:LEU:HB2	1.76	0.67
42:LV:45:ILE:HD13	42:LV:53:PRO:CB	2.20	0.67
48:Lc:77:ASN:N	48:Lc:80:GLU:OE1	2.28	0.67
73:Sc:14:VAL:HB	73:Sc:30:VAL:CG1	2.25	0.67
8:sY:23:MET:HE1	8:sY:25:ILE:HG23	1.75	0.67
41:lU:23:LEU:HB2	41:lU:83:LEU:HD11	1.77	0.67
45:lZ:76:ASN:OD1	45:lZ:77:TYR:N	2.28	0.67
69:sQ:11:GLN:HE22	79:s2:1442:U:H1'	1.58	0.67
69:sQ:26:LYS:HG3	69:sQ:67:ASP:HB2	1.77	0.67
85:l5:1269:G:O2'	85:l5:1440:U:O2'	2.08	0.67
86:LW:9:SER:O	86:LW:53:VAL:N	2.28	0.67
4:SL:59:LYS:HD3	4:SL:134:LEU:HB3	1.75	0.67
15:SC:65:LYS:HD2	15:SC:273:LEU:HD11	1.75	0.67
85:L5:4717:A:OP2	23:LB:30:LYS:NZ	2.27	0.67
44:LY:19:PHE:O	44:LY:26:ARG:NH2	2.27	0.67
67:SK:80:ARG:NH1	67:SK:89:ILE:O	2.27	0.67
26:lE:262:LYS:HD3	26:lE:268:GLN:NE2	2.10	0.67
27:lF:151:ASN:ND2	85:l5:943:A:N7	2.42	0.67
66:sF:59:LYS:NZ	66:sF:60:ARG:O	2.27	0.67
85:l5:989:U:O2	85:l5:1064:G:O6	2.13	0.67
86:LW:104:GLN:O	86:LW:107:GLN:NE2	2.27	0.67
85:L5:1269:G:O2'	85:L5:1440:U:O2'	2.11	0.67
85:L5:1995:G:O2'	84:Lt:122:ALA:O	2.13	0.67
85:L5:3697:U:H5"	85:L5:3698:G:H5'	1.76	0.67
85:L5:4431:U:OP2	30:LI:3:ARG:NH2	2.27	0.67
26:LE:244:GLU:CD	26:LE:244:GLU:H	2.02	0.67
37:LQ:81:VAL:HG22	37:LQ:101:CYS:HB3	1.76	0.67
45:LZ:57:MET:HB2	45:LZ:61:LYS:HD3	1.76	0.67
7:sJ:164:PRO:HG2	79:s2:561:A:H5"	1.77	0.67
10:sA:147:LEU:HD11	10:sA:174:MET:CE	2.11	0.67
37:lQ:4:ASP:O	37:lQ:4:ASP:OD1	2.13	0.67
71:sT:5:THR:HG23	71:sT:7:LYS:H	1.60	0.67
72:sU:28:ASN:ND2	72:sU:31:SER:OG	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1536:G:H2'	79:s2:1537:A:C8	2.29	0.67
15:SC:93:ILE:H	15:SC:93:ILE:HD12	1.60	0.67
85:L5:956:A:H1'	85:L5:2076:G:H5"	1.76	0.67
85:L5:1830:G:H5'	47:Lb:65:MET:HE1	1.77	0.67
20:L7:67:C:OP1	25:LD:14:LYS:NZ	2.26	0.67
21:L8:19:C:H2'	21:L8:20:A:C8	2.29	0.67
26:LE:47:ASN:HB2	26:LE:62:MET:CE	2.25	0.67
26:LE:173:LEU:HD21	26:LE:191:GLN:HB3	1.75	0.67
39:LS:60:GLU:N	39:LS:60:GLU:OE2	2.28	0.67
42:LV:42:VAL:O	42:LV:45:ILE:HG22	1.94	0.67
79:S2:145:G:H2'	79:S2:146:G:C8	2.29	0.67
2:sE:72:ILE:HG13	2:sE:90:ILE:CG2	2.24	0.67
3:sI:37:LYS:NZ	3:sI:93:THR:O	2.28	0.67
63:lz:55:LEU:H	63:lz:154:THR:HG21	1.60	0.67
11:SB:229:MET:SD	11:SB:229:MET:C	2.78	0.67
85:L5:444:G:OP2	51:Lf:55:ASN:ND2	2.25	0.67
85:L5:1095:A:N1	85:L5:1200:G:C6	2.62	0.67
85:L5:4052:C:H3'	63:Lz:208:SER:H	1.59	0.67
20:L7:55:A:O2'	31:LJ:151:ILE:O	2.13	0.67
23:LB:285:TYR:HB2	23:LB:332:MET:HE3	1.76	0.67
31:LJ:27:GLY:HA2	31:LJ:68:ILE:HG23	1.76	0.67
65:SD:156:LEU:C	65:SD:189:MET:CE	2.68	0.67
75:Sg:219:TRP:NE1	75:Sg:226:HIS:HD1	1.92	0.67
75:Sg:219:TRP:NE1	75:Sg:226:HIS:ND1	2.42	0.67
7:sJ:30:LYS:CG	9:se:42:PHE:CE2	2.71	0.66
7:sJ:134:HIS:NE2	79:s2:561:A:O2'	2.26	0.66
11:sB:149:GLN:HG3	64:sR:133:GLY:C	2.20	0.66
12:sH:5:SER:OG	12:sH:6:ALA:N	2.28	0.66
28:lG:175:ARG:NH2	28:lG:230:TYR:CE1	2.63	0.66
85:l5:3614:G:O2'	85:l5:3615:G:OP1	2.13	0.66
16:SN:116:ILE:O	16:SN:119:GLU:OE1	2.12	0.66
85:L5:1254:A:N7	85:L5:1257:A:N6	2.43	0.66
85:L5:1530:G:O2'	55:Lj:45:ARG:NH2	2.28	0.66
65:SD:7:LYS:HZ2	65:SD:10:LYS:CE	2.09	0.66
70:SS:123:LEU:HD13	70:SS:127:TRP:HE1	1.58	0.66
73:Sc:22:GLY:O	73:Sc:26:GLN:NE2	2.28	0.66
75:Sg:246:TYR:HB3	75:Sg:261:LEU:HD13	1.77	0.66
84:Lt:117:ARG:HG3	84:Lt:119:ARG:H	1.61	0.66
30:lI:3:ARG:NH2	85:l5:4431:U:OP2	2.27	0.66
34:lN:184:ILE:HG23	34:lN:194:ARG:HH22	1.60	0.66
53:lh:107:GLN:O	53:lh:111:GLU:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:aP:29:C:H2'	81:aP:30:G:C8	2.30	0.66
84:lt:117:ARG:HG3	84:lt:119:ARG:H	1.60	0.66
10:SA:39:TYR:CD1	64:SR:105:MET:SD	2.88	0.66
85:L5:1353:G:N7	37:LQ:104:ARG:NH2	2.42	0.66
85:L5:1743:A:N1	85:L5:1789:C:O2'	2.27	0.66
85:L5:1819:G:N1	25:LD:113:PHE:CE2	2.64	0.66
21:L8:67:U:H5"	55:Lj:86:PRO:HA	1.75	0.66
26:LE:222:LEU:H	26:LE:237:LYS:HZ2	1.42	0.66
52:Lg:85:LYS:CA	52:Lg:88:ARG:HH21	2.08	0.66
64:SR:123:THR:O	64:SR:124:VAL:HG12	1.94	0.66
71:ST:112:MET:CE	71:ST:127:GLY:CA	2.67	0.66
73:Sc:14:VAL:HB	73:Sc:30:VAL:HG12	1.77	0.66
75:Sg:88:ARG:HG2	75:Sg:100:ARG:HG2	1.77	0.66
63:Lz:1:MET:HG3	63:Lz:2:SER:H	1.59	0.66
10:sA:85:ARG:NH2	10:sA:89:LYS:HZ3	1.94	0.66
20:l7:7:G:OP1	25:lD:33:ARG:NH1	2.27	0.66
21:l8:21:C:OP1	24:lC:195:LYS:NZ	2.28	0.66
43:lX:133:GLU:N	43:lX:133:GLU:OE1	2.29	0.66
78:sf:117:LEU:HD12	78:sf:117:LEU:N	2.10	0.66
85:l5:2257:C:N4	85:l5:2260:C:N3	2.43	0.66
85:l5:3848:U:H2'	85:l5:3849:A:H8	1.60	0.66
3:SI:106:SER:HB3	3:SI:171:LEU:HG	1.76	0.66
10:SA:42:LYS:CE	64:SR:101:ASP:OD2	2.43	0.66
10:SA:87:VAL:HG12	10:SA:175:TRP:CE2	2.30	0.66
85:L5:663:G:H2'	85:L5:664:G:C8	2.30	0.66
85:L5:1270:A:H8	85:L5:2106:G:H21	1.41	0.66
85:L5:1332:C:H2'	85:L5:1333:A:H8	1.60	0.66
85:L5:1401:C:N3	85:L5:1416:G:N1	2.34	0.66
85:L5:1906:U:H2'	85:L5:1907:A:H8	1.60	0.66
85:L5:2458:C:O2'	85:L5:3671:G:N3	2.27	0.66
27:LF:88:LYS:HE3	27:LF:197:VAL:HG22	1.78	0.66
66:SF:76:MET:HE1	66:SF:155:CYS:HA	1.77	0.66
68:SP:57:LEU:HD23	68:SP:60:LEU:HD12	1.78	0.66
87:AT:63:C:H2'	87:AT:64:G:H8	1.61	0.66
63:Lz:30:GLU:OE2	63:Lz:214:GLN:NE2	2.28	0.66
49:ld:33:ILE:HD11	49:ld:45:ALA:CA	2.25	0.66
53:lh:10:ARG:NH2	53:lh:63:GLN:OE1	2.28	0.66
65:sD:205:PRO:HG2	79:s2:1388:A:N3	2.10	0.66
77:sZ:49:LEU:HD12	77:sZ:49:LEU:O	1.95	0.66
79:s2:57:U:O2'	79:s2:499:G:N3	2.28	0.66
79:s2:329:G:H2'	79:s2:330:G:H8	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1266:C:N3	79:s2:1517:G:N2	2.44	0.66
85:l5:62:A:N3	85:l5:77:U:O2'	2.24	0.66
11:SB:183:GLU:HA	11:SB:186:ASN:OD1	1.95	0.66
85:L5:119:G:H22	28:LG:133:PRO:HD2	1.60	0.66
20:L7:63:C:H1'	25:LD:280:VAL:HG21	1.77	0.66
31:LJ:95:ARG:O	31:LJ:175:LEU:N	2.25	0.66
88:CF:250:LEU:HD12	88:CF:324:ASN:HB2	1.76	0.66
63:Lz:93:LEU:HB2	63:Lz:102:LYS:HE2	1.76	0.66
22:lA:116:LEU:HB2	22:lA:126:LEU:HB2	1.76	0.66
48:lc:22:MET:O	48:lc:23:LYS:HG3	1.96	0.66
55:lj:39:TYR:O	55:lj:39:TYR:CG	2.48	0.66
64:sR:28:PHE:H	79:s2:1455:A:H3'	1.60	0.66
64:sR:29:HIS:HB2	79:s2:1455:A:C4	2.30	0.66
85:l5:2520:C:H2'	85:l5:2521:G:H8	1.60	0.66
85:L5:210:C:HO2'	85:L5:234:G:HO2'	1.41	0.66
85:L5:300:A:H2'	85:L5:301:G:H8	1.60	0.66
85:L5:325:U:H2'	85:L5:326:C:C6	2.31	0.66
85:L5:2780:C:H2'	85:L5:2781:G:H8	1.60	0.66
85:L5:4129:G:O6	85:L5:4156:G:N2	2.28	0.66
35:LO:61:ARG:HA	35:LO:70:PRO:HD2	1.76	0.66
1:cH:131:LYS:HB3	1:cH:139:LYS:HB2	1.76	0.66
22:lA:101:VAL:HG22	22:lA:165:VAL:HG22	1.77	0.66
38:lR:163:ARG:NH1	79:s2:871:U:O4	2.29	0.66
41:lU:45:GLU:HA	41:lU:54:GLY:HA2	1.77	0.66
70:sS:46:ARG:NH2	71:sT:48:TYR:O	2.29	0.66
73:sc:44:ARG:NH1	73:sc:63:ARG:HB2	2.11	0.66
75:sg:107:ASP:OD2	75:sg:125:ARG:NH2	2.28	0.66
80:cB:748:GLU:OE1	80:cB:785:LYS:NZ	2.29	0.66
85:l5:3967:G:O6	85:l5:4055:U:O4	2.14	0.66
3:SI:5:ARG:NH1	79:S2:380:G:N3	2.42	0.66
10:SA:74:VAL:HG12	10:SA:121:LEU:HB3	1.77	0.66
30:LI:47:PRO:HG2	30:LI:48:LEU:CD1	2.25	0.66
68:SP:33:LEU:HA	68:SP:36:LEU:HB2	1.77	0.66
31:lJ:41:GLU:OE2	31:lJ:41:GLU:N	2.28	0.66
34:lN:7:ILE:HD11	34:lN:46:ASP:HB3	1.77	0.66
38:lR:92:LYS:NZ	85:l5:1573:G:OP1	2.28	0.66
67:sK:32:HIS:HE1	67:sK:34:GLU:HG2	1.60	0.66
11:SB:38:MET:SD	11:SB:38:MET:N	2.68	0.66
85:L5:1700:G:OP2	85:L5:1704:C:N4	2.28	0.66
85:L5:1914:C:H4'	35:LO:89:PRO:HD3	1.78	0.66
32:LL:48:PRO:HB2	53:Lh:120:ALA:HB2	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LY:100:HIS:ND1	44:LY:102:SER:OG	2.26	0.66
65:SD:161:GLY:HA3	79:S2:1388:A:H61	1.61	0.66
71:ST:112:MET:O	71:ST:112:MET:SD	2.54	0.66
79:S2:389:A:H2'	79:S2:390:C:C6	2.31	0.66
87:AT:18:G:O2'	87:AT:19:G:N7	2.28	0.66
8:sY:20:ARG:CZ	8:sY:22:GLN:NE2	2.57	0.66
11:sB:136:ARG:HB3	11:sB:216:LYS:HG3	1.77	0.66
18:sW:90:GLN:HE22	18:sW:113:HIS:CD2	2.14	0.66
37:lQ:66:MET:HE1	37:lQ:86:ILE:HD12	1.77	0.66
51:lf:11:PHE:HB2	51:lf:101:ILE:CD1	2.25	0.66
60:lo:11:PHE:O	60:lo:81:ARG:NH2	2.28	0.66
79:s2:557:U:H5'	79:s2:558:G:H8	1.61	0.66
83:ls:83:ARG:NH1	85:l5:2022:C:OP1	2.29	0.66
83:ls:132:PRO:HB3	83:ls:147:ILE:HG12	1.76	0.66
7:SJ:122:SER:OG	79:S2:527:C:OP1	2.11	0.66
14:Sa:53:ILE:H	14:Sa:53:ILE:HD12	1.60	0.66
15:SC:114:LYS:NZ	79:S2:1202:U:O2'	2.29	0.66
85:L5:72:C:C2	54:Li:15:HIS:ND1	2.63	0.66
85:L5:109:G:OP2	32:LL:74:ARG:NH2	2.29	0.66
85:L5:1812:C:C1'	47:Lb:57:MET:HE1	2.25	0.66
20:L7:6:C:OP2	25:LD:22:ARG:NH2	2.29	0.66
39:LS:83:ARG:NH1	39:LS:125:GLN:OE1	2.28	0.66
3:sI:83:TYR:HB2	3:sI:202:ILE:HD11	1.77	0.66
4:sL:119:ASP:OD2	4:sL:147:LYS:NZ	2.25	0.66
10:sA:126:ASP:OD1	10:sA:165:ASN:ND2	2.28	0.66
28:lG:29:ASN:HD21	28:lG:31:LEU:HB2	1.60	0.66
28:lG:95:LEU:HD23	28:lG:95:LEU:O	1.96	0.66
32:lL:59:VAL:HG21	32:lL:73:GLY:HA3	1.78	0.66
34:lN:77:LYS:NZ	85:l5:1626:G:OP2	2.29	0.66
71:sT:143:LYS:CD	71:sT:144:LYS:HG2	2.26	0.66
74:sd:10:HIS:NE2	79:s2:1261:C:O2	2.25	0.66
76:sM:106:CYS:SG	79:s2:1284:A:O2'	2.53	0.66
85:l5:3611:A:H2	85:l5:5016:A:H8	1.44	0.66
6:SG:22:ARG:NH2	6:SG:40:ALA:O	2.28	0.66
10:SA:37:TYR:HA	10:SA:53:ARG:HD2	1.78	0.66
85:L5:2884:G:H2'	85:L5:2885:A:H8	1.59	0.66
85:L5:4174:U:H2'	85:L5:4175:G:H8	1.61	0.66
28:LG:58:PRO:HD2	28:LG:61:ILE:HD12	1.76	0.66
35:LO:158:GLU:HA	35:LO:161:LYS:HD2	1.77	0.66
36:LP:35:ALA:O	36:LP:39:MET:HE1	1.95	0.66
64:SR:21:TYR:HH	64:SR:61:ILE:HD12	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:SR:74:GLN:OE1	64:SR:74:GLN:N	2.29	0.66
65:SD:226:GLN:NE2	75:Sg:224:GLY:O	2.29	0.66
2:sE:64:ILE:HD11	8:sY:18:LEU:CG	2.26	0.66
2:sE:136:ILE:HB	2:sE:149:TYR:HE1	1.60	0.66
9:se:41:ARG:NH2	79:s2:639:C:OP1	2.26	0.66
12:sH:101:LEU:HD13	12:sH:120:ARG:HB3	1.77	0.66
16:sN:124:ARG:NH2	79:s2:1024:A:OP2	2.29	0.66
24:lC:13:GLU:CD	24:lC:157:LYS:HD3	2.21	0.66
25:lD:212:MET:HG3	25:lD:219:TYR:CE2	2.31	0.66
28:lG:175:ARG:CZ	28:lG:230:TYR:CD1	2.79	0.66
39:lS:169:THR:HG22	85:l5:4875:G:H2'	1.78	0.66
52:lg:5:LEU:HD11	52:lg:30:ILE:HG22	1.78	0.66
66:sF:77:MET:HE1	66:sF:86:LYS:HB2	1.77	0.66
79:s2:116:U:H3	79:s2:347:G:H1	1.43	0.66
80:cB:42:LYS:O	80:cB:79:TYR:OH	2.12	0.66
6:SG:63:MET:HB2	6:SG:98:ARG:HB3	1.77	0.66
16:SN:64:ARG:NH2	79:S2:919:A:OP2	2.29	0.66
19:Sb:42:LYS:NZ	19:Sb:58:GLY:H	1.94	0.66
85:L5:2285:A:H2'	85:L5:2286:G:H8	1.61	0.66
85:L5:2483:G:H1	85:L5:2495:U:H3	1.44	0.66
85:L5:4626:A:H4'	23:LB:53:MET:HE3	1.78	0.66
20:L7:114:U:H2'	20:L7:115:A:H8	1.60	0.66
28:LG:230:TYR:HA	28:LG:233:ILE:CG2	2.26	0.66
44:LY:113:LYS:NZ	44:LY:114:ASP:OD1	2.29	0.66
47:Lb:55:LYS:O	47:Lb:55:LYS:CD	2.40	0.66
76:SM:45:ARG:HD3	76:SM:45:ARG:H	1.60	0.66
88:CF:92:ALA:HB1	88:CF:102:MET:SD	2.35	0.66
21:l8:21:C:N3	85:l5:379:G:N1	2.37	0.65
28:lG:58:PRO:HD2	28:lG:61:ILE:HD12	1.78	0.65
29:lH:173:ARG:NH1	85:l5:4475:G:OP2	2.30	0.65
34:lN:4:TYR:OH	85:l5:151:G:OP2	2.09	0.65
39:lS:173:ASN:ND2	39:lS:173:ASN:C	2.53	0.65
69:sQ:89:SER:HB3	69:sQ:112:LEU:HD21	1.78	0.65
78:sf:108:VAL:HB	78:sf:112:GLY:HA2	1.76	0.65
79:s2:1562:C:H2'	79:s2:1563:G:H8	1.58	0.65
80:cB:27:HIS:CD2	80:cB:138:GLN:HB2	2.32	0.65
81:aP:50:U:O4	81:aP:64:G:O6	2.14	0.65
82:pE:42:G:H2'	82:pE:43:A:C8	2.31	0.65
85:l5:1426:G:N1	85:l5:1458:C:OP2	2.26	0.65
85:l5:1596:U:O2	85:l5:3861:A:O2'	2.12	0.65
85:l5:3717:A:OP2	85:l5:3735:G:N2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SE:87:MET:HE1	2:SE:100:ARG:HH12	1.59	0.65
10:SA:128:ARG:HG2	10:SA:153:PRO:HD2	1.77	0.65
85:L5:182:G:H2'	85:L5:183:C:H4'	1.78	0.65
85:L5:4896:G:H2'	85:L5:4897:G:C8	2.31	0.65
26:LE:103:GLY:O	26:LE:105:ARG:NH1	2.29	0.65
6:sG:58:LYS:HB2	6:sG:59:GLN:HE21	1.60	0.65
8:sY:34:THR:O	79:s2:570:C:O2'	2.13	0.65
8:sY:109:GLU:HB3	8:sY:113:ARG:HH21	1.61	0.65
10:sA:174:MET:SD	10:sA:175:TRP:N	2.69	0.65
12:sH:144:ILE:H	12:sH:144:ILE:HD12	1.61	0.65
23:lB:77:THR:HG21	23:lB:337:VAL:HG12	1.78	0.65
27:lF:157:ARG:NE	27:lF:248:ASN:OD1	2.26	0.65
30:lI:183:ASP:OD2	30:lI:184:MET:N	2.29	0.65
66:sF:145:ARG:HH12	73:sc:47:LYS:HE2	1.61	0.65
75:sg:122:SER:O	75:sg:129:ILE:HG13	1.94	0.65
75:sg:298:LEU:HB3	75:sg:310:TRP:HB2	1.77	0.65
10:SA:68:ILE:HG22	10:SA:120:ARG:HH21	1.61	0.65
85:L5:1336:G:H2'	85:L5:2346:C:H42	1.61	0.65
31:LJ:20:LEU:HD23	31:LJ:20:LEU:C	2.20	0.65
45:LZ:14:LEU:HD21	45:LZ:81:MET:HB2	1.77	0.65
46:La:118:PRO:HG2	46:La:120:GLN:HE22	1.61	0.65
66:SF:48:TYR:HD1	69:SQ:49:TYR:CD2	2.13	0.65
79:S2:670:A:O2'	79:S2:1163:C:O2'	2.14	0.65
79:S2:1179:G:N2	79:S2:1182:A:OP2	2.29	0.65
83:Ls:65:ILE:HA	83:Ls:69:LEU:HD23	1.78	0.65
9:se:34:ARG:HA	9:se:37:GLN:HE22	1.60	0.65
27:lF:53:LYS:NZ	27:lF:189:ASP:OD2	2.29	0.65
51:lf:77:ALA:HA	51:lf:84:VAL:HG23	1.78	0.65
64:sR:3:ARG:HH12	79:s2:1467:C:H1'	1.60	0.65
66:sF:100:ILE:HG21	66:sF:111:VAL:HG11	1.78	0.65
74:sd:16:GLN:O	74:sd:27:ARG:NH1	2.29	0.65
75:sg:223:GLU:CD	75:sg:225:LYS:HG3	2.21	0.65
3:SI:34:ALA:HB2	3:SI:56:ARG:HD2	1.76	0.65
7:SJ:145:PRO:HD2	79:S2:522:A:H5"	1.77	0.65
13:SV:59:ILE:CA	13:SV:62:MET:HE3	2.22	0.65
85:L5:370:U:HO2'	55:Lj:16:HIS:HD1	1.41	0.65
25:LD:234:ASP:O	25:LD:235:MET:SD	2.54	0.65
28:LG:29:ASN:HD21	28:LG:31:LEU:HB2	1.60	0.65
28:LG:204:PHE:HE1	28:LG:207:VAL:CG2	2.09	0.65
48:Lc:78:ASN:OD1	48:Lc:79:ILE:HD12	1.96	0.65
67:SK:64:TRP:CG	74:Sd:23:VAL:HG13	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:Sd:16:GLN:NE2	74:Sd:27:ARG:O	2.28	0.65
79:S2:389:A:H2'	79:S2:390:C:H6	1.61	0.65
88:CF:30:LYS:HE3	88:CF:202:LEU:HD22	1.78	0.65
88:CF:111:CYS:SG	88:CF:112:ALA:N	2.69	0.65
3:sI:5:ARG:NH2	79:s2:384:U:O4	2.30	0.65
28:lG:105:GLU:OE2	28:lG:105:GLU:N	2.22	0.65
32:lL:59:VAL:HG13	85:l5:74:G:H5'	1.78	0.65
43:lX:53:ARG:HG2	85:l5:12:A:H4'	1.78	0.65
60:lo:36:GLN:OE1	60:lo:40:ARG:NH2	2.29	0.65
64:sR:13:ALA:H	64:sR:14:ARG:NH1	1.95	0.65
65:sD:134:CYS:SG	65:sD:135:GLU:N	2.70	0.65
66:sF:106:GLU:OE1	66:sF:107:ASN:N	2.29	0.65
75:sg:45:LEU:O	75:sg:47:ARG:NH1	2.27	0.65
79:s2:526:A:H2'	79:s2:527:C:C6	2.32	0.65
80:cB:605:LYS:HD2	80:cB:705:HIS:CD2	2.31	0.65
85:l5:308:G:N2	85:l5:308:G:OP2	2.28	0.65
85:l5:2407:G:N2	85:l5:2407:G:OP2	2.30	0.65
23:LB:57:VAL:HG22	23:LB:73:VAL:HG12	1.78	0.65
26:LE:218:LYS:O	26:LE:220:LYS:NZ	2.29	0.65
27:LF:190:LEU:HD11	27:LF:208:LEU:HD11	1.78	0.65
76:SM:36:ARG:HH11	76:SM:36:ARG:HA	1.61	0.65
79:S2:874:G:H2'	79:S2:875:A:H8	1.61	0.65
8:sY:110:ARG:NH1	8:sY:114:MET:CE	2.59	0.65
11:sB:119:THR:HG22	11:sB:155:TYR:CD1	2.32	0.65
27:lF:222:LYS:HB3	27:lF:231:GLY:HA2	1.76	0.65
38:lR:173:ARG:NH1	79:s2:910:G:OP1	2.29	0.65
79:s2:735:C:OP2	79:s2:736:C:N4	2.29	0.65
83:ls:58:ASN:N	85:l5:2021:G:OP1	2.26	0.65
85:l5:1440:U:H3	85:l5:2105:A:H2	1.45	0.65
85:l5:4907:G:N1	85:l5:4914:C:N3	2.33	0.65
12:SH:144:ILE:HG12	12:SH:154:ILE:HG12	1.76	0.65
19:Sb:42:LYS:HE2	19:Sb:56:CYS:HB2	1.78	0.65
85:L5:1857:C:H2'	85:L5:1858:A:H8	1.62	0.65
85:L5:3616:U:OP2	85:L5:3617:G:N2	2.29	0.65
85:L5:4195:G:O5'	47:Lb:3:LYS:NZ	2.29	0.65
85:L5:4322:G:N2	85:L5:4325:A:OP2	2.30	0.65
85:L5:4473:A:OP1	58:Lm:124:LYS:NZ	2.28	0.65
21:L8:31:G:OP1	32:LL:34:ARG:NH1	2.30	0.65
25:LD:208:MET:O	25:LD:212:MET:SD	2.55	0.65
38:LR:39:GLN:OE1	38:LR:42:ARG:NH1	2.29	0.65
72:SU:116:ILE:HD12	72:SU:116:ILE:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:Sg:154:VAL:HG12	75:Sg:167:SER:HA	1.78	0.65
79:S2:557:U:H2'	79:S2:558:G:C8	2.31	0.65
10:sA:208:GLU:O	10:sA:212:LYS:HE3	1.95	0.65
16:sN:45:LEU:HB2	16:sN:50:ILE:HD11	1.78	0.65
21:l8:125:C:H1'	21:l8:126:C:H2'	1.78	0.65
23:lB:300:LYS:HE2	23:lB:310:SER:C	2.22	0.65
32:lL:77:SER:OG	32:lL:102:ARG:O	2.13	0.65
66:sF:97:PHE:CE1	66:sF:109:LEU:HD23	2.32	0.65
76:sM:91:LEU:CD2	76:sM:105:GLY:HA2	2.27	0.65
79:s2:1401:A:H2'	79:s2:1402:A:C8	2.32	0.65
80:cB:379:ASP:OD2	80:cB:379:ASP:C	2.40	0.65
86:LW:90:ILE:HD12	86:LW:91:MET:SD	2.37	0.65
6:SG:85:ARG:O	6:SG:87:ARG:NH1	2.29	0.65
85:L5:3870:C:H2'	85:L5:3871:A:H8	1.62	0.65
21:L8:90:C:H1'	44:LY:24:HIS:HB3	1.79	0.65
33:LM:38:VAL:HG21	33:LM:50:MET:HG3	1.78	0.65
57:Ll:33:ASN:ND2	57:Ll:35:ILE:O	2.29	0.65
75:Sg:236:ILE:HG22	75:Sg:252:THR:HA	1.79	0.65
7:sJ:173:VAL:O	7:sJ:177:ASN:ND2	2.29	0.65
11:sB:25:PHE:HA	11:sB:28:LYS:HG2	1.79	0.65
11:sB:151:ARG:H	64:sR:133:GLY:N	1.92	0.65
12:sH:77:VAL:HA	12:sH:80:VAL:HG22	1.78	0.65
13:sV:29:HIS:CE1	15:sC:87:PRO:HB3	2.32	0.65
53:lh:27:GLU:OE1	53:lh:50:VAL:HG21	1.97	0.65
64:sR:53:TYR:HB3	79:s2:1465:A:O5'	1.97	0.65
76:sM:40:LYS:NZ	78:sf:129:GLY:O	2.21	0.65
79:s2:1528:G:O2'	79:s2:1666:C:OP1	2.15	0.65
80:cB:155:LEU:HD12	80:cB:157:MET:HE2	1.79	0.65
5:SX:68:LYS:NZ	79:S2:616:A:OP1	2.29	0.65
10:SA:15:VAL:HA	10:SA:18:PHE:CD1	2.32	0.65
16:SN:55:ARG:NH1	16:SN:56:ASP:OD1	2.30	0.65
85:L5:749:G:N1	85:L5:912:G:O2'	2.28	0.65
85:L5:1281:G:H5'	24:LC:323:ARG:HB2	1.78	0.65
85:L5:2460:A:O2'	34:LN:104:GLU:OE1	2.13	0.65
85:L5:4299:U:OP1	47:Lb:33:LYS:NZ	2.30	0.65
85:L5:4532:U:OP2	85:L5:4554:G:N1	2.30	0.65
85:L5:4763:U:HO2'	39:LS:174:THR:HG1	1.38	0.65
21:L8:40:A:OP2	21:L8:104:A:N6	2.28	0.65
25:LD:190:PHE:HD2	25:LD:192:ALA:H	1.45	0.65
67:SK:49:MET:HG2	67:SK:69:TRP:NE1	2.12	0.65
4:sL:18:GLN:CG	4:sL:33:LEU:HD21	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:sL:101:ARG:HG2	5:sX:7:LEU:HA	1.78	0.65
7:sJ:138:ARG:HD3	7:sJ:139:LYS:HZ3	1.62	0.65
11:sB:227:LYS:CA	11:sB:230:GLU:OE2	2.45	0.65
28:lG:205:THR:HG22	28:lG:206:GLN:H	1.62	0.65
32:lL:129:ARG:HH22	85:l5:173:C:H3'	1.61	0.65
39:lS:51:LEU:HD13	40:lT:151:LEU:HD22	1.78	0.65
79:s2:1601:A:OP2	79:s2:1636:G:N2	2.29	0.65
80:cB:175:TYR:HD1	80:cB:289:PHE:HD2	1.45	0.65
85:l5:257:C:H2'	85:l5:258:G:C8	2.32	0.65
2:SE:22:LYS:N	79:S2:829:C:OP1	2.28	0.65
85:L5:74:G:H5'	32:LL:59:VAL:HG13	1.77	0.65
85:L5:1269:G:N2	85:L5:1440:U:O2	2.27	0.65
85:L5:4954:G:H2'	85:L5:4955:A:C8	2.31	0.65
85:L5:5006:U:H4'	85:L5:5007:A:H5'	1.79	0.65
21:L8:125:C:H1'	21:L8:126:C:H2'	1.79	0.65
35:LO:54:TYR:OH	35:LO:73:PHE:O	2.14	0.65
57:Ll:28:ARG:C	57:Ll:29:MET:HE2	2.22	0.65
64:SR:106:LEU:HB3	64:SR:112:GLY:HA2	1.78	0.65
69:SQ:55:VAL:HA	69:SQ:63:PHE:CE1	2.32	0.65
73:Sc:31:ARG:HA	73:Sc:43:ILE:HA	1.79	0.65
75:Sg:14:HIS:HE2	75:Sg:18:VAL:HG22	1.62	0.65
75:Sg:109:LEU:CD2	75:Sg:124:SER:C	2.69	0.65
2:sE:153:LEU:O	2:sE:174:LYS:NZ	2.29	0.65
10:sA:18:PHE:HA	10:sA:173:LEU:HD21	1.78	0.65
11:sB:169:MET:O	11:sB:173:THR:OG1	2.13	0.65
23:lB:222:VAL:O	23:lB:343:ARG:NH1	2.30	0.65
25:lD:5:LYS:HG3	85:l5:1778:C:H5"	1.77	0.65
46:la:113:GLY:O	46:la:136:LYS:NZ	2.29	0.65
51:lf:89:ARG:NH2	85:l5:709:C:OP1	2.30	0.65
64:sR:8:THR:HB	79:s2:1371:U:H4'	1.79	0.65
73:sc:28:THR:OG1	73:sc:50:VAL:HG21	1.96	0.65
84:lt:138:SER:HA	84:lt:148:PRO:HG2	1.76	0.65
85:l5:2484:A:H62	85:l5:2494:U:H3	1.45	0.65
2:SE:103:TYR:HE1	2:SE:184:THR:HB	1.61	0.65
4:SL:20:LYS:NZ	79:S2:223:C:OP1	2.25	0.65
10:SA:31:ASP:HB3	10:SA:34:MET:HG2	1.79	0.65
11:SB:30:TRP:CZ3	17:SO:18:GLY:C	2.75	0.65
12:SH:99:ARG:NH1	79:S2:913:A:OP2	2.30	0.65
12:SH:157:HIS:CE1	12:SH:190:PRO:CD	2.80	0.65
85:L5:1732:C:H2'	85:L5:1733:G:C8	2.32	0.65
85:L5:2545:U:H3'	85:L5:2546:G:H4'	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:L7:114:U:H2'	20:L7:115:A:C8	2.31	0.65
30:LI:212:LEU:HG	30:LI:213:HIS:CE1	2.32	0.65
33:LM:100:ARG:HG2	33:LM:103:LYS:HZ2	1.62	0.65
61:Lp:38:THR:HA	61:Lp:45:THR:HA	1.78	0.65
67:SK:25:LYS:HD3	67:SK:62:PHE:CZ	2.31	0.65
70:SS:18:THR:HB	70:SS:33:ILE:HG22	1.78	0.65
75:Sg:188:HIS:CD2	75:Sg:219:TRP:CD2	2.84	0.65
79:S2:1058:A:OP1	89:Pt:38:C:O2'	2.13	0.65
10:sA:198:MET:SD	10:sA:199:PRO:HD2	2.37	0.65
11:sB:227:LYS:C	11:sB:230:GLU:OE2	2.40	0.65
17:sO:149:ARG:NH1	79:s2:1064:C:O3'	2.29	0.65
28:lG:73:ARG:NE	85:l5:4076:G:OP1	2.30	0.65
44:lY:1:MET:N	85:l5:226:G:OP2	2.30	0.65
46:la:148:ALA:HB2	54:li:6:PRO:HB2	1.79	0.65
64:sR:5:ARG:HG3	79:s2:1368:U:O4'	1.97	0.65
70:sS:47:LYS:NZ	70:sS:78:LYS:O	2.30	0.65
75:sg:217:MET:HB2	75:sg:219:TRP:HE1	1.62	0.65
79:s2:1473:G:N2	79:s2:1476:A:OP2	2.27	0.65
85:l5:1591:U:OP2	85:l5:2856:C:O2'	2.12	0.65
85:l5:1654:G:N2	85:l5:1678:C:OP1	2.29	0.65
86:LW:6:CYS:HB2	86:LW:13:ILE:HD11	1.79	0.65
85:L5:1100:U:O3'	85:L5:1167:C:N4	2.29	0.65
85:L5:2745:A:H2'	85:L5:2746:A:H8	1.61	0.65
85:L5:3771:C:O2'	85:L5:3772:U:O4'	2.11	0.65
20:L7:92:C:H2'	20:L7:93:G:H8	1.61	0.65
23:LB:285:TYR:HB3	23:LB:332:MET:HE3	1.79	0.65
25:LD:41:LYS:NZ	40:LT:32:ARG:O	2.29	0.65
30:LI:48:LEU:CD2	30:LI:142:LEU:CA	2.68	0.65
35:LO:34:VAL:HG22	35:LO:103:LYS:HB2	1.78	0.65
61:Lp:61:MET:HA	61:Lp:61:MET:HE2	1.78	0.65
69:SQ:37:ARG:NH2	79:S2:1543:U:OP1	2.29	0.65
70:SS:20:ILE:HG12	70:SS:32:ALA:HB3	1.79	0.65
74:Sd:23:VAL:HG23	74:Sd:38:MET:HE1	1.79	0.65
88:CF:110:ASP:OD1	88:CF:266:ARG:NH2	2.28	0.65
63:Lz:53:VAL:HG11	63:Lz:185:LEU:HD13	1.79	0.65
63:Lz:57:SER:HB2	63:Lz:172:VAL:HG22	1.77	0.65
13:sV:66:ASP:OD2	13:sV:66:ASP:C	2.36	0.64
21:l8:124:U:OP1	85:l5:2544:G:N1	2.30	0.64
42:lV:116:ALA:C	42:lV:117:ILE:HD13	2.21	0.64
80:cB:197:SER:HA	80:cB:201:GLY:HA2	1.79	0.64
85:l5:4922:C:H2'	85:l5:4923:C:C6	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:LW:51:TRP:HA	86:LW:55:TYR:OH	1.96	0.64
10:SA:23:THR:HB	10:SA:174:MET:HE1	1.78	0.64
85:L5:194:C:O2	44:LY:121:ARG:NH2	2.30	0.64
85:L5:4041:C:O2	63:Lz:106:LYS:NZ	2.30	0.64
85:L5:4762:A:OP2	35:LO:12:ARG:NH1	2.29	0.64
20:L7:74:A:N3	39:LS:53:LYS:NZ	2.45	0.64
21:L8:96:C:OP1	53:Lh:70:ARG:NH1	2.30	0.64
22:LA:61:VAL:CG1	22:LA:76:PHE:HD2	2.08	0.64
24:LC:189:MET:HE1	24:LC:200:ARG:HE	1.62	0.64
38:LR:115:ILE:HG23	38:LR:119:MET:HG3	1.78	0.64
43:LX:81:LEU:HG	43:LX:83:THR:HG23	1.80	0.64
50:Le:99:ILE:HG21	50:Le:108:ARG:HE	1.62	0.64
65:SD:40:ARG:HD3	72:SU:108:PRO:HB3	1.77	0.64
67:SK:25:LYS:NZ	67:SK:64:TRP:C	2.55	0.64
75:Sg:297:THR:HG22	75:Sg:311:GLN:HB2	1.78	0.64
79:S2:508:A:H3'	79:S2:509:G:H8	1.61	0.64
88:CF:347:LEU:O	88:CF:396:SER:OG	2.14	0.64
4:sL:5:GLN:HE22	4:sL:11:GLN:H	1.43	0.64
7:sJ:146:SER:OG	79:s2:522:A:OP1	2.10	0.64
24:lC:146:GLU:N	24:lC:146:GLU:OE1	2.29	0.64
35:lO:81:TRP:HB2	35:lO:104:VAL:HG21	1.79	0.64
63:lz:32:VAL:HG21	63:lz:172:VAL:HG23	1.79	0.64
72:sU:22:ILE:HD13	72:sU:114:VAL:HG22	1.79	0.64
76:sM:91:LEU:HD23	76:sM:105:GLY:HA2	1.79	0.64
80:cB:290:CYS:HA	80:cB:294:LEU:HB2	1.79	0.64
81:aP:18:G:O6	81:aP:55:U:O2	2.15	0.64
85:l5:3708:C:N3	85:l5:3742:G:N1	2.36	0.64
2:SE:146:THR:HG21	79:S2:122:G:H21	1.62	0.64
2:SE:173:ILE:HG12	2:SE:235:TRP:CH2	2.32	0.64
5:SX:48:LYS:HG3	79:S2:483:C:H5"	1.78	0.64
10:SA:87:VAL:HG12	10:SA:175:TRP:NE1	2.12	0.64
10:SA:139:TYR:OH	79:S2:1353:A:OP1	2.14	0.64
85:L5:280:G:N2	85:L5:306:A:OP2	2.29	0.64
85:L5:1872:G:O2'	85:L5:4219:A:N3	2.27	0.64
85:L5:1983:A:N7	85:L5:1987:C:N4	2.45	0.64
85:L5:2870:A:OP2	85:L5:2879:A:N6	2.30	0.64
85:L5:3973:G:H21	63:Lz:28:PHE:HB3	1.61	0.64
85:L5:4457:U:OP1	42:LV:50:ASN:ND2	2.31	0.64
85:L5:4910:G:H4'	23:LB:95:THR:HG22	1.79	0.64
26:LE:174:LEU:HD11	26:LE:186:LEU:HD22	1.79	0.64
42:LV:82:ILE:HD11	42:LV:104:VAL:HG22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LZ:13:VAL:HG13	45:LZ:75:TYR:CE1	2.32	0.64
82:Et:28:C:H2'	82:Et:29:A:H8	1.62	0.64
13:sV:30:ALA:HB1	13:sV:60:ARG:HH22	1.60	0.64
34:lN:60:VAL:HG23	34:lN:134:LEU:HB2	1.79	0.64
34:lN:146:PRO:HB2	53:lh:104:THR:HG23	1.79	0.64
35:lO:126:VAL:HG13	35:lO:127:VAL:HG13	1.79	0.64
38:lR:71:ARG:NH2	85:l5:3604:A:H5"	2.07	0.64
41:lU:80:LYS:N	85:l5:2620:G:OP1	2.30	0.64
66:sF:169:ILE:HG13	79:s2:1535:U:H5"	1.79	0.64
85:l5:1972:G:H2'	85:l5:1973:G:C8	2.31	0.64
6:SG:190:ARG:NH2	79:S2:334:C:OP2	2.29	0.64
85:L5:1481:C:H5	54:Li:4:ARG:HD3	1.63	0.64
85:L5:4764:A:N1	29:LH:60:TRP:HB2	2.12	0.64
65:SD:145:GLN:O	79:S2:1332:A:O2'	2.14	0.64
67:SK:49:MET:CE	67:SK:69:TRP:CE2	2.80	0.64
79:S2:1797:U:H2'	79:S2:1798:C:C6	2.32	0.64
18:sW:47:ILE:HD11	18:sW:63:VAL:HG13	1.80	0.64
33:lM:94:LYS:NZ	85:l5:4872:G:OP2	2.23	0.64
50:le:85:LEU:HD21	50:le:115:ALA:HB2	1.79	0.64
58:lm:106:ARG:HH21	85:l5:4696:C:C1'	1.93	0.64
64:sR:32:LYS:HG3	79:s2:1454:A:H4'	1.79	0.64
69:sQ:49:TYR:HA	69:sQ:52:LEU:HG	1.80	0.64
79:s2:138:C:OP2	79:s2:1774:C:O2'	2.16	0.64
85:l5:1975:G:N2	85:l5:1983:A:OP1	2.29	0.64
85:l5:3967:G:N2	85:l5:4055:U:O2	2.23	0.64
85:L5:1852:U:OP1	46:La:23:GLY:N	2.29	0.64
85:L5:3855:C:H2'	85:L5:3856:A:H8	1.62	0.64
85:L5:4309:G:H22	40:LT:7:LYS:HZ1	1.45	0.64
25:LD:208:MET:HE3	25:LD:212:MET:SD	2.38	0.64
28:LG:173:LEU:CD1	54:Li:43:MET:HE3	2.28	0.64
29:LH:111:LEU:HD22	29:LH:127:ARG:HH21	1.63	0.64
72:SU:56:MET:HG3	72:SU:86:LYS:HE3	1.79	0.64
75:Sg:66:VAL:HA	75:Sg:82:SER:HA	1.79	0.64
79:S2:875:A:H61	79:S2:911:C:H42	1.42	0.64
79:S2:1405:A:H2'	79:S2:1406:G:O4'	1.97	0.64
83:Ls:28:PHE:HB2	83:Ls:89:VAL:HG12	1.79	0.64
24:lC:242:PRO:O	85:l5:2296:G:O2'	2.14	0.64
26:lE:278:THR:O	51:lf:4:ARG:NH2	2.30	0.64
40:lT:157:GLU:OE1	40:lT:159:MET:HE1	1.97	0.64
55:lj:43:ARG:NH2	85:l5:55:G:OP2	2.28	0.64
70:sS:134:GLN:N	70:sS:134:GLN:OE1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:sM:45:ARG:HD2	76:sM:45:ARG:H	1.63	0.64
79:s2:692:G:N7	79:s2:693:A:N6	2.45	0.64
85:l5:1705:G:H2'	85:l5:1706:A:O4'	1.97	0.64
5:SX:36:LEU:HD21	79:S2:407:G:C6	2.32	0.64
85:L5:267:G:H2'	85:L5:268:G:H8	1.62	0.64
85:L5:2578:G:N7	45:LZ:17:ARG:NH2	2.44	0.64
85:L5:4981:G:H3'	85:L5:4982:A:H8	1.61	0.64
37:LQ:76:GLU:O	37:LQ:77:ASN:ND2	2.30	0.64
45:LZ:12:LEU:HB2	45:LZ:81:MET:HB3	1.78	0.64
67:SK:28:HIS:CG	74:Sd:8:TRP:CZ2	2.85	0.64
67:SK:49:MET:SD	67:SK:69:TRP:CE3	2.91	0.64
69:SQ:84:ILE:HA	69:SQ:87:SER:HB2	1.79	0.64
79:S2:432:G:H2'	79:S2:433:A:C8	2.33	0.64
10:sA:17:LYS:NZ	10:sA:176:TRP:CZ3	2.63	0.64
22:lA:124:GLY:O	22:lA:128:ARG:NH1	2.30	0.64
24:lC:242:PRO:HB2	85:l5:2297:G:H4'	1.78	0.64
32:lL:55:ILE:HA	32:lL:154:VAL:HG11	1.77	0.64
38:lR:8:LYS:NZ	85:l5:2387:G:OP2	2.31	0.64
53:lh:4:ILE:HD11	53:lh:53:SER:HB3	1.78	0.64
83:ls:109:ALA:HB3	83:ls:184:SER:HA	1.80	0.64
85:l5:4322:G:N2	85:l5:4325:A:OP2	2.28	0.64
3:SI:83:TYR:HD2	3:SI:101:ILE:HD13	1.63	0.64
9:Se:31:ARG:NH2	79:S2:525:A:O3'	2.30	0.64
17:SO:95:ILE:HD11	17:SO:126:ILE:HG23	1.80	0.64
85:L5:382:G:N1	85:L5:385:A:OP2	2.31	0.64
85:L5:3722:G:OP1	54:Li:68:ARG:NH1	2.31	0.64
22:LA:29:LEU:O	22:LA:123:ARG:NE	2.24	0.64
22:LA:74:GLU:HB2	22:LA:76:PHE:CE2	2.33	0.64
26:LE:223:ARG:NH2	26:LE:234:ASP:OD2	2.27	0.64
40:LT:159:MET:HA	40:LT:159:MET:HE3	1.79	0.64
48:Lc:39:ARG:NH2	48:Lc:63:TYR:OH	2.31	0.64
65:SD:156:LEU:HG	65:SD:189:MET:HE1	1.79	0.64
65:SD:157:MET:HE3	65:SD:159:HIS:NE2	2.10	0.64
75:Sg:10:THR:HG22	75:Sg:308:ARG:HB3	1.80	0.64
88:CF:437:VAL:HG23	88:CF:439:LYS:HZ1	1.61	0.64
84:Lt:114:ARG:HD3	84:Lt:129:ILE:HG12	1.80	0.64
22:lA:37:ARG:NH1	85:l5:4088:C:OP1	2.31	0.64
32:lL:177:LYS:HB3	32:lL:180:ALA:HB3	1.79	0.64
44:lY:89:LYS:NZ	85:l5:386:A:OP2	2.21	0.64
46:la:85:GLN:NE2	85:l5:510:U:O4'	2.31	0.64
68:sP:123:TYR:OH	70:sS:124:ARG:NH1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:sd:50:ILE:H	74:sd:50:ILE:HD12	1.62	0.64
79:s2:647:U:H2'	79:s2:648:A:H8	1.63	0.64
4:SL:77:VAL:HA	4:SL:88:ILE:HG22	1.79	0.64
14:Sa:82:LYS:O	14:Sa:85:ARG:NH2	2.27	0.64
15:SC:142:LYS:HG2	15:SC:153:GLY:HA3	1.80	0.64
85:L5:2658:G:N2	85:L5:2676:A:OP2	2.31	0.64
85:L5:3689:G:O2'	85:L5:3818:U:OP2	2.16	0.64
85:L5:3958:G:O4'	82:Et:19:G:O2'	2.14	0.64
85:L5:4220:A:H2'	85:L5:4222:G:H5"	1.79	0.64
85:L5:4769:G:H5"	35:LO:176:ARG:HD3	1.79	0.64
54:Li:69:ALA:O	54:Li:73:ILE:HG12	1.96	0.64
79:S2:60:A:N3	79:S2:316:G:O2'	2.28	0.64
79:S2:639:C:H2'	79:S2:640:A:C8	2.33	0.64
79:S2:930:C:H42	79:S2:1011:A:H62	1.46	0.64
11:sB:35:ALA:HB2	11:sB:44:ILE:HD11	1.80	0.64
23:lB:300:LYS:NZ	23:lB:309:LEU:HA	2.11	0.64
30:lI:4:ARG:NH1	85:l5:1866:U:OP1	2.22	0.64
33:lM:136:LEU:O	33:lM:137:LYS:NZ	2.24	0.64
69:sQ:133:GLY:H	69:sQ:140:ARG:HH21	1.45	0.64
3:SI:190:LEU:HD13	3:SI:198:TYR:HD1	1.62	0.64
10:SA:163:CYS:SG	10:SA:174:MET:HG2	2.37	0.64
85:L5:1390:G:N2	85:L5:1393:G:OP2	2.31	0.64
85:L5:1802:A:H5"	85:L5:1803:G:H5'	1.79	0.64
85:L5:1870:C:H2'	85:L5:1871:A:H8	1.63	0.64
85:L5:1950:U:O2'	39:LS:116:ARG:NH1	2.27	0.64
85:L5:2748:C:H4'	52:Lg:65:MET:HE2	1.78	0.64
22:LA:117:GLU:O	22:LA:162:ASN:ND2	2.27	0.64
25:LD:115:MET:N	25:LD:115:MET:SD	2.71	0.64
32:LL:209:LYS:HG3	32:LL:210:LYS:HG2	1.77	0.64
79:S2:22:A:H2'	79:S2:23:G:H8	1.63	0.64
79:S2:880:G:H3'	79:S2:881:G:H8	1.63	0.64
79:S2:1275:G:H22	79:S2:1506:A:P	2.21	0.64
79:S2:1854:U:H2'	79:S2:1855:G:H8	1.62	0.64
89:Pt:43:A:H2'	89:Pt:44:A:C8	2.33	0.64
1:cH:53:SER:HA	9:se:59:SER:N	2.12	0.64
10:sA:169:HIS:ND1	10:sA:203:PHE:HE2	1.96	0.64
23:lB:334:LYS:NZ	85:l5:4675:U:OP1	2.30	0.64
35:lO:85:ARG:HG2	35:lO:99:LEU:HD11	1.80	0.64
38:lR:108:ARG:NH2	85:l5:2899:C:OP1	2.30	0.64
43:lX:72:ASP:OD2	43:lX:74:TYR:N	2.30	0.64
67:sK:47:LYS:HA	67:sK:50:GLN:HG2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:640:A:H2'	79:s2:641:A:C8	2.33	0.64
80:cB:600:ASN:HD21	80:cB:721:ILE:CD1	2.10	0.64
85:l5:1320:U:O2'	85:l5:1891:A:N1	2.31	0.64
2:SE:122:LYS:H	2:SE:161:GLN:HE22	1.45	0.64
10:SA:149:ASN:HB2	10:SA:165:ASN:HD21	1.63	0.64
85:L5:229:G:OP1	44:LY:11:ARG:NH1	2.31	0.64
85:L5:1279:A:OP1	26:LE:131:LYS:NZ	2.30	0.64
85:L5:2097:U:OP1	27:LF:35:LYS:NZ	2.31	0.64
85:L5:2486:G:O6	85:L5:2493:G:O6	2.15	0.64
85:L5:2599:G:N2	85:L5:2747:U:O4	2.31	0.64
21:L8:62:A:OP1	53:Lh:52:LYS:NZ	2.27	0.64
21:L8:74:U:O4	44:LY:72:GLN:NE2	2.31	0.64
33:LM:100:ARG:HD3	35:LO:199:HIS:HA	1.80	0.64
79:S2:375:U:H2'	79:S2:376:A:C8	2.32	0.64
79:S2:1550:G:O2'	79:S2:1558:C:O2	2.14	0.64
63:lz:103:LEU:HD23	63:lz:106:LYS:HD3	1.79	0.64
66:sF:204:ARG:HH12	73:sc:63:ARG:HH21	1.46	0.64
68:sP:32:GLN:N	68:sP:32:GLN:OE1	2.30	0.64
72:sU:22:ILE:HG23	72:sU:89:ILE:HB	1.80	0.64
73:sc:10:LYS:NZ	73:sc:34:PHE:CD2	2.66	0.64
73:sc:15:THR:OG1	73:sc:31:ARG:O	2.14	0.64
85:l5:1171:G:N7	85:l5:1172:C:N4	2.46	0.64
85:l5:4291:G:H5'	85:l5:4293:U:C6	2.33	0.64
8:SY:45:ALA:CB	8:SY:52:PRO:HD2	2.27	0.64
12:SH:57:ARG:NH2	12:SH:171:GLU:OE2	2.31	0.64
16:SN:25:TRP:CZ3	19:Sb:82:LYS:CE	2.81	0.64
85:L5:62:A:N3	85:L5:77:U:O2'	2.28	0.64
85:L5:161:G:H2'	85:L5:162:A:C8	2.33	0.64
85:L5:2784:C:H2'	85:L5:2785:C:H6	1.62	0.64
85:L5:4704:C:H4'	29:LH:129:ARG:HH21	1.62	0.64
85:L5:4730:C:H2'	85:L5:4731:G:C8	2.32	0.64
20:L7:99:G:N7	39:LS:55:LYS:NZ	2.43	0.64
60:Lo:56:PHE:HE2	60:Lo:59:LYS:H	1.41	0.64
64:SR:23:ARG:NH1	75:Sg:170:TRP:O	2.31	0.64
64:SR:44:LYS:HG2	64:SR:47:ARG:HH21	1.61	0.64
73:Sc:13:ARG:CZ	73:Sc:35:MET:HE2	2.27	0.64
79:S2:1228:A:H2'	79:S2:1229:G:H8	1.62	0.64
10:sA:118:GLU:OE2	15:sC:65:LYS:NZ	2.31	0.63
16:sN:16:LEU:HD21	79:s2:919:A:H5'	1.80	0.63
16:sN:46:THR:HG22	16:sN:48:SER:H	1.61	0.63
23:lB:292:LEU:O	23:lB:297:LYS:NZ	2.25	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:lM:27:ILE:HA	33:lM:38:VAL:HA	1.80	0.63
41:lU:103:VAL:HG13	41:lU:111:GLU:OE2	1.98	0.63
68:sP:28:MET:HE1	68:sP:36:LEU:HD12	1.79	0.63
79:s2:1752:C:N3	79:s2:1779:G:N1	2.46	0.63
79:s2:1752:C:H42	79:s2:1778:C:H42	1.47	0.63
85:l5:691:C:H2'	85:l5:692:A:C8	2.33	0.63
2:SE:36:HIS:CG	2:SE:85:GLY:HA3	2.33	0.63
85:L5:72:C:N3	54:Li:15:HIS:ND1	2.43	0.63
29:LH:134:CYS:SG	29:LH:146:LEU:HB3	2.38	0.63
31:LJ:169:LYS:HG3	31:LJ:170:TYR:CD2	2.33	0.63
48:Lc:38:ILE:HD13	48:Lc:63:TYR:HB3	1.80	0.63
49:Ld:54:MET:HE1	49:Ld:59:THR:O	1.97	0.63
64:SR:12:ALA:HB3	64:SR:50:ILE:HD11	1.79	0.63
71:ST:25:SER:O	71:ST:27:LYS:NZ	2.30	0.63
79:S2:454:U:H2'	79:S2:455:A:C8	2.33	0.63
8:sY:60:PHE:O	79:s2:571:U:O2'	2.16	0.63
10:sA:5:LEU:O	10:sA:9:GLN:NE2	2.28	0.63
11:sB:186:ASN:OD1	11:sB:187:LYS:N	2.31	0.63
12:sH:145:ARG:HH11	12:sH:145:ARG:HA	1.64	0.63
28:lG:81:ASN:O	28:lG:84:THR:OG1	2.16	0.63
34:lN:28:TRP:CD1	34:lN:32:GLN:HE21	2.16	0.63
60:lo:70:LEU:HD23	60:lo:70:LEU:H	1.63	0.63
64:sR:56:HIS:ND1	79:s2:1465:A:OP2	2.31	0.63
67:sK:29:MET:SD	67:sK:42:ASN:ND2	2.71	0.63
85:l5:1095:A:N1	85:l5:1200:G:O6	2.31	0.63
85:l5:3663:A:N6	85:l5:4168:G:O2'	2.31	0.63
85:l5:3976:C:N4	85:l5:4035:G:OP2	2.31	0.63
3:SI:76:THR:HG22	3:SI:108:PRO:HG2	1.80	0.63
6:SG:7:PHE:HE1	6:SG:9:ALA:HB3	1.63	0.63
8:SY:80:ASP:OD2	8:SY:81:TYR:N	2.31	0.63
85:L5:512:U:O4	85:L5:647:G:O6	2.15	0.63
85:L5:1930:U:OP2	35:LO:49:ARG:NH1	2.32	0.63
85:L5:4274:A:H2'	85:L5:4275:G:H8	1.61	0.63
21:L8:39:G:O2'	21:L8:104:A:N1	2.31	0.63
50:Le:108:ARG:HD3	50:Le:127:ALA:HB3	1.80	0.63
68:SP:122:THR:OG1	79:S2:1516:G:O2'	2.15	0.63
75:Sg:188:HIS:HD2	75:Sg:219:TRP:CD2	2.16	0.63
75:Sg:194:TYR:CE1	75:Sg:212:LYS:HE3	2.33	0.63
79:S2:1657:G:H1	79:S2:1667:U:H3	1.45	0.63
6:sG:64:LYS:CD	6:sG:83:CYS:SG	2.85	0.63
11:sB:149:GLN:N	64:sR:131:PRO:HB3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:sC:137:VAL:HG11	15:sC:244:ILE:HD12	1.79	0.63
19:sb:34:ASP:OD1	19:sb:82:LYS:HG2	1.98	0.63
23:lB:29:VAL:HA	23:lB:220:ILE:HD13	1.80	0.63
64:sR:14:ARG:HB2	79:s2:1373:C:H4'	1.80	0.63
64:sR:41:ILE:HD12	79:s2:1387:G:C2'	2.28	0.63
80:cB:165:LEU:O	80:cB:168:GLN:NE2	2.29	0.63
80:cB:249:ARG:HA	80:cB:252:LYS:HZ3	1.63	0.63
83:ls:20:LEU:HD23	83:ls:90:PHE:CD1	2.28	0.63
85:l5:1994:C:H2'	85:l5:1995:G:C8	2.29	0.63
85:l5:3965:A:O2'	85:l5:4038:C:N3	2.31	0.63
10:SA:44:ASP:HB3	64:SR:123:THR:HG21	1.79	0.63
17:SO:93:LEU:HD22	17:SO:124:MET:HE2	1.79	0.63
85:L5:753:C:H5	85:L5:910:G:H1	1.44	0.63
85:L5:3965:A:N1	85:L5:4043:G:N2	2.47	0.63
85:L5:4225:G:OP1	30:LI:24:ARG:NH2	2.32	0.63
85:L5:4389:C:H2'	85:L5:4390:A:C8	2.33	0.63
23:LB:305:THR:HG21	23:LB:368:ILE:HG13	1.81	0.63
36:LP:112:LEU:HD22	36:LP:150:LEU:HB3	1.79	0.63
75:Sg:132:TRP:HA	75:Sg:138:CYS:HA	1.80	0.63
79:S2:55:U:OP1	79:S2:451:G:N1	2.28	0.63
79:S2:57:U:OP1	79:S2:504:G:O2'	2.16	0.63
79:S2:375:U:H2'	79:S2:376:A:H8	1.63	0.63
18:sW:28:ARG:HD3	79:s2:921:G:C6	2.34	0.63
26:lE:108:LYS:NZ	85:l5:2260:C:OP1	2.29	0.63
26:lE:181:LEU:HD23	26:lE:182:ASN:HB3	1.80	0.63
38:lR:176:ARG:HH22	38:lR:177:LEU:HD12	1.63	0.63
65:sD:27:ARG:HB3	67:sK:61:GLN:NE2	2.12	0.63
75:sg:188:HIS:HB3	75:sg:219:TRP:CZ3	2.33	0.63
79:s2:185:G:N1	79:s2:214:U:N3	2.47	0.63
79:s2:1277:C:H2'	79:s2:1278:A:C8	2.32	0.63
85:L5:500:G:O2'	85:L5:505:G:OP2	2.15	0.63
85:L5:3661:G:H4'	85:L5:3662:A:H5'	1.79	0.63
85:L5:4761:G:N2	85:L5:4766:C:O3'	2.31	0.63
85:L5:4954:G:H2'	85:L5:4955:A:H8	1.63	0.63
20:L7:7:G:OP1	25:LD:33:ARG:NH1	2.32	0.63
23:LB:189:THR:N	23:LB:192:GLU:OE2	2.31	0.63
29:LH:124:ARG:NH1	29:LH:164:ALA:O	2.32	0.63
66:SF:22:LYS:HG3	66:SF:23:TRP:CD2	2.33	0.63
79:S2:1403:C:N4	79:S2:1433:C:OP1	2.32	0.63
79:S2:1606:G:N2	79:S2:1632:G:O2'	2.29	0.63
6:sG:170:ARG:NH2	79:s2:71:G:O6	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:sB:149:GLN:OE1	79:s2:1123:C:O2'	2.13	0.63
16:sN:71:ILE:HA	16:sN:74:ILE:HD12	1.81	0.63
21:l8:53:G:OP1	57:ll:19:GLN:NE2	2.32	0.63
64:sR:53:TYR:N	79:s2:1466:G:H5"	2.12	0.63
65:sD:162:ASP:H	79:s2:1388:A:H61	1.45	0.63
79:s2:1825:A:N6	81:aP:38:C:H1'	2.13	0.63
85:l5:1328:G:O2'	85:l5:2349:A:OP1	2.17	0.63
86:LW:31:PHE:HB3	86:LW:36:CYS:HB2	1.81	0.63
11:SB:30:TRP:CZ3	17:SO:19:PRO:CA	2.82	0.63
85:L5:1317:U:H2'	85:L5:1318:C:C6	2.33	0.63
85:L5:2910:G:N2	85:L5:3585:G:O2'	2.32	0.63
85:L5:3754:G:O6	85:L5:3770:U:O4	2.17	0.63
21:L8:12:G:H21	36:LP:120:ASN:ND2	1.96	0.63
31:LJ:87:LEU:HD21	31:LJ:170:TYR:CE1	2.32	0.63
39:LS:93:MET:CE	39:LS:113:MET:HE1	2.28	0.63
65:SD:123:LEU:HD11	65:SD:152:PHE:HB3	1.81	0.63
65:SD:127:MET:HE3	65:SD:127:MET:HA	1.80	0.63
69:SQ:24:HIS:NE2	69:SQ:26:LYS:HG2	2.14	0.63
70:SS:40:TYR:HE2	70:SS:71:MET:CE	2.11	0.63
71:ST:11:GLN:HB2	79:S2:1542:C:H4'	1.80	0.63
75:Sg:17:TRP:HB2	75:Sg:36:ARG:HB2	1.79	0.63
79:S2:1610:G:H2'	79:S2:1611:G:C8	2.34	0.63
88:CF:94:GLY:N	88:CF:102:MET:HE2	2.12	0.63
63:Lz:33:GLU:HA	63:Lz:169:VAL:HG11	1.80	0.63
14:sa:33:ASP:OD1	14:sa:33:ASP:N	2.32	0.63
34:lN:124:ASP:HB3	34:lN:127:TYR:H	1.64	0.63
41:lU:82:TYR:HE2	85:l5:2631:U:C2	2.17	0.63
45:lZ:51:ARG:NH2	85:l5:2756:G:O6	2.24	0.63
66:sF:77:MET:HE3	66:sF:86:LYS:N	2.13	0.63
72:sU:28:ASN:HD21	72:sU:31:SER:HG	1.45	0.63
75:sg:89:LEU:O	75:sg:98:THR:OG1	2.15	0.63
79:s2:16:G:H2'	79:s2:17:C:C6	2.33	0.63
7:SJ:86:VAL:HG21	7:SJ:105:PHE:CD2	2.34	0.63
11:SB:113:MET:HE3	11:SB:211:PHE:HE2	1.63	0.63
85:L5:2411:C:H2'	85:L5:2412:A:H8	1.64	0.63
85:L5:4686:G:N3	29:LH:163:GLN:NE2	2.44	0.63
35:LO:8:VAL:O	35:LO:118:MET:HE2	1.97	0.63
45:LZ:118:PHE:O	45:LZ:122:TYR:N	2.28	0.63
84:Lt:56:LEU:O	84:Lt:56:LEU:CD2	2.47	0.63
11:sB:228:LEU:HA	11:sB:231:LEU:HG	1.81	0.63
12:sH:105:THR:HG23	12:sH:107:LYS:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:sC:75:ILE:HG22	15:sC:269:PHE:CE1	2.34	0.63
17:sO:67:ASP:O	17:sO:70:SER:OG	2.12	0.63
26:lE:174:LEU:HD11	26:lE:186:LEU:HD12	1.79	0.63
28:lG:32:PHE:HE1	45:lZ:53:VAL:HG12	1.63	0.63
31:lJ:67:LYS:C	31:lJ:68:ILE:HD13	2.23	0.63
34:lN:36:LEU:CD1	34:lN:64:ILE:HD11	2.28	0.63
34:lN:51:LEU:HB3	34:lN:117:ASN:HD22	1.64	0.63
64:sR:57:LEU:HG	79:s2:1465:A:H5'	1.80	0.63
69:sQ:54:PRO:HG2	69:sQ:88:ILE:HD11	1.81	0.63
78:sf:119:ARG:NE	78:sf:139:HIS:ND1	2.47	0.63
80:cB:409:ARG:HH21	80:cB:476:ASP:HB2	1.64	0.63
82:pE:15:G:H2'	82:pE:59:G:H1	1.64	0.63
85:l5:300:A:H2'	85:l5:301:G:H8	1.62	0.63
85:l5:2902:G:N7	85:l5:2903:G:N2	2.47	0.63
2:SE:62:LYS:HD2	2:SE:66:MET:HE1	1.80	0.63
17:SO:17:LEU:HD13	17:SO:88:LEU:HG	1.79	0.63
85:L5:2353:U:H2'	85:L5:2354:G:C8	2.32	0.63
85:L5:2397:G:O6	52:Lg:4:ARG:NH2	2.26	0.63
27:LF:105:VAL:HG13	27:LF:136:VAL:HG12	1.81	0.63
64:SR:58:MET:O	64:SR:58:MET:HG2	1.99	0.63
66:SF:70:GLU:OE2	66:SF:86:LYS:NZ	2.28	0.63
66:SF:168:THR:OG1	77:SZ:106:GLN:NE2	2.32	0.63
68:SP:38:SER:OG	68:SP:41:GLN:OE1	2.16	0.63
69:SQ:43:GLU:O	69:SQ:45:ARG:N	2.31	0.63
74:Sd:7:TYR:CE2	74:Sd:8:TRP:CZ3	2.87	0.63
77:SZ:57:LYS:HA	77:SZ:60:LYS:HG2	1.81	0.63
79:S2:1595:U:H2'	79:S2:1596:U:C6	2.33	0.63
84:Lt:22:VAL:HG13	84:Lt:48:LYS:HG2	1.80	0.63
11:sB:87:ILE:C	11:sB:98:THR:HG1	2.07	0.63
15:sC:102:LEU:HD11	15:sC:131:GLY:CA	2.29	0.63
30:lI:156:LYS:NZ	85:l5:1944:A:OP1	2.25	0.63
69:sQ:134:GLY:HA3	69:sQ:140:ARG:HA	1.79	0.63
78:sf:103:LEU:CD1	78:sf:105:TYR:H	2.12	0.63
80:cB:86:LEU:HD23	80:cB:93:LYS:HD3	1.80	0.63
85:l5:517:C:N4	85:l5:646:G:O2'	2.31	0.63
85:l5:1552:G:O2'	85:l5:1574:G:N2	2.28	0.63
85:L5:35:U:OP2	34:LN:83:LYS:NZ	2.31	0.63
85:L5:943:A:N7	27:LF:151:ASN:ND2	2.46	0.63
85:L5:4887:C:H42	85:L5:4932:U:H3	1.47	0.63
25:LD:17:GLN:NE2	40:LT:22:HIS:O	2.29	0.63
29:LH:173:ARG:O	29:LH:176:LEU:HD11	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:LP:30:ARG:NH1	36:LP:31:GLU:OE2	2.28	0.63
66:SF:76:MET:HA	66:SF:76:MET:HE3	1.81	0.63
3:sI:161:LEU:HD21	3:sI:195:LEU:HD13	1.80	0.63
10:sA:3:GLY:HA3	13:sV:79:VAL:HG12	1.80	0.63
12:sH:72:PHE:HA	12:sH:75:ILE:HG12	1.80	0.63
34:lN:10:LEU:HB3	54:li:44:ILE:HD12	1.81	0.63
34:lN:157:LYS:O	34:lN:162:ARG:NH1	2.32	0.63
38:lR:109:TYR:HB3	38:lR:115:ILE:HG12	1.81	0.63
64:sR:37:GLU:N	64:sR:37:GLU:OE1	2.32	0.63
66:sF:16:ASP:O	66:sF:18:LYS:NZ	2.32	0.63
71:sT:143:LYS:CE	71:sT:144:LYS:HE2	2.28	0.63
80:cB:749:ILE:HD12	80:cB:800:LEU:HD21	1.81	0.63
84:lt:65:GLN:OE1	84:lt:67:ARG:N	2.32	0.63
85:l5:1818:G:OP2	85:l5:1818:G:N2	2.27	0.63
86:LW:52:THR:O	86:LW:54:LEU:N	2.31	0.63
4:SL:7:GLU:HG2	4:SL:8:ARG:H	1.64	0.63
6:SG:201:LYS:NZ	79:S2:124:U:OP1	2.32	0.63
85:L5:327:U:O2'	54:Li:30:ARG:NH1	2.31	0.63
23:LB:299:ILE:HG22	23:LB:302:ASN:HB2	1.79	0.63
25:LD:53:VAL:O	25:LD:54:ARG:NH1	2.27	0.63
75:Sg:217:MET:HE3	75:Sg:219:TRP:CH2	2.34	0.63
63:Lz:206:ILE:C	63:Lz:207:LYS:HD2	2.23	0.63
17:sO:51:GLU:OE1	79:s2:952:G:C4'	2.40	0.62
18:sW:3:ARG:NH1	18:sW:9:ASP:OD1	2.32	0.62
40:lT:70:HIS:NE2	85:l5:4327:C:OP1	2.32	0.62
42:lV:116:ALA:HA	42:lV:135:ASN:HD21	1.63	0.62
70:sS:145:THR:OG1	79:s2:1523:C:OP1	2.16	0.62
75:sg:100:ARG:NH2	79:s2:1399:C:O3'	2.32	0.62
79:s2:1373:C:H2'	79:s2:1374:C:H6	1.62	0.62
80:cB:609:PHE:CE1	80:cB:699:GLY:HA2	2.34	0.62
82:pE:35:U:H2'	82:pE:36:U:H6	1.63	0.62
85:l5:1435:G:N2	85:l5:1449:C:O2	2.19	0.62
8:SY:41:ARG:NH2	8:SY:52:PRO:O	2.32	0.62
10:SA:21:ALA:HB3	10:SA:173:LEU:HD12	1.80	0.62
12:SH:69:LEU:HA	12:SH:72:PHE:CD1	2.34	0.62
15:SC:70:VAL:HG11	15:SC:93:ILE:HG23	1.79	0.62
85:L5:1927:U:OP1	85:L5:1949:U:O2'	2.15	0.62
85:L5:2059:C:H2'	85:L5:2060:G:H8	1.63	0.62
85:L5:4670:C:O2'	85:L5:4672:A:OP2	2.15	0.62
36:LP:72:GLN:OE1	36:LP:83:TRP:NE1	2.28	0.62
39:LS:95:ARG:CD	39:LS:113:MET:HE3	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:SK:25:LYS:HZ2	67:SK:64:TRP:C	2.06	0.62
75:Sg:226:HIS:NE2	75:Sg:229:THR:OG1	2.31	0.62
79:S2:223:C:H2'	79:S2:224:A:H8	1.62	0.62
79:S2:319:C:H2'	79:S2:320:G:H8	1.62	0.62
79:S2:1370:A:O2'	79:S2:1372:U:OP1	2.17	0.62
88:CF:268:GLU:HG2	88:CF:269:THR:HG23	1.80	0.62
88:CF:294:MET:HG3	88:CF:299:LEU:HD11	1.81	0.62
8:sY:94:HIS:HD1	8:sY:96:LEU:HD13	1.63	0.62
10:sA:26:GLY:O	10:sA:150:THR:OG1	2.13	0.62
11:sB:60:ASP:HA	11:sB:63:LYS:HG2	1.80	0.62
11:sB:151:ARG:N	64:sR:133:GLY:H	1.95	0.62
12:sH:154:ILE:HB	12:sH:185:VAL:HG22	1.81	0.62
22:lA:130:SER:OG	22:lA:174:ARG:NH2	2.30	0.62
38:lR:3:MET:HE3	38:lR:5:ARG:H	1.64	0.62
72:sU:113:GLU:N	72:sU:113:GLU:OE2	2.32	0.62
79:s2:1446:A:HO2'	79:s2:1447:G:H8	1.48	0.62
83:ls:145:THR:HG22	83:ls:154:ILE:HA	1.80	0.62
84:lt:107:ASP:OD2	84:lt:108:GLU:N	2.32	0.62
5:SX:52:LEU:HD21	5:SX:73:GLN:HB3	1.81	0.62
7:SJ:3:VAL:HG12	7:SJ:5:ARG:H	1.64	0.62
85:L5:951:G:H2'	85:L5:952:G:H8	1.64	0.62
85:L5:1346:C:H2'	85:L5:1347:G:C8	2.34	0.62
85:L5:2406:G:O6	85:L5:2785:C:N4	2.32	0.62
60:Lo:75:PRO:O	60:Lo:78:ARG:NH1	2.32	0.62
64:SR:5:ARG:O	64:SR:10:LYS:NZ	2.32	0.62
74:Sd:38:MET:HE2	74:Sd:38:MET:HA	1.80	0.62
77:SZ:68:ILE:HG22	77:SZ:88:LEU:HD23	1.81	0.62
79:S2:1048:G:N1	79:S2:1069:U:OP2	2.30	0.62
79:S2:1243:U:OP2	79:S2:1518:C:O2'	2.16	0.62
88:CF:93:PRO:CD	88:CF:102:MET:HG2	2.22	0.62
88:CF:103:ILE:HG21	88:CF:139:LEU:HD22	1.82	0.62
2:sE:18:TRP:HH2	2:sE:31:PRO:HD3	1.63	0.62
3:sI:140:LYS:O	3:sI:141:ARG:NH1	2.32	0.62
10:sA:52:LYS:NZ	13:sV:82:ASN:O	2.32	0.62
21:l8:141:C:OP1	34:lN:38:ARG:NH1	2.28	0.62
43:lX:135:LYS:NZ	85:l5:2436:U:OP2	2.31	0.62
65:sD:145:GLN:O	79:s2:1332:A:O2'	2.17	0.62
85:l5:1332:C:H2'	85:l5:1333:A:C8	2.32	0.62
10:SA:23:THR:OG1	10:SA:174:MET:HE1	1.99	0.62
85:L5:519:C:H1'	85:L5:643:C:C2	2.34	0.62
85:L5:1628:C:H5"	22:LA:15:VAL:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3658:C:H2'	85:L5:3659:G:H8	1.63	0.62
85:L5:5047:C:O2'	85:L5:5050:C:OP2	2.17	0.62
43:LX:143:ASP:OD1	43:LX:143:ASP:C	2.37	0.62
74:Sd:56:ASP:OXT	79:S2:1480:A:O2'	2.16	0.62
79:S2:149:A:H3'	79:S2:150:A:C8	2.33	0.62
2:sE:161:GLN:NE2	2:sE:170:THR:OG1	2.22	0.62
5:sX:67:ARG:HG3	5:sX:115:ILE:HG12	1.80	0.62
6:sG:162:LEU:HD21	79:s2:67:C:H5"	1.81	0.62
7:sJ:108:ARG:NH2	7:sJ:149:VAL:O	2.33	0.62
20:l7:2:U:H3	20:l7:117:G:H1	1.46	0.62
24:lC:101:MET:HE2	24:lC:104:PRO:HA	1.81	0.62
26:lE:91:THR:HA	26:lE:108:LYS:HA	1.82	0.62
29:lH:60:TRP:HB2	85:l5:4764:A:N1	2.13	0.62
60:lo:33:LEU:HA	60:lo:38:LYS:HG2	1.80	0.62
66:sF:164:ARG:HH12	79:s2:1636:G:H1'	1.64	0.62
73:sc:44:ARG:HH21	73:sc:58:LEU:CD1	2.10	0.62
79:s2:1384:C:H2'	79:s2:1385:G:H8	1.63	0.62
80:cB:448:GLN:HB2	80:cB:473:VAL:HG23	1.81	0.62
80:cB:749:ILE:HD11	80:cB:808:ALA:HB1	1.80	0.62
85:l5:1091:C:H2'	85:l5:1092:G:C8	2.34	0.62
85:l5:1701:A:OP1	85:l5:1703:C:N4	2.29	0.62
85:l5:2098:G:H2'	85:l5:2099:G:C8	2.34	0.62
85:l5:2601:A:N6	85:l5:2744:A:OP2	2.29	0.62
4:SL:103:GLU:OE1	4:SL:105:ARG:NH1	2.30	0.62
16:SN:23:PRO:HB2	16:SN:25:TRP:CD1	2.34	0.62
16:SN:25:TRP:HZ3	19:Sb:82:LYS:HG3	1.61	0.62
85:L5:404:U:O3'	44:LY:87:ARG:NH2	2.31	0.62
85:L5:2520:C:H2'	85:L5:2521:G:C8	2.34	0.62
85:L5:3641:U:OP2	85:L5:3646:A:N6	2.32	0.62
38:LR:11:ALA:HA	38:LR:41:ILE:HD13	1.81	0.62
42:LV:61:VAL:N	42:LV:79:ALA:O	2.30	0.62
75:Sg:194:TYR:HE1	75:Sg:212:LYS:HE3	1.65	0.62
77:SZ:78:LYS:HE2	77:SZ:78:LYS:HA	1.81	0.62
79:S2:116:U:O4	79:S2:347:G:O6	2.18	0.62
79:S2:323:C:H2'	79:S2:327:G:H22	1.65	0.62
79:S2:509:G:H2'	79:S2:510:G:H8	1.63	0.62
79:S2:639:C:H2'	79:S2:640:A:H8	1.64	0.62
5:sX:126:ALA:O	5:sX:128:VAL:N	2.33	0.62
6:sG:55:GLY:N	6:sG:63:MET:SD	2.72	0.62
11:sB:226:GLY:O	11:sB:230:GLU:OE2	2.18	0.62
25:lD:256:LYS:HE3	25:lD:258:LYS:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:lL:129:ARG:NH2	85:l5:174:C:OP2	2.31	0.62
35:lO:176:ARG:HD3	85:l5:4769:G:H5"	1.82	0.62
63:lz:47:LYS:O	63:lz:48:ARG:NH1	2.33	0.62
79:s2:639:C:H2'	79:s2:640:A:H8	1.64	0.62
79:s2:1203:G:H2'	79:s2:1204:A:C8	2.35	0.62
79:s2:1692:U:H2'	79:s2:1693:G:C8	2.33	0.62
80:cB:607:ARG:O	80:cB:701:ARG:N	2.28	0.62
85:l5:2844:A:N6	85:l5:3839:G:O2'	2.33	0.62
2:SE:87:MET:HE3	2:SE:123:LEU:HB2	1.82	0.62
4:SL:107:LYS:HE3	79:S2:354:U:P	2.40	0.62
11:SB:61:GLY:O	11:SB:65:ARG:NH1	2.30	0.62
12:SH:53:VAL:HG11	12:SH:172:THR:HA	1.81	0.62
18:SW:106:THR:OG1	18:SW:122:GLY:O	2.13	0.62
19:Sb:33:MET:N	19:Sb:33:MET:SD	2.72	0.62
19:Sb:67:THR:OG1	19:Sb:70:LYS:O	2.18	0.62
85:L5:158:A:N1	85:L5:276:C:O2'	2.30	0.62
85:L5:173:C:H5"	32:LL:129:ARG:NH1	2.14	0.62
38:LR:99:MET:HA	38:LR:99:MET:CE	2.27	0.62
39:LS:95:ARG:HD2	39:LS:113:MET:CE	2.30	0.62
42:LV:69:LYS:HG3	42:LV:70:PRO:HD2	1.79	0.62
79:S2:531:A:H3'	79:S2:532:C:H5"	1.82	0.62
7:sJ:80:ARG:O	7:sJ:84:ILE:HG12	1.98	0.62
44:lY:31:SER:HA	44:lY:48:PRO:HA	1.81	0.62
77:sZ:47:LEU:HD12	77:sZ:78:LYS:HD2	1.82	0.62
79:s2:1808:U:H2'	79:s2:1809:A:C8	2.35	0.62
80:cB:228:PHE:HA	80:cB:231:MET:HG3	1.79	0.62
85:l5:1100:U:O4	85:l5:1194:G:O6	2.18	0.62
85:l5:4522:G:O2'	85:l5:4525:C:OP2	2.15	0.62
6:SG:98:ARG:NH2	6:SG:103:ASP:OD1	2.31	0.62
10:SA:21:ALA:HB1	10:SA:169:HIS:HB3	1.82	0.62
85:L5:211:G:H4'	85:L5:234:G:H8	1.63	0.62
85:L5:2519:U:O2'	85:L5:2530:U:O2	2.16	0.62
85:L5:2705:G:H22	85:L5:2710:C:H5	1.47	0.62
85:L5:3717:A:H2'	85:L5:3718:A:H8	1.64	0.62
85:L5:3861:A:H2'	85:L5:3862:A:H8	1.64	0.62
85:L5:4049:U:O2	85:L5:4051:C:N4	2.29	0.62
85:L5:4537:C:H2'	85:L5:4538:G:H8	1.63	0.62
24:LC:141:GLY:O	24:LC:182:LYS:NZ	2.30	0.62
27:LF:71:MET:HE1	40:LT:140:PHE:HZ	1.64	0.62
52:Lg:85:LYS:CB	52:Lg:88:ARG:HH21	2.12	0.62
55:Lj:2:THR:HG22	55:Lj:4:GLY:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:Sg:249:CYS:HB2	75:Sg:258:ILE:HG12	1.82	0.62
79:S2:613:G:N1	79:S2:629:A:OP2	2.23	0.62
79:S2:1538:C:H2'	79:S2:1539:U:C6	2.33	0.62
83:Ls:44:ARG:HH12	83:Ls:52:VAL:HG23	1.64	0.62
83:Ls:173:THR:O	83:Ls:177:MET:HE2	2.00	0.62
2:sE:18:TRP:NE1	2:sE:41:CYS:O	2.26	0.62
6:sG:50:VAL:HG23	6:sG:113:ILE:HG13	1.81	0.62
23:lB:174:ARG:NH1	85:l5:4985:U:O2	2.31	0.62
58:lm:125:LYS:HG3	85:l5:4474:A:H5"	1.80	0.62
61:lp:42:CYS:SG	61:lp:59:SER:OG	2.56	0.62
64:sR:16:ILE:HD12	64:sR:20:TYR:HE2	1.65	0.62
67:sK:65:ARG:NH2	74:sd:25:SER:OG	2.32	0.62
79:s2:84:A:N3	79:s2:150:A:O2'	2.33	0.62
80:cB:409:ARG:NH2	80:cB:477:GLN:OE1	2.32	0.62
85:l5:2845:A:H61	85:l5:3843:C:H42	1.45	0.62
85:l5:4274:A:H2'	85:l5:4275:G:H8	1.63	0.62
85:l5:5024:C:H41	85:l5:5028:G:H21	1.46	0.62
8:SY:55:ILE:HG13	8:SY:75:ILE:HG22	1.81	0.62
12:SH:157:HIS:CE1	12:SH:190:PRO:HB3	2.35	0.62
13:SV:11:LEU:HD21	15:SC:248:TYR:HH	1.62	0.62
15:SC:211:LYS:O	15:SC:215:MET:HE3	1.99	0.62
85:L5:4565:C:H2'	85:L5:4566:U:H6	1.62	0.62
85:L5:4604:G:N2	85:L5:4607:A:OP2	2.31	0.62
29:LH:107:GLU:OE2	29:LH:110:SER:OG	2.17	0.62
40:LT:43:LYS:O	40:LT:58:HIS:ND1	2.32	0.62
42:LV:39:ILE:HG12	42:LV:61:VAL:HG11	1.81	0.62
43:LX:143:ASP:OD1	43:LX:144:TYR:CE1	2.53	0.62
64:SR:42:PRO:HG2	65:SD:205:PRO:HA	1.80	0.62
69:SQ:106:LYS:NZ	69:SQ:107:GLU:OE1	2.33	0.62
78:Sf:105:TYR:CD2	78:Sf:131:PHE:HE2	2.17	0.62
79:S2:1142:G:N2	79:S2:1145:A:OP2	2.30	0.62
88:CF:335:MET:HA	88:CF:335:MET:HE2	1.80	0.62
2:sE:134:LYS:N	79:s2:298:G:OP1	2.33	0.62
10:sA:113:GLN:N	10:sA:113:GLN:OE1	2.33	0.62
18:sW:28:ARG:NH2	79:s2:922:A:OP1	2.31	0.62
23:lB:332:MET:HE1	23:lB:365:LEU:HD11	1.80	0.62
25:lD:65:ALA:HB2	25:lD:74:ILE:HD13	1.81	0.62
48:lc:29:LEU:HD22	48:lc:91:VAL:HG21	1.82	0.62
51:lf:37:ASP:OD1	51:lf:37:ASP:N	2.33	0.62
62:lr:35:ARG:NH2	85:l5:2265:G:OP1	2.33	0.62
72:sU:116:ILE:HG22	72:sU:117:ALA:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:489:GLU:CD	80:cB:489:GLU:H	2.08	0.62
80:cB:596:PRO:O	80:cB:598:LYS:NZ	2.26	0.62
82:pE:36:U:H2'	82:pE:37:A:O4'	1.99	0.62
85:l5:1377:G:H4'	85:l5:1378:C:H3'	1.80	0.62
5:SX:5:ARG:N	79:S2:1160:U:OP2	2.31	0.62
17:SO:14:VAL:H	17:SO:15:ILE:HA	1.62	0.62
85:L5:705:G:OP1	50:Le:5:ARG:NH2	2.32	0.62
85:L5:1683:U:H2'	85:L5:1684:A:H8	1.65	0.62
85:L5:2704:C:H2'	85:L5:2705:G:H8	1.65	0.62
85:L5:2751:G:H2'	85:L5:2752:G:H8	1.64	0.62
85:L5:4076:G:OP1	28:LG:73:ARG:NH1	2.32	0.62
85:L5:4122:G:O2'	45:LZ:136:PHE:OXT	2.16	0.62
85:L5:4220:A:OP2	40:LT:2:THR:OG1	2.14	0.62
85:L5:4741:C:H3'	85:L5:4900:C:H42	1.63	0.62
21:L8:9:A:H2'	21:L8:10:G:H8	1.65	0.62
21:L8:148:A:H2'	21:L8:149:G:C8	2.34	0.62
22:LA:101:VAL:HG23	22:LA:164:ALA:C	2.25	0.62
25:LD:184:ASP:OD1	25:LD:187:SER:N	2.27	0.62
27:LF:85:ALA:N	40:LT:138:ALA:HB2	2.15	0.62
66:SF:127:ARG:HG2	66:SF:136:ARG:HB2	1.82	0.62
67:SK:25:LYS:HZ2	67:SK:65:ARG:HA	1.63	0.62
68:SP:42:ARG:HH21	79:S2:1614:A:P	2.23	0.62
79:S2:1093:A:H2'	79:S2:1094:C:C6	2.34	0.62
88:CF:84:LYS:NZ	88:CF:233:ASP:O	2.25	0.62
88:CF:146:LYS:HE2	88:CF:147:GLN:HE22	1.64	0.62
2:sE:197:ASN:OD1	2:sE:198:ARG:N	2.33	0.62
11:sB:226:GLY:HA3	85:l5:4100:C:H4'	1.82	0.62
15:sC:201:GLY:N	15:sC:221:ASP:OD2	2.32	0.62
33:lM:39:ASP:OD2	33:lM:41:PRO:HD3	1.99	0.62
47:lb:33:LYS:NZ	85:l5:4299:U:OP1	2.32	0.62
47:lb:101:HIS:HD2	47:lb:103:LYS:H	1.46	0.62
49:ld:46:LEU:HD23	49:ld:46:LEU:O	1.99	0.62
64:sR:3:ARG:HH22	79:s2:1467:C:H1'	1.65	0.62
75:sg:256:ILE:HB	75:sg:270:LEU:HB2	1.80	0.62
79:s2:201:C:C2	79:s2:202:G:H1'	2.35	0.62
80:cB:333:LYS:HG3	80:cB:334:PRO:HD3	1.82	0.62
85:l5:966:A:OP2	85:l5:2092:G:N2	2.33	0.62
85:l5:3971:G:N2	85:l5:3973:G:N3	2.47	0.62
85:l5:4896:G:H2'	85:l5:4897:G:C8	2.35	0.62
86:LW:104:GLN:OE1	6:SG:156:TYR:OH	2.13	0.62
14:Sa:102:ARG:HD2	14:Sa:102:ARG:H	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:496:G:O6	85:L5:497:G:N2	2.33	0.62
85:L5:678:C:H2'	85:L5:679:C:C6	2.34	0.62
85:L5:1555:G:O6	61:Lp:4:ARG:NH1	2.27	0.62
85:L5:1631:A:N1	22:LA:204:MET:HE1	2.15	0.62
85:L5:1825:A:H2'	85:L5:1826:G:C8	2.34	0.62
85:L5:3717:A:H2'	85:L5:3718:A:C8	2.35	0.62
21:L8:141:C:H2'	21:L8:142:U:C6	2.34	0.62
24:LC:281:MET:HE3	24:LC:282:HIS:H	1.63	0.62
71:ST:13:GLU:HA	71:ST:16:ARG:HE	1.64	0.62
79:S2:532:C:H2'	79:S2:533:A:H8	1.64	0.62
79:S2:1420:G:O2'	79:S2:1421:A:N3	2.33	0.62
88:CF:375:LEU:CB	88:CF:391:PRO:HD2	2.29	0.62
1:cH:109:TYR:CD2	1:cH:114:ALA:HB1	2.34	0.62
4:sL:39:ASN:O	79:s2:292:A:O2'	2.18	0.62
15:sC:182:CYS:HB2	18:sW:95:PRO:HB2	1.82	0.62
25:lD:59:ASP:OD2	25:lD:60:ILE:N	2.32	0.62
28:lG:83:PHE:HE2	28:lG:164:ILE:HD11	1.65	0.62
46:la:21:ARG:NH1	85:l5:2282:A:OP1	2.33	0.62
71:sT:108:GLU:OE1	71:sT:108:GLU:HA	1.98	0.62
80:cB:283:LYS:NZ	80:cB:284:LYS:O	2.32	0.62
80:cB:609:PHE:HB3	80:cB:613:LEU:HD13	1.82	0.62
85:l5:909:A:H2'	85:l5:910:G:C8	2.35	0.62
85:l5:4922:C:C4	85:l5:4923:C:N4	2.68	0.62
6:SG:15:LEU:HD22	79:S2:155:G:H4'	1.80	0.62
7:SJ:10:ARG:NH1	79:S2:816:A:OP1	2.32	0.62
12:SH:82:GLU:N	12:SH:82:GLU:OE2	2.32	0.62
17:SO:38:ASN:ND2	79:S2:960:U:OP2	2.31	0.62
85:L5:4471:U:OP1	29:LH:168:LYS:NZ	2.21	0.62
85:L5:4728:U:OP1	23:LB:132:LYS:NZ	2.32	0.62
85:L5:4879:C:OP2	33:LM:116:LYS:NZ	2.32	0.62
32:LL:30:ALA:HA	32:LL:33:ILE:HD12	1.81	0.62
32:LL:125:ILE:HD11	53:Lh:122:LYS:HG2	1.82	0.62
33:LM:51:PRO:O	33:LM:55:MET:HE2	1.99	0.62
37:LQ:93:GLN:N	37:LQ:93:GLN:OE1	2.33	0.62
40:LT:150:LEU:HD12	40:LT:151:LEU:N	2.15	0.62
65:SD:106:ARG:HH21	65:SD:173:ARG:HD2	1.64	0.62
66:SF:63:LYS:O	66:SF:71:ARG:NH1	2.33	0.62
79:S2:1513:C:H2'	79:S2:1514:G:H8	1.63	0.62
79:S2:1560:U:O2	79:S2:1575:G:O6	2.18	0.62
88:CF:104:THR:O	88:CF:108:GLN:NE2	2.33	0.62
16:sN:20:ARG:NE	79:s2:919:A:OP1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:lR:70:ARG:HB3	38:lR:76:MET:HE2	1.82	0.61
69:sQ:8:GLN:N	69:sQ:8:GLN:OE1	2.33	0.61
85:l5:2478:C:O2	85:l5:2591:A:O2'	2.18	0.61
6:SG:33:ALA:HB3	79:S2:1746:U:H5'	1.82	0.61
7:SJ:81:LEU:HA	7:SJ:84:ILE:HD12	1.81	0.61
12:SH:57:ARG:HD3	12:SH:57:ARG:H	1.65	0.61
12:SH:154:ILE:HB	12:SH:185:VAL:HG22	1.82	0.61
19:Sb:22:LYS:HA	79:S2:921:G:C6	2.35	0.61
20:L7:75:G:N2	20:L7:100:A:OP2	2.32	0.61
65:SD:7:LYS:HZ1	72:SU:25:THR:CG2	2.13	0.61
67:SK:15:LEU:HD13	67:SK:21:MET:CE	2.22	0.61
72:SU:37:ALA:CB	72:SU:41:ARG:HH22	2.13	0.61
84:Lt:105:THR:HG22	84:Lt:107:ASP:H	1.65	0.61
1:cH:49:ASN:HB3	1:cH:51:GLN:HE22	1.65	0.61
3:sI:124:LYS:HB3	3:sI:125:LYS:HZ2	1.65	0.61
3:sI:141:ARG:HB2	3:sI:146:GLN:NE2	2.15	0.61
10:sA:176:TRP:CZ3	10:sA:199:PRO:HB3	2.35	0.61
13:sV:14:PRO:HG2	13:sV:23:ILE:HD11	1.81	0.61
17:sO:98:ARG:HA	17:sO:133:THR:HG22	1.81	0.61
27:lF:69:ILE:HG22	27:lF:73:ARG:HD2	1.81	0.61
45:lZ:33:THR:OG1	45:lZ:35:ASP:OD1	2.16	0.61
45:lZ:74:VAL:O	45:lZ:74:VAL:CG1	2.48	0.61
79:s2:327:G:H5"	79:s2:328:U:C2	2.34	0.61
85:l5:4274:A:H2'	85:l5:4275:G:C8	2.35	0.61
2:SE:43:PRO:HB2	2:SE:45:ILE:HG22	1.81	0.61
4:SL:75:GLY:HA3	4:SL:88:ILE:HD12	1.82	0.61
85:L5:270:U:H2'	85:L5:271:C:C6	2.35	0.61
85:L5:691:C:H2'	85:L5:692:A:H8	1.65	0.61
85:L5:1100:U:H1'	85:L5:1167:C:H42	1.63	0.61
85:L5:1741:G:O2'	85:L5:1781:U:OP2	2.18	0.61
85:L5:1824:G:H2'	85:L5:1825:A:C8	2.34	0.61
85:L5:2902:G:N7	85:L5:2903:G:N2	2.48	0.61
85:L5:4238:G:H2'	85:L5:4239:A:H8	1.65	0.61
29:LH:93:ARG:HG2	29:LH:182:SER:HB3	1.80	0.61
34:LN:163:GLY:O	34:LN:172:ARG:NH1	2.33	0.61
77:SZ:88:LEU:HA	77:SZ:91:LEU:HD12	1.81	0.61
7:sJ:145:PRO:HD2	79:s2:522:A:H5"	1.81	0.61
11:sB:61:GLY:O	11:sB:65:ARG:NH2	2.33	0.61
12:sH:145:ARG:NH1	12:sH:145:ARG:HA	2.15	0.61
38:lR:7:GLN:N	38:lR:7:GLN:OE1	2.33	0.61
50:le:62:SER:OG	85:l5:2319:C:OP2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:sc:60:GLU:C	73:sc:60:GLU:OE2	2.43	0.61
77:sZ:83:LEU:HA	77:sZ:86:ALA:HB3	1.80	0.61
79:s2:557:U:H3'	79:s2:558:G:H2'	1.80	0.61
81:aP:3:C:H42	81:aP:70:A:H61	1.47	0.61
84:lt:109:ILE:CD1	84:lt:112:ILE:HD11	2.30	0.61
85:l5:512:U:O4	85:l5:647:G:O6	2.18	0.61
85:l5:1390:G:N2	85:l5:1393:G:OP2	2.27	0.61
85:l5:1708:G:H2'	85:l5:1709:C:H3'	1.82	0.61
12:SH:68:GLN:O	12:SH:71:SER:OG	2.14	0.61
15:SC:125:LYS:NZ	79:S2:1356:G:O2'	2.33	0.61
85:L5:1825:A:H2'	85:L5:1826:G:H8	1.65	0.61
85:L5:2568:C:H2'	85:L5:2569:G:H8	1.65	0.61
85:L5:2695:A:OP1	56:Lk:35:LYS:NZ	2.33	0.61
38:LR:177:LEU:HD22	79:S2:910:G:H4'	1.81	0.61
67:SK:45:VAL:O	67:SK:49:MET:HE2	1.99	0.61
68:SP:34:MET:CE	68:SP:45:LEU:HB3	2.24	0.61
76:SM:23:LYS:NZ	76:SM:88:TRP:O	2.33	0.61
79:S2:981:A:H2'	79:S2:982:G:C8	2.34	0.61
79:S2:1217:A:H2'	79:S2:1218:C:C6	2.35	0.61
79:S2:1825:A:N6	87:AT:38:A:N3	2.47	0.61
1:cH:43:LYS:HG3	1:cH:44:TRP:H	1.63	0.61
9:se:2:VAL:HG13	9:se:4:GLY:H	1.65	0.61
18:sW:2:VAL:CG2	18:sW:3:ARG:H	2.13	0.61
19:sb:11:SER:HG	19:sb:13:GLU:CD	2.06	0.61
20:l7:57:C:H2'	20:l7:58:A:H8	1.64	0.61
66:sF:122:ARG:HG2	66:sF:197:GLU:OE1	2.00	0.61
70:sS:51:ASP:OD1	70:sS:52:LEU:N	2.33	0.61
71:sT:138:VAL:O	71:sT:142:ASN:ND2	2.34	0.61
79:s2:291:G:H2'	79:s2:292:A:C8	2.35	0.61
79:s2:1588:A:H2'	79:s2:1589:A:C8	2.35	0.61
79:s2:1770:G:O3'	79:s2:1771:G:N2	2.33	0.61
85:l5:1754:U:H2'	85:l5:1755:C:H6	1.66	0.61
4:SL:23:VAL:HG13	4:SL:25:LEU:H	1.65	0.61
11:SB:30:TRP:HZ3	17:SO:19:PRO:N	1.93	0.61
11:SB:100:PHE:HB3	11:SB:181:LEU:HD21	1.81	0.61
15:SC:203:GLY:N	15:SC:221:ASP:OD2	2.33	0.61
17:SO:135:ILE:O	79:S2:943:U:O2'	2.16	0.61
85:L5:25:A:H2'	85:L5:26:C:H6	1.64	0.61
85:L5:1961:G:N2	85:L5:2024:G:O2'	2.31	0.61
85:L5:2080:U:H2'	85:L5:2081:C:C6	2.36	0.61
85:L5:2296:G:O2'	24:LC:242:PRO:O	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2540:C:H2'	85:L5:2541:G:H8	1.64	0.61
85:L5:4208:U:OP2	40:LT:4:THR:OG1	2.17	0.61
28:LG:33:GLU:OE1	28:LG:35:ARG:NH2	2.33	0.61
30:LI:47:PRO:HG2	30:LI:48:LEU:HD13	1.81	0.61
33:LM:89:THR:HG23	33:LM:92:ALA:H	1.66	0.61
39:LS:17:LEU:H	39:LS:17:LEU:HD23	1.65	0.61
60:Lo:92:GLU:OE1	60:Lo:95:GLY:N	2.33	0.61
79:S2:1308:U:H2'	79:S2:1309:C:H6	1.65	0.61
63:Lz:160:LYS:CG	63:Lz:165:LEU:HD13	2.29	0.61
16:sN:132:LYS:NZ	79:s2:1021:U:OP1	2.33	0.61
25:lD:152:ARG:HD3	85:l5:4240:G:H5"	1.81	0.61
34:lN:150:TRP:O	34:lN:156:HIS:ND1	2.32	0.61
41:lU:98:ASP:OD2	41:lU:99:TRP:NE1	2.34	0.61
45:lZ:41:ALA:HB2	45:lZ:77:TYR:HE1	1.65	0.61
52:lg:83:CYS:SG	52:lg:86:CYS:HB2	2.40	0.61
63:lz:199:GLN:NE2	63:lz:201:VAL:O	2.32	0.61
65:sD:135:GLU:HG3	65:sD:153:VAL:HG22	1.81	0.61
79:s2:1354:G:N1	79:s2:1357:A:OP2	2.33	0.61
79:s2:1466:G:H2'	79:s2:1467:C:O4'	2.01	0.61
81:aP:8:U:H5'	81:aP:49:C:H5'	1.83	0.61
85:l5:994:G:H2'	85:l5:995:C:H4'	1.82	0.61
85:l5:1536:U:H2'	85:l5:1537:A:H8	1.65	0.61
85:l5:1979:A:H2	85:l5:1987:C:H42	1.48	0.61
5:SX:117:GLY:O	5:SX:119:ARG:NH1	2.33	0.61
13:SV:7:GLU:OE2	13:SV:7:GLU:N	2.29	0.61
85:L5:3732:A:H2'	85:L5:3733:A:C8	2.36	0.61
22:LA:80:GLU:HB3	22:LA:170:ALA:HA	1.81	0.61
62:Lr:86:ALA:O	62:Lr:90:LEU:HD12	1.99	0.61
79:S2:600:G:H2'	79:S2:601:G:H8	1.64	0.61
79:S2:1064:C:H2'	79:S2:1065:G:H8	1.66	0.61
79:S2:1597:C:H4'	79:S2:1603:G:C6	2.36	0.61
1:cH:91:THR:OG1	79:s2:1321:G:OP1	2.18	0.61
32:lL:39:ARG:NH2	85:l5:1362:G:OP1	2.34	0.61
58:lm:106:ARG:HH22	85:l5:4696:C:C1'	2.01	0.61
71:sT:84:ARG:NH1	79:s2:1531:A:OP1	2.33	0.61
84:lt:19:GLY:HA3	84:lt:59:THR:HB	1.81	0.61
85:l5:4174:U:H2'	85:l5:4175:G:H8	1.66	0.61
7:SJ:164:PRO:HB3	7:SJ:170:PRO:HA	1.82	0.61
12:SH:126:HIS:O	12:SH:177:TYR:OH	2.17	0.61
18:SW:111:MET:HE3	18:SW:115:GLU:HG3	1.83	0.61
85:L5:188:G:N2	85:L5:190:G:O6	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:364:G:N7	55:Lj:55:ARG:NH2	2.48	0.61
85:L5:3809:G:OP2	85:L5:3809:G:N2	2.24	0.61
29:LH:77:VAL:HA	29:LH:80:MET:HB3	1.82	0.61
29:LH:96:TYR:HA	29:LH:177:ASP:HB3	1.82	0.61
38:LR:31:GLU:N	38:LR:31:GLU:OE1	2.34	0.61
70:SS:141:ARG:NH1	79:S2:1524:G:OP2	2.33	0.61
73:Sc:44:ARG:NH2	73:Sc:60:GLU:O	2.34	0.61
79:S2:550:C:H2'	79:S2:551:U:C6	2.36	0.61
79:S2:1244:U:H2'	79:S2:1245:G:C8	2.36	0.61
83:Ls:62:ARG:NH2	83:Ls:82:ILE:O	2.33	0.61
6:sG:44:GLU:HB2	6:sG:119:LYS:NZ	2.16	0.61
15:sC:92:GLU:OE1	15:sC:92:GLU:N	2.30	0.61
26:lE:161:ARG:NH1	26:lE:273:SER:OG	2.33	0.61
31:lJ:32:ARG:HB2	31:lJ:35:ARG:HH21	1.65	0.61
32:lL:81:LEU:HD11	32:lL:98:VAL:HB	1.83	0.61
42:lV:40:ILE:HD12	85:l5:3799:A:C5	2.36	0.61
43:lX:100:VAL:HG21	43:lX:109:ILE:HD11	1.83	0.61
66:sF:40:ALA:HA	66:sF:45:TYR:CZ	2.35	0.61
66:sF:127:ARG:HB3	66:sF:135:ARG:HH21	1.64	0.61
80:cB:744:ILE:HD11	80:cB:818:GLN:HB2	1.83	0.61
85:l5:184:U:H1'	85:l5:254:G:H22	1.65	0.61
85:l5:189:G:H2'	85:l5:190:G:C8	2.36	0.61
7:SJ:3:VAL:HG13	7:SJ:5:ARG:HH11	1.66	0.61
7:SJ:110:LEU:CA	7:SJ:113:GLN:HE21	2.11	0.61
11:SB:116:LYS:NZ	79:S2:990:A:O5'	2.34	0.61
85:L5:1461:C:H2'	85:L5:1462:A:C8	2.36	0.61
85:L5:2770:C:H2'	85:L5:2771:G:H8	1.62	0.61
85:L5:4474:A:OP2	85:L5:4476:C:N4	2.34	0.61
85:L5:4545:G:OP2	22:LA:214:GLY:N	2.31	0.61
85:L5:4626:A:H4'	23:LB:53:MET:CE	2.29	0.61
85:L5:4638:U:H3'	85:L5:4639:G:H21	1.65	0.61
85:L5:4868:G:O2'	85:L5:4872:G:OP1	2.18	0.61
27:LF:157:ARG:HD2	27:LF:213:LEU:HD23	1.83	0.61
28:LG:131:LYS:HZ1	28:LG:133:PRO:HB3	1.66	0.61
31:LJ:15:LEU:HB2	31:LJ:165:TRP:CD1	2.36	0.61
31:LJ:169:LYS:HZ2	31:LJ:170:TYR:HE2	1.49	0.61
68:SP:115:TYR:N	68:SP:118:GLU:OE1	2.34	0.61
79:S2:1456:G:H2'	79:S2:1457:U:C6	2.35	0.61
79:S2:1528:G:O2'	79:S2:1666:C:OP1	2.17	0.61
37:lQ:64:SER:HG	85:l5:1501:C:HO2'	1.42	0.61
42:lV:127:ASP:N	42:lV:127:ASP:OD2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:430:MET:HE1	80:cB:486:THR:OG1	2.01	0.61
80:cB:603:TYR:HB2	80:cB:706:ASP:H	1.65	0.61
83:ls:102:LEU:HA	83:ls:105:ASN:HD21	1.65	0.61
85:l5:1743:A:N1	85:l5:1789:C:O2'	2.29	0.61
7:SJ:104:ASP:OD1	7:SJ:104:ASP:N	2.34	0.61
10:SA:36:GLN:OE1	10:SA:36:GLN:N	2.25	0.61
85:L5:950:G:H2'	85:L5:951:G:H8	1.65	0.61
85:L5:2696:A:N1	56:Lk:24:LYS:NZ	2.40	0.61
85:L5:3916:G:H2'	85:L5:3917:A:H8	1.65	0.61
85:L5:4088:C:H2'	85:L5:4089:G:H8	1.66	0.61
25:LD:212:MET:SD	25:LD:212:MET:N	2.74	0.61
28:LG:221:ALA:O	28:LG:225:ASN:ND2	2.34	0.61
38:LR:177:LEU:HA	38:LR:180:LYS:HB2	1.83	0.61
69:SQ:51:LEU:HD12	69:SQ:84:ILE:HD11	1.81	0.61
10:sA:157:VAL:O	13:sV:65:SER:OG	2.19	0.61
11:sB:119:THR:CG2	11:sB:155:TYR:HD1	2.14	0.61
11:sB:149:GLN:HG3	64:sR:133:GLY:O	2.01	0.61
15:sC:137:VAL:HG11	15:sC:244:ILE:CD1	2.30	0.61
23:lB:77:THR:N	23:lB:333:LEU:O	2.33	0.61
41:lU:78:PHE:CE1	41:lU:82:TYR:CD1	2.89	0.61
69:sQ:4:LYS:HG2	79:s2:1423:C:H41	1.65	0.61
79:s2:1533:A:H2	79:s2:1536:G:N3	1.98	0.61
85:l5:1183:C:H2'	85:l5:1184:A:C8	2.36	0.61
85:l5:1503:A:H4'	85:l5:1504:G:H5'	1.83	0.61
2:SE:50:ASN:O	2:SE:53:LYS:NZ	2.34	0.61
6:SG:181:THR:HG22	6:SG:183:ARG:H	1.66	0.61
10:SA:15:VAL:HA	10:SA:18:PHE:CE1	2.36	0.61
85:L5:189:G:N3	85:L5:253:G:N2	2.49	0.61
85:L5:989:U:O2	85:L5:1064:G:O6	2.19	0.61
85:L5:1683:U:H2'	85:L5:1684:A:C8	2.36	0.61
85:L5:2711:G:OP2	38:LR:39:GLN:NE2	2.34	0.61
85:L5:4992:G:H2'	85:L5:4993:G:C8	2.36	0.61
20:L7:64:G:H2'	20:L7:65:G:H8	1.65	0.61
30:LI:87:MET:HE2	30:LI:87:MET:HA	1.81	0.61
69:SQ:125:ARG:HB2	79:S2:1648:G:H5"	1.82	0.61
70:SS:44:VAL:HG21	70:SS:71:MET:CG	2.30	0.61
76:SM:129:LYS:HA	76:SM:132:LYS:HD2	1.83	0.61
79:S2:613:G:N2	79:S2:626:G:OP1	2.33	0.61
79:S2:1201:U:H2'	79:S2:1202:U:C6	2.35	0.61
88:CF:155:MET:CE	88:CF:193:ILE:C	2.73	0.61
9:se:8:ARG:NH2	79:s2:615:C:O3'	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:sA:190:SER:HA	13:sV:45:ARG:NH2	2.06	0.61
11:sB:227:LYS:HA	11:sB:230:GLU:CD	2.25	0.61
15:sC:187:ARG:HG2	15:sC:192:LEU:HD12	1.83	0.61
19:sb:13:GLU:C	19:sb:13:GLU:OE1	2.43	0.61
22:lA:158:ILE:HG23	22:lA:162:ASN:OD1	2.00	0.61
23:lB:332:MET:CE	23:lB:365:LEU:HD11	2.31	0.61
25:lD:50:ARG:NH1	25:lD:72:ASP:OD2	2.34	0.61
32:lL:16:LYS:O	32:lL:21:ARG:NH2	2.30	0.61
33:lM:44:GLN:O	85:l5:935:A:O2'	2.19	0.61
64:sR:38:ILE:HG22	65:sD:208:VAL:HG11	1.83	0.61
71:sT:129:ARG:CD	71:sT:133:ARG:CZ	2.78	0.61
74:sd:16:GLN:N	74:sd:16:GLN:OE1	2.33	0.61
80:cB:8:GLN:NE2	80:cB:45:ILE:HD11	2.13	0.61
82:pE:16:C:H5"	82:pE:60:U:H3	1.65	0.61
85:l5:2869:U:O2'	85:l5:2881:A:N7	2.30	0.61
6:SG:176:ILE:HG23	6:SG:179:LEU:HD22	1.82	0.61
10:SA:39:TYR:CG	64:SR:105:MET:HE1	2.34	0.61
85:L5:151:G:OP2	34:LN:4:TYR:OH	2.18	0.61
85:L5:299:C:H2'	85:L5:300:A:H8	1.66	0.61
85:L5:2017:A:O2'	85:L5:2018:C:H6	1.74	0.61
32:LL:63:THR:O	32:LL:67:HIS:N	2.33	0.61
48:Lc:11:LEU:HD23	48:Lc:11:LEU:H	1.66	0.61
62:Lr:82:ILE:HG23	62:Lr:84:LYS:HE3	1.81	0.61
64:SR:41:ILE:HD11	65:SD:208:VAL:HG13	1.81	0.61
88:CF:352:GLN:N	88:CF:352:GLN:OE1	2.33	0.61
84:Lt:121:LEU:HD22	84:Lt:129:ILE:HG13	1.82	0.61
2:sE:108:ARG:HH22	79:s2:846:G:P	2.24	0.60
7:sJ:136:ARG:NH2	7:sJ:159:PHE:O	2.34	0.60
11:sB:164:ILE:HG22	11:sB:204:ILE:HD11	1.83	0.60
22:lA:224:THR:HG22	22:lA:237:LEU:HD12	1.83	0.60
26:lE:205:ASN:O	26:lE:205:ASN:ND2	2.26	0.60
60:lo:96:ASP:N	60:lo:96:ASP:OD2	2.33	0.60
63:lz:113:SER:H	63:lz:117:ILE:HD11	1.67	0.60
75:sg:288:SER:O	75:sg:301:GLY:N	2.34	0.60
79:s2:28:U:H2'	79:s2:29:G:H8	1.66	0.60
85:l5:1414:C:O2'	85:l5:1415:G:H5'	2.01	0.60
85:l5:3967:G:O2'	85:l5:4047:A:N6	2.32	0.60
86:LW:8:PHE:CZ	86:LW:46:PRO:N	2.69	0.60
86:LW:33:ASN:HD21	86:LW:35:LYS:HE3	1.64	0.60
86:LW:91:MET:SD	86:LW:91:MET:N	2.74	0.60
14:Sa:10:ARG:NH1	79:S2:1859:A:OP1	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:SC:102:LEU:HD21	15:SC:130:ILE:HB	1.83	0.60
85:L5:4055:U:OP1	63:Lz:202:ARG:NH2	2.32	0.60
85:L5:4525:C:OP1	23:LB:246:ARG:NH1	2.33	0.60
22:LA:229:ALA:HB3	22:LA:234:LYS:HB3	1.83	0.60
39:LS:130:GLU:CG	39:LS:132:ILE:HD11	2.26	0.60
63:Lz:40:ASN:OD1	63:Lz:40:ASN:O	2.18	0.60
83:Ls:77:LYS:HD2	83:Ls:78:LEU:HD22	1.83	0.60
7:sJ:92:MET:HG2	7:sJ:92:MET:O	1.99	0.60
13:sV:15:ARG:HE	15:sC:84:PHE:HA	1.67	0.60
45:lZ:53:VAL:HG11	45:lZ:62:ILE:HG23	1.81	0.60
52:lg:97:ILE:HD11	85:l5:4122:G:C5	2.36	0.60
53:lh:4:ILE:HG21	53:lh:20:GLN:NE2	2.17	0.60
70:sS:65:GLU:HA	70:sS:68:ILE:HD12	1.82	0.60
73:sc:15:THR:OG1	73:sc:31:ARG:HG3	2.01	0.60
75:sg:112:ALA:HB3	75:sg:121:VAL:HG23	1.81	0.60
75:sg:217:MET:CE	75:sg:219:TRP:CZ2	2.84	0.60
85:l5:262:G:H2'	85:l5:263:G:C8	2.36	0.60
85:l5:499:G:H2'	85:l5:504:G:H22	1.65	0.60
85:l5:1346:C:H2'	85:l5:1347:G:H8	1.65	0.60
85:l5:3717:A:H2'	85:l5:3718:A:H8	1.65	0.60
85:l5:3951:G:H2'	85:l5:3952:A:C8	2.36	0.60
85:l5:4989:U:H1'	85:l5:4990:C:H5	1.65	0.60
2:SE:188:ASN:HB3	2:SE:191:ARG:HD3	1.84	0.60
8:SY:20:ARG:HB2	8:SY:74:MET:CE	2.31	0.60
85:L5:55:G:OP2	55:Lj:43:ARG:NH2	2.33	0.60
85:L5:1996:C:H2'	85:L5:1997:U:H1'	1.82	0.60
85:L5:2389:A:H2'	85:L5:2390:G:C8	2.35	0.60
85:L5:3916:G:H2'	85:L5:3917:A:C8	2.36	0.60
85:L5:4537:C:H2'	85:L5:4538:G:C8	2.36	0.60
20:L7:96:U:OP1	39:LS:42:SER:OG	2.19	0.60
23:LB:84:MET:HG2	23:LB:164:ALA:HB1	1.83	0.60
27:LF:247:MET:CA	27:LF:247:MET:CE	2.64	0.60
28:LG:230:TYR:CA	28:LG:233:ILE:HG22	2.30	0.60
32:LL:111:GLN:HA	32:LL:114:VAL:HG12	1.83	0.60
72:SU:24:LEU:HD22	72:SU:112:VAL:HA	1.83	0.60
75:Sg:205:SER:O	75:Sg:221:LEU:N	2.29	0.60
79:S2:374:G:O6	79:S2:385:G:O6	2.19	0.60
79:S2:945:U:H2'	79:S2:946:U:C6	2.36	0.60
79:S2:1213:C:H2'	79:S2:1214:A:H8	1.66	0.60
79:S2:1446:A:HO2'	79:S2:1447:G:H8	1.49	0.60
2:sE:125:LYS:O	2:sE:142:HIS:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:sG:189:ARG:NH1	79:s2:332:G:N7	2.49	0.60
8:sY:20:ARG:NH2	8:sY:22:GLN:NE2	2.48	0.60
10:sA:191:ARG:HG2	13:sV:45:ARG:NH1	2.16	0.60
30:lI:180:GLU:OE1	30:lI:184:MET:CE	2.50	0.60
42:lV:71:GLU:N	42:lV:71:GLU:OE1	2.33	0.60
55:lj:8:PHE:HD1	55:lj:11:ARG:HH21	1.49	0.60
64:sR:14:ARG:NH2	79:s2:1373:C:O2	2.34	0.60
64:sR:41:ILE:CG1	79:s2:1387:G:H2'	2.31	0.60
79:s2:889:U:OP2	79:s2:896:U:N3	2.34	0.60
80:cB:39:LEU:O	80:cB:43:ALA:HB3	2.01	0.60
85:l5:711:A:H2'	85:l5:712:C:C6	2.36	0.60
85:l5:1961:G:O2'	85:l5:2025:A:N6	2.34	0.60
85:l5:2464:C:O2'	85:l5:2465:C:H6	1.85	0.60
85:l5:4459:U:H2'	85:l5:4460:U:C6	2.36	0.60
2:SE:12:VAL:O	79:S2:812:A:O2'	2.19	0.60
12:SH:69:LEU:HA	12:SH:72:PHE:HD1	1.66	0.60
85:L5:477:C:H2'	85:L5:478:G:H8	1.66	0.60
85:L5:1670:G:OP1	47:Lb:12:GLN:NE2	2.24	0.60
85:L5:4238:G:H2'	85:L5:4239:A:C8	2.36	0.60
21:L8:5:U:OP2	36:LP:62:ARG:NH1	2.35	0.60
28:LG:114:LEU:HA	28:LG:117:ARG:HG2	1.84	0.60
36:LP:84:PRO:HB2	36:LP:87:SER:HB2	1.84	0.60
69:SQ:34:VAL:N	69:SQ:37:ARG:O	2.27	0.60
79:S2:42:A:O2'	79:S2:98:C:OP1	2.15	0.60
79:S2:795:A:H2'	79:S2:796:G:C8	2.36	0.60
87:AT:61:A:OP1	87:AT:63:C:N4	2.34	0.60
88:CF:232:LEU:HA	88:CF:235:ILE:HG12	1.83	0.60
15:sC:183:LYS:HG2	18:sW:95:PRO:HA	1.84	0.60
17:sO:95:ILE:HD11	17:sO:126:ILE:CD1	2.31	0.60
47:lb:99:ILE:HD11	85:l5:1266:G:H5'	1.84	0.60
57:ll:2:SER:N	85:l5:2406:G:N7	2.49	0.60
75:sg:87:LEU:HB2	75:sg:101:PHE:CD2	2.35	0.60
78:sf:91:ASN:HD21	78:sf:93:HIS:HB3	1.67	0.60
79:s2:464:A:H62	80:cB:48:SER:HG	1.47	0.60
80:cB:584:SER:OG	80:cB:585:GLU:OE1	2.18	0.60
10:SA:39:TYR:HB2	64:SR:105:MET:HE2	1.77	0.60
85:L5:271:C:H2'	85:L5:272:U:H6	1.66	0.60
85:L5:1354:A:N6	85:L5:1503:A:O4'	2.34	0.60
85:L5:1648:C:OP2	85:L5:1649:U:O2'	2.18	0.60
85:L5:1972:G:O6	85:L5:1994:C:N4	2.33	0.60
85:L5:4291:G:H5'	85:L5:4293:U:C6	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4918:C:H2'	85:L5:4919:G:C8	2.36	0.60
23:LB:302:ASN:O	23:LB:304:SER:N	2.33	0.60
38:LR:176:ARG:HB3	79:S2:910:G:OP2	2.01	0.60
45:LZ:5:MET:O	45:LZ:28:ASN:ND2	2.34	0.60
45:LZ:57:MET:CG	45:LZ:62:ILE:HG13	2.27	0.60
65:SD:24:PHE:HE1	67:SK:68:TYR:CG	2.18	0.60
77:SZ:61:GLU:HA	77:SZ:61:GLU:OE1	2.01	0.60
77:SZ:70:PRO:CD	77:SZ:71:ALA:H	2.13	0.60
79:S2:1804:U:H2'	79:S2:1805:G:C8	2.36	0.60
8:sY:20:ARG:HH21	8:sY:22:GLN:NE2	2.00	0.60
24:lC:110:ARG:O	24:lC:113:ARG:NH1	2.33	0.60
24:lC:326:LEU:HD23	85:l5:976:G:H4'	1.84	0.60
28:lG:113:ARG:HE	28:lG:117:ARG:NH1	1.97	0.60
66:sF:97:PHE:HE1	66:sF:109:LEU:CD2	2.13	0.60
79:s2:1797:U:H2'	79:s2:1798:C:C6	2.37	0.60
85:l5:121:A:H62	85:l5:152:U:H3	1.48	0.60
85:l5:4301:U:OP2	85:l5:4303:C:N4	2.34	0.60
85:l5:4635:A:OP1	85:l5:4636:U:O2'	2.18	0.60
86:LW:34:ALA:HA	86:LW:37:GLU:HB3	1.83	0.60
10:SA:39:TYR:CG	64:SR:105:MET:SD	2.95	0.60
85:L5:138:G:H2'	85:L5:139:G:H8	1.67	0.60
85:L5:1457:G:O2'	37:LQ:75:ARG:NH2	2.34	0.60
85:L5:2387:G:OP2	38:LR:8:LYS:NZ	2.34	0.60
21:L8:67:U:H2'	21:L8:68:G:C8	2.36	0.60
23:LB:89:ILE:HD11	23:LB:201:LEU:HD11	1.84	0.60
24:LC:211:TYR:HE1	24:LC:229:LEU:HB3	1.65	0.60
29:LH:177:ASP:OD2	29:LH:177:ASP:N	2.34	0.60
30:LI:184:MET:HG2	30:LI:190:LEU:HD13	1.84	0.60
31:LJ:90:ARG:HG3	31:LJ:107:PHE:CE2	2.36	0.60
52:Lg:85:LYS:HA	52:Lg:88:ARG:NH2	2.17	0.60
68:SP:29:SER:H	68:SP:32:GLN:HE22	1.48	0.60
75:Sg:148:SER:OG	75:Sg:149:GLU:OE2	2.18	0.60
79:S2:752:G:N2	79:S2:752:G:OP2	2.33	0.60
31:lJ:23:ASN:OD1	31:lJ:24:ILE:N	2.35	0.60
49:ld:33:ILE:HD11	49:ld:45:ALA:CB	2.31	0.60
51:lf:40:GLU:O	51:lf:109:ARG:NH2	2.34	0.60
66:sF:77:MET:CE	66:sF:86:LYS:N	2.65	0.60
77:sZ:104:ARG:HG3	77:sZ:105:ALA:H	1.65	0.60
85:l5:234:G:N2	85:l5:2332:A:O2'	2.34	0.60
85:l5:2411:C:H2'	85:l5:2412:A:H8	1.65	0.60
85:l5:3633:C:H2'	85:l5:3634:G:C8	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4887:C:N4	85:l5:4932:U:H3	1.98	0.60
2:SE:89:VAL:HG22	2:SE:100:ARG:HE	1.66	0.60
11:SB:30:TRP:CE3	17:SO:19:PRO:HB3	2.36	0.60
85:L5:270:U:H2'	85:L5:271:C:H6	1.67	0.60
85:L5:4459:U:H2'	85:L5:4460:U:C6	2.35	0.60
85:L5:4911:A:OP2	23:LB:100:ARG:NH1	2.32	0.60
23:LB:224:LYS:HD3	23:LB:340:THR:CG2	2.27	0.60
30:LI:152:LEU:HB3	30:LI:165:ILE:HD12	1.82	0.60
32:LL:63:THR:HG21	46:La:66:ASN:HB3	1.82	0.60
33:LM:25:VAL:HG11	33:LM:38:VAL:HG13	1.82	0.60
38:LR:98:ARG:HG2	38:LR:99:MET:HE3	1.83	0.60
47:Lb:54:LEU:O	47:Lb:54:LEU:HD12	2.02	0.60
55:Lj:2:THR:O	55:Lj:7:SER:OG	2.18	0.60
70:SS:2:SER:OG	70:SS:4:VAL:O	2.19	0.60
70:SS:120:HIS:ND1	79:S2:1622:U:OP1	2.34	0.60
79:S2:1380:C:H2'	79:S2:1381:G:C8	2.37	0.60
87:AT:16:C:O2'	87:AT:19:G:OP1	2.18	0.60
6:sG:137:ARG:NH2	79:s2:146:G:N7	2.47	0.60
8:sY:106:GLN:CD	8:sY:106:GLN:H	2.09	0.60
14:sa:11:ALA:H	14:sa:33:ASP:HB2	1.65	0.60
34:lN:90:ASN:ND2	85:l5:3928:A:OP1	2.35	0.60
70:sS:26:ILE:HA	70:sS:56:ALA:HB2	1.83	0.60
71:sT:22:LEU:HD12	71:sT:28:LEU:HD21	1.82	0.60
79:s2:1130:G:N2	79:s2:1130:G:OP2	2.35	0.60
79:s2:1552:G:H1'	79:s2:1557:C:H41	1.66	0.60
80:cB:656:GLY:H	80:cB:684:GLN:HE22	1.49	0.60
80:cB:744:ILE:HD13	80:cB:818:GLN:HB3	1.83	0.60
83:ls:174:LEU:HD23	83:ls:175:LEU:HD22	1.84	0.60
85:l5:908:G:H2'	85:l5:909:A:C8	2.36	0.60
85:l5:1577:G:O2'	85:l5:1612:G:H4'	2.01	0.60
85:l5:3589:G:N2	85:l5:3590:G:N7	2.49	0.60
86:LW:96:GLN:CD	86:LW:96:GLN:N	2.60	0.60
3:SI:44:HIS:ND1	79:S2:1740:C:OP1	2.35	0.60
6:SG:216:ARG:O	6:SG:217:MET:HE3	2.00	0.60
11:SB:63:LYS:NZ	11:SB:90:ASP:OD2	2.31	0.60
18:SW:115:GLU:OE2	18:SW:118:ARG:NH2	2.35	0.60
85:L5:221:C:H2'	85:L5:222:C:H6	1.67	0.60
85:L5:909:A:H2'	85:L5:910:G:H8	1.66	0.60
85:L5:1339:U:H2'	85:L5:1340:C:C6	2.37	0.60
85:L5:4598:C:H2'	85:L5:4611:A:H61	1.66	0.60
23:LB:315:ASN:ND2	23:LB:325:GLU:HB2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:LD:52:ILE:CD1	25:LD:147:ASP:OD2	2.50	0.60
27:LF:50:ILE:HD12	27:LF:186:CYS:HB3	1.83	0.60
29:LH:48:LEU:HB2	29:LH:54:ARG:HB2	1.83	0.60
31:LJ:52:LYS:NZ	60:Lo:101:GLY:O	2.34	0.60
31:LJ:96:LYS:CD	31:LJ:175:LEU:CD1	2.78	0.60
32:LL:59:VAL:HG21	32:LL:73:GLY:HA3	1.83	0.60
40:LT:127:GLN:HE22	40:LT:131:GLN:HE21	1.50	0.60
45:LZ:54:THR:O	45:LZ:57:MET:HE3	2.02	0.60
46:La:79:TRP:CE2	46:La:120:GLN:NE2	2.69	0.60
49:Ld:64:ILE:HG23	49:Ld:68:LEU:HD23	1.84	0.60
65:SD:40:ARG:HB3	65:SD:47:GLU:HG2	1.83	0.60
75:Sg:127:LYS:HG2	75:Sg:127:LYS:O	2.02	0.60
75:Sg:218:LEU:HD23	75:Sg:228:TYR:CE2	2.37	0.60
79:S2:64:A:N6	79:S2:83:A:OP2	2.35	0.60
79:S2:1144:A:H2'	79:S2:1145:A:C8	2.36	0.60
1:cH:43:LYS:HZ2	9:se:46:VAL:HG12	1.67	0.60
4:sL:57:ASP:OD1	4:sL:60:CYS:N	2.34	0.60
5:sX:84:PHE:CD1	5:sX:115:ILE:HD11	2.37	0.60
12:sH:44:ASN:H	12:sH:68:GLN:NE2	2.00	0.60
23:lB:30:LYS:NZ	85:l5:4717:A:OP2	2.25	0.60
31:lJ:121:PRO:CD	70:sS:101:ASN:ND2	2.62	0.60
42:lV:18:LEU:HD23	42:lV:54:ALA:HB3	1.83	0.60
64:sR:56:HIS:CE1	79:s2:1461:G:H1	2.19	0.60
69:sQ:117:ARG:HE	69:sQ:121:VAL:HG11	1.66	0.60
79:s2:830:A:OP2	79:s2:846:G:N2	2.34	0.60
80:cB:10:ARG:NH2	80:cB:14:ASP:OD2	2.35	0.60
80:cB:686:ALA:HB2	80:cB:726:ARG:HG3	1.84	0.60
85:l5:120:A:N1	85:l5:148:C:O2'	2.28	0.60
85:l5:3599:A:H2'	85:l5:3600:G:C8	2.37	0.60
86:LW:8:PHE:CG	86:LW:46:PRO:HB3	2.36	0.60
86:LW:52:THR:N	86:LW:55:TYR:OH	2.35	0.60
6:SG:92:ARG:O	79:S2:453:C:O2'	2.13	0.60
8:SY:36:PRO:HG3	79:S2:570:C:H4'	1.84	0.60
11:SB:40:ASN:ND2	11:SB:76:ASN:OD1	2.35	0.60
11:SB:151:ARG:NH1	79:S2:1102:G:OP2	2.34	0.60
85:L5:121:A:OP1	28:LG:110:LYS:NZ	2.28	0.60
85:L5:1667:G:N1	85:L5:2281:U:OP2	2.31	0.60
85:L5:3893:C:H2'	85:L5:3894:A:C8	2.37	0.60
85:L5:4354:U:O4	46:La:61:TYR:N	2.35	0.60
25:LD:211:LEU:HD21	25:LD:219:TYR:HA	1.83	0.60
32:LL:77:SER:N	32:LL:80:GLU:OE1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:LP:40:HIS:CE1	36:LP:42:ARG:HG2	2.35	0.60
43:LX:135:LYS:NZ	43:LX:137:TYR:OH	2.31	0.60
62:Lr:119:ARG:HA	62:Lr:122:LYS:HD3	1.82	0.60
72:SU:37:ALA:CB	72:SU:41:ARG:NH1	2.57	0.60
76:SM:35:ILE:HD12	76:SM:61:TYR:CE1	2.37	0.60
78:Sf:121:CYS:SG	78:Sf:132:MET:HE1	2.42	0.60
79:S2:1828:C:H2'	79:S2:1829:G:C8	2.37	0.60
88:CF:94:GLY:H	88:CF:102:MET:CE	2.14	0.60
10:sA:89:LYS:HE3	10:sA:201:LEU:O	2.01	0.60
16:sN:87:ASP:CG	79:s2:924:G:H21	2.10	0.60
17:sO:14:VAL:H	17:sO:15:ILE:HA	1.66	0.60
22:lA:56:ALA:HB2	22:lA:130:SER:HB3	1.84	0.60
26:lE:73:TYR:OH	85:l5:982:U:OP1	2.13	0.60
27:lF:85:ALA:N	40:lT:138:ALA:HB2	2.17	0.60
69:sQ:62:ARG:HH12	69:sQ:108:ILE:HG22	1.67	0.60
70:sS:67:VAL:C	70:sS:71:MET:HE3	2.26	0.60
75:sg:272:GLN:NE2	75:sg:284:PRO:O	2.34	0.60
79:s2:793:G:H2'	79:s2:794:A:H8	1.66	0.60
79:s2:1736:G:H2'	79:s2:1737:G:H8	1.67	0.60
80:cB:396:MET:HE1	80:cB:416:VAL:HG23	1.83	0.60
80:cB:800:LEU:HD23	80:cB:810:PRO:HG3	1.84	0.60
85:l5:1762:C:C4	85:l5:1770:A:N1	2.70	0.60
85:l5:3848:U:H2'	85:l5:3849:A:C8	2.35	0.60
18:SW:4:MET:HE3	79:S2:682:U:O2'	2.00	0.60
85:L5:10:A:H2'	85:L5:11:G:C8	2.37	0.60
85:L5:200:U:OP1	44:LY:36:LYS:NZ	2.34	0.60
85:L5:1617:G:O3'	55:Lj:12:ARG:NH2	2.34	0.60
85:L5:3938:G:N2	85:L5:4171:C:OP2	2.33	0.60
85:L5:3971:G:C4	85:L5:4051:C:H1'	2.37	0.60
85:L5:4768:G:OP1	35:LO:168:TYR:OH	2.19	0.60
68:SP:86:LEU:HB3	68:SP:89:MET:HE1	1.83	0.60
70:SS:113:ARG:O	70:SS:117:ILE:HG12	2.02	0.60
71:ST:112:MET:CE	71:ST:127:GLY:HA3	2.29	0.60
75:Sg:191:HIS:HE2	75:Sg:219:TRP:HH2	1.48	0.60
78:Sf:105:TYR:CD2	78:Sf:131:PHE:CE2	2.89	0.60
79:S2:98:C:OP2	79:S2:426:A:O2'	2.15	0.60
79:S2:498:C:N4	79:S2:499:G:O6	2.35	0.60
79:S2:925:G:O6	79:S2:1017:U:O4	2.20	0.60
6:sG:70:HIS:HA	6:sG:98:ARG:HH12	1.67	0.60
12:sH:104:PRO:HD2	12:sH:116:ARG:HH21	1.66	0.60
17:sO:13:GLN:HG2	17:sO:15:ILE:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:sb:17:ARG:HH12	79:s2:1128:C:H5'	1.66	0.60
23:lB:213:GLN:HE22	23:lB:286:LYS:HA	1.66	0.60
52:lg:66:ARG:NH2	85:l5:2517:A:O2'	2.35	0.60
60:lo:61:LYS:HD2	60:lo:87:ARG:HH12	1.66	0.60
63:lz:68:LEU:HD11	63:lz:85:MET:HG2	1.83	0.60
72:sU:104:ILE:HD11	75:Sg:244:ASN:HD22	1.65	0.60
77:sZ:80:ARG:NH1	79:s2:1598:G:OP1	2.35	0.60
85:l5:188:G:N2	85:l5:190:G:O6	2.34	0.60
85:l5:1669:A:H4'	85:l5:1685:G:N2	2.17	0.60
85:l5:3799:A:N3	85:l5:4506:C:O2'	2.28	0.60
85:l5:4139:G:N2	85:l5:4140:C:H41	1.99	0.60
85:L5:700:G:H2'	85:L5:701:G:C8	2.37	0.60
85:L5:1847:C:H2'	85:L5:1848:C:C6	2.37	0.60
85:L5:4922:C:H2'	85:L5:4923:C:C6	2.36	0.60
22:LA:116:LEU:HB3	22:LA:126:LEU:HB2	1.84	0.60
31:LJ:169:LYS:O	31:LJ:169:LYS:HD2	2.02	0.60
41:LU:61:VAL:HG23	41:LU:74:SER:HB2	1.84	0.60
75:Sg:178:ASN:ND2	75:Sg:181:ASN:OD1	2.30	0.60
79:S2:67:C:O2'	79:S2:69:C:OP2	2.20	0.60
79:S2:907:G:H2'	79:S2:908:A:C8	2.36	0.60
83:Ls:173:THR:O	83:Ls:177:MET:HG2	2.02	0.60
8:sY:56:PHE:HB2	8:sY:74:MET:HB3	1.85	0.59
34:lN:140:LYS:HE2	34:lN:144:ARG:HH21	1.67	0.59
40:lT:43:LYS:O	40:lT:58:HIS:ND1	2.34	0.59
61:lp:38:THR:HA	61:lp:45:THR:HA	1.82	0.59
62:lr:46:ARG:NH2	85:l5:667:A:OP1	2.35	0.59
75:sg:306:LEU:C	75:sg:306:LEU:HD12	2.27	0.59
79:s2:145:G:H2'	79:s2:146:G:C8	2.36	0.59
79:s2:604:A:N3	79:s2:639:C:O2'	2.29	0.59
85:l5:1751:A:H2'	85:l5:1752:G:H8	1.66	0.59
6:SG:141:ILE:HG12	6:SG:176:ILE:HD11	1.84	0.59
17:SO:14:VAL:HG11	17:SO:17:LEU:HB2	1.83	0.59
85:L5:1662:C:H2'	85:L5:1663:C:H6	1.65	0.59
85:L5:2343:G:C6	24:LC:101:MET:HE1	2.37	0.59
85:L5:2786:C:O2'	85:L5:2787:A:OP2	2.18	0.59
85:L5:2848:G:O2'	85:L5:3838:U:O4	2.17	0.59
85:L5:4630:G:H2'	85:L5:4631:G:H8	1.67	0.59
85:L5:4765:G:O6	33:LM:4:ARG:NH2	2.35	0.59
85:L5:4990:C:H5"	85:L5:4991:U:H5"	1.84	0.59
25:LD:212:MET:HE1	25:LD:219:TYR:CE1	2.37	0.59
28:LG:204:PHE:CE1	28:LG:207:VAL:HG22	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:LN:128:LYS:HB3	34:LN:130:PHE:HE2	1.65	0.59
50:Le:7:LEU:HD23	50:Le:8:VAL:H	1.66	0.59
54:Li:58:MET:SD	54:Li:90:LEU:HB3	2.42	0.59
70:SS:40:TYR:CE2	70:SS:71:MET:CE	2.84	0.59
79:S2:609:U:H2'	79:S2:610:G:H8	1.66	0.59
79:S2:929:G:H2'	79:S2:930:C:O4'	2.02	0.59
1:cH:48:GLN:HE21	9:se:54:GLY:HA2	1.66	0.59
18:sW:10:ALA:HB1	18:sW:27:ILE:HD13	1.84	0.59
25:lD:284:LYS:HD3	30:lI:209:TRP:CZ2	2.37	0.59
36:lP:25:HIS:O	36:lP:29:THR:OG1	2.18	0.59
44:lY:11:ARG:NH1	85:l5:229:G:OP1	2.32	0.59
75:sg:38:LYS:HA	75:sg:65:PHE:HA	1.83	0.59
79:s2:12:U:H2'	79:s2:13:C:C6	2.37	0.59
79:s2:544:G:H2'	79:s2:545:A:C8	2.37	0.59
85:l5:494:U:H2'	85:l5:495:C:C6	2.36	0.59
86:LW:59:HIS:ND1	85:L5:5037:U:O2'	2.32	0.59
4:SL:89:ARG:HA	4:SL:108:ASN:HA	1.82	0.59
11:SB:98:THR:H	11:SB:232:HIS:HE2	1.48	0.59
12:SH:82:GLU:O	12:SH:86:LYS:N	2.36	0.59
15:SC:264:SER:H	15:SC:267:GLN:HE21	1.49	0.59
85:L5:425:U:H2'	85:L5:426:A:H8	1.67	0.59
85:L5:441:G:H2'	85:L5:442:G:C8	2.38	0.59
85:L5:2411:C:H2'	85:L5:2412:A:C8	2.36	0.59
85:L5:2474:G:N2	85:L5:2502:G:O2'	2.34	0.59
20:L7:54:A:C5	31:LJ:12:MET:SD	2.95	0.59
21:L8:151:G:OP2	28:LG:65:ARG:NE	2.28	0.59
23:LB:168:MET:HE3	23:LB:178:ALA:HA	1.82	0.59
30:LI:48:LEU:HD22	30:LI:142:LEU:HA	1.79	0.59
31:LJ:108:GLY:HA2	31:LJ:129:ASP:HA	1.84	0.59
59:Ln:7:LYS:NZ	79:S2:1844:U:OP2	2.32	0.59
79:S2:349:A:H2'	79:S2:350:C:C6	2.36	0.59
79:S2:640:A:H2'	79:S2:641:A:C8	2.37	0.59
82:Et:2:C:H2'	82:Et:3:C:C6	2.37	0.59
84:Lt:72:GLU:OE1	84:Lt:72:GLU:N	2.28	0.59
3:sI:161:LEU:HD23	3:sI:195:LEU:HD12	1.83	0.59
4:sL:33:LEU:HD12	4:sL:34:PRO:HD2	0.88	0.59
12:sH:157:HIS:HB3	12:sH:190:PRO:HG3	1.83	0.59
17:sO:42:VAL:HG11	17:sO:78:ALA:HA	1.84	0.59
23:lB:303:ALA:HB1	23:lB:368:ILE:HD12	1.82	0.59
28:lG:57:TRP:O	28:lG:62:ARG:NH1	2.35	0.59
65:sD:224:SER:HG	75:sg:188:HIS:CD2	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:35:C:H5”	79:s2:579:C:H5”	1.84	0.59
80:cB:712:ASP:HB2	80:cB:715:HIS:CE1	2.36	0.59
82:pE:37:A:H3’	82:pE:38:A:H8	1.66	0.59
85:l5:2017:A:HO2’	85:l5:2018:C:H6	1.49	0.59
85:l5:4093:G:H8	85:l5:4094:G:N7	2.01	0.59
13:SV:12:TYR:CZ	13:SV:14:PRO:HD3	2.37	0.59
85:L5:497:G:N2	85:L5:658:C:H42	2.00	0.59
85:L5:1342:A:H2’	85:L5:1343:A:H8	1.68	0.59
85:L5:3949:A:H2	85:L5:4065:G:H1	1.49	0.59
85:L5:4389:C:H2’	85:L5:4390:A:H8	1.66	0.59
20:L7:12:U:OP2	20:L7:67:C:O2’	2.20	0.59
28:LG:181:TYR:CE1	28:LG:226:TYR:HB3	2.37	0.59
30:LI:61:SER:HA	30:LI:126:VAL:HG12	1.82	0.59
34:LN:103:GLU:OE1	34:LN:118:SER:OG	2.18	0.59
35:LO:26:GLN:HG3	35:LO:31:ARG:HD3	1.83	0.59
38:LR:173:ARG:HD3	79:S2:910:G:N7	2.17	0.59
52:Lg:102:ILE:HA	52:Lg:105:LYS:HD3	1.84	0.59
65:SD:157:MET:CE	65:SD:159:HIS:HD2	2.06	0.59
66:SF:164:ARG:NH1	79:S2:1636:G:O2’	2.35	0.59
66:SF:194:ASP:OD1	66:SF:194:ASP:N	2.35	0.59
68:SP:37:TYR:OH	68:SP:112:ILE:O	2.20	0.59
68:SP:86:LEU:HG	68:SP:88:GLU:HG2	1.83	0.59
71:ST:23:LYS:HG3	71:ST:54:TYR:HD2	1.67	0.59
63:Lz:33:GLU:H	63:Lz:206:ILE:HD13	1.68	0.59
83:Ls:121:VAL:HG13	83:Ls:160:LEU:HD23	1.84	0.59
6:sG:15:LEU:HD12	6:sG:16:ILE:H	1.66	0.59
7:sJ:18:ARG:NH2	79:s2:3:C:O2	2.34	0.59
7:sJ:174:LYS:HG2	79:s2:560:A:H5’	1.85	0.59
8:sY:56:PHE:O	8:sY:74:MET:N	2.35	0.59
12:sH:146:VAL:HG12	18:sW:42:MET:HE1	1.84	0.59
17:sO:39:ASP:OD1	17:sO:40:THR:N	2.35	0.59
24:lC:31:PRO:HB3	37:lQ:24:TYR:HE1	1.65	0.59
26:lE:224:LYS:HG2	26:lE:227:HIS:HB2	1.84	0.59
26:lE:254:ASP:HA	26:lE:257:ILE:HG22	1.83	0.59
43:lX:145:ASP:OD2	43:lX:148:ASP:OD1	2.20	0.59
44:lY:30:MET:CE	44:lY:78:TYR:HA	2.29	0.59
64:sR:14:ARG:NH2	79:s2:1465:A:O2’	2.35	0.59
67:sK:95:ARG:O	67:sK:97:SER:N	2.34	0.59
72:sU:19:ARG:NH2	72:sU:118:ASP:HA	2.18	0.59
75:sg:21:ILE:HG22	75:sg:33:SER:HA	1.85	0.59
80:cB:403:PRO:HA	80:cB:410:PHE:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4548:A:H5'	85:l5:4549:G:H5'	1.85	0.59
2:SE:100:ARG:HH12	2:SE:236:ILE:HD12	1.67	0.59
4:SL:104:LYS:O	5:SX:11:ARG:NH2	2.35	0.59
6:SG:133:LEU:HD12	79:S2:65:C:C5	2.37	0.59
6:SG:170:ARG:HD3	79:S2:67:C:H41	1.67	0.59
8:SY:74:MET:HE2	8:SY:76:TYR:CD2	2.36	0.59
12:SH:21:SER:HA	12:SH:25:GLN:HG2	1.84	0.59
17:SO:43:HIS:CD2	17:SO:55:ARG:HB2	2.38	0.59
85:L5:93:G:H2'	85:L5:94:A:C8	2.37	0.59
85:L5:1179:U:H3'	85:L5:1180:C:H5"	1.84	0.59
85:L5:2901:G:H2'	85:L5:2902:G:H5"	1.83	0.59
23:LB:80:GLU:OE1	23:LB:323:TYR:OH	2.14	0.59
28:LG:79:ALA:O	28:LG:82:GLN:NE2	2.31	0.59
30:LI:48:LEU:CD1	30:LI:142:LEU:HA	2.33	0.59
33:LM:13:ALA:N	33:LM:25:VAL:O	2.27	0.59
37:LQ:92:VAL:O	37:LQ:112:ARG:NH2	2.35	0.59
42:LV:77:HIS:CG	42:LV:105:ILE:HD11	2.36	0.59
68:SP:99:GLY:O	79:S2:1268:C:H1'	2.02	0.59
87:AT:12:G:H2'	87:AT:13:U:O4'	2.02	0.59
88:CF:155:MET:HE2	88:CF:193:ILE:O	2.03	0.59
28:lG:30:PRO:HG2	45:lZ:124:THR:HA	1.83	0.59
35:lO:85:ARG:NH2	85:l5:3887:C:OP2	2.33	0.59
52:lg:42:PRO:HD2	52:lg:56:VAL:HG11	1.84	0.59
79:s2:1218:C:H1'	79:s2:1683:C:H42	1.66	0.59
79:s2:1389:C:C2	79:s2:1390:U:C5	2.91	0.59
82:pE:26:A:N1	82:pE:44:G:N2	2.47	0.59
85:l5:2758:G:O2'	85:l5:2765:A:N3	2.27	0.59
85:l5:4101:C:N4	85:l5:4107:G:O6	2.35	0.59
2:SE:95:THR:OG1	2:SE:97:GLU:OE1	2.13	0.59
6:SG:1:MET:N	6:SG:17:GLU:OE2	2.34	0.59
11:SB:30:TRP:CH2	17:SO:18:GLY:N	2.71	0.59
15:SC:167:ARG:HB3	15:SC:177:PRO:HB2	1.83	0.59
15:SC:263:LYS:HG2	15:SC:268:GLU:HB3	1.83	0.59
16:SN:93:LYS:HB2	16:SN:150:VAL:HG21	1.85	0.59
85:L5:508:G:H21	46:La:85:GLN:HE22	1.49	0.59
85:L5:1297:U:H2'	85:L5:1298:C:H6	1.66	0.59
85:L5:3784:A:O2'	85:L5:3785:A:H3'	2.02	0.59
85:L5:3848:U:H2'	85:L5:3849:A:C8	2.32	0.59
26:LE:101:ASN:OD1	26:LE:105:ARG:NH2	2.34	0.59
35:LO:7:LEU:HB3	35:LO:33:VAL:HG22	1.85	0.59
48:Lc:26:LYS:HA	48:Lc:26:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:SP:100:LYS:NZ	79:S2:1240:A:O4'	2.33	0.59
79:S2:432:G:H2'	79:S2:433:A:H8	1.67	0.59
79:S2:1093:A:H2'	79:S2:1094:C:H6	1.67	0.59
79:S2:1770:G:O3'	79:S2:1771:G:N2	2.36	0.59
82:Et:37:A:H3'	82:Et:38:A:C8	2.35	0.59
83:Ls:178:LEU:HB2	83:Ls:180:ILE:HG22	1.84	0.59
5:sX:17:ARG:NH1	79:s2:658:U:O2	2.36	0.59
11:sB:229:MET:HA	11:sB:229:MET:HE3	1.85	0.59
16:sN:45:LEU:HB2	16:sN:50:ILE:CD1	2.33	0.59
18:sW:35:VAL:O	18:sW:39:THR:OG1	2.20	0.59
64:sR:39:ALA:O	79:s2:1388:A:H1'	2.03	0.59
75:sg:119:GLN:HB3	75:sg:131:LEU:HD11	1.84	0.59
7:SJ:107:GLU:HA	7:SJ:112:THR:HG21	1.84	0.59
15:SC:173:LYS:NZ	18:SW:98:GLN:OE1	2.29	0.59
85:L5:10:A:H2'	85:L5:11:G:H8	1.68	0.59
85:L5:94:A:H5"	46:La:34:ASN:HB2	1.83	0.59
85:L5:1077:C:OP1	85:L5:1215:C:O2'	2.18	0.59
85:L5:1332:C:H2'	85:L5:1333:A:C8	2.36	0.59
85:L5:1823:G:H4'	25:LD:45:ASN:HB2	1.84	0.59
43:LX:80:PRO:HB2	43:LX:155:ILE:HD12	1.83	0.59
53:Lh:17:LEU:HB3	53:Lh:61:ILE:HD11	1.85	0.59
64:SR:31:ASN:HA	64:SR:34:VAL:HG22	1.84	0.59
79:S2:600:G:H2'	79:S2:601:G:C8	2.37	0.59
3:sI:110:ARG:HH21	3:sI:122:GLY:HA3	1.68	0.59
11:sB:57:ILE:HG22	11:sB:59:SER:H	1.68	0.59
11:sB:105:LEU:HD13	11:sB:213:ARG:HA	1.83	0.59
11:sB:144:LYS:HG3	64:sR:135:VAL:HG21	1.83	0.59
12:sH:37:LYS:HE2	12:sH:40:LEU:HD12	1.83	0.59
12:sH:127:ASP:OD1	12:sH:127:ASP:N	2.32	0.59
23:lB:300:LYS:CD	23:lB:310:SER:O	2.51	0.59
25:lD:196:ARG:NH2	25:lD:200:MET:SD	2.75	0.59
25:lD:238:GLU:OE2	25:lD:238:GLU:O	2.20	0.59
38:lR:99:MET:HE1	38:lR:128:LYS:HA	1.84	0.59
43:lX:51:THR:O	85:l5:2475:G:N1	2.31	0.59
64:sR:9:VAL:HG12	79:s2:1370:A:H3'	1.84	0.59
72:sU:17:ILE:HD12	72:sU:17:ILE:H	1.67	0.59
72:sU:61:LEU:HD12	72:sU:82:MET:HG3	1.85	0.59
79:s2:107:A:H2'	79:s2:108:G:C8	2.37	0.59
85:l5:174:C:H2'	85:l5:175:C:C6	2.38	0.59
85:L5:739:G:HO2'	85:L5:740:G:H8	1.49	0.59
85:L5:1186:U:O2	25:LD:275:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1387:A:C6	46:La:112:LEU:HD23	2.37	0.59
85:L5:4991:U:H2'	85:L5:4992:G:H8	1.67	0.59
24:LC:211:TYR:CE1	24:LC:229:LEU:HB3	2.38	0.59
25:LD:108:ARG:CZ	25:LD:253:TYR:HB2	2.33	0.59
29:LH:85:THR:HG23	29:LH:86:LEU:HD23	1.84	0.59
34:LN:114:ARG:HB2	34:LN:151:ILE:HD11	1.85	0.59
35:LO:126:VAL:HG13	35:LO:127:VAL:HG13	1.84	0.59
37:LQ:5:ILE:HD11	37:LQ:7:HIS:CE1	2.37	0.59
70:SS:45:LEU:HB3	70:SS:50:ILE:HD11	1.83	0.59
77:SZ:102:LYS:HA	77:SZ:107:VAL:HG22	1.84	0.59
79:S2:12:U:H2'	79:S2:13:C:C6	2.38	0.59
63:Lz:47:LYS:O	63:Lz:48:ARG:NH1	2.35	0.59
63:Lz:188:ASN:OD1	63:Lz:189:PHE:N	2.36	0.59
63:Lz:198:TRP:HH2	63:Lz:202:ARG:HB3	1.67	0.59
7:sJ:30:LYS:HG2	9:se:42:PHE:HE2	1.67	0.59
8:sY:131:PRO:HA	80:cB:7:ASP:HB2	1.84	0.59
17:sO:141:ARG:NH2	79:s2:1856:C:OP1	2.35	0.59
55:lj:17:THR:OG1	55:lj:18:LEU:N	2.36	0.59
64:sR:32:LYS:HG3	79:s2:1454:A:O5'	2.03	0.59
64:sR:41:ILE:HG13	79:s2:1388:A:O5'	2.03	0.59
66:sF:38:TYR:OH	73:sc:51:ARG:NE	2.31	0.59
75:sg:42:MET:HE1	75:sg:92:LEU:HB3	1.85	0.59
85:l5:1461:C:H2'	85:l5:1462:A:H8	1.68	0.59
85:l5:1739:G:N3	85:l5:1742:A:N6	2.50	0.59
15:SC:123:ARG:NE	15:SC:143:CYS:SG	2.75	0.59
85:L5:911:U:H2'	85:L5:912:G:C4	2.37	0.59
85:L5:2343:G:C5	24:LC:101:MET:HE1	2.38	0.59
85:L5:2704:C:H2'	85:L5:2705:G:C8	2.38	0.59
85:L5:4274:A:H2'	85:L5:4275:G:C8	2.37	0.59
85:L5:4758:U:O2'	35:LO:117:ARG:NH2	2.35	0.59
23:LB:315:ASN:HD22	23:LB:325:GLU:HB2	1.67	0.59
28:LG:131:LYS:NZ	28:LG:133:PRO:HB3	2.18	0.59
30:LI:76:MET:O	30:LI:80:CYS:N	2.35	0.59
33:LM:70:GLN:HE22	33:LM:74:ARG:HE	1.51	0.59
39:LS:9:GLU:HG3	39:LS:67:VAL:HB	1.84	0.59
79:S2:1856:C:H2'	79:S2:1857:G:H8	1.66	0.59
7:sJ:136:ARG:HE	7:sJ:160:SER:HA	1.68	0.59
10:sA:42:LYS:NZ	10:sA:46:ILE:HD13	2.18	0.59
14:sa:4:LYS:HG2	14:sa:5:ARG:HE	1.67	0.59
15:sC:211:LYS:O	15:sC:215:MET:HG3	2.03	0.59
16:sN:46:THR:HB	16:sN:49:GLN:HG3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:sb:55:LEU:HD11	19:sb:60:SER:HA	1.84	0.59
39:lS:71:SER:OG	39:lS:76:LYS:NZ	2.34	0.59
49:ld:70:LYS:HG2	85:l5:2389:A:H4'	1.85	0.59
54:li:33:LEU:HD12	54:li:34:THR:N	2.18	0.59
56:lk:23:VAL:HG12	56:lk:64:LEU:HD21	1.84	0.59
75:sg:79:LEU:HA	75:sg:89:LEU:HA	1.85	0.59
79:s2:1420:G:O2'	79:s2:1421:A:O4'	2.19	0.59
80:cB:48:SER:OG	80:cB:49:ALA:N	2.36	0.59
85:l5:139:G:H2'	85:l5:140:G:C8	2.37	0.59
85:l5:2017:A:O2'	85:l5:2018:C:O5'	2.20	0.59
85:l5:5006:U:H4'	85:l5:5007:A:H5'	1.85	0.59
12:SH:25:GLN:HA	12:SH:28:LEU:HB3	1.85	0.59
15:SC:171:GLY:HA2	18:SW:98:GLN:HE22	1.66	0.59
85:L5:1563:A:H2'	85:L5:1564:A:C8	2.38	0.59
85:L5:1830:G:O2'	47:Lb:68:ARG:NH1	2.36	0.59
85:L5:2495:U:H2'	85:L5:2496:G:C8	2.38	0.59
85:L5:2544:G:H22	21:L8:124:U:H5'	1.68	0.59
85:L5:2869:U:O2'	85:L5:2881:A:N7	2.31	0.59
85:L5:4324:A:H2'	85:L5:4325:A:C8	2.38	0.59
85:L5:4750:G:H2'	85:L5:4751:G:H8	1.68	0.59
27:LF:70:ARG:C	27:LF:74:MET:HE1	2.28	0.59
28:LG:173:LEU:HA	54:Li:43:MET:CE	2.31	0.59
31:LJ:136:ARG:HD2	31:LJ:155:HIS:CD2	2.38	0.59
35:LO:76:PRO:HA	35:LO:79:ILE:HD12	1.84	0.59
38:LR:76:MET:SD	38:LR:77:GLY:N	2.76	0.59
62:Lr:95:HIS:HA	62:Lr:99:LYS:HG2	1.83	0.59
64:SR:103:LYS:HG3	64:SR:107:LYS:NZ	2.18	0.59
66:SF:87:LEU:O	66:SF:91:ARG:HG3	2.02	0.59
84:Lt:105:THR:HG23	84:Lt:143:VAL:HG23	1.84	0.59
3:sI:98:LYS:HB3	79:s2:377:G:H5'	1.84	0.59
7:sJ:35:TYR:O	7:sJ:111:GLN:NE2	2.35	0.59
9:se:36:MET:SD	9:se:37:GLN:N	2.76	0.59
10:sA:85:ARG:NE	10:sA:89:LYS:NZ	2.51	0.59
11:sB:121:ILE:CD1	11:sB:164:ILE:HD11	2.25	0.59
12:sH:65:PRO:HG2	12:sH:68:GLN:HB3	1.85	0.59
16:sN:18:TYR:CE2	18:sW:55:ASP:HA	2.38	0.59
21:l8:61:A:OP1	53:lh:52:LYS:NZ	2.29	0.59
21:l8:102:G:H4'	55:lj:21:ARG:HB2	1.83	0.59
27:lF:245:ARG:NH2	85:l5:942:G:OP1	2.36	0.59
28:lG:96:LEU:HD21	28:lG:184:ILE:HD11	1.84	0.59
38:lR:31:GLU:HA	38:lR:34:ASN:ND2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:sS:9:PHE:HE1	70:sS:11:HIS:ND1	2.01	0.59
75:sg:217:MET:HG2	75:sg:229:THR:HA	1.85	0.59
79:s2:328:U:O2'	79:s2:329:G:O5'	2.20	0.59
80:cB:122:THR:O	80:cB:368:ARG:NH1	2.36	0.59
85:l5:3664:G:H2'	85:l5:3665:G:H8	1.68	0.59
85:l5:3910:C:H2'	85:l5:3911:C:H6	1.67	0.59
10:SA:39:TYR:CG	64:SR:105:MET:CE	2.86	0.59
15:SC:183:LYS:HB3	15:SC:196:ILE:HD13	1.85	0.59
16:SN:25:TRP:HE3	19:Sb:82:LYS:CD	2.14	0.59
85:L5:307:A:N3	85:L5:310:G:O2'	2.36	0.59
85:L5:742:G:H2'	85:L5:743:G:H8	1.66	0.59
85:L5:2501:C:N4	85:L5:2502:G:O6	2.35	0.59
85:L5:2624:G:H2'	85:L5:2625:U:C6	2.37	0.59
85:L5:3880:G:H2'	85:L5:3881:G:C8	2.38	0.59
85:L5:4070:U:H2'	85:L5:4071:U:C6	2.38	0.59
85:L5:4253:A:H5'	85:L5:4254:G:C8	2.37	0.59
25:LD:200:MET:N	25:LD:200:MET:SD	2.76	0.59
32:LL:184:MET:HE2	32:LL:184:MET:N	2.17	0.59
60:Lo:54:PRO:O	82:Et:75:C:O2'	2.15	0.59
70:SS:13:LEU:HB3	70:SS:15:VAL:HG13	1.85	0.59
75:Sg:254:PRO:HB2	75:Sg:283:PRO:HB2	1.84	0.59
77:SZ:77:LEU:HG	77:SZ:78:LYS:H	1.67	0.59
79:S2:553:U:O4	79:S2:554:A:N6	2.35	0.59
88:CF:423:ARG:HA	88:CF:437:VAL:HG12	1.83	0.59
11:sB:226:GLY:O	11:sB:230:GLU:CD	2.46	0.58
12:sH:103:LYS:HD2	12:sH:104:PRO:HD2	1.84	0.58
23:lB:100:ARG:NH1	85:l5:4911:A:OP2	2.34	0.58
25:lD:232:THR:HG1	25:lD:235:MET:HE2	1.68	0.58
28:lG:88:ASP:OD1	28:lG:89:ARG:N	2.36	0.58
34:lN:17:ASP:OD1	34:lN:17:ASP:N	2.31	0.58
34:lN:26:ARG:HG2	34:lN:30:TYR:CZ	2.38	0.58
60:lo:70:LEU:HD23	60:lo:81:ARG:O	2.03	0.58
63:lz:31:THR:HA	63:lz:171:HIS:CD2	2.37	0.58
68:sP:82:ASP:N	68:sP:82:ASP:OD2	2.35	0.58
68:sP:111:MET:HE2	70:sS:117:ILE:CD1	2.30	0.58
75:sg:165:ILE:N	75:sg:177:TRP:O	2.28	0.58
77:sZ:106:GLN:HE21	77:sZ:107:VAL:N	1.99	0.58
79:s2:603:C:N4	79:s2:620:G:O6	2.35	0.58
79:s2:628:A:N6	79:s2:1500:G:O2'	2.36	0.58
80:cB:741:MET:HG3	80:cB:819:ILE:HA	1.85	0.58
85:l5:679:C:H2'	85:l5:680:G:H8	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:LW:51:TRP:C	86:LW:55:TYR:OH	2.45	0.58
3:SI:56:ARG:HH22	79:S2:380:G:P	2.26	0.58
6:SG:10:THR:HG21	6:SG:125:THR:HA	1.84	0.58
15:SC:272:HIS:HA	15:SC:275:LYS:HD2	1.85	0.58
16:SN:115:LEU:O	16:SN:119:GLU:HG3	2.03	0.58
85:L5:1254:A:H5'	85:L5:1255:A:H5"	1.85	0.58
85:L5:1779:U:H2'	85:L5:1780:A:C8	2.38	0.58
85:L5:2765:A:H2'	85:L5:2766:A:C8	2.38	0.58
85:L5:3754:G:H2'	85:L5:3755:G:C8	2.38	0.58
85:L5:4293:U:O2'	60:Lo:81:ARG:NH2	2.36	0.58
21:L8:137:A:H2'	21:L8:138:C:C6	2.37	0.58
23:LB:84:MET:HE2	23:LB:166:THR:HG22	1.85	0.58
28:LG:173:LEU:HD12	54:Li:43:MET:HE3	1.84	0.58
44:LY:23:SER:HA	44:LY:26:ARG:HB2	1.84	0.58
50:Le:69:MET:HE1	50:Le:75:ARG:CZ	2.33	0.58
67:SK:5:LYS:HA	67:SK:8:ARG:HE	1.68	0.58
68:SP:24:GLN:O	68:SP:28:MET:HG3	2.02	0.58
79:S2:674:C:H2'	79:S2:675:U:C6	2.38	0.58
79:S2:1204:A:N6	79:S2:1693:G:H1	2.00	0.58
79:S2:1515:G:H2'	79:S2:1516:G:H8	1.67	0.58
10:sA:77:ILE:HG22	10:sA:99:ILE:HB	1.85	0.58
10:sA:85:ARG:CZ	10:sA:89:LYS:NZ	2.66	0.58
13:sV:29:HIS:CE1	15:sC:87:PRO:CB	2.85	0.58
22:lA:72:ARG:NH2	85:l5:4084:G:O6	2.34	0.58
24:lC:229:LEU:C	24:lC:230:LEU:HD22	2.28	0.58
25:lD:91:GLY:O	25:lD:94:ASN:ND2	2.27	0.58
26:lE:223:ARG:NH2	26:lE:236:GLU:O	2.36	0.58
31:lJ:166:PHE:CD2	31:lJ:174:ILE:HD11	2.38	0.58
38:lR:39:GLN:H	38:lR:42:ARG:HG3	1.68	0.58
45:lZ:35:ASP:OD1	45:lZ:35:ASP:N	2.35	0.58
46:la:75:LEU:HB2	46:la:117:LEU:HD21	1.85	0.58
64:sR:29:HIS:HB2	79:s2:1455:A:N9	2.18	0.58
72:sU:61:LEU:HD12	72:sU:82:MET:CG	2.33	0.58
75:sg:217:MET:HE1	75:sg:219:TRP:HZ2	1.67	0.58
79:s2:746:C:H2'	79:s2:747:U:C6	2.38	0.58
80:cB:558:LEU:HD23	80:cB:572:LYS:HE2	1.85	0.58
85:l5:268:G:H2'	85:l5:269:G:H8	1.67	0.58
85:l5:1933:G:H2'	85:l5:1934:A:C8	2.38	0.58
12:SH:27:LEU:HA	12:SH:30:LEU:HD12	1.85	0.58
12:SH:167:GLU:N	12:SH:167:GLU:OE2	2.36	0.58
85:L5:1327:C:H2'	85:L5:1328:G:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1577:G:O2'	85:L5:1612:G:H4'	2.03	0.58
85:L5:1738:A:H2'	85:L5:1739:G:H8	1.68	0.58
85:L5:1779:U:H2'	85:L5:1780:A:H8	1.66	0.58
85:L5:2633:U:O2'	38:LR:59:SER:OG	2.14	0.58
85:L5:3672:G:OP2	85:L5:3672:G:N2	2.31	0.58
85:L5:3684:G:OP1	22:LA:174:ARG:NH1	2.28	0.58
85:L5:3967:G:N1	85:L5:4055:U:N3	2.19	0.58
25:LD:177:THR:HB	25:LD:190:PHE:CD1	2.38	0.58
27:LF:94:ARG:HD2	27:LF:109:LEU:HD22	1.86	0.58
38:LR:177:LEU:HB2	79:S2:910:G:H5'	1.84	0.58
43:LX:82:THR:OG1	43:LX:87:MET:HE3	2.03	0.58
62:Lr:107:ARG:O	62:Lr:111:ILE:HG23	2.03	0.58
69:SQ:13:PHE:HA	69:SQ:22:VAL:HA	1.85	0.58
88:CF:62:LYS:O	88:CF:67:ARG:NH2	2.37	0.58
5:sX:63:ASN:OD1	79:s2:624:C:N4	2.30	0.58
6:sG:220:ALA:O	6:sG:224:ARG:HG2	2.03	0.58
12:sH:123:THR:HG23	79:s2:688:U:OP2	2.03	0.58
12:sH:170:VAL:HG22	12:sH:171:GLU:OE1	2.03	0.58
23:lB:57:VAL:HG22	23:lB:73:VAL:HG12	1.84	0.58
23:lB:300:LYS:NZ	23:lB:304:SER:HB2	2.18	0.58
29:lH:52:LYS:HZ1	85:l5:758:G:H4'	1.68	0.58
62:lr:93:ILE:HD11	62:lr:111:ILE:HA	1.85	0.58
77:sZ:47:LEU:HD21	77:sZ:79:ILE:HG23	1.85	0.58
85:l5:444:G:H2'	85:l5:445:U:C6	2.38	0.58
85:l5:3952:A:H2'	85:l5:3953:G:C8	2.39	0.58
3:SI:66:SER:H	3:SI:188:TYR:HA	1.67	0.58
15:SC:137:VAL:HG11	15:SC:217:ALA:HA	1.85	0.58
16:SN:5:HIS:HB3	16:SN:117:LEU:HD13	1.85	0.58
17:SO:66:ARG:HD3	79:S2:962:A:H5"	1.85	0.58
85:L5:1786:A:H2'	85:L5:1789:C:C5	2.38	0.58
85:L5:1983:A:H4'	85:L5:1984:A:H8	1.68	0.58
23:LB:117:ARG:NH2	23:LB:178:ALA:O	2.33	0.58
39:LS:99:ASP:OD1	39:LS:100:LEU:N	2.36	0.58
65:SD:137:VAL:HG22	65:SD:151:LYS:HG3	1.85	0.58
65:SD:156:LEU:C	65:SD:189:MET:HE3	2.27	0.58
72:SU:43:ALA:HB1	72:SU:91:LEU:HD11	1.85	0.58
79:S2:30:C:O2'	79:S2:596:U:OP1	2.21	0.58
79:S2:1272:C:H2'	79:S2:1273:C:C6	2.39	0.58
8:sY:94:HIS:ND1	8:sY:94:HIS:O	2.36	0.58
15:sC:230:THR:OG1	79:s2:5:U:OP2	2.21	0.58
19:sb:30:SER:OG	79:s2:1016:U:OP1	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:l7:6:C:H4'	25:lD:52:ILE:HD13	1.85	0.58
22:lA:198:ARG:NH2	85:l5:3688:U:OP2	2.33	0.58
25:lD:59:ASP:OD1	25:lD:81:HIS:ND1	2.36	0.58
55:lj:9:GLY:HA3	85:l5:2800:G:H1'	1.85	0.58
64:sR:10:LYS:HE2	79:s2:1367:U:H1'	1.85	0.58
64:sR:51:ALA:HA	64:sR:54:VAL:HG13	1.84	0.58
73:sc:14:VAL:HG13	73:sc:53:GLY:H	1.68	0.58
73:sc:30:VAL:HG23	73:sc:32:VAL:HG13	1.86	0.58
75:sg:217:MET:HE3	75:sg:219:TRP:HE1	1.68	0.58
79:s2:1756:C:N4	79:s2:1776:G:O6	2.36	0.58
79:s2:1804:U:H2'	79:s2:1805:G:H8	1.68	0.58
81:aP:23:C:H2'	81:aP:24:A:H8	1.68	0.58
85:l5:1998:A:H2'	85:l5:1999:A:C8	2.39	0.58
85:l5:4077:A:N1	85:l5:4171:C:N4	2.52	0.58
85:l5:4537:C:H2'	85:l5:4538:G:H8	1.67	0.58
4:SL:136:LYS:NZ	79:S2:372:U:OP1	2.35	0.58
7:SJ:6:SER:OG	79:S2:828:G:OP1	2.21	0.58
11:SB:104:ASP:OD2	11:SB:105:LEU:N	2.36	0.58
85:L5:1307:A:H2'	85:L5:1308:C:H6	1.68	0.58
85:L5:1827:C:H1'	47:Lb:50:ASN:HD21	1.68	0.58
85:L5:2264:C:P	62:Lr:108:MET:SD	3.01	0.58
85:L5:4260:U:H2'	85:L5:4261:C:C6	2.38	0.58
23:LB:248:LEU:HD23	23:LB:248:LEU:H	1.68	0.58
32:LL:115:GLN:HA	32:LL:115:GLN:OE1	2.02	0.58
33:LM:100:ARG:CD	35:LO:199:HIS:HA	2.33	0.58
56:Lk:7:GLU:OE2	56:Lk:10:ASP:N	2.28	0.58
65:SD:194:PRO:HB2	65:SD:197:LYS:HB2	1.85	0.58
75:Sg:191:HIS:NE2	75:Sg:219:TRP:HH2	2.02	0.58
76:SM:92:CYS:HA	76:SM:103:VAL:HG21	1.85	0.58
79:S2:962:A:N1	79:S2:1055:A:O2'	2.35	0.58
79:S2:1217:A:H2'	79:S2:1218:C:H6	1.66	0.58
18:sW:7:LEU:HD11	18:sW:37:PHE:CD2	2.39	0.58
19:sb:11:SER:OG	19:sb:13:GLU:CD	2.47	0.58
24:lC:308:LYS:HG2	24:lC:310:HIS:CE1	2.38	0.58
25:lD:152:ARG:O	25:lD:157:ASN:ND2	2.37	0.58
25:lD:196:ARG:NH2	25:lD:200:MET:HE1	2.18	0.58
25:lD:208:MET:HG3	25:lD:223:PHE:HD2	1.61	0.58
31:lJ:16:ARG:HD2	31:lJ:137:PRO:HD3	1.86	0.58
41:lU:75:GLU:N	41:lU:75:GLU:OE2	2.36	0.58
45:lZ:111:ARG:NH2	85:l5:2577:C:OP1	2.36	0.58
65:sD:106:ARG:HH21	65:sD:173:ARG:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:sF:163:PHE:HD2	66:sF:164:ARG:HG2	1.67	0.58
70:sS:24:ARG:HD3	70:sS:29:ALA:HA	1.84	0.58
79:s2:1228:A:H2'	79:s2:1229:G:H8	1.69	0.58
80:cB:577:VAL:HG22	80:cB:790:VAL:HG12	1.84	0.58
85:l5:677:G:H2'	85:l5:678:C:H6	1.69	0.58
85:l5:956:A:H1'	85:l5:2076:G:H5"	1.85	0.58
85:l5:1982:G:H2'	85:l5:1983:A:O4'	2.02	0.58
85:L5:7:C:H2'	85:L5:8:U:C6	2.38	0.58
85:L5:211:G:H4'	85:L5:234:G:C8	2.38	0.58
85:L5:1569:U:H2'	85:L5:1570:G:H8	1.69	0.58
85:L5:3605:C:OP2	38:LR:71:ARG:NH1	2.36	0.58
85:L5:4036:G:C8	63:Lz:27:LYS:HD2	2.38	0.58
85:L5:4985:U:O2	23:LB:174:ARG:NH2	2.26	0.58
21:L8:90:C:H2'	21:L8:91:A:C8	2.38	0.58
23:LB:56:ILE:HD13	23:LB:365:LEU:HD22	1.86	0.58
25:LD:67:ALA:HA	25:LD:72:ASP:HA	1.85	0.58
31:LJ:97:ASN:OD1	31:LJ:97:ASN:C	2.47	0.58
31:LJ:128:LEU:HD11	31:LJ:130:PHE:CE1	2.39	0.58
36:LP:102:ALA:CA	36:LP:107:LEU:HD21	2.33	0.58
39:LS:81:TRP:HB2	39:LS:128:LYS:HB2	1.85	0.58
71:ST:47:PRO:HA	79:S2:1539:U:H4'	1.84	0.58
79:S2:110:U:H3	79:S2:351:G:H1	1.50	0.58
79:S2:1515:G:H2'	79:S2:1516:G:C8	2.39	0.58
79:S2:1568:C:H2'	79:S2:1569:A:C8	2.39	0.58
88:CF:41:LYS:HG3	88:CF:44:LYS:HZ1	1.68	0.58
88:CF:127:ILE:HG23	88:CF:134:ARG:HE	1.69	0.58
3:sI:192:GLY:CA	4:sL:19:ASN:HD21	2.15	0.58
5:sX:2:GLY:N	79:s2:1161:U:O4	2.37	0.58
13:sV:66:ASP:OD2	13:sV:67:ASP:OD1	2.20	0.58
17:sO:52:THR:HG21	79:s2:952:G:H21	1.68	0.58
18:sW:87:GLU:CD	18:sW:87:GLU:H	2.11	0.58
22:lA:200:ARG:NH1	85:l5:3690:U:OP2	2.30	0.58
26:lE:205:ASN:C	26:lE:205:ASN:HD22	2.11	0.58
32:lL:108:GLU:OE1	54:li:18:THR:HG23	2.03	0.58
75:sg:17:TRP:HB2	75:sg:36:ARG:HG3	1.84	0.58
85:l5:3717:A:H2'	85:l5:3718:A:C8	2.38	0.58
12:SH:157:HIS:CE1	12:SH:190:PRO:HG3	2.27	0.58
15:SC:253:PRO:HA	15:SC:256:TRP:CE2	2.38	0.58
17:SO:18:GLY:HA2	17:SO:89:GLY:HA3	1.86	0.58
17:SO:141:ARG:NH2	79:S2:1856:C:OP1	2.37	0.58
85:L5:677:G:H1'	62:Lr:100:ASN:HD21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:691:C:H2'	85:L5:692:A:C8	2.38	0.58
85:L5:750:U:H1'	85:L5:917:A:C8	2.38	0.58
85:L5:2539:C:H2'	85:L5:2540:C:C6	2.38	0.58
85:L5:2608:G:H2'	85:L5:2609:G:H8	1.68	0.58
28:LG:257:LYS:HG2	28:LG:261:LEU:HD23	1.85	0.58
32:LL:63:THR:HG21	46:La:66:ASN:HD22	1.69	0.58
32:LL:177:LYS:HB3	32:LL:180:ALA:HB3	1.85	0.58
34:LN:51:LEU:HD22	34:LN:117:ASN:ND2	2.18	0.58
44:LY:110:LYS:H	44:LY:115:ARG:HH12	1.52	0.58
50:Le:69:MET:HE1	50:Le:75:ARG:NH1	2.18	0.58
60:Lo:33:LEU:HA	60:Lo:38:LYS:HG2	1.85	0.58
65:SD:160:SER:OG	79:S2:1386:A:OP2	2.20	0.58
67:SK:9:ILE:O	67:SK:13:GLU:OE2	2.21	0.58
68:SP:85:ILE:HG22	68:SP:112:ILE:HA	1.83	0.58
76:SM:87:GLU:OE2	76:SM:87:GLU:HA	2.03	0.58
79:S2:925:G:N2	79:S2:1017:U:O2	2.24	0.58
79:S2:1277:C:H2'	79:S2:1278:A:C8	2.37	0.58
87:AT:51:U:O2	87:AT:65:G:N2	2.24	0.58
1:cH:92:GLN:NE2	1:cH:110:GLU:OE1	2.37	0.58
2:sE:104:ASP:OD1	2:sE:108:ARG:N	2.26	0.58
2:sE:147:ILE:HD13	2:sE:169:ILE:HD11	1.83	0.58
8:sY:41:ARG:NH1	8:sY:55:ILE:O	2.31	0.58
20:l7:120:U:H4'	25:lD:262:LYS:HG2	1.85	0.58
36:lP:86:LYS:HB2	85:l5:3857:G:H5"	1.86	0.58
46:la:131:ARG:NH1	46:la:135:GLU:OE2	2.36	0.58
64:sR:32:LYS:CG	79:s2:1454:A:H4'	2.34	0.58
66:sF:148:ASN:ND2	79:s2:1677:U:OP1	2.37	0.58
77:sZ:41:ARG:NH2	79:s2:1600:G:OP1	2.37	0.58
85:l5:2318:G:N2	85:l5:2321:G:OP2	2.30	0.58
85:l5:3606:U:H2'	85:l5:3607:U:C6	2.39	0.58
4:SL:74:SER:OG	4:SL:75:GLY:N	2.36	0.58
6:SG:71:GLY:H	6:SG:98:ARG:NH1	2.02	0.58
7:SJ:65:GLU:HG3	7:SJ:66:LYS:HG2	1.86	0.58
11:SB:151:ARG:HA	64:SR:132:ARG:HE	1.68	0.58
14:Sa:4:LYS:NZ	79:S2:1864:U:OP2	2.35	0.58
17:SO:97:LEU:HD12	17:SO:98:ARG:N	2.18	0.58
19:Sb:45:THR:HG22	19:Sb:45:THR:O	2.02	0.58
85:L5:688:U:OP1	26:LE:94:LYS:NZ	2.27	0.58
85:L5:1819:G:N3	25:LD:113:PHE:CD2	2.72	0.58
85:L5:2021:G:OP1	83:Ls:58:ASN:N	2.26	0.58
85:L5:2640:G:H2'	85:L5:2641:A:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:L7:13:A:OP2	20:L7:66:G:N2	2.34	0.58
23:LB:161:ARG:HG2	23:LB:184:GLN:HA	1.86	0.58
23:LB:397:ILE:HA	23:LB:400:GLU:HB2	1.85	0.58
24:LC:146:GLU:HB3	24:LC:175:LYS:HD3	1.84	0.58
38:LR:92:LYS:O	38:LR:96:MET:CE	2.50	0.58
43:LX:120:ASP:HB2	43:LX:144:TYR:HE2	1.68	0.58
79:S2:649:U:H2'	79:S2:650:A:H8	1.69	0.58
79:S2:1010:G:H2'	79:S2:1011:A:C8	2.39	0.58
79:S2:1802:C:H2'	79:S2:1803:U:C6	2.38	0.58
15:sC:63:VAL:O	15:sC:64:THR:OG1	2.21	0.58
28:lG:33:GLU:N	28:lG:33:GLU:OE2	2.37	0.58
37:lQ:68:ARG:HH21	85:l5:1420:A:H5'	1.67	0.58
41:lU:23:LEU:N	41:lU:70:ILE:O	2.31	0.58
44:lY:19:PHE:O	44:lY:26:ARG:NH2	2.37	0.58
61:lp:82:ALA:HA	61:lp:85:ARG:NH2	2.17	0.58
63:lz:54:ARG:NH2	63:lz:154:THR:O	2.36	0.58
64:sR:17:ILE:HG23	64:sR:24:LEU:HD12	1.85	0.58
65:sD:192:TRP:CE3	65:sD:203:PRO:HB3	2.39	0.58
80:cB:43:ALA:HA	80:cB:79:TYR:CZ	2.39	0.58
80:cB:561:LEU:CD2	80:cB:570:ILE:HD13	2.34	0.58
81:aP:50:U:H3	81:aP:64:G:H1	0.71	0.58
81:aP:68:G:H2'	81:aP:69:A:C8	2.38	0.58
85:l5:493:G:N1	85:l5:660:A:H2	1.89	0.58
85:l5:4258:C:H2'	85:l5:4259:C:C6	2.38	0.58
86:LW:51:TRP:N	86:LW:55:TYR:CZ	2.71	0.58
7:SJ:140:GLN:OE1	7:SJ:141:VAL:N	2.36	0.58
20:L7:7:G:O2'	25:LD:72:ASP:OD2	2.16	0.58
30:LI:87:MET:HE1	30:LI:138:ILE:CG1	2.33	0.58
36:LP:31:GLU:OE1	36:LP:61:ARG:N	2.25	0.58
36:LP:126:ARG:HA	36:LP:140:MET:CE	2.34	0.58
40:LT:157:GLU:OE1	40:LT:159:MET:SD	2.61	0.58
66:SF:126:THR:HA	66:SF:135:ARG:HG3	1.83	0.58
75:Sg:101:PHE:CD1	75:Sg:136:GLY:HA2	2.38	0.58
79:S2:352:U:H2'	79:S2:353:C:C6	2.39	0.58
79:S2:363:A:N1	79:S2:397:G:O2'	2.36	0.58
79:S2:982:G:H21	79:S2:1045:U:H1'	1.69	0.58
1:cH:76:GLU:OE1	1:cH:76:GLU:N	2.29	0.58
11:sB:154:SER:HB3	64:sR:134:PRO:HD2	1.85	0.58
30:lI:140:THR:HG22	30:lI:141:LYS:N	2.19	0.58
30:lI:154:ARG:NH2	85:l5:4415:A:OP1	2.37	0.58
30:lI:179:ASP:OD1	30:lI:180:GLU:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:lk:8:ILE:HG23	56:lk:9:LYS:HD2	1.86	0.58
79:s2:1388:A:C6	79:s2:1389:C:H1'	2.38	0.58
79:s2:1628:C:H2'	79:s2:1629:C:C6	2.37	0.58
81:aP:28:U:H2'	81:aP:29:C:O4'	2.04	0.58
85:l5:1072:C:N3	85:l5:1240:G:N1	2.38	0.58
86:LW:39:ALA:HA	86:LW:44:ARG:HD3	1.84	0.58
86:LW:48:GLN:HB3	85:L5:3614:G:H5"	1.86	0.58
3:SI:6:ASP:OD1	3:SI:6:ASP:N	2.34	0.58
12:SH:14:GLU:N	12:SH:14:GLU:OE2	2.36	0.58
15:SC:137:VAL:HG13	15:SC:217:ALA:HA	1.83	0.58
85:L5:444:G:H2'	85:L5:445:U:C6	2.39	0.58
85:L5:2832:A:H2'	85:L5:2833:A:H8	1.69	0.58
85:L5:3606:U:H2'	85:L5:3607:U:C6	2.38	0.58
85:L5:4372:U:OP2	60:Lo:61:LYS:NZ	2.35	0.58
24:LC:95:MET:SD	24:LC:95:MET:N	2.69	0.58
43:LX:119:ILE:HG22	43:LX:120:ASP:H	1.69	0.58
48:Lc:97:ILE:H	48:Lc:97:ILE:HD12	1.69	0.58
53:Lh:27:GLU:OE2	53:Lh:50:VAL:HG11	2.03	0.58
58:Lm:103:LEU:HD21	58:Lm:110:CYS:HA	1.86	0.58
64:SR:99:ASP:OD2	64:SR:102:THR:HG22	2.03	0.58
70:SS:6:PRO:HD2	77:SZ:49:LEU:HD23	1.86	0.58
75:Sg:188:HIS:CE1	75:Sg:226:HIS:HB2	2.39	0.58
79:S2:106:C:H2'	79:S2:107:A:H8	1.68	0.58
79:S2:145:G:H2'	79:S2:146:G:H8	1.68	0.58
79:S2:830:A:OP2	79:S2:846:G:N2	2.37	0.58
9:se:49:PHE:CG	9:se:50:GLY:N	2.71	0.58
15:sC:102:LEU:CD1	15:sC:131:GLY:C	2.76	0.58
28:lG:87:LEU:HD21	28:lG:92:ALA:HB2	1.86	0.58
32:lL:18:TRP:NE1	85:l5:1516:G:O2'	2.35	0.58
35:lO:62:MET:HG2	35:lO:65:ASN:H	1.69	0.58
36:lP:23:ARG:NH2	85:l5:2419:C:OP1	2.37	0.58
39:lS:99:ASP:OD1	39:lS:104:GLY:HA3	2.03	0.58
42:lV:40:ILE:HG13	42:lV:64:THR:HG23	1.86	0.58
47:lb:6:ASN:OD1	85:l5:4220:A:H5'	2.03	0.58
52:lg:97:ILE:HD11	85:l5:4122:G:N7	2.19	0.58
56:lk:30:ASP:OD1	56:lk:30:ASP:N	2.35	0.58
63:lz:23:ARG:HA	63:lz:212:LYS:HD3	1.86	0.58
63:lz:165:LEU:HA	85:l5:3968:U:H4'	1.85	0.58
68:sP:110:GLU:OE2	68:sP:110:GLU:N	2.36	0.58
69:sQ:146:ARG:HE	82:pE:33:U:H5	1.52	0.58
76:sM:33:ARG:HD3	76:sM:33:ARG:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:598:G:O2'	79:s2:605:A:N1	2.37	0.58
80:cB:727:ARG:HG3	80:cB:854:PHE:HA	1.84	0.58
85:l5:216:C:OP2	85:l5:219:G:O2'	2.20	0.58
85:L5:370:U:O2'	55:Lj:16:HIS:ND1	2.30	0.58
85:L5:1306:C:H2'	85:L5:1307:A:C8	2.32	0.58
85:L5:1761:G:O2'	85:L5:1764:G:O6	2.22	0.58
85:L5:1981:G:O2'	85:L5:1982:G:O5'	2.18	0.58
85:L5:2581:A:H2'	85:L5:2582:A:C8	2.39	0.58
85:L5:4159:C:H2'	85:L5:4160:C:C6	2.39	0.58
23:LB:119:TYR:OH	23:LB:129:ALA:N	2.36	0.58
27:LF:216:PRO:HB3	27:LF:247:MET:SD	2.44	0.58
43:LX:147:LEU:O	43:LX:151:ASN:ND2	2.36	0.58
54:Li:58:MET:HA	54:Li:58:MET:HE3	1.85	0.58
66:SF:48:TYR:OH	69:SQ:56:LEU:HD22	2.04	0.58
67:SK:49:MET:SD	67:SK:69:TRP:CG	2.96	0.58
79:S2:1736:G:H2'	79:S2:1737:G:H8	1.69	0.58
6:sG:223:LYS:HG3	6:sG:224:ARG:HH11	1.68	0.57
8:sY:19:GLN:CG	8:sY:81:TYR:CD1	2.81	0.57
26:lE:65:ARG:NH1	85:l5:1070:G:OP2	2.36	0.57
32:lL:135:LYS:HG3	32:lL:136:LYS:H	1.68	0.57
39:lS:16:CYS:HA	39:lS:59:GLY:HA2	1.86	0.57
52:lg:8:ARG:HB2	52:lg:34:TYR:HE2	1.69	0.57
54:li:58:MET:SD	54:li:90:LEU:HD12	2.44	0.57
56:lk:64:LEU:HD23	56:lk:65:ALA:O	2.04	0.57
64:sR:32:LYS:HG2	79:s2:1453:C:N1	2.19	0.57
71:sT:11:GLN:HB2	79:s2:1542:C:H4'	1.86	0.57
73:sc:23:SER:O	79:s2:1681:U:O2'	2.21	0.57
79:s2:1804:U:H2'	79:s2:1805:G:C8	2.39	0.57
80:cB:755:VAL:HG21	80:cB:804:THR:HA	1.86	0.57
81:aP:23:C:H2'	81:aP:24:A:C8	2.39	0.57
3:SI:101:ILE:HG13	3:SI:174:CYS:HB2	1.86	0.57
19:Sb:23:ARG:NH1	19:Sb:27:SER:O	2.37	0.57
85:L5:239:C:H5'	44:LY:33:PRO:HD3	1.85	0.57
85:L5:679:C:H2'	85:L5:680:G:C8	2.38	0.57
85:L5:1559:G:OP1	38:LR:126:LYS:NZ	2.37	0.57
85:L5:3964:U:H4'	85:L5:4048:A:N6	2.18	0.57
85:L5:4279:A:H5'	85:L5:4281:A:H1'	1.86	0.57
23:LB:207:VAL:HG13	23:LB:287:ILE:HD11	1.86	0.57
25:LD:94:ASN:OD1	25:LD:97:ALA:N	2.21	0.57
43:LX:151:ASN:OD1	43:LX:156:ILE:HD13	2.03	0.57
47:Lb:116:LEU:HD12	47:Lb:117:ARG:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:SF:26:ASP:O	66:SF:26:ASP:CG	2.45	0.57
79:S2:1220:A:N3	79:S2:1677:U:O2'	2.30	0.57
79:S2:1276:A:C5	79:S2:1322:G:H1'	2.38	0.57
88:CF:72:THR:HB	88:CF:93:PRO:HA	1.86	0.57
2:sE:10:LYS:NZ	79:s2:95:G:OP1	2.35	0.57
10:sA:33:GLN:HB2	10:sA:154:LEU:HD13	1.85	0.57
11:sB:139:CYS:HB2	11:sB:168:MET:HE2	1.87	0.57
12:sH:57:ARG:HA	12:sH:57:ARG:HH11	1.69	0.57
12:sH:70:LYS:O	12:sH:70:LYS:NZ	2.28	0.57
18:sW:28:ARG:HD3	79:s2:921:G:C5	2.39	0.57
22:lA:229:ALA:HB3	22:lA:234:LYS:HB3	1.86	0.57
27:lF:227:PHE:N	27:lF:233:ALA:O	2.37	0.57
41:lU:38:ASN:O	41:lU:42:PHE:N	2.37	0.57
42:lV:82:ILE:HB	42:lV:121:VAL:HG13	1.85	0.57
47:lb:3:LYS:HD3	85:l5:4194:U:H5'	1.85	0.57
52:lg:76:ARG:NH2	85:l5:2583:C:OP2	2.34	0.57
75:sg:244:ASN:OD1	75:sg:245:ARG:N	2.34	0.57
85:l5:493:G:C6	85:l5:660:A:N1	2.72	0.57
85:l5:1076:C:H2'	85:l5:1077:C:C6	2.39	0.57
85:l5:1751:A:H2'	85:l5:1752:G:C8	2.39	0.57
85:l5:4474:A:OP2	85:l5:4476:C:N4	2.37	0.57
2:SE:112:HIS:NE2	2:SE:237:SER:O	2.37	0.57
9:Se:32:ALA:HB2	79:S2:525:A:H5"	1.86	0.57
14:Sa:37:LYS:HG2	14:Sa:72:HIS:CD2	2.39	0.57
16:SN:116:ILE:HA	16:SN:119:GLU:OE1	2.04	0.57
85:L5:386:A:OP2	44:LY:89:LYS:NZ	2.26	0.57
85:L5:429:A:H2'	85:L5:430:G:C8	2.39	0.57
85:L5:498:C:C2	85:L5:499:G:H1'	2.39	0.57
85:L5:1645:C:OP1	24:LC:80:ARG:NH1	2.32	0.57
85:L5:1963:C:H2'	85:L5:1964:A:H8	1.68	0.57
85:L5:2018:C:H2'	85:L5:2019:C:H6	1.69	0.57
85:L5:4301:U:OP2	85:L5:4303:C:N4	2.36	0.57
85:L5:4907:G:N1	85:L5:4914:C:N3	2.36	0.57
23:LB:88:GLY:O	23:LB:163:ILE:N	2.35	0.57
26:LE:174:LEU:HD13	26:LE:174:LEU:C	2.29	0.57
36:LP:36:ILE:C	36:LP:39:MET:HE3	2.28	0.57
39:LS:85:ASP:HA	39:LS:90:THR:HA	1.85	0.57
44:LY:46:SER:O	44:LY:47:MET:HE2	2.04	0.57
47:Lb:28:ARG:HD3	47:Lb:29:TYR:CZ	2.38	0.57
69:SQ:96:TYR:HB3	69:SQ:105:LYS:HB2	1.86	0.57
72:SU:56:MET:HE2	72:SU:56:MET:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1671:G:H2'	79:S2:1672:U:C6	2.39	0.57
88:CF:276:MET:HE2	88:CF:276:MET:HA	1.87	0.57
19:sb:51:GLN:OE1	79:s2:1014:G:N2	2.37	0.57
39:lS:154:LEU:HB3	39:lS:157:ARG:HD3	1.86	0.57
44:lY:32:SER:OG	44:lY:101:PRO:O	2.21	0.57
48:lc:30:GLY:O	48:lc:34:THR:OG1	2.22	0.57
49:ld:64:ILE:CG2	49:ld:68:LEU:HD23	2.24	0.57
55:lj:85:LYS:HD3	55:lj:85:LYS:O	2.04	0.57
66:sF:146:ARG:HH21	73:sc:57:THR:HG21	1.69	0.57
79:s2:455:A:H2'	79:s2:456:C:H6	1.68	0.57
79:s2:1179:G:N2	79:s2:1182:A:OP2	2.35	0.57
79:s2:1592:C:H2'	79:s2:1593:C:C6	2.39	0.57
80:cB:769:HIS:CD2	85:l5:1981:G:H21	2.22	0.57
85:l5:1095:A:N1	85:l5:1200:G:C6	2.73	0.57
2:SE:197:ASN:OD1	2:SE:198:ARG:N	2.37	0.57
10:SA:205:ARG:NH2	64:SR:83:ASN:O	2.37	0.57
14:Sa:42:ARG:HE	14:Sa:43:ASN:H	1.51	0.57
85:L5:4140:C:N3	85:L5:4145:C:O2'	2.36	0.57
28:LG:230:TYR:OH	28:LG:234:ARG:NH1	2.37	0.57
43:LX:150:ALA:C	43:LX:156:ILE:HD11	2.28	0.57
88:CF:245:PRO:O	88:CF:269:THR:OG1	2.23	0.57
88:CF:267:VAL:O	88:CF:305:GLY:N	2.32	0.57
1:cH:26:ILE:O	1:cH:30:ARG:N	2.33	0.57
6:sG:6:SER:HB3	6:sG:112:VAL:HG12	1.85	0.57
10:sA:201:LEU:HD23	10:sA:202:TYR:HD1	1.70	0.57
17:sO:42:VAL:HG12	17:sO:42:VAL:O	2.05	0.57
17:sO:58:GLY:O	17:sO:62:VAL:HG22	2.03	0.57
25:lD:85:LYS:HD3	25:lD:86:TYR:HD1	1.69	0.57
41:lU:81:ARG:NH2	85:l5:2622:G:O6	2.37	0.57
54:li:75:LYS:NZ	85:l5:3720:G:OP1	2.37	0.57
77:sZ:91:LEU:HG	77:sZ:96:LEU:HD21	1.86	0.57
78:sf:93:HIS:CE1	78:sf:96:LYS:HZ2	2.21	0.57
79:s2:1217:A:H2'	79:s2:1218:C:C6	2.39	0.57
7:SJ:18:ARG:NH2	79:S2:3:C:O2	2.30	0.57
11:SB:138:PHE:O	11:SB:213:ARG:N	2.38	0.57
85:L5:150:U:OP2	28:LG:200:THR:OG1	2.19	0.57
85:L5:1645:C:P	24:LC:80:ARG:HH12	2.27	0.57
85:L5:1837:A:OP2	40:LT:108:ARG:NH2	2.38	0.57
85:L5:2830:G:H2'	85:L5:2831:G:H8	1.69	0.57
85:L5:3614:G:O2'	85:L5:3615:G:OP1	2.22	0.57
85:L5:4940:C:OP1	26:LE:156:ARG:NH1	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:LG:82:GLN:HB2	28:LG:233:ILE:HD11	1.85	0.57
28:LG:230:TYR:O	28:LG:233:ILE:HG22	2.04	0.57
31:LJ:120:ASP:OD2	31:LJ:122:SER:OG	2.21	0.57
41:LU:43:LEU:HB3	41:LU:47:ILE:HD11	1.86	0.57
42:LV:82:ILE:HG21	42:LV:121:VAL:HG22	1.87	0.57
70:SS:2:SER:N	77:SZ:49:LEU:HD11	2.18	0.57
71:ST:120:GLY:H	79:S2:1562:C:H4'	1.68	0.57
75:Sg:235:ILE:HD11	75:Sg:285:GLN:HG3	1.86	0.57
77:SZ:46:ASN:OD1	77:SZ:78:LYS:HD2	2.04	0.57
77:SZ:85:ARG:NH2	79:S2:1597:C:OP2	2.30	0.57
79:S2:17:C:H2'	79:S2:18:C:C6	2.38	0.57
79:S2:106:C:H2'	79:S2:107:A:C8	2.40	0.57
79:S2:1713:C:H2'	79:S2:1714:U:C6	2.40	0.57
82:Et:26:A:N1	82:Et:44:G:N2	2.39	0.57
63:Lz:103:LEU:HD12	63:Lz:105:LYS:HG3	1.86	0.57
1:cH:34:ALA:O	7:sJ:116:LYS:NZ	2.33	0.57
3:sI:125:LYS:H	3:sI:128:LYS:NZ	2.02	0.57
3:sI:151:GLU:HA	3:sI:154:LYS:HD2	1.85	0.57
8:sY:26:ASP:HB2	8:sY:68:LYS:HD2	1.86	0.57
12:sH:145:ARG:NE	18:sW:51:GLU:HG3	2.20	0.57
15:sC:75:ILE:HG22	15:sC:269:PHE:HE1	1.69	0.57
21:l8:141:C:H5"	34:lN:60:VAL:HG11	1.86	0.57
23:lB:168:MET:HA	23:lB:171:LEU:HD23	1.86	0.57
24:lC:153:VAL:HG12	24:lC:252:TRP:HB2	1.86	0.57
26:lE:178:PRO:O	26:lE:181:LEU:N	2.38	0.57
60:lo:36:GLN:HG2	85:l5:4363:A:H5"	1.86	0.57
62:lr:65:LYS:O	62:lr:102:TYR:OH	2.18	0.57
69:sQ:69:ARG:NH2	79:s2:1425:G:O3'	2.38	0.57
70:sS:98:VAL:HG23	70:sS:103:LEU:HB2	1.86	0.57
79:s2:329:G:H2'	79:s2:330:G:C8	2.39	0.57
79:s2:441:C:H2'	79:s2:442:C:C6	2.39	0.57
80:cB:53:GLU:O	80:cB:55:ARG:NE	2.37	0.57
83:ls:43:ILE:HD12	83:ls:187:LEU:HD11	1.87	0.57
85:l5:2647:A:H3'	85:l5:2648:G:H8	1.69	0.57
10:SA:148:CYS:SG	10:SA:160:ALA:HB1	2.44	0.57
85:L5:1253:G:O2'	85:L5:1257:A:N6	2.37	0.57
85:L5:1437:C:H1'	85:L5:2098:G:H3'	1.87	0.57
85:L5:2749:C:H2'	85:L5:2750:G:C8	2.39	0.57
85:L5:3760:A:N6	79:S2:1827:U:OP1	2.38	0.57
22:LA:28:ARG:HB2	22:LA:123:ARG:HB2	1.86	0.57
22:LA:33:ASP:OD1	22:LA:35:ALA:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LE:116:TYR:CE2	62:Lr:111:ILE:HD11	2.39	0.57
26:LE:250:GLN:NE2	26:LE:254:ASP:OD1	2.37	0.57
29:LH:92:MET:CG	29:LH:179:ILE:HG22	2.35	0.57
49:Ld:23:ARG:HG2	49:Ld:121:ASN:HA	1.86	0.57
65:SD:138:VAL:HG22	65:SD:184:ILE:HG13	1.86	0.57
69:SQ:69:ARG:HH12	79:S2:1425:G:H5"	1.68	0.57
79:S2:12:U:H2'	79:S2:13:C:H6	1.69	0.57
79:S2:656:G:H21	79:S2:663:C:H5"	1.70	0.57
79:S2:1798:C:H2'	79:S2:1799:G:O4'	2.04	0.57
88:CF:363:CYS:SG	88:CF:364:HIS:ND1	2.78	0.57
5:sX:41:PHE:O	5:sX:76:LYS:NZ	2.37	0.57
7:sJ:125:HIS:HB2	79:s2:527:C:H5'	1.87	0.57
44:lY:10:ASP:HB3	44:lY:13:LYS:HB2	1.86	0.57
63:lz:180:VAL:O	63:lz:184:HIS:NE2	2.37	0.57
64:sR:10:LYS:HE3	79:s2:1465:A:H2'	1.86	0.57
64:sR:14:ARG:NE	79:s2:1373:C:O2'	2.37	0.57
71:sT:41:LYS:HG3	71:sT:42:HIS:N	2.19	0.57
76:sM:129:LYS:HA	76:sM:132:LYS:HD2	1.87	0.57
79:s2:1518:C:H5"	79:s2:1519:U:H5"	1.87	0.57
80:cB:632:ALA:HB1	80:cB:646:ALA:HB1	1.87	0.57
82:pE:21:A:H2'	82:pE:22:G:H8	1.70	0.57
85:l5:128:C:H2'	85:l5:129:C:C6	2.39	0.57
85:l5:253:G:H2'	85:l5:254:G:C8	2.39	0.57
85:l5:1092:G:H2'	85:l5:1093:C:C6	2.40	0.57
85:l5:4954:G:H2'	85:l5:4955:A:C8	2.40	0.57
3:SI:165:GLN:HE21	3:SI:171:LEU:HA	1.68	0.57
10:SA:164:ASN:OD1	10:SA:166:LYS:NZ	2.36	0.57
12:SH:135:PHE:O	12:SH:135:PHE:CD2	2.57	0.57
85:L5:415:G:O6	21:L8:20:A:N6	2.38	0.57
85:L5:1283:G:N1	85:L5:2076:G:OP1	2.25	0.57
85:L5:1942:A:H2'	85:L5:1943:A:C8	2.40	0.57
85:L5:2384:U:H2'	85:L5:2385:U:C6	2.39	0.57
85:L5:2683:C:H2'	85:L5:2684:C:H6	1.69	0.57
85:L5:2758:G:O2'	85:L5:2765:A:N3	2.36	0.57
85:L5:4070:U:H2'	85:L5:4071:U:H6	1.69	0.57
85:L5:4986:G:H2'	85:L5:4987:C:C6	2.40	0.57
39:LS:85:ASP:HB3	39:LS:90:THR:HB	1.87	0.57
42:LV:57:VAL:HG13	42:LV:84:GLN:HE21	1.68	0.57
42:LV:112:MET:HG2	42:LV:114:GLY:H	1.70	0.57
67:SK:25:LYS:CE	67:SK:62:PHE:CZ	2.88	0.57
73:Sc:15:THR:HG22	73:Sc:16:LYS:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:SM:106:CYS:SG	76:SM:107:SER:N	2.78	0.57
79:S2:388:U:H2'	79:S2:389:A:H8	1.70	0.57
79:S2:1424:G:H2'	79:S2:1425:G:C8	2.39	0.57
82:Et:7:A:O2'	82:Et:49:C:O4'	2.23	0.57
88:CF:241:PRO:HG2	88:CF:269:THR:HG22	1.87	0.57
88:CF:279:THR:HG23	88:CF:286:THR:HG22	1.85	0.57
1:cH:99:ILE:HG23	1:cH:123:LYS:HB3	1.86	0.57
6:sG:78:SER:O	6:sG:81:HIS:HD2	1.87	0.57
11:sB:134:LEU:HD21	11:sB:218:LEU:HB2	1.86	0.57
12:sH:136:PRO:O	12:sH:162:GLN:NE2	2.38	0.57
22:lA:130:SER:HB2	22:lA:171:GLY:HA3	1.87	0.57
25:lD:39:GLN:NE2	25:lD:46:THR:OG1	2.38	0.57
28:lG:137:ARG:HD2	28:lG:146:LEU:HD11	1.86	0.57
29:lH:51:LYS:HE3	29:lH:52:LYS:HD2	1.86	0.57
43:lX:148:ASP:OD1	43:lX:148:ASP:N	2.34	0.57
58:lm:125:LYS:NZ	85:l5:4475:G:N7	2.53	0.57
64:sR:126:MET:HG2	64:sR:129:LYS:CD	2.34	0.57
67:sK:4:PRO:HG2	67:sK:7:ASN:OD1	2.04	0.57
75:sg:36:ARG:HD3	75:sg:65:PHE:CD1	2.40	0.57
75:sg:173:LEU:HD12	75:sg:187:ASN:OD1	2.04	0.57
77:sZ:43:LYS:HE3	77:sZ:45:ASN:HB3	1.85	0.57
79:s2:1201:U:H2'	79:s2:1202:U:C6	2.40	0.57
80:cB:748:GLU:O	80:cB:811:GLN:N	2.38	0.57
84:lt:16:ARG:HD3	84:lt:17:CYS:H	1.69	0.57
85:l5:387:G:O2'	85:l5:412:G:N1	2.35	0.57
85:l5:2745:A:H2'	85:l5:2746:A:H8	1.69	0.57
86:LW:48:GLN:HB2	85:L5:3615:G:H5"	1.86	0.57
2:SE:122:LYS:N	2:SE:161:GLN:HE22	2.02	0.57
17:SO:54:CYS:SG	17:SO:81:VAL:HG12	2.44	0.57
17:SO:72:TYR:HE1	73:Sc:63:ARG:HG2	1.69	0.57
18:SW:102:ILE:CD1	18:SW:128:PHE:HB3	2.34	0.57
18:SW:111:MET:CE	18:SW:115:GLU:HG3	2.35	0.57
85:L5:513:U:N3	85:L5:516:C:OP2	2.38	0.57
85:L5:1505:C:H2'	85:L5:1506:G:C8	2.35	0.57
85:L5:1511:U:H2'	85:L5:1512:G:H8	1.70	0.57
85:L5:1554:A:OP2	61:Lp:4:ARG:NE	2.37	0.57
85:L5:2348:G:OP1	85:L5:2351:C:N4	2.36	0.57
85:L5:2443:G:OP2	85:L5:2516:G:N2	2.35	0.57
85:L5:3758:U:H2'	85:L5:3765:G:N2	2.20	0.57
21:L8:8:U:H2'	21:L8:9:A:C8	2.39	0.57
26:LE:66:LYS:HB3	26:LE:68:MET:SD	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:SK:28:HIS:CD2	74:Sd:8:TRP:CH2	2.93	0.57
74:Sd:7:TYR:CD2	74:Sd:8:TRP:CE3	2.93	0.57
79:S2:1231:C:H42	79:S2:1527:C:H42	1.53	0.57
79:S2:1249:C:OP2	79:S2:1250:A:O2'	2.22	0.57
88:CF:410:MET:HG3	88:CF:412:VAL:HG13	1.85	0.57
4:sL:91:ASP:OD2	4:sL:91:ASP:N	2.38	0.57
15:sC:60:TRP:NE1	15:sC:92:GLU:OE2	2.38	0.57
34:lN:28:TRP:O	34:lN:32:GLN:HG2	2.05	0.57
35:lO:143:HIS:HB2	35:lO:150:GLN:HB2	1.86	0.57
38:lR:62:ARG:NH2	85:l5:4648:A:OP1	2.38	0.57
60:lo:61:LYS:HE2	60:lo:87:ARG:HH22	1.67	0.57
66:sF:97:PHE:HE1	66:sF:109:LEU:HD23	1.68	0.57
67:sK:28:HIS:ND1	74:sd:8:TRP:HZ2	2.03	0.57
74:sd:17:GLY:N	79:s2:1262:C:O2	2.37	0.57
80:cB:831:PRO:O	80:cB:835:VAL:HG23	2.05	0.57
86:LW:113:LYS:HE3	79:S2:327:G:H1'	1.87	0.57
8:SY:41:ARG:HB3	8:SY:52:PRO:HB3	1.86	0.57
18:SW:53:ILE:HD11	18:SW:62:VAL:HG13	1.85	0.57
19:Sb:49:HIS:ND1	19:Sb:69:GLY:O	2.35	0.57
85:L5:256:G:H2'	85:L5:257:C:C6	2.40	0.57
85:L5:1317:U:OP1	46:La:21:ARG:NH2	2.37	0.57
85:L5:1333:A:H2'	85:L5:1334:A:H8	1.70	0.57
85:L5:1499:C:OP1	37:LQ:150:ARG:NH2	2.37	0.57
85:L5:2020:U:H2'	85:L5:2021:G:H8	1.68	0.57
85:L5:2279:A:O2'	50:Le:48:ARG:NH2	2.38	0.57
85:L5:2341:A:OP2	46:La:4:ARG:NH2	2.37	0.57
85:L5:2431:A:OP1	57:Ll:41:ARG:NH1	2.37	0.57
85:L5:3754:G:N2	85:L5:3770:U:O2	2.38	0.57
28:LG:224:THR:HA	28:LG:228:ASP:OD2	2.05	0.57
31:LJ:93:GLU:HG2	31:LJ:173:ILE:HG23	1.87	0.57
40:LT:8:ARG:O	40:LT:11:THR:OG1	2.19	0.57
48:Lc:96:ILE:HD12	48:Lc:96:ILE:N	2.20	0.57
75:Sg:19:THR:N	75:Sg:34:ALA:O	2.30	0.57
77:SZ:51:ASP:C	77:SZ:51:ASP:OD2	2.47	0.57
79:S2:35:C:H5"	79:S2:579:C:H5"	1.87	0.57
4:sL:80:MET:HE1	4:sL:121:GLN:C	2.29	0.57
25:lD:208:MET:CG	25:lD:223:PHE:CE2	2.76	0.57
30:lI:82:ARG:NH2	30:lI:83:ASP:OD2	2.37	0.57
37:lQ:68:ARG:NH1	85:l5:1501:C:OP2	2.36	0.57
61:lp:85:ARG:CZ	61:lp:85:ARG:HB3	2.35	0.57
63:lz:198:TRP:HZ2	63:lz:202:ARG:HB2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:sF:40:ALA:O	66:sF:45:TYR:CD1	2.57	0.57
75:sg:157:SER:HB3	75:sg:164:ILE:H	1.70	0.57
79:s2:464:A:N6	80:cB:49:ALA:H	2.03	0.57
85:l5:406:C:O2'	85:l5:407:A:OP1	2.23	0.57
10:SA:81:ASN:HA	10:SA:84:GLN:NE2	2.17	0.57
16:SN:75:LEU:HD12	16:SN:80:LEU:HD21	1.85	0.57
18:SW:100:GLY:C	18:SW:101:PHE:HD2	2.13	0.57
85:L5:212:A:H2'	85:L5:213:G:H8	1.70	0.57
85:L5:1405:C:N3	85:L5:1413:C:N4	2.53	0.57
85:L5:1824:G:H2'	85:L5:1825:A:H8	1.70	0.57
85:L5:2018:C:H2'	85:L5:2019:C:C6	2.39	0.57
85:L5:2263:A:O3'	62:Lr:108:MET:SD	2.63	0.57
85:L5:3870:C:H2'	85:L5:3871:A:C8	2.40	0.57
85:L5:3917:A:H2'	85:L5:3918:G:H8	1.68	0.57
27:LF:85:ALA:HB2	40:LT:138:ALA:H	1.70	0.57
28:LG:173:LEU:HD13	54:Li:43:MET:HG2	1.86	0.57
34:LN:51:LEU:HD13	34:LN:117:ASN:CG	2.30	0.57
42:LV:57:VAL:HA	42:LV:81:VAL:HG12	1.86	0.57
79:S2:96:C:H2'	79:S2:97:U:C6	2.39	0.57
79:S2:433:A:H2'	79:S2:434:G:C8	2.39	0.57
79:S2:1308:U:H2'	79:S2:1309:C:C6	2.40	0.57
79:S2:1393:G:H2'	79:S2:1394:G:C8	2.40	0.57
82:Et:58:A:O2'	82:Et:60:U:OP2	2.22	0.57
3:sI:25:ARG:HA	79:s2:448:A:H5"	1.87	0.57
11:sB:153:THR:C	64:sR:134:PRO:HD2	2.30	0.57
14:sa:22:ARG:NH2	14:sa:27:ALA:O	2.38	0.57
15:sC:121:ARG:NH1	15:sC:123:ARG:CD	2.42	0.57
16:sN:23:PRO:CD	16:sN:26:LEU:HD23	2.34	0.57
30:lI:44:ASP:OD1	30:lI:44:ASP:N	2.36	0.57
31:lJ:104:ASN:HB3	31:lJ:133:VAL:HA	1.87	0.57
67:sK:84:HIS:CG	76:sM:27:ILE:HD12	2.40	0.57
70:sS:84:LEU:HB3	70:sS:97:GLN:HB2	1.87	0.57
77:sZ:101:SER:OG	77:sZ:102:LYS:N	2.38	0.57
83:ls:20:LEU:HD23	83:ls:20:LEU:C	2.30	0.57
83:ls:83:ARG:NH2	85:l5:2023:C:OP2	2.38	0.57
85:l5:909:A:H2'	85:l5:910:G:H8	1.70	0.57
85:l5:3861:A:H2'	85:l5:3862:A:H8	1.70	0.57
3:SI:56:ARG:NH2	79:S2:380:G:OP1	2.32	0.57
3:SI:184:ARG:NH2	79:S2:218:U:O2	2.33	0.57
14:Sa:100:ARG:HH21	14:Sa:102:ARG:HG2	1.70	0.57
85:L5:1308:C:OP1	35:LO:93:LYS:NZ	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1351:G:OP1	24:LC:33:ARG:NH2	2.38	0.57
85:L5:1739:G:H2'	85:L5:1740:C:C6	2.39	0.57
85:L5:2079:G:H2'	85:L5:2080:U:C6	2.40	0.57
85:L5:2705:G:H1	85:L5:2710:C:H41	1.53	0.57
85:L5:3715:U:HO2'	82:Et:71:G:HO2'	1.51	0.57
85:L5:4601:U:H2'	85:L5:4602:A:H8	1.69	0.57
25:LD:238:GLU:OE1	25:LD:238:GLU:N	2.36	0.57
33:LM:62:LEU:HD21	33:LM:82:ILE:HD11	1.87	0.57
59:Ln:11:ARG:HH11	79:S2:1183:A:H5'	1.69	0.57
60:Lo:33:LEU:HD23	60:Lo:34:TYR:CD1	2.40	0.57
67:SK:3:MET:O	67:SK:8:ARG:NH2	2.37	0.57
68:SP:31:GLU:N	68:SP:31:GLU:OE1	2.37	0.57
71:ST:101:ARG:NH2	79:S2:1566:G:N7	2.52	0.57
79:S2:1245:G:O2'	79:S2:1492:U:OP1	2.21	0.57
79:S2:1426:U:H2'	79:S2:1427:C:C6	2.39	0.57
79:S2:1631:U:H2'	79:S2:1632:G:O4'	2.05	0.57
82:Et:69:G:H2'	82:Et:70:G:C8	2.40	0.57
2:sE:70:ILE:HG22	2:sE:72:ILE:CD1	2.35	0.56
3:sI:61:ASP:N	3:sI:61:ASP:OD2	2.34	0.56
8:sY:29:HIS:HB2	8:sY:32:LYS:HB2	1.85	0.56
17:sO:14:VAL:N	17:sO:15:ILE:HA	2.20	0.56
22:lA:36:GLU:HA	22:lA:91:GLY:HA2	1.87	0.56
24:lC:281:MET:HE2	24:lC:281:MET:HA	1.87	0.56
32:lL:135:LYS:HB2	32:lL:136:LYS:NZ	2.12	0.56
64:sR:32:LYS:HD3	79:s2:1453:C:N3	2.20	0.56
75:sg:129:ILE:HD11	75:sg:154:VAL:HG21	1.87	0.56
75:sg:235:ILE:HD12	75:sg:235:ILE:H	1.68	0.56
79:s2:1690:U:H2'	79:s2:1691:U:H6	1.70	0.56
85:l5:707:C:O2'	85:l5:4943:A:N1	2.37	0.56
85:l5:3732:A:H2'	85:l5:3733:A:C8	2.40	0.56
6:SG:69:THR:O	6:SG:99:GLY:HA3	2.05	0.56
8:SY:20:ARG:HD2	8:SY:74:MET:SD	2.44	0.56
10:SA:120:ARG:HH11	15:SC:266:TYR:HB3	1.70	0.56
85:L5:6:C:H2'	85:L5:7:C:C6	2.40	0.56
85:L5:181:C:H3'	85:L5:182:G:C8	2.39	0.56
85:L5:1705:G:H2'	85:L5:1706:A:O4'	2.05	0.56
85:L5:2764:A:H2'	85:L5:2765:A:C8	2.40	0.56
85:L5:3700:C:H2'	85:L5:3746:A:H61	1.70	0.56
85:L5:4069:U:H2'	85:L5:4070:U:C6	2.40	0.56
85:L5:4504:C:H2'	85:L5:4505:C:C6	2.40	0.56
25:LD:186:GLU:OE2	25:LD:186:GLU:N	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LE:58:SER:O	26:LE:62:MET:HG2	2.05	0.56
26:LE:243:THR:O	26:LE:247:LYS:HG3	2.04	0.56
31:LJ:102:THR:OG1	31:LJ:104:ASN:ND2	2.38	0.56
50:Le:91:CYS:O	50:Le:93:LYS:N	2.38	0.56
66:SF:48:TYR:HE1	69:SQ:56:LEU:HD13	1.70	0.56
75:Sg:38:LYS:HA	75:Sg:65:PHE:HA	1.87	0.56
78:Sf:121:CYS:SG	78:Sf:130:VAL:HG23	2.44	0.56
8:sY:60:PHE:HD1	8:sY:71:GLY:HA3	1.71	0.56
11:sB:103:MET:HB3	11:sB:215:VAL:HG12	1.87	0.56
14:sa:34:LYS:NZ	79:s2:1862:G:N7	2.53	0.56
17:sO:34:PHE:HB3	17:sO:41:PHE:HB2	1.87	0.56
18:sW:94:LEU:HD21	18:sW:102:ILE:HG12	1.87	0.56
19:sb:22:LYS:HG2	79:s2:921:G:C2	2.40	0.56
23:lB:181:MET:HE1	23:lB:346:THR:HG21	1.87	0.56
31:lJ:58:ARG:HA	31:lJ:61:GLY:HA2	1.85	0.56
41:lU:76:VAL:HG23	41:lU:78:PHE:H	1.70	0.56
61:lp:11:VAL:HG11	61:lp:23:ARG:HB3	1.87	0.56
63:lz:207:LYS:HB2	85:l5:4054:C:H1'	1.87	0.56
80:cB:28:VAL:HG12	80:cB:108:HIS:HA	1.86	0.56
85:l5:666:G:N7	85:l5:668:C:N4	2.52	0.56
86:LW:83:THR:HG22	6:SG:130:PRO:HG2	1.86	0.56
2:SE:121:TYR:OH	2:SE:235:TRP:O	2.24	0.56
7:SJ:32:ILE:HG12	7:SJ:37:LEU:HB2	1.87	0.56
7:SJ:58:ARG:HA	7:SJ:61:LEU:HD12	1.85	0.56
7:SJ:111:GLN:CD	7:SJ:127:ARG:HB2	2.30	0.56
11:SB:124:HIS:H	11:SB:169:MET:HE1	1.69	0.56
11:SB:160:GLN:O	11:SB:164:ILE:HG12	2.04	0.56
85:L5:1502:G:O5'	37:LQ:91:ARG:NH2	2.38	0.56
85:L5:2811:G:OP1	38:LR:70:ARG:NH2	2.38	0.56
85:L5:4951:G:H2'	85:L5:4952:G:H8	1.70	0.56
37:LQ:93:GLN:HB2	46:La:87:ARG:HH12	1.71	0.56
45:LZ:32:GLY:HA2	45:LZ:40:HIS:HE1	1.70	0.56
83:Ls:30:VAL:HG11	83:Ls:187:LEU:HD13	1.87	0.56
3:sI:77:ARG:HH21	3:sI:79:ILE:HG12	1.70	0.56
3:sI:141:ARG:NE	79:s2:191:A:OP1	2.38	0.56
3:sI:141:ARG:CZ	3:sI:141:ARG:HA	2.34	0.56
4:sL:80:MET:HA	4:sL:86:ILE:CD1	2.35	0.56
6:sG:44:GLU:HB2	6:sG:119:LYS:HZ2	1.70	0.56
10:sA:195:TRP:NE1	10:sA:197:VAL:CG2	2.67	0.56
12:sH:20:GLU:HB3	12:sH:24:SER:OG	2.05	0.56
16:sN:71:ILE:HG21	79:s2:1018:U:H5"	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:sO:22:ALA:N	17:sO:25:GLU:OE2	2.38	0.56
17:sO:56:VAL:HG22	17:sO:81:VAL:CG2	2.35	0.56
23:lB:43:LEU:HB2	23:lB:210:VAL:HG22	1.86	0.56
27:lF:162:ILE:HD13	27:lF:174:LEU:HD11	1.87	0.56
28:lG:175:ARG:NH1	28:lG:230:TYR:CD1	2.73	0.56
31:lJ:7:GLU:HA	31:lJ:10:ASN:OD1	2.05	0.56
32:lL:46:ILE:HB	32:lL:49:ARG:HD2	1.86	0.56
33:lM:52:PHE:CD1	33:lM:55:MET:HE3	2.40	0.56
37:lQ:57:ASN:OD1	37:lQ:143:ARG:NH1	2.38	0.56
38:lR:15:LEU:HD13	38:lR:52:ARG:HB2	1.87	0.56
42:lV:40:ILE:CD1	85:l5:3799:A:C5	2.89	0.56
54:li:88:GLU:O	54:li:92:ASN:ND2	2.38	0.56
62:lr:21:ASN:OD1	62:lr:21:ASN:N	2.39	0.56
65:sD:27:ARG:HB3	67:sK:61:GLN:HE22	1.67	0.56
65:sD:185:LYS:NZ	79:s2:1336:C:OP2	2.32	0.56
68:sP:53:GLN:HB3	68:sP:83:MET:SD	2.46	0.56
72:sU:40:ILE:O	72:sU:44:LYS:HG2	2.06	0.56
75:sg:164:ILE:HG21	75:sg:221:LEU:HD13	1.87	0.56
75:sg:258:ILE:HG23	75:sg:268:ASP:H	1.68	0.56
79:s2:888:U:H4'	79:s2:889:U:H5'	1.87	0.56
79:s2:1736:G:H2'	79:s2:1737:G:C8	2.41	0.56
80:cB:77:LEU:HB3	80:cB:100:ILE:HB	1.87	0.56
85:l5:93:G:H2'	85:l5:94:A:C8	2.41	0.56
85:l5:1193:C:H2'	85:l5:1194:G:H8	1.69	0.56
85:l5:1741:G:O2'	85:l5:1781:U:OP2	2.19	0.56
85:l5:1824:G:H2'	85:l5:1825:A:C8	2.41	0.56
85:l5:2443:G:OP2	85:l5:2516:G:N2	2.34	0.56
85:l5:2614:C:O2'	85:l5:2808:G:OP1	2.22	0.56
85:l5:3947:A:N6	85:l5:4068:U:O2	2.38	0.56
85:l5:4093:G:N7	85:l5:4095:G:C2	2.73	0.56
85:l5:4586:G:O6	85:l5:4717:A:N6	2.37	0.56
85:l5:4954:G:H2'	85:l5:4955:A:H8	1.71	0.56
86:LW:61:LYS:NZ	85:L5:5041:G:OP2	2.23	0.56
2:SE:55:ALA:HB1	2:SE:60:GLU:HB2	1.88	0.56
5:SX:40:PRO:HA	5:SX:79:LYS:HD2	1.88	0.56
8:SY:92:ALA:HB1	8:SY:99:LYS:HE3	1.88	0.56
10:SA:5:LEU:HA	13:SV:41:LYS:HZ3	1.70	0.56
12:SH:48:ALA:HB2	12:SH:62:ILE:HG23	1.86	0.56
14:Sa:70:LYS:NZ	79:S2:988:C:OP2	2.38	0.56
16:SN:25:TRP:HE3	19:Sb:82:LYS:HD2	1.68	0.56
17:SO:81:VAL:O	17:SO:85:CYS:N	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Sb:73:LEU:HD23	19:Sb:74:THR:N	2.20	0.56
85:L5:146:G:H2'	85:L5:147:A:H8	1.69	0.56
85:L5:419:A:N3	85:L5:1332:C:O2'	2.37	0.56
85:L5:729:G:OP1	39:LS:63:TYR:OH	2.21	0.56
85:L5:1728:U:OP1	27:LF:127:LYS:NZ	2.39	0.56
85:L5:1806:G:H2'	85:L5:1807:C:H6	1.71	0.56
85:L5:2057:A:OP1	35:LO:18:ARG:NH1	2.38	0.56
85:L5:2406:G:N7	57:Ll:2:SER:N	2.53	0.56
85:L5:2857:A:H2'	85:L5:2858:A:O4'	2.05	0.56
85:L5:4713:G:OP1	35:LO:148:LYS:NZ	2.26	0.56
21:L8:110:U:H5'	57:Ll:8:ARG:HH12	1.70	0.56
44:LY:32:SER:OG	44:LY:101:PRO:O	2.24	0.56
59:Ln:11:ARG:HH12	79:S2:1184:G:P	2.28	0.56
65:SD:60:GLY:HA3	65:SD:65:ARG:H	1.70	0.56
65:SD:217:ILE:HG13	65:SD:218:LEU:N	2.21	0.56
66:SF:44:LYS:NZ	69:SQ:114:GLN:O	2.38	0.56
66:SF:126:THR:HG22	66:SF:139:VAL:HG11	1.87	0.56
67:SK:47:LYS:HA	67:SK:50:GLN:HB3	1.88	0.56
79:S2:344:U:H2'	79:S2:345:U:H6	1.71	0.56
79:S2:678:U:OP2	79:S2:1026:C:N4	2.27	0.56
79:S2:1606:G:H22	79:S2:1632:G:HO2'	1.54	0.56
79:S2:1804:U:H2'	79:S2:1805:G:H8	1.70	0.56
84:Lt:141:CYS:C	84:Lt:148:PRO:HD2	2.30	0.56
83:Ls:17:ILE:HG13	83:Ls:21:LEU:HD23	1.88	0.56
1:cH:43:LYS:CE	9:se:46:VAL:H	2.18	0.56
2:sE:145:ARG:NH1	2:sE:162:ILE:HD12	2.21	0.56
4:sL:135:SER:OG	4:sL:136:LYS:N	2.36	0.56
9:se:41:ARG:HG3	9:se:42:PHE:CD1	2.39	0.56
13:sV:43:THR:CG2	13:sV:45:ARG:HD3	2.36	0.56
30:lI:174:THR:HG22	30:lI:176:PHE:H	1.69	0.56
63:lz:93:LEU:O	63:lz:102:LYS:NZ	2.39	0.56
64:sR:5:ARG:HG2	64:sR:9:VAL:HG23	1.87	0.56
65:sD:227:LYS:HG3	75:sg:184:LEU:HD12	1.86	0.56
73:sc:12:ALA:HB1	73:sc:32:VAL:HB	1.86	0.56
73:sc:59:LEU:HB2	73:sc:63:ARG:HH22	1.69	0.56
75:sg:217:MET:HE3	75:sg:219:TRP:NE1	2.20	0.56
79:s2:146:G:H1	79:s2:173:A:N6	2.01	0.56
83:ls:14:PHE:O	83:ls:18:ILE:HG13	2.05	0.56
83:ls:34:ASN:O	83:ls:112:ARG:NH2	2.25	0.56
85:l5:4062:A:H2'	85:l5:4063:U:C5	2.40	0.56
85:l5:4103:C:O2'	85:l5:4106:G:O6	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4537:C:H2'	85:l5:4538:G:C8	2.40	0.56
11:SB:175:GLU:HG3	11:SB:187:LYS:HE3	1.86	0.56
85:L5:1097:C:H2'	85:L5:1098:G:C8	2.39	0.56
85:L5:2072:C:OP1	37:LQ:2:GLY:N	2.39	0.56
85:L5:3726:A:H2'	85:L5:3727:A:C8	2.40	0.56
85:L5:3896:C:O2'	23:LB:268:ARG:NH2	2.32	0.56
25:LD:52:ILE:CD1	25:LD:147:ASP:CG	2.78	0.56
29:LH:110:SER:O	29:LH:128:MET:SD	2.62	0.56
49:Ld:57:MET:HG2	49:Ld:104:THR:HG21	1.87	0.56
51:Lf:33:VAL:HG23	51:Lf:38:GLU:HB2	1.88	0.56
53:Lh:15:GLU:H	53:Lh:15:GLU:CD	2.13	0.56
60:Lo:32:SER:OG	60:Lo:35:ALA:N	2.39	0.56
61:Lp:32:SER:OG	61:Lp:69:TRP:O	2.20	0.56
64:SR:81:ARG:NH2	64:SR:82:ASP:OD1	2.37	0.56
74:Sd:40:ARG:NH1	79:S2:1256:G:OP2	2.39	0.56
87:AT:67:C:H2'	87:AT:68:G:C8	2.41	0.56
12:sH:184:ASP:OD1	12:sH:184:ASP:N	2.38	0.56
63:lz:200:ASN:OD1	63:lz:201:VAL:N	2.39	0.56
71:sT:33:TRP:CZ3	79:s2:1567:G:H5'	2.41	0.56
80:cB:24:VAL:HG12	80:cB:126:LEU:HB3	1.87	0.56
80:cB:214:PHE:HB2	80:cB:223:PHE:CE2	2.40	0.56
85:l5:4260:U:H2'	85:l5:4261:C:C6	2.41	0.56
85:l5:4378:A:O2'	85:l5:4379:A:H2'	2.05	0.56
85:l5:4935:C:H2'	85:l5:4936:G:C8	2.40	0.56
16:SN:87:ASP:OD1	16:SN:87:ASP:N	2.38	0.56
17:SO:91:THR:O	17:SO:125:LYS:HG2	2.06	0.56
85:L5:3974:G:O4'	63:Lz:29:LEU:HA	2.06	0.56
85:L5:4188:U:H2'	85:L5:4189:U:C6	2.40	0.56
85:L5:4363:A:H5"	60:Lo:36:GLN:HG2	1.87	0.56
85:L5:4404:U:O2'	85:L5:4406:U:O4	2.24	0.56
21:L8:26:C:H2'	21:L8:27:U:C6	2.40	0.56
28:LG:204:PHE:CE1	28:LG:207:VAL:CG2	2.88	0.56
33:LM:86:TRP:CE2	33:LM:92:ALA:HB2	2.41	0.56
45:LZ:83:THR:HG22	45:LZ:85:TYR:H	1.70	0.56
65:SD:223:ILE:HG12	75:Sg:189:ILE:HD11	1.87	0.56
79:S2:350:C:HO2'	79:S2:383:G:H1	0.60	0.56
79:S2:1101:U:H2'	79:S2:1102:G:H8	1.70	0.56
79:S2:1588:A:H2'	79:S2:1589:A:C8	2.40	0.56
87:AT:24:C:N3	87:AT:25:A:N6	2.53	0.56
2:sE:56:LEU:HD11	8:sY:74:MET:HE1	1.88	0.56
2:sE:155:LYS:HG2	2:sE:174:LYS:HZ2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:sY:25:ILE:HD11	8:sY:60:PHE:CZ	2.41	0.56
14:sa:51:ARG:HH12	73:sc:40:ARG:HE	1.52	0.56
18:sW:107:SER:OG	79:s2:860:G:N2	2.37	0.56
24:lC:193:LYS:HD2	24:lC:196:MET:HE2	1.88	0.56
26:lE:243:THR:HG22	26:lE:245:GLN:H	1.71	0.56
31:lJ:95:ARG:HH11	31:lJ:96:LYS:H	1.53	0.56
38:lR:3:MET:HE1	38:lR:5:ARG:HB2	1.86	0.56
64:sR:27:ASP:CB	79:s2:1455:A:H5"	2.34	0.56
71:sT:126:GLN:NE2	71:sT:129:ARG:HH22	2.03	0.56
80:cB:266:PHE:C	80:cB:285:LEU:HD12	2.31	0.56
82:pE:21:A:H2'	82:pE:22:G:C8	2.40	0.56
85:l5:4238:G:H2'	85:l5:4239:A:H8	1.71	0.56
2:SE:115:THR:HG23	2:SE:118:GLU:H	1.70	0.56
6:SG:44:GLU:HG2	6:SG:45:TRP:HD1	1.70	0.56
11:SB:31:TYR:CE2	11:SB:49:VAL:HG12	2.41	0.56
18:SW:102:ILE:HG22	18:SW:113:HIS:HB3	1.87	0.56
19:Sb:42:LYS:CE	19:Sb:58:GLY:H	2.19	0.56
85:L5:173:C:H5"	32:LL:129:ARG:HH12	1.70	0.56
85:L5:978:G:H2'	85:L5:979:C:C6	2.40	0.56
85:L5:1662:C:H2'	85:L5:1663:C:C6	2.40	0.56
85:L5:1824:G:OP1	40:LT:35:LYS:NZ	2.39	0.56
85:L5:4507:A:H2'	85:L5:4508:C:C6	2.41	0.56
24:LC:325:MET:HE2	24:LC:325:MET:HA	1.87	0.56
27:LF:90:ALA:HB2	27:LF:125:LEU:HD11	1.87	0.56
32:LL:54:PRO:HB2	32:LL:97:SER:HB3	1.88	0.56
33:LM:12:VAL:HB	33:LM:60:PHE:HB2	1.86	0.56
35:LO:109:PRO:HB2	35:LO:111:PRO:HD2	1.87	0.56
51:Lf:83:MET:HA	51:Lf:83:MET:HE3	1.86	0.56
60:Lo:105:GLN:N	60:Lo:105:GLN:OE1	2.38	0.56
67:SK:85:LEU:HD23	67:SK:86:PRO:O	2.06	0.56
71:ST:112:MET:SD	71:ST:112:MET:C	2.89	0.56
74:Sd:37:ASN:O	74:Sd:38:MET:HE2	2.05	0.56
75:Sg:109:LEU:HD23	75:Sg:124:SER:CA	2.34	0.56
79:S2:1736:G:H2'	79:S2:1737:G:C8	2.41	0.56
3:sI:147:LYS:HZ1	79:s2:203:G:H5'	1.71	0.56
11:sB:103:MET:HE2	11:sB:188:LEU:HD21	1.88	0.56
13:sV:60:ARG:HG3	13:sV:65:SER:HB3	1.86	0.56
18:sW:81:VAL:HG21	18:sW:104:LEU:HD22	1.87	0.56
20:l7:48:G:O2'	25:lD:222:GLN:O	2.24	0.56
21:l8:144:U:H2'	21:l8:145:C:H6	1.71	0.56
23:lB:357:ARG:HD2	85:l5:4615:C:H5"	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:lD:69:ILE:HD13	40:lT:31:MET:HG3	1.88	0.56
28:lG:197:LYS:NZ	85:l5:148:C:OP2	2.29	0.56
33:lM:104:MET:HE2	35:lO:199:HIS:HB3	1.86	0.56
40:lT:14:MET:HE2	40:lT:58:HIS:CD2	2.41	0.56
40:lT:114:GLN:O	40:lT:118:GLU:HG2	2.06	0.56
63:lz:57:SER:HB2	63:lz:172:VAL:HG22	1.86	0.56
69:sQ:141:TYR:OH	79:s2:1668:U:OP2	2.21	0.56
70:sS:121:ARG:NH2	79:s2:1611:G:OP2	2.23	0.56
76:sM:42:LEU:HD11	76:sM:68:LEU:HD13	1.87	0.56
80:cB:685:TRP:CE2	80:cB:726:ARG:HD3	2.41	0.56
85:l5:654:C:C4	85:l5:655:C:N4	2.74	0.56
85:l5:1872:G:O2'	85:l5:4219:A:N3	2.35	0.56
85:l5:1942:A:N3	85:l5:4432:C:O2'	2.38	0.56
85:l5:4260:U:H2'	85:l5:4261:C:H6	1.70	0.56
10:SA:61:ALA:O	10:SA:65:ILE:CD1	2.54	0.56
15:SC:132:ASP:C	15:SC:132:ASP:OD2	2.49	0.56
16:SN:57:SER:HG	16:SN:58:HIS:HD1	1.52	0.56
85:L5:714:G:H2'	85:L5:715:G:H8	1.69	0.56
85:L5:1198:G:H2'	85:L5:1199:G:H8	1.71	0.56
85:L5:1391:A:O2'	46:La:58:MET:HE3	2.06	0.56
85:L5:2565:A:H3'	85:L5:2566:G:C8	2.39	0.56
25:LD:129:GLU:HG2	25:LD:177:THR:HG21	1.87	0.56
38:LR:43:LYS:HA	38:LR:46:LYS:HE2	1.88	0.56
45:LZ:13:VAL:HG12	45:LZ:19:SER:HA	1.88	0.56
65:SD:196:GLY:HA2	65:SD:201:LYS:HE2	1.88	0.56
70:SS:6:PRO:HD3	77:SZ:49:LEU:HD23	1.87	0.56
71:ST:12:GLN:NE2	79:S2:1593:C:O2	2.34	0.56
79:S2:528:A:H2'	79:S2:529:A:C8	2.30	0.56
79:S2:1728:U:H2'	79:S2:1729:U:O4'	2.05	0.56
88:CF:244:LYS:HD3	88:CF:245:PRO:HD2	1.88	0.56
1:cH:50:LYS:HD2	79:s2:607:U:OP1	2.06	0.56
3:sI:10:LYS:NZ	79:s2:370:G:O2'	2.38	0.56
6:sG:213:LEU:O	6:sG:217:MET:HE3	2.06	0.56
7:sJ:57:ALA:HA	7:sJ:60:LEU:HD12	1.87	0.56
8:sY:25:ILE:HD11	8:sY:60:PHE:CE1	2.40	0.56
16:sN:108:ASP:HB3	16:sN:111:ALA:HB3	1.86	0.56
22:lA:137:ILE:HD11	22:lA:149:LYS:HB2	1.88	0.56
27:lF:85:ALA:HB2	40:lT:138:ALA:H	1.71	0.56
42:lV:69:LYS:HG3	42:lV:71:GLU:OE1	2.06	0.56
45:lZ:103:ASP:CG	45:lZ:106:LEU:HG	2.29	0.56
57:ll:10:LYS:NZ	85:l5:2782:U:OP2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:sD:151:LYS:NZ	79:s2:1486:A:OP2	2.26	0.56
69:sQ:6:PRO:HB2	69:sQ:7:LEU:HD23	1.88	0.56
74:sd:40:ARG:NH1	79:s2:1256:G:OP2	2.39	0.56
79:s2:186:C:H2'	79:s2:187:G:C8	2.41	0.56
80:cB:83:GLU:HA	80:cB:86:LEU:HD13	1.86	0.56
80:cB:749:ILE:HG23	80:cB:784:VAL:HB	1.86	0.56
85:l5:2558:C:H2'	85:l5:2559:G:C8	2.40	0.56
85:l5:4743:G:H2'	85:l5:4744:A:C8	2.41	0.56
11:SB:109:LYS:HD3	11:SB:113:MET:SD	2.46	0.56
85:L5:271:C:H2'	85:L5:272:U:C6	2.41	0.56
85:L5:444:G:H2'	85:L5:445:U:H6	1.70	0.56
85:L5:746:A:H2'	85:L5:747:A:C8	2.41	0.56
85:L5:2102:G:H1'	85:L5:2103:G:N7	2.20	0.56
85:L5:2295:C:H2'	85:L5:2296:G:H8	1.71	0.56
85:L5:2407:G:N2	85:L5:2407:G:OP2	2.39	0.56
85:L5:2665:U:OP2	38:LR:110:ARG:NH1	2.38	0.56
85:L5:2756:G:H2'	85:L5:2757:A:C8	2.40	0.56
85:L5:4121:G:H21	22:LA:46:LYS:HD3	1.71	0.56
85:L5:4239:A:H2'	85:L5:4240:G:H8	1.71	0.56
85:L5:4893:A:OP1	35:LO:188:LYS:NZ	2.39	0.56
85:L5:4941:G:OP2	26:LE:188:ARG:NH2	2.30	0.56
20:L7:64:G:H2'	20:L7:65:G:C8	2.41	0.56
31:LJ:78:LYS:CD	31:LJ:82:ILE:HD11	2.35	0.56
33:LM:78:GLN:N	33:LM:78:GLN:OE1	2.38	0.56
65:SD:132:LYS:HB2	65:SD:189:MET:SD	2.45	0.56
69:SQ:26:LYS:HB2	69:SQ:67:ASP:HB2	1.86	0.56
75:Sg:59:LEU:HD11	75:Sg:90:TRP:CG	2.41	0.56
75:Sg:101:PHE:HD1	75:Sg:136:GLY:HA2	1.71	0.56
75:Sg:152:SER:H	75:Sg:169:GLY:HA2	1.71	0.56
75:Sg:199:THR:HG1	75:Sg:241:PHE:HE1	1.53	0.56
79:S2:868:G:OP2	79:S2:868:G:N2	2.28	0.56
6:sG:118:GLU:HG2	6:sG:119:LYS:HG3	1.88	0.56
6:sG:133:LEU:HD12	79:s2:65:C:C4	2.41	0.56
16:sN:87:ASP:HB3	16:sN:125:LEU:HD21	1.87	0.56
16:sN:93:LYS:HG3	16:sN:150:VAL:HG21	1.87	0.56
20:l7:83:A:H4'	27:lF:224:THR:HB	1.86	0.56
29:lH:12:ILE:HG22	29:lH:16:VAL:HG13	1.88	0.56
37:lQ:45:GLN:O	37:lQ:49:LYS:HG2	2.06	0.56
39:lS:173:ASN:C	39:lS:173:ASN:HD22	2.11	0.56
41:lU:26:THR:O	41:lU:30:GLU:HG3	2.06	0.56
48:lc:40:GLN:OE1	48:lc:42:LYS:NZ	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:sK:7:ASN:HD22	67:sK:40:VAL:HG12	1.69	0.56
68:sP:18:ARG:NH1	70:sS:88:LYS:O	2.38	0.56
71:sT:9:VAL:O	71:sT:11:GLN:NE2	2.39	0.56
77:sZ:101:SER:HB3	77:sZ:108:ILE:HG22	1.88	0.56
78:sf:116:ARG:NH1	78:sf:118:ARG:O	2.38	0.56
79:s2:694:G:H2'	79:s2:695:C:O4'	2.04	0.56
79:s2:963:A:H2'	79:s2:964:A:C8	2.41	0.56
79:s2:1373:C:H2'	79:s2:1374:C:C6	2.40	0.56
79:s2:1395:C:H1'	79:s2:1474:A:C5	2.40	0.56
80:cB:607:ARG:HE	80:cB:701:ARG:HG2	1.70	0.56
83:ls:74:ALA:CA	83:ls:77:LYS:NZ	2.56	0.56
85:l5:2495:U:H2'	85:l5:2496:G:C8	2.40	0.56
85:l5:4742:G:H2'	85:l5:4743:G:C8	2.37	0.56
8:SY:74:MET:HE2	8:SY:76:TYR:CZ	2.40	0.56
14:Sa:59:PHE:HB3	14:Sa:62:TYR:HB2	1.88	0.56
85:L5:2343:G:C2	24:LC:101:MET:HE2	2.41	0.56
85:L5:4218:U:P	40:LT:3:ASN:HD21	2.29	0.56
23:LB:169:ARG:HG3	23:LB:170:LEU:HG	1.86	0.56
23:LB:315:ASN:HD21	23:LB:326:VAL:N	2.03	0.56
66:SF:110:GLN:NE2	66:SF:114:ASN:OD1	2.34	0.56
75:Sg:217:MET:CE	75:Sg:219:TRP:CZ2	2.88	0.56
79:S2:16:G:H2'	79:S2:17:C:C6	2.41	0.56
2:sE:100:ARG:HB2	2:sE:114:ILE:HD13	1.88	0.56
6:sG:57:ASP:HB2	6:sG:98:ARG:HG3	1.86	0.56
22:lA:204:MET:HE2	85:l5:1631:A:N1	2.20	0.56
29:lH:9:THR:HG21	29:lH:54:ARG:HD2	1.87	0.56
29:lH:103:VAL:HG11	29:lH:144:LEU:HD21	1.88	0.56
36:lP:43:LYS:NZ	85:l5:5066:U:OP1	2.39	0.56
65:sD:116:ARG:HG2	65:sD:152:PHE:CZ	2.41	0.56
68:sP:39:ALA:N	79:s2:1613:G:OP2	2.39	0.56
68:sP:51:ARG:NH2	79:s2:1300:U:H2'	2.21	0.56
72:sU:98:VAL:HA	72:sU:101:ILE:HG12	1.88	0.56
76:sM:95:ASP:O	76:sM:97:GLU:N	2.39	0.56
79:s2:1726:G:N1	79:s2:1809:A:N7	2.53	0.56
85:l5:1339:U:H2'	85:l5:1340:C:C6	2.41	0.56
85:l5:3910:C:H2'	85:l5:3911:C:C6	2.40	0.56
85:l5:4670:C:O2'	85:l5:4672:A:OP2	2.23	0.56
2:SE:248:ILE:HG13	7:SJ:72:PHE:HE2	1.71	0.56
10:SA:19:LEU:HA	10:SA:24:HIS:CE1	2.40	0.56
85:L5:108:A:O2'	85:L5:334:A:N6	2.34	0.56
85:L5:147:A:OP1	28:LG:197:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:323:C:H2'	85:L5:324:A:C8	2.40	0.56
85:L5:443:G:OP1	51:Lf:68:ARG:NH2	2.39	0.56
85:L5:1187:G:H2'	85:L5:1188:C:C6	2.41	0.56
85:L5:1258:G:H2'	85:L5:1259:G:C8	2.41	0.56
85:L5:1401:C:OP1	47:Lb:51:LYS:NZ	2.36	0.56
85:L5:1552:G:O2'	85:L5:1574:G:N2	2.38	0.56
85:L5:2041:A:N7	85:L5:4434:C:O2'	2.37	0.56
85:L5:2804:C:H2'	85:L5:2805:C:H6	1.71	0.56
85:L5:3726:A:O2'	85:L5:3727:A:O5'	2.19	0.56
85:L5:4153:C:H2'	85:L5:4154:G:C8	2.42	0.56
23:LB:77:THR:OG1	23:LB:335:GLY:O	2.24	0.56
48:Lc:55:LEU:HD12	52:Lg:93:ARG:HB2	1.86	0.56
53:Lh:77:LYS:HE2	53:Lh:78:TYR:CE1	2.41	0.56
54:Li:70:LEU:HD22	54:Li:87:ARG:HH21	1.70	0.56
69:SQ:21:ALA:O	69:SQ:87:SER:OG	2.24	0.56
70:SS:134:GLN:NE2	79:S2:1608:U:OP1	2.36	0.56
77:SZ:74:SER:HA	77:SZ:79:ILE:HB	1.88	0.56
77:SZ:84:ALA:O	77:SZ:88:LEU:HD12	2.05	0.56
79:S2:430:C:H2'	79:S2:431:G:H8	1.71	0.56
79:S2:693:A:N6	79:S2:738:C:O2'	2.33	0.56
79:S2:1205:C:H2'	79:S2:1206:G:H8	1.71	0.56
79:S2:1740:C:H2'	79:S2:1741:U:C6	2.41	0.56
79:S2:1755:C:H2'	79:S2:1756:C:C6	2.41	0.56
10:sA:78:SER:HB2	10:sA:87:VAL:HG11	1.89	0.55
17:sO:85:CYS:HB2	17:sO:124:MET:HE1	1.88	0.55
29:lH:12:ILE:HD12	29:lH:53:LYS:O	2.05	0.55
31:lJ:22:LEU:HD21	31:lJ:130:PHE:CE1	2.41	0.55
33:lM:51:PRO:HG2	33:lM:54:CYS:SG	2.45	0.55
41:lU:42:PHE:O	41:lU:46:ARG:HG3	2.06	0.55
50:le:104:SER:OG	85:l5:2303:C:OP1	2.19	0.55
64:sR:60:ARG:O	64:sR:64:GLY:N	2.39	0.55
66:sF:73:THR:HG23	66:sF:86:LYS:HE3	1.86	0.55
79:s2:185:G:O6	79:s2:214:U:O4	2.24	0.55
79:s2:1700:C:O2	79:s2:1834:A:N6	2.39	0.55
80:cB:754:GLN:NE2	80:cB:807:GLN:OE1	2.39	0.55
80:cB:788:LEU:HD12	80:cB:789:PRO:HD2	1.87	0.55
82:pE:55:U:N3	82:pE:58:A:OP2	2.38	0.55
85:l5:3736:A:H2'	85:l5:3737:A:C8	2.41	0.55
85:l5:3947:A:H2'	85:l5:3948:C:C4	2.41	0.55
2:SE:248:ILE:HG13	7:SJ:72:PHE:CE2	2.41	0.55
16:SN:110:ASP:OD1	16:SN:114:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1414:C:O2'	85:L5:1415:G:H5'	2.06	0.55
85:L5:1669:A:H4'	85:L5:1685:G:N2	2.21	0.55
85:L5:1971:C:C5	85:L5:2000:G:H2'	2.41	0.55
85:L5:2250:C:H2'	85:L5:2251:G:C8	2.40	0.55
85:L5:2335:C:H2'	85:L5:2336:G:H8	1.71	0.55
85:L5:2744:A:H2'	85:L5:2745:A:C8	2.41	0.55
85:L5:3633:C:H2'	85:L5:3634:G:C8	2.41	0.55
24:LC:189:MET:HE1	24:LC:200:ARG:NE	2.21	0.55
31:LJ:99:PHE:HE2	31:LJ:174:ILE:HD13	1.71	0.55
37:LQ:93:GLN:CG	37:LQ:94:GLU:OE2	2.38	0.55
38:LR:44:LEU:HB3	38:LR:49:LEU:HB2	1.88	0.55
41:LU:116:GLN:NE2	41:LU:117:ILE:O	2.36	0.55
50:Le:128:ARG:H	50:Le:129:LEU:HD23	1.70	0.55
64:SR:17:ILE:HG22	64:SR:21:TYR:CD1	2.41	0.55
64:SR:47:ARG:O	64:SR:50:ILE:HG22	2.06	0.55
69:SQ:96:TYR:HA	69:SQ:100:VAL:HG12	1.86	0.55
79:S2:1501:C:H2'	79:S2:1502:C:H6	1.70	0.55
63:Lz:113:SER:OG	63:Lz:114:GLU:N	2.39	0.55
2:sE:94:LYS:HZ3	8:sY:16:ARG:HG2	1.71	0.55
2:sE:212:ASP:OD1	2:sE:216:ASN:N	2.39	0.55
8:sY:110:ARG:HH11	8:sY:114:MET:CE	2.18	0.55
18:sW:32:LYS:HG3	79:s2:686:U:OP1	2.06	0.55
29:lH:40:HIS:CD2	29:lH:41:ILE:HG13	2.42	0.55
32:lL:135:LYS:C	32:lL:136:LYS:HD3	2.31	0.55
39:lS:28:TYR:HE1	40:lT:149:GLU:OE1	1.89	0.55
54:li:27:SER:OG	85:l5:159:C:OP1	2.24	0.55
58:lm:92:ASP:OD1	58:lm:105:PRO:HB3	2.07	0.55
66:sF:195:GLU:CD	66:sF:198:ARG:HE	2.14	0.55
72:sU:48:LEU:HD21	72:sU:93:SER:OG	2.06	0.55
79:s2:1372:U:OP1	79:s2:1385:G:N1	2.26	0.55
79:s2:1562:C:H2'	79:s2:1563:G:C8	2.38	0.55
85:l5:325:U:H2'	85:l5:326:C:C6	2.41	0.55
85:l5:1754:U:H2'	85:l5:1755:C:C6	2.41	0.55
85:l5:2744:A:H2'	85:l5:2745:A:C8	2.41	0.55
85:l5:3700:C:O2'	85:l5:3774:A:N3	2.37	0.55
7:SJ:69:ARG:HH22	79:S2:849:A:H5'	1.69	0.55
85:L5:297:U:H2'	85:L5:298:G:H8	1.70	0.55
85:L5:350:C:OP1	85:L5:2294:G:O2'	2.24	0.55
85:L5:914:U:O2'	85:L5:915:A:OP2	2.23	0.55
85:L5:1426:G:N1	85:L5:1458:C:OP2	2.36	0.55
85:L5:2092:G:O2'	85:L5:2262:G:N2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2847:G:H3'	85:L5:2848:G:C8	2.41	0.55
85:L5:4046:A:H2'	85:L5:4047:A:C8	2.41	0.55
85:L5:4458:C:H2'	85:L5:4459:U:C6	2.40	0.55
20:L7:15:C:H2'	20:L7:16:A:H8	1.72	0.55
24:LC:156:ASP:OD1	24:LC:255:SER:OG	2.23	0.55
26:LE:167:GLN:HE21	26:LE:171:GLY:HA2	1.72	0.55
33:LM:100:ARG:HG2	33:LM:103:LYS:NZ	2.20	0.55
36:LP:2:VAL:CG1	36:LP:3:ARG:N	2.68	0.55
62:Lr:31:ASN:ND2	62:Lr:40:TYR:O	2.38	0.55
66:SF:50:PRO:HB3	66:SF:69:VAL:HG23	1.88	0.55
79:S2:1628:C:H2'	79:S2:1629:C:C6	2.41	0.55
88:CF:142:THR:O	88:CF:423:ARG:NH1	2.39	0.55
12:sH:145:ARG:NH1	18:sW:52:ILE:H	2.03	0.55
12:sH:147:LYS:HE3	12:sH:153:LEU:HD23	1.88	0.55
18:sW:46:TYR:HB3	18:sW:69:LEU:HD23	1.87	0.55
21:l8:83:C:H42	44:lY:50:ARG:HH22	1.54	0.55
24:lC:190:ARG:HG2	24:lC:191:ALA:H	1.71	0.55
27:lF:48:LYS:NZ	85:l5:1238:A:O3'	2.39	0.55
32:lL:84:ALA:HB2	32:lL:114:VAL:HG23	1.87	0.55
41:lU:65:ARG:HG2	41:lU:67:LYS:H	1.71	0.55
49:ld:90:ARG:HG2	49:ld:102:LEU:HD22	1.88	0.55
56:lk:33:LYS:HG2	56:lk:46:VAL:HG22	1.88	0.55
67:sK:20:VAL:HG13	67:sK:93:THR:HG21	1.88	0.55
78:sf:106:TYR:HA	78:sf:117:LEU:HD13	1.79	0.55
79:s2:1389:C:H2'	79:s2:1390:U:H6	1.70	0.55
80:cB:600:ASN:ND2	80:cB:721:ILE:HD11	2.19	0.55
85:l5:270:U:H2'	85:l5:271:C:H6	1.72	0.55
85:l5:4913:G:H4'	85:l5:4914:C:O5'	2.06	0.55
86:LW:52:THR:N	86:LW:55:TYR:CZ	2.53	0.55
10:SA:61:ALA:O	10:SA:65:ILE:HD13	2.06	0.55
10:SA:70:ASN:HB3	10:SA:73:ASP:HB2	1.88	0.55
13:SV:15:ARG:NE	15:SC:83:LEU:O	2.31	0.55
13:SV:64:GLU:HB3	19:Sb:3:LEU:HD11	1.86	0.55
14:Sa:7:ASN:ND2	14:Sa:10:ARG:O	2.36	0.55
85:L5:1487:G:H2'	85:L5:1488:G:H8	1.72	0.55
85:L5:2108:G:H2'	85:L5:2109:G:C8	2.41	0.55
85:L5:2624:G:H2'	85:L5:2625:U:H6	1.72	0.55
85:L5:3934:G:H2'	85:L5:3935:C:C6	2.41	0.55
85:L5:4678:G:N2	85:L5:4713:G:H1'	2.21	0.55
25:LD:236:MET:HE1	25:LD:240:TYR:HE2	1.70	0.55
31:LJ:128:LEU:HD11	31:LJ:130:PHE:HE1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:LP:102:ALA:HA	36:LP:107:LEU:HD21	1.88	0.55
38:LR:11:ALA:CA	38:LR:41:ILE:CD1	2.84	0.55
43:LX:143:ASP:OD2	43:LX:144:TYR:CE1	2.58	0.55
44:LY:47:MET:HE2	44:LY:47:MET:HA	1.88	0.55
56:Lk:35:LYS:HG2	56:Lk:44:THR:HG22	1.88	0.55
67:SK:1:MET:HG3	67:SK:3:MET:H	1.72	0.55
79:S2:900:C:H5'	79:S2:901:G:N7	2.21	0.55
83:Ls:58:ASN:ND2	83:Ls:62:ARG:HH22	2.03	0.55
9:se:45:VAL:O	79:s2:548:C:O2'	2.22	0.55
10:sA:184:ARG:HD3	10:sA:191:ARG:HA	1.87	0.55
20:l7:7:G:H5"	25:lD:22:ARG:HD3	1.88	0.55
25:lD:232:THR:H	25:lD:235:MET:HE2	1.71	0.55
26:lE:141:ARG:NH2	51:lf:110:ILE:O	2.39	0.55
31:lJ:95:ARG:HD3	31:lJ:95:ARG:H	1.72	0.55
31:lJ:173:ILE:C	31:lJ:174:ILE:HD13	2.32	0.55
32:lL:60:ARG:HD2	32:lL:67:HIS:O	2.06	0.55
34:lN:204:ARG:NH1	85:l5:1341:U:O3'	2.39	0.55
40:lT:81:LYS:HB2	47:lb:16:TRP:CZ3	2.42	0.55
44:lY:125:SER:OG	85:l5:196:C:O4'	2.24	0.55
48:lc:55:LEU:HD22	52:lg:89:ASP:OD1	2.06	0.55
53:lh:94:ARG:HG3	85:l5:135:G:H22	1.72	0.55
54:li:33:LEU:HD11	54:li:38:LYS:HB3	1.87	0.55
75:sg:41:ILE:CG2	75:sg:43:TRP:HE1	2.19	0.55
75:sg:84:ASP:HB2	75:sg:86:THR:HG22	1.88	0.55
79:s2:107:A:H2'	79:s2:108:G:H8	1.70	0.55
79:s2:463:C:O2'	79:s2:466:G:O6	2.19	0.55
79:s2:1758:G:N2	79:s2:1773:C:O4'	2.39	0.55
80:cB:37:ASP:HB3	80:cB:55:ARG:HD2	1.88	0.55
80:cB:431:GLY:O	80:cB:493:ASN:ND2	2.26	0.55
85:l5:211:G:H4'	85:l5:234:G:C8	2.41	0.55
85:l5:1176:C:H42	85:l5:1184:A:H61	0.69	0.55
3:SI:104:ILE:O	3:SI:171:LEU:N	2.36	0.55
4:SL:98:LYS:HA	79:S2:421:G:P	2.46	0.55
6:SG:235:SER:OG	79:S2:786:G:N7	2.37	0.55
8:SY:123:ALA:O	8:SY:127:ALA:N	2.38	0.55
11:SB:63:LYS:HE2	11:SB:91:VAL:HG22	1.88	0.55
85:L5:44:A:N3	85:L5:94:A:H2	2.05	0.55
85:L5:1845:U:H2'	85:L5:1846:G:H8	1.71	0.55
85:L5:2516:G:O3'	52:Lg:62:LYS:NZ	2.38	0.55
85:L5:2540:C:H2'	85:L5:2541:G:C8	2.41	0.55
85:L5:4069:U:H2'	85:L5:4070:U:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:L8:140:C:H2'	21:L8:141:C:H6	1.72	0.55
22:LA:108:PRO:HD3	61:Lp:90:LYS:HD2	1.88	0.55
39:LS:173:ASN:OD1	39:LS:174:THR:N	2.39	0.55
65:SD:226:GLN:HE22	75:Sg:224:GLY:HA3	1.71	0.55
67:SK:35:LEU:O	67:SK:37:ASP:N	2.40	0.55
72:SU:41:ARG:O	72:SU:45:GLU:HG2	2.06	0.55
75:Sg:62:HIS:CE1	75:Sg:88:ARG:HH11	2.25	0.55
75:Sg:99:ARG:HH12	75:Sg:135:LEU:HD13	1.72	0.55
79:S2:496:C:H2'	79:S2:497:C:H6	1.71	0.55
79:S2:1084:A:OP1	79:S2:1858:G:O2'	2.22	0.55
79:S2:1523:C:H2'	79:S2:1524:G:H8	1.72	0.55
79:S2:1779:G:H2'	79:S2:1780:G:C8	2.42	0.55
2:sE:63:LYS:O	2:sE:67:GLN:HG2	2.06	0.55
2:sE:108:ARG:NH2	79:s2:847:A:OP1	2.40	0.55
2:sE:121:TYR:HA	2:sE:163:ASP:HA	1.88	0.55
6:sG:73:VAL:HG13	6:sG:75:LEU:HD13	1.88	0.55
6:sG:197:GLN:NE2	6:sG:198:ARG:HB3	2.22	0.55
10:sA:42:LYS:HZ1	10:sA:46:ILE:HD13	1.72	0.55
15:sC:195:LEU:HB2	15:sC:222:CYS:SG	2.47	0.55
16:sN:34:LYS:HZ1	16:sN:67:THR:HB	1.72	0.55
39:lS:9:GLU:HG2	39:lS:67:VAL:HB	1.89	0.55
40:lT:114:GLN:HA	40:lT:117:LYS:HE2	1.87	0.55
40:lT:130:ARG:NE	85:l5:1837:A:OP2	2.34	0.55
50:le:37:LYS:HD3	50:le:55:MET:HE3	1.87	0.55
57:ll:41:ARG:NH2	85:l5:2431:A:OP1	2.40	0.55
63:lz:172:VAL:O	63:lz:173:LYS:HG2	2.06	0.55
64:sR:27:ASP:HB3	79:s2:1455:A:C5'	2.37	0.55
65:sD:162:ASP:H	79:s2:1388:A:N6	2.05	0.55
67:sK:26:ASP:H	67:sK:46:MET:HE1	1.71	0.55
75:sg:10:THR:HG23	75:sg:308:ARG:HB3	1.88	0.55
75:sg:157:SER:HB3	75:sg:164:ILE:HG22	1.88	0.55
79:s2:1010:G:H2'	79:s2:1011:A:C8	2.42	0.55
79:s2:1354:G:H5'	79:s2:1355:C:OP2	2.07	0.55
80:cB:665:ILE:HG13	80:cB:705:HIS:HA	1.89	0.55
84:lt:130:LYS:HE2	84:lt:162:CYS:SG	2.46	0.55
85:l5:3930:U:H3	85:l5:4180:G:H1	1.54	0.55
8:SY:44:LEU:HD11	8:SY:55:ILE:HG21	1.88	0.55
13:SV:59:ILE:HA	13:SV:62:MET:CE	2.24	0.55
16:SN:40:LEU:HD23	16:SN:43:LYS:HD2	1.87	0.55
85:L5:716:C:OP1	24:LC:317:ASN:HB2	2.06	0.55
85:L5:951:G:H2'	85:L5:952:G:C8	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:963:G:O2'	85:L5:964:A:O4'	2.20	0.55
85:L5:3609:G:H2'	85:L5:3610:A:H8	1.72	0.55
85:L5:4233:A:H4'	60:Lo:98:LYS:HE3	1.87	0.55
85:L5:4277:G:H2'	85:L5:4278:C:C6	2.41	0.55
85:L5:4313:A:H1'	40:LT:90:ASN:HD22	1.71	0.55
20:L7:40:U:O2	31:LJ:75:ARG:NE	2.31	0.55
22:LA:242:ARG:NH2	22:LA:243:THR:O	2.39	0.55
23:LB:288:GLY:N	23:LB:330:PHE:O	2.33	0.55
23:LB:389:MET:HA	23:LB:389:MET:HE3	1.89	0.55
24:LC:170:LEU:O	24:LC:170:LEU:HD12	2.07	0.55
27:LF:92:VAL:HG23	27:LF:142:TRP:HB3	1.89	0.55
28:LG:159:HIS:CE1	28:LG:185:LYS:HD2	2.41	0.55
29:LH:166:THR:HG23	29:LH:168:LYS:HD3	1.88	0.55
38:LR:103:ARG:HG2	38:LR:124:TYR:HE2	1.70	0.55
47:Lb:57:MET:SD	47:Lb:57:MET:N	2.79	0.55
48:Lc:19:GLN:O	48:Lc:22:MET:HB2	2.06	0.55
70:SS:2:SER:CB	77:SZ:49:LEU:HD21	2.35	0.55
70:SS:94:LYS:HE2	70:SS:96:SER:HB3	1.88	0.55
71:ST:22:LEU:HD11	71:ST:28:LEU:HG	1.89	0.55
76:SM:62:VAL:O	76:SM:66:GLU:CD	2.50	0.55
79:S2:562:U:H2'	79:S2:563:G:C8	2.40	0.55
79:S2:1037:G:H4'	79:S2:1845:A:H4'	1.89	0.55
79:S2:1354:G:N1	79:S2:1357:A:OP2	2.37	0.55
79:S2:1438:A:H2'	79:S2:1439:A:C8	2.42	0.55
2:sE:56:LEU:H	2:sE:60:GLU:CD	2.15	0.55
9:se:34:ARG:HA	9:se:37:GLN:NE2	2.22	0.55
10:sA:42:LYS:HZ2	10:sA:44:ASP:HB3	1.71	0.55
26:lE:221:LYS:HA	26:lE:237:LYS:HZ1	1.72	0.55
34:lN:160:GLU:OE1	34:lN:160:GLU:N	2.23	0.55
38:lR:21:LYS:HE2	38:lR:55:VAL:HA	1.88	0.55
69:sQ:133:GLY:C	69:sQ:140:ARG:NH2	2.65	0.55
75:sg:125:ARG:HG3	75:sg:150:TRP:CG	2.42	0.55
79:s2:694:G:N7	79:s2:696:G:N2	2.54	0.55
80:cB:251:LYS:HA	80:cB:251:LYS:HE2	1.88	0.55
80:cB:652:PHE:O	80:cB:658:GLY:N	2.39	0.55
85:l5:677:G:H2'	85:l5:678:C:C6	2.42	0.55
85:l5:2467:U:H4'	85:l5:2468:U:H5'	1.89	0.55
85:l5:3861:A:H2'	85:l5:3862:A:C8	2.42	0.55
5:SX:52:LEU:HD12	5:SX:71:ARG:HG3	1.88	0.55
7:SJ:152:ASP:C	7:SJ:152:ASP:OD2	2.48	0.55
14:Sa:100:ARG:HG3	14:Sa:102:ARG:NH2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:SN:4:MET:HE1	79:S2:1024:A:P	2.47	0.55
16:SN:25:TRP:CZ3	19:Sb:82:LYS:HE2	2.42	0.55
85:L5:952:G:H2'	85:L5:953:C:C6	2.42	0.55
85:L5:1460:C:H2'	85:L5:1461:C:H6	1.70	0.55
85:L5:1777:C:H2'	85:L5:1778:C:H6	1.72	0.55
85:L5:1876:U:H2'	85:L5:1877:G:H8	1.72	0.55
85:L5:1950:U:H2'	85:L5:1951:G:C8	2.41	0.55
85:L5:1982:G:N3	85:L5:2009:A:O2'	2.40	0.55
85:L5:2632:U:H2'	85:L5:2633:U:H6	1.72	0.55
85:L5:4459:U:O2'	23:LB:265:SER:OG	2.22	0.55
85:L5:4968:A:OP1	23:LB:120:LYS:N	2.39	0.55
85:L5:4991:U:H2'	85:L5:4992:G:C8	2.41	0.55
21:L8:39:G:OP1	53:Lh:86:LYS:NZ	2.39	0.55
27:LF:171:ASP:OD2	27:LF:172:ASN:N	2.39	0.55
27:LF:177:ARG:O	27:LF:177:ARG:NH1	2.40	0.55
29:LH:112:VAL:HG22	29:LH:128:MET:CE	2.36	0.55
37:LQ:46:VAL:HG12	37:LQ:50:ARG:HD2	1.88	0.55
39:LS:76:LYS:NZ	39:LS:100:LEU:O	2.39	0.55
67:SK:25:LYS:NZ	67:SK:65:ARG:N	2.52	0.55
76:SM:54:SER:HB3	76:SM:78:LYS:HD2	1.88	0.55
79:S2:563:G:O2'	79:S2:564:A:OP1	2.24	0.55
79:S2:1757:G:C8	79:S2:1758:G:H1'	2.42	0.55
87:AT:12:G:N1	87:AT:23:U:O4	2.38	0.55
82:Et:4:C:H2'	82:Et:5:G:C8	2.41	0.55
88:CF:94:GLY:HA2	88:CF:102:MET:HE1	1.88	0.55
88:CF:282:PRO:HG2	88:CF:324:ASN:HA	1.89	0.55
5:sX:87:ASN:ND2	5:sX:134:TYR:CD1	2.75	0.55
8:sY:23:MET:HE1	8:sY:25:ILE:CG2	2.37	0.55
9:se:51:LYS:HZ1	65:sD:117:ARG:NH2	2.02	0.55
14:sa:44:ILE:HG23	14:sa:67:LEU:HB2	1.87	0.55
14:sa:46:GLU:HB2	17:sO:113:GLN:CD	2.30	0.55
17:sO:30:VAL:O	17:sO:45:THR:N	2.39	0.55
19:sb:56:CYS:SG	19:sb:63:LEU:HD11	2.47	0.55
23:lB:300:LYS:CE	23:lB:310:SER:O	2.55	0.55
26:lE:48:PRO:HD2	26:lE:56:ARG:HB3	1.87	0.55
26:lE:60:SER:HB2	85:l5:1239:C:H5	1.72	0.55
37:lQ:180:ARG:HH11	46:la:50:PRO:HG2	1.71	0.55
38:lR:89:MET:HE2	38:lR:89:MET:HA	1.88	0.55
48:lc:20:LEU:O	48:lc:24:SER:OG	2.18	0.55
50:le:91:CYS:O	50:le:93:LYS:N	2.39	0.55
62:lr:114:ALA:O	62:lr:118:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:sQ:12:VAL:HG22	69:sQ:13:PHE:H	1.70	0.55
71:sT:10:ASN:HB2	71:sT:13:GLU:OE2	2.07	0.55
75:sg:62:HIS:ND1	75:sg:82:SER:HB3	2.22	0.55
79:s2:834:C:H42	79:s2:839:C:H42	1.53	0.55
79:s2:1407:U:H2'	79:s2:1408:U:C6	2.42	0.55
80:cB:223:PHE:HB3	80:cB:344:LEU:HD13	1.89	0.55
80:cB:480:VAL:O	80:cB:482:THR:N	2.39	0.55
83:ls:141:LEU:HD23	83:ls:143:ILE:HD11	1.88	0.55
85:l5:1645:C:H2'	85:l5:1646:A:C8	2.41	0.55
3:SI:105:ASP:OD2	3:SI:107:THR:OG1	2.24	0.55
7:SJ:133:ARG:NH2	79:S2:581:U:OP1	2.40	0.55
8:SY:9:THR:H	79:S2:837:A:H61	1.55	0.55
13:SV:70:LEU:HD22	13:SV:71:ARG:NH2	2.09	0.55
85:L5:690:C:H2'	85:L5:691:C:C6	2.42	0.55
85:L5:1308:C:H2'	85:L5:1309:C:C6	2.41	0.55
85:L5:1389:U:OP2	37:LQ:170:LYS:NZ	2.35	0.55
85:L5:1952:G:OP1	39:LS:139:ARG:NE	2.40	0.55
85:L5:2749:C:H2'	85:L5:2750:G:H8	1.71	0.55
85:L5:2781:G:P	43:LX:128:ILE:CD1	2.92	0.55
85:L5:4173:G:H2'	85:L5:4174:U:C6	2.41	0.55
31:LJ:39:VAL:O	31:LJ:43:LEU:N	2.38	0.55
31:LJ:99:PHE:HD1	31:LJ:105:PHE:CB	2.20	0.55
53:Lh:88:THR:HB	53:Lh:91:MET:HG2	1.87	0.55
53:Lh:88:THR:HG22	53:Lh:90:ALA:H	1.72	0.55
61:Lp:21:SER:O	61:Lp:25:MET:HG3	2.07	0.55
74:Sd:56:ASP:OD1	74:Sd:56:ASP:N	2.39	0.55
75:Sg:124:SER:OG	75:Sg:125:ARG:N	2.39	0.55
75:Sg:294:ASP:O	75:Sg:296:GLN:NE2	2.40	0.55
79:S2:1294:G:H3'	79:S2:1295:A:H8	1.72	0.55
79:S2:1524:G:O2'	89:Pt:30:G:OP1	2.24	0.55
79:S2:1633:A:H2'	79:S2:1634:A:C8	2.42	0.55
63:Lz:198:TRP:CH2	63:Lz:202:ARG:HD2	2.41	0.55
4:sL:84:ARG:HB3	79:s2:374:G:H5'	1.89	0.55
6:sG:3:LEU:HB3	6:sG:5:ILE:HD11	1.88	0.55
14:sa:83:VAL:HG23	14:sa:84:VAL:HG13	1.89	0.55
23:lB:150:PHE:CE2	23:lB:198:ARG:HD3	2.41	0.55
23:lB:300:LYS:NZ	23:lB:309:LEU:C	2.65	0.55
26:lE:101:ASN:OD1	26:lE:105:ARG:NH2	2.36	0.55
26:lE:223:ARG:HE	26:lE:234:ASP:HB2	1.71	0.55
31:lJ:96:LYS:HD2	31:lJ:175:LEU:HA	1.89	0.55
32:lL:4:SER:HB2	85:l5:1513:U:H4'	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:sF:97:PHE:CD1	66:sF:108:PRO:HB2	2.41	0.55
72:sU:108:PRO:CD	72:sU:109:GLY:N	2.62	0.55
74:sd:19:ARG:NH2	79:s2:1661:A:OP1	2.40	0.55
75:sg:125:ARG:HG3	75:sg:150:TRP:CD1	2.42	0.55
82:pE:36:U:C2	82:pE:37:A:C8	2.94	0.55
85:l5:1645:C:H2'	85:l5:1646:A:H8	1.72	0.55
11:SB:224:GLU:OE2	11:SB:227:LYS:HG2	2.06	0.55
12:SH:12:ASN:ND2	12:SH:16:PRO:O	2.30	0.55
17:SO:139:SER:HB3	79:S2:983:A:H2	1.71	0.55
85:L5:267:G:H2'	85:L5:268:G:C8	2.41	0.55
85:L5:406:C:O2'	85:L5:407:A:OP1	2.22	0.55
85:L5:517:C:O2'	85:L5:644:G:N2	2.37	0.55
85:L5:717:U:H2'	85:L5:718:C:C6	2.42	0.55
85:L5:1074:G:H3'	85:L5:1075:G:H8	1.71	0.55
85:L5:1342:A:H2'	85:L5:1343:A:C8	2.42	0.55
85:L5:1462:A:O2'	47:Lb:27:GLN:NE2	2.38	0.55
85:L5:1504:G:H2'	85:L5:1505:C:C6	2.42	0.55
85:L5:2021:G:H4'	83:Ls:84:GLY:C	2.32	0.55
85:L5:2078:C:H2'	85:L5:2079:G:C8	2.42	0.55
85:L5:2108:G:H2'	85:L5:2109:G:H8	1.71	0.55
85:L5:2544:G:N1	21:L8:124:U:OP1	2.40	0.55
85:L5:2899:C:OP1	38:LR:108:ARG:NH2	2.38	0.55
85:L5:4419:U:OP1	85:L5:4475:G:N2	2.40	0.55
85:L5:4653:C:H2'	85:L5:4654:C:C6	2.42	0.55
31:LJ:3:GLN:N	31:LJ:5:GLN:OE1	2.39	0.55
38:LR:170:ARG:O	38:LR:174:GLU:HG2	2.06	0.55
46:La:110:LYS:HG3	46:La:128:PHE:HB2	1.87	0.55
49:Ld:24:GLU:OE2	49:Ld:85:ARG:NE	2.39	0.55
51:Lf:104:MET:HB3	51:Lf:106:TYR:CE1	2.42	0.55
79:S2:944:A:H2'	79:S2:945:U:H6	1.72	0.55
79:S2:1676:U:H2'	79:S2:1677:U:O4'	2.07	0.55
82:Et:6:G:H22	82:Et:67:U:H3	1.53	0.55
3:sI:13:LYS:HG3	4:sL:137:THR:HG21	1.89	0.55
20:l7:5:A:OP2	25:lD:27:LYS:NZ	2.34	0.55
20:l7:92:C:H2'	20:l7:93:G:H8	1.72	0.55
24:lC:10:VAL:HA	24:lC:153:VAL:HG23	1.89	0.55
26:lE:192:LYS:HD3	85:l5:711:A:OP1	2.06	0.55
28:lG:180:PRO:HG3	28:lG:219:VAL:HG13	1.88	0.55
36:lP:108:ASP:C	36:lP:108:ASP:OD2	2.49	0.55
36:lP:112:LEU:HD13	36:lP:150:LEU:HD23	1.87	0.55
37:lQ:50:ARG:HH21	37:lQ:140:SER:HB2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:lz:96:ASN:HB2	63:lz:97:LYS:HZ2	1.71	0.55
64:sR:11:LYS:HG3	79:s2:1373:C:C6	2.41	0.55
70:sS:38:ARG:O	70:sS:42:HIS:ND1	2.35	0.55
79:s2:1467:C:C2	79:s2:1468:C:C5	2.95	0.55
80:cB:21:ASN:HB2	80:cB:123:ASP:OD1	2.06	0.55
84:lt:114:ARG:HE	84:lt:133:LEU:HB2	1.71	0.55
85:l5:2633:U:H2'	85:l5:2634:C:H6	1.72	0.55
85:l5:4054:C:H5"	85:l5:4055:U:C5	2.42	0.55
10:SA:155:ARG:NH2	79:S2:1137:U:O3'	2.40	0.55
16:SN:25:TRP:CZ3	19:Sb:82:LYS:CG	2.90	0.55
85:L5:1899:G:O2'	50:Le:57:ASN:ND2	2.39	0.55
85:L5:4323:A:C6	25:LD:153:THR:HG21	2.42	0.55
85:L5:4987:C:P	23:LB:116:ARG:HH22	2.30	0.55
20:L7:95:C:OP1	39:LS:43:ARG:NH1	2.40	0.55
25:LD:232:THR:OG1	25:LD:233:PRO:HD2	2.07	0.55
43:LX:143:ASP:CG	43:LX:144:TYR:CE1	2.85	0.55
44:LY:30:MET:HE1	44:LY:78:TYR:HA	1.89	0.55
48:Lc:22:MET:HE1	48:Lc:27:TYR:CG	2.42	0.55
60:Lo:33:LEU:HD23	60:Lo:34:TYR:HD1	1.71	0.55
67:SK:81:ASP:OD2	67:SK:82:TYR:N	2.39	0.55
75:Sg:5:MET:SD	75:Sg:5:MET:N	2.79	0.55
75:Sg:109:LEU:N	75:Sg:109:LEU:HD22	2.22	0.55
75:Sg:256:ILE:HB	75:Sg:270:LEU:HB3	1.88	0.55
77:SZ:80:ARG:O	79:S2:1598:G:O2'	2.25	0.55
79:S2:388:U:H2'	79:S2:389:A:C8	2.42	0.55
79:S2:479:C:H2'	79:S2:480:G:C8	2.42	0.55
79:S2:696:G:O2'	79:S2:736:C:O2	2.24	0.55
88:CF:410:MET:CG	88:CF:412:VAL:HG13	2.37	0.55
83:Ls:47:LEU:HD12	83:Ls:50:LYS:HB3	1.88	0.55
1:cH:43:LYS:NZ	9:se:46:VAL:HG12	2.22	0.55
6:sG:120:ASP:C	6:sG:121:ILE:HD13	2.32	0.55
10:sA:164:ASN:OD1	10:sA:165:ASN:N	2.40	0.55
15:sC:94:ILE:HD11	15:sC:159:LYS:HB3	1.89	0.55
16:sN:66:VAL:HG13	16:sN:67:THR:HG23	1.89	0.55
19:sb:40:CYS:SG	19:sb:41:TYR:N	2.80	0.55
27:lF:136:VAL:HG23	27:lF:139:TYR:HB2	1.89	0.55
27:lF:202:LYS:NZ	85:l5:1839:U:OP2	2.31	0.55
28:lG:85:GLN:HE22	28:lG:226:TYR:HE1	1.55	0.55
30:lI:61:SER:O	30:lI:65:LEU:HD12	2.07	0.55
41:lU:91:LEU:HB3	41:lU:97:ARG:HG3	1.87	0.55
48:lc:81:LEU:HD22	48:lc:91:VAL:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:sQ:76:GLY:HA3	79:s2:1672:U:O3'	2.07	0.55
73:sc:11:LEU:HD12	73:sc:55:VAL:HG22	1.89	0.55
79:s2:96:C:H2'	79:s2:97:U:C6	2.42	0.55
79:s2:305:U:O2'	79:s2:306:C:OP1	2.25	0.55
80:cB:13:MET:HG3	80:cB:468:ASN:ND2	2.21	0.55
80:cB:436:PRO:HG2	80:cB:492:HIS:HD2	1.72	0.55
84:lt:128:THR:HB	85:l5:1995:G:H4'	1.89	0.55
85:l5:1857:C:H2'	85:l5:1858:A:H8	1.71	0.55
85:l5:4108:G:H2'	85:l5:4109:G:C8	2.43	0.55
10:SA:90:PHE:CD2	10:SA:175:TRP:CE3	2.95	0.55
11:SB:150:ILE:HG23	64:SR:131:PRO:HA	1.89	0.55
13:SV:65:SER:O	13:SV:69:ILE:HG22	2.06	0.55
85:L5:297:U:H2'	85:L5:298:G:C8	2.41	0.55
85:L5:992:C:H2'	85:L5:993:G:C8	2.42	0.55
85:L5:2358:G:H2'	85:L5:2359:U:O4'	2.07	0.55
85:L5:2448:G:OP2	85:L5:2510:G:N1	2.32	0.55
85:L5:2634:C:H2'	85:L5:2635:U:H6	1.71	0.55
85:L5:2745:A:H2'	85:L5:2746:A:C8	2.42	0.55
85:L5:3754:G:H2'	85:L5:3755:G:H8	1.71	0.55
85:L5:3919:C:OP1	22:LA:2:GLY:N	2.40	0.55
85:L5:4563:U:H2'	85:L5:4564:A:H8	1.71	0.55
85:L5:4631:G:H2'	85:L5:4632:U:C6	2.42	0.55
24:LC:262:GLU:N	24:LC:262:GLU:OE1	2.39	0.55
36:LP:36:ILE:HD11	36:LP:44:ALA:HB1	1.89	0.55
37:LQ:93:GLN:HE21	46:La:118:PRO:HB3	1.72	0.55
45:LZ:76:ASN:OD1	45:LZ:77:TYR:N	2.40	0.55
71:ST:47:PRO:HB3	79:S2:1540:G:H5'	1.88	0.55
79:S2:191:A:N6	79:S2:208:G:O2'	2.39	0.55
79:S2:1221:G:H2'	79:S2:1222:G:C8	2.42	0.55
6:sG:145:PHE:CD2	6:sG:156:TYR:HD2	2.26	0.54
8:sY:60:PHE:CD1	8:sY:71:GLY:HA3	2.42	0.54
10:sA:180:ARG:HH12	10:sA:184:ARG:NH2	2.05	0.54
24:lC:84:THR:HG23	24:lC:86:ARG:H	1.71	0.54
27:lF:180:GLY:HA3	85:l5:1705:G:N7	2.22	0.54
31:lJ:111:GLU:OE2	31:lJ:113:ILE:N	2.39	0.54
64:sR:26:ASN:HD22	64:sR:59:LYS:HG2	1.72	0.54
67:sK:16:PHE:CE1	67:sK:91:PRO:HD3	2.42	0.54
67:sK:76:ILE:H	67:sK:76:ILE:HD12	1.70	0.54
75:sg:230:LEU:HD21	75:sg:259:TRP:CD2	2.43	0.54
79:s2:693:A:H2'	79:s2:694:G:C8	2.41	0.54
85:l5:270:U:H2'	85:l5:271:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:SX:98:ASP:OD1	5:SX:140:ARG:NH2	2.39	0.54
5:SX:137:LYS:NZ	79:S2:30:C:O3'	2.40	0.54
8:SY:40:ILE:O	8:SY:44:LEU:HG	2.07	0.54
18:SW:102:ILE:CG2	18:SW:113:HIS:HB3	2.36	0.54
85:L5:261:G:H2'	85:L5:262:G:H8	1.69	0.54
85:L5:1287:G:C2	26:LE:132:PRO:HG3	2.41	0.54
85:L5:1554:A:N6	85:L5:1573:G:H1'	2.22	0.54
85:L5:2386:U:H2'	85:L5:2387:G:H8	1.72	0.54
85:L5:2614:C:O2'	85:L5:2808:G:OP1	2.22	0.54
85:L5:4996:C:H4'	49:Ld:26:THR:HG23	1.88	0.54
25:LD:59:ASP:OD1	25:LD:60:ILE:N	2.38	0.54
25:LD:113:PHE:HB3	25:LD:115:MET:SD	2.48	0.54
26:LE:244:GLU:CA	26:LE:247:LYS:HG3	2.37	0.54
39:LS:159:LEU:HD12	39:LS:172:PRO:HB3	1.89	0.54
47:Lb:55:LYS:HA	47:Lb:58:GLN:NE2	2.19	0.54
67:SK:25:LYS:NZ	67:SK:64:TRP:O	2.30	0.54
84:Lt:19:GLY:HA3	84:Lt:59:THR:HB	1.90	0.54
2:sE:79:ASP:HB3	2:sE:82:TYR:HB2	1.89	0.54
2:sE:123:LEU:HD21	2:sE:159:THR:HB	1.88	0.54
12:sH:130:LEU:O	12:sH:134:VAL:HG12	2.06	0.54
19:sb:31:TYR:OH	19:sb:70:LYS:NZ	2.40	0.54
23:lB:59:GLU:HB2	23:lB:366:LYS:HE2	1.89	0.54
24:lC:66:SER:HA	24:lC:77:PRO:HA	1.89	0.54
26:lE:202:ASP:C	26:lE:202:ASP:OD2	2.50	0.54
29:lH:52:LYS:HZ2	85:l5:758:G:H4'	1.70	0.54
35:lO:10:ASP:OD1	35:lO:37:ARG:NH2	2.37	0.54
38:lR:3:MET:HE3	38:lR:5:ARG:HB2	1.89	0.54
41:lU:60:VAL:HG13	41:lU:61:VAL:H	1.71	0.54
60:lo:9:ARG:NH1	85:l5:4290:U:OP1	2.35	0.54
65:sD:162:ASP:N	79:s2:1388:A:H61	2.05	0.54
77:sZ:41:ARG:HH12	77:sZ:44:LEU:HB3	1.73	0.54
79:s2:530:U:H2'	79:s2:531:A:N9	2.23	0.54
79:s2:556:U:H3'	79:s2:557:U:H4'	1.90	0.54
79:s2:1452:A:O4'	79:s2:1453:C:C2	2.61	0.54
80:cB:488:PHE:CZ	80:cB:490:HIS:HB2	2.43	0.54
83:ls:34:ASN:ND2	85:l5:1968:G:C5'	2.71	0.54
84:lt:50:THR:OG1	84:lt:72:GLU:OE1	2.19	0.54
85:l5:1906:U:H2'	85:l5:1907:A:H8	1.72	0.54
85:l5:2671:C:H2'	85:l5:2672:C:C6	2.43	0.54
85:l5:3965:A:H8	85:l5:4049:U:O2'	1.91	0.54
85:l5:4233:A:C8	85:l5:4235:G:C8	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4239:A:H2'	85:l5:4240:G:C8	2.43	0.54
2:SE:212:ASP:OD2	2:SE:215:GLY:N	2.41	0.54
3:SI:114:GLU:HB3	3:SI:136:ILE:HD13	1.89	0.54
10:SA:66:VAL:HG21	10:SA:185:MET:HG3	1.89	0.54
13:SV:11:LEU:HD23	13:SV:12:TYR:H	1.73	0.54
15:SC:94:ILE:HD11	15:SC:159:LYS:HG2	1.88	0.54
15:SC:149:THR:HG22	15:SC:152:ARG:HH12	1.73	0.54
15:SC:252:THR:OG1	15:SC:254:ASP:OD1	2.18	0.54
85:L5:280:G:OP1	34:LN:47:LYS:NZ	2.39	0.54
85:L5:477:C:H2'	85:L5:478:G:C8	2.41	0.54
85:L5:1403:G:H2'	85:L5:1404:G:C8	2.43	0.54
85:L5:1597:G:P	36:LP:131:ARG:HH21	2.30	0.54
85:L5:1628:C:H2'	85:L5:1629:G:C8	2.42	0.54
85:L5:1695:U:H2'	85:L5:1696:C:C5	2.43	0.54
85:L5:1953:U:H2'	85:L5:1954:U:C6	2.42	0.54
85:L5:2573:A:H2'	85:L5:2574:G:O4'	2.07	0.54
85:L5:3587:C:H2'	85:L5:3588:C:C6	2.42	0.54
28:LG:204:PHE:HE1	28:LG:207:VAL:HG21	1.71	0.54
34:LN:116:LEU:HB3	34:LN:133:ILE:HG23	1.89	0.54
53:Lh:27:GLU:OE2	53:Lh:28:LEU:N	2.40	0.54
67:SK:64:TRP:HB3	74:Sd:23:VAL:HA	1.89	0.54
71:ST:67:ARG:HG2	79:S2:1587:G:O6	2.07	0.54
76:SM:62:VAL:HG23	76:SM:66:GLU:OE2	2.07	0.54
79:S2:888:U:H4'	79:S2:889:U:H5'	1.87	0.54
79:S2:911:C:H2'	79:S2:912:C:O4'	2.08	0.54
79:S2:948:C:H2'	79:S2:949:G:H8	1.72	0.54
79:S2:1438:A:H2'	79:S2:1439:A:H8	1.71	0.54
83:Ls:174:LEU:C	83:Ls:174:LEU:HD23	2.32	0.54
9:se:36:MET:HE1	9:se:40:ARG:HE	1.72	0.54
10:sA:146:ALA:CB	10:sA:157:VAL:HG21	2.37	0.54
11:sB:133:TYR:CD2	11:sB:181:LEU:CD1	2.91	0.54
15:sC:174:ILE:HG13	15:sC:175:GLY:H	1.72	0.54
21:l8:153:C:O2'	28:lG:189:ARG:NH2	2.40	0.54
25:lD:61:ILE:HG23	25:lD:79:TYR:HE1	1.72	0.54
25:lD:200:MET:HE2	25:lD:237:GLU:OE2	2.08	0.54
29:lH:172:ILE:HG13	58:lm:90:ASN:ND2	2.23	0.54
52:lg:37:LYS:NZ	85:l5:2515:G:OP1	2.39	0.54
53:lh:4:ILE:HG21	53:lh:20:GLN:HE22	1.71	0.54
53:lh:81:LEU:HA	53:lh:84:ARG:HD3	1.89	0.54
58:lm:92:ASP:OD1	58:lm:92:ASP:O	2.25	0.54
70:sS:6:PRO:HD2	77:sZ:49:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:sS:36:VAL:HG23	70:sS:40:TYR:HB3	1.89	0.54
72:sU:94:PRO:O	72:sU:94:PRO:CD	2.53	0.54
75:sg:228:TYR:CZ	75:sg:230:LEU:HB2	2.42	0.54
79:s2:191:A:OP2	79:s2:208:G:N2	2.40	0.54
79:s2:528:A:H2'	79:s2:529:A:C8	2.42	0.54
80:cB:395:MET:SD	80:cB:486:THR:HG22	2.48	0.54
84:lt:109:ILE:HD12	84:lt:112:ILE:HD11	1.87	0.54
85:l5:703:G:H2'	85:l5:704:C:H4'	1.88	0.54
85:l5:1092:G:H2'	85:l5:1093:C:H6	1.73	0.54
85:l5:1402:C:N4	85:l5:1415:G:O6	2.40	0.54
85:l5:3970:G:O2'	85:l5:4052:C:N4	2.38	0.54
85:l5:4070:U:H2'	85:l5:4071:U:C6	2.41	0.54
7:SJ:69:ARG:NH2	79:S2:848:U:O2'	2.40	0.54
10:SA:141:ASN:HB2	13:SV:31:SER:O	2.08	0.54
13:SV:27:LYS:NZ	15:SC:162:ILE:O	2.39	0.54
85:L5:956:A:N6	85:L5:1283:G:H1'	2.21	0.54
85:L5:1839:U:H2'	85:L5:1840:G:C8	2.42	0.54
85:L5:3664:G:H2'	85:L5:3665:G:H8	1.72	0.54
85:L5:4099:G:H2'	85:L5:4101:C:H41	1.71	0.54
25:LD:211:LEU:HG	25:LD:219:TYR:HB2	1.88	0.54
29:LH:24:THR:HA	29:LH:37:ASP:HA	1.89	0.54
30:LI:184:MET:HA	30:LI:187:LYS:HZ2	1.72	0.54
33:LM:101:LYS:HB2	35:LO:200:GLY:HA3	1.88	0.54
34:LN:114:ARG:HD2	34:LN:157:LYS:HA	1.88	0.54
37:LQ:8:ASN:OD1	37:LQ:8:ASN:N	2.39	0.54
45:LZ:54:THR:H	45:LZ:57:MET:HE3	1.71	0.54
54:Li:63:VAL:HG13	54:Li:65:LYS:HG2	1.88	0.54
57:Ll:23:ILE:HG21	57:Ll:37:TYR:HA	1.88	0.54
67:SK:28:HIS:NE2	74:Sd:8:TRP:CH2	2.76	0.54
72:SU:66:ARG:HB2	79:S2:1256:G:C8	2.43	0.54
72:SU:106:ILE:HG13	72:SU:107:GLU:H	1.72	0.54
79:S2:957:A:H2'	79:S2:958:G:H8	1.71	0.54
79:S2:979:C:H2'	79:S2:980:A:C8	2.43	0.54
79:S2:1098:C:H2'	79:S2:1099:G:C8	2.42	0.54
79:S2:1407:U:H2'	79:S2:1408:U:C6	2.42	0.54
10:sA:122:LEU:HB3	10:sA:144:THR:HG22	1.89	0.54
11:sB:145:LYS:HG2	11:sB:149:GLN:HB3	1.89	0.54
12:sH:74:LYS:O	12:sH:78:ARG:NH2	2.40	0.54
23:lB:302:ASN:O	23:lB:304:SER:N	2.34	0.54
24:lC:13:GLU:CD	24:lC:157:LYS:CE	2.81	0.54
30:lI:184:MET:HG2	30:lI:189:CYS:SG	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:lO:169:ARG:HH22	85:l5:4860:G:H4'	1.73	0.54
44:lY:87:ARG:NH2	85:l5:405:U:OP1	2.41	0.54
56:lk:22:SER:HB2	56:lk:65:ALA:HB3	1.88	0.54
63:lz:56:LYS:O	63:lz:182:ASN:ND2	2.40	0.54
64:sR:126:MET:HE2	64:sR:129:LYS:CG	2.37	0.54
65:sD:217:ILE:HG13	65:sD:218:LEU:N	2.21	0.54
69:sQ:44:PRO:HB3	79:s2:1592:C:H4'	1.88	0.54
72:sU:72:GLU:C	72:sU:72:GLU:OE1	2.50	0.54
79:s2:388:U:H2'	79:s2:389:A:H8	1.71	0.54
79:s2:1457:U:H2'	79:s2:1458:G:C8	2.42	0.54
80:cB:78:PHE:O	80:cB:79:TYR:CD1	2.61	0.54
80:cB:319:LEU:HD21	80:cB:343:TRP:CD2	2.42	0.54
82:pE:26:A:H2'	82:pE:26:A:N3	2.23	0.54
85:l5:2780:C:H2'	85:l5:2781:G:H8	1.72	0.54
85:l5:4151:G:H2'	85:l5:4152:G:H8	1.71	0.54
2:SE:75:LYS:NZ	79:S2:122:G:OP1	2.39	0.54
4:SL:67:SER:OG	79:S2:114:G:OP2	2.25	0.54
16:SN:139:TRP:HH2	16:SN:149:LEU:HD11	1.71	0.54
18:SW:100:GLY:HA2	18:SW:130:PHE:HB3	1.90	0.54
85:L5:251:C:H2'	85:L5:252:C:C6	2.43	0.54
85:L5:703:G:H2'	85:L5:704:C:H4'	1.90	0.54
85:L5:1199:G:H2'	85:L5:1200:G:H8	1.72	0.54
85:L5:1256:G:H5"	85:L5:1257:A:H8	1.73	0.54
85:L5:1291:G:H2'	85:L5:1292:C:C6	2.43	0.54
85:L5:1406:G:O6	85:L5:1408:G:O2'	2.18	0.54
85:L5:1554:A:H61	85:L5:1573:G:H1'	1.72	0.54
85:L5:1672:U:OP1	47:Lb:7:HIS:ND1	2.33	0.54
85:L5:2111:G:N2	85:L5:2252:G:O4'	2.40	0.54
85:L5:4584:A:H2'	85:L5:4585:U:O4'	2.07	0.54
85:L5:4593:C:H2'	85:L5:4594:U:H6	1.72	0.54
85:L5:4600:G:H1'	85:L5:4601:U:H5	1.73	0.54
85:L5:4989:U:H1'	85:L5:4990:C:H5	1.73	0.54
85:L5:5066:U:H2'	85:L5:5067:U:C6	2.43	0.54
20:L7:57:C:H2'	20:L7:58:A:C8	2.40	0.54
21:L8:28:C:H2'	21:L8:29:G:H8	1.71	0.54
39:LS:15:ARG:HD2	39:LS:25:PRO:HG2	1.88	0.54
43:LX:151:ASN:N	43:LX:156:ILE:CD1	2.70	0.54
62:Lr:45:HIS:HB2	62:Lr:48:THR:HG22	1.89	0.54
68:SP:37:TYR:HE1	68:SP:113:GLY:HA2	1.73	0.54
69:SQ:60:LYS:HD2	69:SQ:60:LYS:H	1.73	0.54
79:S2:944:A:H2'	79:S2:945:U:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1856:C:H2'	79:S2:1857:G:C8	2.41	0.54
82:Et:4:C:H2'	82:Et:5:G:H8	1.72	0.54
1:cH:57:ASN:C	1:cH:59:ALA:H	2.13	0.54
4:sL:86:ILE:N	4:sL:111:VAL:O	2.34	0.54
13:sV:10:ASP:OD1	13:sV:10:ASP:N	2.41	0.54
14:sa:2:THR:OG1	14:sa:3:LYS:N	2.41	0.54
15:sC:171:GLY:HA2	18:sW:98:GLN:HE22	1.72	0.54
22:lA:118:GLU:OE2	85:l5:3681:G:N1	2.40	0.54
34:lN:65:ARG:NH2	85:l5:2457:G:OP1	2.31	0.54
39:lS:93:MET:CE	39:lS:113:MET:HE1	2.37	0.54
42:lV:85:ARG:N	42:lV:101:ASN:OD1	2.40	0.54
66:sF:22:LYS:HG3	66:sF:23:TRP:CG	2.43	0.54
68:sP:119:PHE:CE2	70:sS:118:ARG:HB2	2.43	0.54
79:s2:1845:A:H2'	79:s2:1846:G:C8	2.43	0.54
80:cB:561:LEU:HA	80:cB:565:HIS:HB2	1.90	0.54
83:ls:43:ILE:O	83:ls:47:LEU:HD12	2.08	0.54
83:ls:72:ASN:O	83:ls:72:ASN:OD1	2.25	0.54
85:l5:1414:C:H2'	85:l5:1415:G:C8	2.30	0.54
85:l5:4532:U:OP2	85:l5:4554:G:N1	2.37	0.54
85:l5:4919:G:H2'	85:l5:4920:C:H6	1.72	0.54
86:LW:23:ARG:NH2	42:LV:99:GLU:HG2	2.23	0.54
4:SL:11:GLN:HB3	4:SL:56:ILE:HG21	1.90	0.54
6:SG:217:MET:SD	6:SG:217:MET:C	2.91	0.54
85:L5:1482:G:O6	54:Li:4:ARG:NH1	2.28	0.54
85:L5:1854:G:N2	85:L5:4394:A:O4'	2.40	0.54
85:L5:2823:G:N7	38:LR:20:LYS:NZ	2.43	0.54
85:L5:2884:G:H2'	85:L5:2885:A:C8	2.42	0.54
85:L5:4915:G:H2'	85:L5:4916:G:H8	1.73	0.54
23:LB:140:GLU:OE1	23:LB:140:GLU:N	2.34	0.54
26:LE:244:GLU:HA	26:LE:247:LYS:HD2	1.87	0.54
27:LF:71:MET:HG3	27:LF:82:TYR:CE2	2.42	0.54
30:LI:48:LEU:HD21	30:LI:142:LEU:CD1	2.36	0.54
33:LM:23:LYS:HZ3	33:LM:45:VAL:HG13	1.71	0.54
38:LR:101:ILE:HG22	38:LR:102:LEU:HD23	1.89	0.54
44:LY:53:ASP:OD1	44:LY:53:ASP:N	2.36	0.54
75:Sg:252:THR:HG21	75:Sg:257:LYS:HZ3	1.73	0.54
79:S2:376:A:H2'	79:S2:377:G:O4'	2.08	0.54
79:S2:835:C:H2'	79:S2:837:A:C5	2.43	0.54
79:S2:1220:A:H2'	79:S2:1221:G:O4'	2.08	0.54
88:CF:216:VAL:HG22	88:CF:223:ALA:HB3	1.88	0.54
1:cH:50:LYS:N	1:cH:51:GLN:OE1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:sL:104:LYS:HD3	5:sX:8:ARG:HD2	1.90	0.54
7:sJ:28:GLU:OE2	7:sJ:44:TRP:NE1	2.40	0.54
8:sY:120:THR:OG1	8:sY:123:ALA:HB3	2.08	0.54
9:se:49:PHE:O	9:se:53:LYS:NZ	2.41	0.54
17:sO:13:GLN:OE1	17:sO:15:ILE:HG23	2.08	0.54
26:lE:281:ILE:HD12	26:lE:286:LEU:HD11	1.88	0.54
34:lN:2:GLY:N	85:l5:115:C:OP1	2.41	0.54
65:sD:35:SER:O	65:sD:35:SER:OG	2.25	0.54
72:sU:75:LYS:NZ	79:s2:1252:C:OP1	2.33	0.54
79:s2:537:C:N3	79:s2:548:C:N4	2.55	0.54
85:l5:153:G:H2'	85:l5:154:G:H8	1.72	0.54
85:l5:1183:C:H2'	85:l5:1184:A:H8	1.70	0.54
85:l5:2376:A:H2'	85:l5:2377:C:C6	2.43	0.54
85:l5:2491:C:O2'	85:l5:2492:C:O4'	2.22	0.54
85:l5:2497:C:H2'	85:l5:2498:C:H6	1.73	0.54
85:l5:4918:C:H2'	85:l5:4919:G:C8	2.42	0.54
85:l5:5002:U:H2'	85:l5:5003:U:C6	2.43	0.54
2:SE:132:GLY:N	2:SE:136:ILE:O	2.39	0.54
2:SE:250:GLU:HA	2:SE:253:ASP:HB3	1.89	0.54
7:SJ:128:VAL:O	7:SJ:132:GLN:HB2	2.07	0.54
10:SA:111:GLN:CD	10:SA:111:GLN:H	2.16	0.54
14:Sa:85:ARG:H	79:S2:1866:A:H61	1.56	0.54
15:SC:80:GLU:C	15:SC:80:GLU:OE1	2.50	0.54
18:SW:12:LYS:HE3	79:S2:1152:U:H2'	1.89	0.54
85:L5:1359:G:OP1	24:LC:114:ARG:NH1	2.41	0.54
85:L5:1874:A:H4'	85:L5:4217:G:H22	1.72	0.54
85:L5:2375:A:H2'	85:L5:2376:A:H8	1.72	0.54
85:L5:4239:A:H2'	85:L5:4240:G:C8	2.42	0.54
85:L5:4630:G:H2'	85:L5:4631:G:C8	2.43	0.54
30:LI:169:LYS:O	30:LI:178:ALA:N	2.41	0.54
31:LJ:33:LEU:O	31:LJ:37:ALA:N	2.29	0.54
36:LP:118:GLN:HG2	36:LP:147:GLU:HG2	1.90	0.54
49:Ld:49:ILE:CD1	49:Ld:68:LEU:HD21	2.38	0.54
50:Le:66:THR:O	50:Le:69:MET:HG2	2.08	0.54
64:SR:17:ILE:HG22	64:SR:21:TYR:CE1	2.43	0.54
65:SD:158:ILE:HD13	65:SD:164:VAL:HG22	1.88	0.54
68:SP:17:TYR:CD1	68:SP:18:ARG:HG2	2.42	0.54
70:SS:137:LYS:N	79:S2:1520:G:OP1	2.37	0.54
75:Sg:178:ASN:OD1	75:Sg:182:CYS:N	2.40	0.54
79:S2:674:C:H2'	79:S2:675:U:H6	1.71	0.54
79:S2:804:U:H2'	79:S2:805:U:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:902:G:O2'	79:S2:903:A:O4'	2.26	0.54
79:S2:1585:U:O2'	79:S2:1587:G:OP2	2.26	0.54
87:AT:24:C:H2'	87:AT:25:A:C8	2.43	0.54
1:cH:58:THR:HB	65:sD:113:LEU:HD13	1.90	0.54
2:sE:131:VAL:HA	2:sE:137:PRO:HA	1.88	0.54
6:sG:64:LYS:HZ2	6:sG:82:SER:C	2.16	0.54
7:sJ:64:ASP:OD1	7:sJ:65:GLU:N	2.40	0.54
13:sV:37:ALA:HB1	13:sV:46:PHE:CE1	2.42	0.54
14:sa:53:ILE:CD1	17:sO:120:ALA:HB2	2.36	0.54
21:l8:67:U:H2'	21:l8:68:G:C8	2.40	0.54
24:lC:140:LYS:NZ	24:lC:242:PRO:HD2	2.23	0.54
25:lD:232:THR:CG2	25:lD:235:MET:HE1	2.22	0.54
27:lF:237:GLU:N	27:lF:237:GLU:OE2	2.39	0.54
41:lU:56:LEU:HD13	41:lU:61:VAL:O	2.07	0.54
63:lz:23:ARG:NH2	63:lz:176:ASP:OD1	2.41	0.54
79:s2:5:U:H2'	79:s2:6:G:H8	1.73	0.54
79:s2:1377:U:O2'	79:s2:1379:A:O5'	2.21	0.54
79:s2:1545:A:H2'	79:s2:1546:G:C8	2.43	0.54
79:s2:1705:C:H2'	79:s2:1706:G:C8	2.43	0.54
83:ls:165:ASP:OD1	83:ls:165:ASP:N	2.39	0.54
85:l5:2705:G:H22	85:l5:2710:C:H5	1.54	0.54
86:LW:52:THR:C	86:LW:55:TYR:CD1	2.85	0.54
86:LW:94:ARG:HG2	6:SG:145:PHE:HA	1.89	0.54
4:SL:65:ASN:HB3	79:S2:294:U:N3	2.22	0.54
5:SX:67:ARG:NH2	5:SX:114:ASP:OD2	2.40	0.54
10:SA:42:LYS:HE3	64:SR:101:ASP:OD2	2.07	0.54
13:SV:1:MET:SD	15:SC:254:ASP:HB2	2.48	0.54
15:SC:130:ILE:O	15:SC:138:GLY:N	2.35	0.54
17:SO:146:ARG:NH2	79:S2:1858:G:OP2	2.40	0.54
85:L5:136:C:N4	53:Lh:77:LYS:O	2.40	0.54
85:L5:729:G:H5"	27:LF:76:ARG:HD2	1.89	0.54
85:L5:928:C:H2'	85:L5:929:A:C8	2.42	0.54
85:L5:1950:U:H2'	85:L5:1951:G:H8	1.72	0.54
85:L5:2080:U:H2'	85:L5:2081:C:H6	1.72	0.54
85:L5:2385:U:H2'	85:L5:2386:U:H6	1.72	0.54
85:L5:3868:G:H22	85:L5:3900:G:H1'	1.72	0.54
85:L5:4095:G:H1	85:L5:4114:C:H1'	1.72	0.54
28:LG:180:PRO:HA	28:LG:227:ASN:HD21	1.73	0.54
29:LH:186:THR:OG1	29:LH:187:VAL:N	2.40	0.54
39:LS:85:ASP:OD2	39:LS:85:ASP:N	2.37	0.54
44:LY:26:ARG:O	44:LY:29:ILE:HG22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:SD:159:HIS:ND1	79:S2:1484:A:H4'	2.22	0.54
72:SU:49:LYS:HB2	72:SU:92:HIS:HB2	1.89	0.54
72:SU:65:THR:HG23	72:SU:67:LYS:H	1.72	0.54
79:S2:656:G:H5'	79:S2:662:G:N2	2.23	0.54
79:S2:694:G:H5"	79:S2:730:C:H5	1.73	0.54
2:sE:94:LYS:NZ	8:sY:16:ARG:H	2.05	0.54
11:sB:117:TRP:HB3	11:sB:153:THR:HA	1.90	0.54
11:sB:151:ARG:NE	64:sR:133:GLY:CA	2.61	0.54
12:sH:82:GLU:HA	12:sH:85:LYS:HD2	1.89	0.54
21:l8:70:G:H5"	44:lY:27:ARG:NH1	2.23	0.54
23:lB:78:ILE:HD13	23:lB:314:ILE:HD11	1.90	0.54
34:lN:119:TYR:CE2	34:lN:131:GLU:HB3	2.42	0.54
36:lP:26:PHE:HE2	36:lP:119:VAL:HG23	1.72	0.54
40:lT:108:ARG:O	40:lT:112:ASN:N	2.41	0.54
44:lY:47:MET:HE3	44:lY:48:PRO:HD2	1.89	0.54
44:lY:54:GLU:HA	44:lY:69:LYS:HA	1.88	0.54
67:sK:47:LYS:HE2	79:s2:1274:G:H4'	1.90	0.54
68:sP:86:LEU:HB2	68:sP:89:MET:HE1	1.88	0.54
71:sT:38:LYS:NZ	79:s2:1628:C:OP1	2.40	0.54
75:sg:8:ARG:HH11	75:sg:309:VAL:HG11	1.72	0.54
75:sg:217:MET:HE3	75:sg:219:TRP:CE2	2.43	0.54
79:s2:639:C:H2'	79:s2:640:A:C8	2.42	0.54
79:s2:1413:G:H2'	79:s2:1414:A:H8	1.73	0.54
80:cB:264:ARG:O	80:cB:288:THR:HG23	2.08	0.54
80:cB:628:LEU:O	80:cB:632:ALA:N	2.37	0.54
84:lt:142:ASN:OD1	84:lt:143:VAL:N	2.36	0.54
86:LW:94:ARG:N	86:LW:96:GLN:OE1	2.41	0.54
12:SH:36:LEU:HD21	12:SH:78:ARG:HG2	1.89	0.54
15:SC:73:MET:HE1	15:SC:76:LYS:HB2	1.89	0.54
85:L5:253:G:H2'	85:L5:254:G:C8	2.43	0.54
85:L5:664:G:H2'	85:L5:665:C:H6	1.73	0.54
85:L5:1564:A:H2'	85:L5:1565:A:C8	2.43	0.54
85:L5:2385:U:H2'	85:L5:2386:U:C6	2.43	0.54
85:L5:2628:U:OP1	41:LU:93:LYS:NZ	2.41	0.54
85:L5:3658:C:H2'	85:L5:3659:G:C8	2.42	0.54
85:L5:3661:G:N2	85:L5:3681:G:O2'	2.38	0.54
85:L5:3715:U:O2'	82:Et:71:G:O2'	2.19	0.54
85:L5:4108:G:H2'	85:L5:4109:G:H8	1.73	0.54
85:L5:4406:U:C2	85:L5:4407:G:C8	2.95	0.54
85:L5:4598:C:H2'	85:L5:4611:A:N6	2.22	0.54
24:LC:284:MET:CE	37:LQ:28:LEU:HB3	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:LD:84:PRO:HA	25:LD:88:VAL:O	2.08	0.54
28:LG:112:GLN:HA	28:LG:115:LEU:HD22	1.89	0.54
28:LG:218:LEU:O	28:LG:222:ILE:HG12	2.08	0.54
37:LQ:91:ARG:HG2	46:La:76:ASP:OD2	2.08	0.54
38:LR:72:LYS:HB3	38:LR:74:ARG:NH1	2.23	0.54
39:LS:93:MET:HE1	39:LS:113:MET:HE1	1.90	0.54
43:LX:122:ALA:N	43:LX:139:ARG:O	2.34	0.54
65:SD:29:LEU:HD22	65:SD:34:TYR:HA	1.89	0.54
67:SK:5:LYS:HA	67:SK:8:ARG:HG2	1.89	0.54
68:SP:20:VAL:HG11	68:SP:28:MET:HE1	1.90	0.54
68:SP:129:GLY:N	79:S2:1237:C:O2'	2.39	0.54
75:Sg:217:MET:HE3	75:Sg:219:TRP:CZ2	2.43	0.54
79:S2:291:G:O2'	79:S2:292:A:OP1	2.25	0.54
79:S2:455:A:H2'	79:S2:456:C:H6	1.71	0.54
79:S2:864:A:H2'	79:S2:865:A:H8	1.72	0.54
79:S2:1420:G:O2'	79:S2:1421:A:O4'	2.25	0.54
82:Et:10:G:OP1	82:Et:45:G:O2'	2.25	0.54
82:Et:28:C:H2'	82:Et:29:A:C8	2.41	0.54
88:CF:335:MET:SD	88:CF:336:GLU:HG2	2.48	0.54
89:Pt:29:C:H2'	89:Pt:30:G:H8	1.72	0.54
6:sG:149:LYS:N	6:sG:151:ASP:OD2	2.41	0.54
7:sJ:132:GLN:OE1	79:s2:562:U:O2'	2.17	0.54
8:sY:75:ILE:O	8:sY:75:ILE:HD12	2.07	0.54
10:sA:85:ARG:HH21	10:sA:89:LYS:NZ	2.02	0.54
10:sA:180:ARG:HH12	10:sA:184:ARG:HH21	1.55	0.54
17:sO:61:LYS:NZ	17:sO:80:ASP:OD1	2.31	0.54
22:lA:109:GLU:OE2	22:lA:109:GLU:N	2.40	0.54
24:lC:229:LEU:O	24:lC:230:LEU:HD22	2.07	0.54
28:lG:70:LEU:HD22	28:lG:74:LEU:HD11	1.90	0.54
31:lJ:108:GLY:HA2	31:lJ:129:ASP:HA	1.90	0.54
34:lN:135:ILE:HG21	34:lN:151:ILE:HG21	1.89	0.54
50:le:5:ARG:HH22	85:l5:454:U:H1'	1.71	0.54
64:sR:60:ARG:NH2	79:s2:1463:U:OP1	2.41	0.54
64:sR:94:GLU:O	64:sR:95:ILE:HG13	2.08	0.54
67:sK:13:GLU:O	67:sK:17:LYS:HG2	2.08	0.54
69:sQ:43:GLU:HG3	69:sQ:44:PRO:CD	2.34	0.54
69:sQ:109:LYS:HZ3	69:sQ:113:ILE:HG21	1.73	0.54
70:sS:105:ASN:OD1	70:sS:106:LYS:N	2.40	0.54
75:sg:14:HIS:CE1	75:sg:18:VAL:HG22	2.42	0.54
79:s2:1748:G:O6	79:s2:1786:U:O4	2.25	0.54
79:s2:1758:G:N2	79:s2:1772:C:OP1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:689:GLU:HB2	80:cB:694:GLU:HB3	1.88	0.54
2:SE:139:LEU:HB2	2:SE:150:PRO:HG3	1.89	0.54
2:SE:252:ARG:HD2	2:SE:256:LEU:HG	1.90	0.54
7:SJ:42:GLU:N	7:SJ:42:GLU:OE2	2.40	0.54
18:SW:4:MET:HE1	79:S2:682:U:C2'	2.38	0.54
85:L5:133:C:N4	85:L5:134:G:N3	2.56	0.54
85:L5:222:C:OP2	24:LC:165:LYS:NZ	2.35	0.54
85:L5:299:C:H2'	85:L5:300:A:C8	2.42	0.54
85:L5:677:G:H2'	85:L5:678:C:H6	1.72	0.54
85:L5:739:G:O2'	85:L5:740:G:H5"	2.08	0.54
85:L5:2079:G:H2'	85:L5:2080:U:H6	1.73	0.54
85:L5:4477:A:H4'	29:LH:174:LYS:HD3	1.90	0.54
85:L5:4507:A:H2'	85:L5:4508:C:H6	1.73	0.54
23:LB:182:GLU:OE2	23:LB:182:GLU:N	2.37	0.54
24:LC:347:HIS:O	24:LC:351:VAL:HG23	2.07	0.54
26:LE:174:LEU:HD21	26:LE:217:PHE:CZ	2.43	0.54
26:LE:222:LEU:HB3	26:LE:237:LYS:HD2	1.90	0.54
34:LN:51:LEU:HD13	34:LN:117:ASN:HD21	1.73	0.54
38:LR:177:LEU:HD12	38:LR:180:LYS:HB2	1.89	0.54
44:LY:82:ILE:HB	44:LY:85:VAL:HG22	1.88	0.54
55:Lj:34:CYS:SG	55:Lj:37:CYS:N	2.79	0.54
62:Lr:21:ASN:OD1	62:Lr:23:GLN:NE2	2.41	0.54
64:SR:53:TYR:O	64:SR:57:LEU:HD23	2.08	0.54
65:SD:74:GLN:HA	65:SD:79:PHE:HB2	1.90	0.54
74:Sd:7:TYR:C	74:Sd:8:TRP:HE3	2.15	0.54
79:S2:1351:G:O2'	79:S2:1378:A:N1	2.37	0.54
3:sI:90:LEU:HD22	3:sI:95:THR:HG21	1.90	0.54
8:sY:102:THR:OG1	8:sY:106:GLN:OE1	2.22	0.54
9:se:24:LYS:HD2	9:se:24:LYS:N	2.23	0.54
10:sA:34:MET:HE1	10:sA:162:PRO:HB3	1.89	0.54
10:sA:42:LYS:HG2	10:sA:46:ILE:O	2.08	0.54
25:lD:82:GLU:OE2	25:lD:108:ARG:NH2	2.38	0.54
26:lE:145:THR:O	26:lE:148:THR:HG23	2.08	0.54
33:lM:37:LEU:HD12	39:lS:75:VAL:HG23	1.89	0.54
41:lU:19:LEU:HD23	41:lU:19:LEU:H	1.71	0.54
53:lh:98:HIS:ND1	85:l5:137:G:H5"	2.23	0.54
62:lr:98:ARG:NH1	85:l5:2262:G:OP2	2.25	0.54
75:sg:100:ARG:HH22	79:s2:1400:U:P	2.30	0.54
75:sg:200:VAL:HG22	75:sg:207:CYS:HB3	1.90	0.54
79:s2:520:A:O2'	79:s2:825:A:N3	2.40	0.54
79:s2:609:U:H2'	79:s2:610:G:H8	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:834:VAL:O	80:cB:838:THR:OG1	2.17	0.54
83:ls:44:ARG:NH1	85:l5:1997:U:H4'	2.23	0.54
85:l5:512:U:H3	85:l5:647:G:H1	1.55	0.54
85:l5:513:U:O2	85:l5:515:C:H3'	2.08	0.54
86:LW:8:PHE:CZ	86:LW:45:ASN:C	2.86	0.54
15:SC:114:LYS:HD2	79:S2:1358:U:H5'	1.89	0.54
15:SC:178:HIS:HB3	15:SC:200:ARG:HH11	1.73	0.54
85:L5:418:A:C2	21:L8:17:A:H1'	2.43	0.54
85:L5:499:G:H2'	85:L5:504:G:H22	1.72	0.54
85:L5:935:A:O2'	33:LM:44:GLN:O	2.21	0.54
85:L5:1085:C:H2'	85:L5:1086:C:C6	2.42	0.54
85:L5:1464:C:H5"	47:Lb:32:LEU:HD21	1.88	0.54
85:L5:1846:G:H2'	85:L5:1847:C:C6	2.43	0.54
85:L5:4098:A:N1	85:L5:4112:C:N4	2.56	0.54
85:L5:4186:A:H2'	85:L5:4187:G:H8	1.73	0.54
20:L7:49:A:H5"	25:LD:224:SER:HB2	1.89	0.54
21:L8:27:U:H2'	21:L8:28:C:C6	2.42	0.54
25:LD:212:MET:HE1	25:LD:219:TYR:CG	2.43	0.54
27:LF:216:PRO:CA	27:LF:247:MET:SD	2.96	0.54
31:LJ:4:ASP:N	31:LJ:4:ASP:OD1	2.41	0.54
34:LN:123:GLU:HG3	34:LN:124:ASP:N	2.18	0.54
38:LR:45:ILE:HD13	38:LR:50:ILE:HB	1.89	0.54
43:LX:150:ALA:C	43:LX:156:ILE:CD1	2.81	0.54
45:LZ:33:THR:OG1	45:LZ:35:ASP:OD1	2.25	0.54
65:SD:7:LYS:HZ2	65:SD:10:LYS:HE3	1.73	0.54
69:SQ:84:ILE:O	69:SQ:88:ILE:HG23	2.08	0.54
74:Sd:12:ARG:NH1	79:S2:1513:C:OP1	2.40	0.54
79:S2:26:U:H2'	79:S2:27:A:H8	1.73	0.54
79:S2:204:G:H2'	79:S2:205:G:O4'	2.08	0.54
79:S2:1231:C:H42	79:S2:1527:C:N4	2.05	0.54
1:cH:43:LYS:CE	9:se:45:VAL:HA	2.31	0.53
10:sA:200:ASP:HB2	64:sR:86:PRO:HG2	1.88	0.53
11:sB:151:ARG:CB	64:sR:133:GLY:H	2.17	0.53
12:sH:162:GLN:HB3	12:sH:165:ASN:HB3	1.90	0.53
15:sC:79:GLU:N	15:sC:79:GLU:OE1	2.40	0.53
20:l7:110:G:H2'	20:l7:111:C:C6	2.43	0.53
21:l8:96:C:OP1	53:lh:70:ARG:NH1	2.42	0.53
25:lD:54:ARG:HB2	25:lD:61:ILE:HB	1.91	0.53
38:lR:128:LYS:NZ	85:l5:2666:U:O4	2.41	0.53
45:lZ:3:LYS:NZ	48:lc:40:GLN:O	2.32	0.53
64:sR:53:TYR:CZ	79:s2:1466:G:C5	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:sK:3:MET:HE1	67:sK:48:ALA:HB2	1.89	0.53
67:sK:5:LYS:HE2	79:s2:1313:A:OP1	2.09	0.53
79:s2:558:G:H1'	79:s2:559:G:C8	2.43	0.53
79:s2:931:C:H2'	79:s2:932:G:C8	2.42	0.53
80:cB:23:SER:HB2	80:cB:122:THR:HG21	1.90	0.53
85:l5:1397:A:HO2'	85:l5:1467:C:HO2'	1.55	0.53
85:l5:1762:C:C4	85:l5:1770:A:C2	2.96	0.53
85:l5:3641:U:H5	85:l5:3646:A:N7	2.06	0.53
85:l5:4163:U:H5'	85:l5:4164:C:H5"	1.89	0.53
11:SB:171:ILE:HA	11:SB:174:ARG:HG2	1.89	0.53
13:SV:53:TYR:OH	13:SV:76:ASP:OD1	2.26	0.53
15:SC:66:LEU:HD21	15:SC:81:ILE:HD11	1.90	0.53
16:SN:37:ILE:HG23	16:SN:50:ILE:HG21	1.89	0.53
85:L5:1995:G:H4'	84:Lt:128:THR:HB	1.89	0.53
85:L5:4739:C:H2'	85:L5:4740:G:H5'	1.90	0.53
85:L5:4922:C:C4	85:L5:4923:C:N4	2.76	0.53
21:L8:47:C:H1'	21:L8:61:A:H2'	1.88	0.53
45:LZ:92:ASP:CG	45:LZ:94:THR:HG1	2.16	0.53
60:Lo:43:ARG:O	60:Lo:46:SER:OG	2.22	0.53
70:SS:92:ASP:OD2	70:SS:94:LYS:HG2	2.08	0.53
71:ST:112:MET:SD	71:ST:123:LEU:HD22	2.48	0.53
75:Sg:131:LEU:HD21	75:Sg:140:TYR:HB2	1.89	0.53
76:SM:52:LEU:O	76:SM:79:VAL:HG12	2.09	0.53
79:S2:974:C:H2'	79:S2:975:G:H8	1.73	0.53
79:S2:1858:G:H2'	79:S2:1859:A:H8	1.73	0.53
84:Lt:16:ARG:HE	84:Lt:17:CYS:H	1.55	0.53
2:sE:51:ARG:NH2	2:sE:109:PHE:O	2.31	0.53
10:sA:85:ARG:CZ	10:sA:89:LYS:HZ1	2.21	0.53
15:sC:252:THR:O	15:sC:256:TRP:CE3	2.61	0.53
28:lG:138:ALA:O	28:lG:142:THR:OG1	2.23	0.53
30:lI:49:GLY:O	30:lI:168:SER:OG	2.27	0.53
30:lI:65:LEU:HD12	30:lI:65:LEU:H	1.73	0.53
34:lN:124:ASP:OD1	34:lN:125:SER:N	2.40	0.53
35:lO:3:GLU:N	35:lO:3:GLU:OE1	2.41	0.53
45:lZ:103:ASP:OD2	45:lZ:106:LEU:CG	2.49	0.53
46:la:145:VAL:HG23	54:li:5:TYR:CZ	2.42	0.53
75:sg:217:MET:HB3	75:sg:219:TRP:HE1	1.73	0.53
75:sg:242:SER:HB2	75:sg:245:ARG:O	2.08	0.53
78:sf:105:TYR:O	78:sf:117:LEU:CD1	2.34	0.53
79:s2:530:U:O2'	79:s2:553:U:O4	2.26	0.53
79:s2:980:A:H2'	79:s2:981:A:C8	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1217:A:H2'	79:s2:1218:C:H6	1.72	0.53
79:s2:1407:U:H2'	79:s2:1408:U:H6	1.72	0.53
79:s2:1757:G:C8	79:s2:1758:G:H1'	2.43	0.53
80:cB:13:MET:CE	80:cB:465:PRO:HD2	2.38	0.53
81:aP:1:G:H2'	81:aP:2:U:C6	2.42	0.53
82:pE:23:A:H2'	82:pE:24:G:C8	2.43	0.53
85:l5:1478:C:H2'	85:l5:1479:G:H8	1.73	0.53
85:l5:4092:G:H2'	85:l5:4093:G:N3	2.23	0.53
85:l5:4743:G:H2'	85:l5:4744:A:H8	1.72	0.53
5:SX:17:ARG:O	5:SX:21:LYS:HG3	2.07	0.53
10:SA:12:GLU:O	10:SA:15:VAL:HG12	2.09	0.53
10:SA:29:ASN:OD1	10:SA:30:LEU:N	2.42	0.53
10:SA:131:HIS:O	10:SA:135:THR:OG1	2.26	0.53
11:SB:31:TYR:HE2	11:SB:49:VAL:HG12	1.72	0.53
16:SN:46:THR:O	16:SN:50:ILE:HG13	2.08	0.53
17:SO:103:ASN:ND2	17:SO:140:THR:O	2.33	0.53
17:SO:143:LYS:HB3	79:S2:1047:C:H5'	1.90	0.53
18:SW:93:LEU:HD23	18:SW:102:ILE:HD11	1.91	0.53
85:L5:758:G:H4'	29:LH:51:LYS:HE2	1.90	0.53
85:L5:1175:A:H2	85:L5:1185:G:H1	1.55	0.53
85:L5:1364:U:O2	24:LC:234:LYS:NZ	2.40	0.53
85:L5:1513:U:H4'	32:LL:4:SER:HB2	1.89	0.53
85:L5:2303:C:O2'	85:L5:2332:A:N1	2.38	0.53
85:L5:2624:G:N7	41:LU:88:LYS:NZ	2.56	0.53
85:L5:3951:G:H2'	85:L5:3952:A:C8	2.43	0.53
85:L5:4481:U:H2'	85:L5:4482:U:H6	1.73	0.53
21:L8:18:U:H2'	21:L8:19:C:C6	2.44	0.53
22:LA:140:ASN:HB2	22:LA:142:GLU:CD	2.33	0.53
31:LJ:96:LYS:CD	31:LJ:175:LEU:HD12	2.37	0.53
32:LL:91:ALA:HB1	32:LL:96:ILE:HB	1.88	0.53
37:LQ:7:HIS:ND1	37:LQ:10:ASP:OD2	2.37	0.53
37:LQ:122:THR:N	37:LQ:125:GLN:OE1	2.31	0.53
45:LZ:4:PHE:HE1	48:Lc:67:ALA:HB2	1.71	0.53
45:LZ:97:ASN:ND2	45:LZ:99:ASP:OD2	2.41	0.53
46:La:76:ASP:OD1	46:La:76:ASP:C	2.51	0.53
64:SR:21:TYR:CZ	64:SR:61:ILE:HD12	2.43	0.53
64:SR:27:ASP:O	64:SR:30:THR:OG1	2.20	0.53
65:SD:150:MET:HE3	65:SD:150:MET:N	2.24	0.53
75:Sg:70:VAL:CG1	75:Sg:113:PHE:CZ	2.91	0.53
79:S2:655:A:H4'	79:S2:656:G:H3'	1.90	0.53
63:Lz:128:LEU:HD22	63:Lz:133:LYS:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:sI:141:ARG:NH2	79:s2:192:C:OP2	2.37	0.53
7:sJ:135:ILE:HD11	7:sJ:157:ILE:HG22	1.90	0.53
7:sJ:161:LEU:HA	7:sJ:167:GLY:H	1.74	0.53
8:sY:28:LEU:HD12	8:sY:68:LYS:NZ	2.22	0.53
9:se:50:GLY:HA3	9:se:53:LYS:HZ2	1.73	0.53
12:sH:130:LEU:HB3	12:sH:177:TYR:HE2	1.72	0.53
18:sW:114:GLU:OE1	18:sW:118:ARG:NH2	2.39	0.53
27:lF:155:TYR:OH	27:lF:188:GLU:OE2	2.25	0.53
31:lJ:114:ASP:OD1	31:lJ:114:ASP:N	2.42	0.53
41:lU:105:ASN:OD1	41:lU:106:SER:N	2.40	0.53
42:lV:50:ASN:ND2	85:l5:4457:U:OP1	2.41	0.53
43:lX:124:VAL:HG13	43:lX:138:VAL:HG12	1.90	0.53
49:ld:92:ARG:HG2	49:ld:94:GLU:CD	2.32	0.53
66:sF:49:LEU:HD12	66:sF:50:PRO:HD2	1.90	0.53
68:sP:111:MET:CE	70:sS:117:ILE:HD11	2.33	0.53
71:sT:56:ARG:O	71:sT:60:THR:HG22	2.07	0.53
75:sg:87:LEU:CB	75:sg:101:PHE:HD2	2.20	0.53
79:s2:1098:C:H2'	79:s2:1099:G:C8	2.44	0.53
79:s2:1344:A:H3'	79:s2:1371:U:OP1	2.08	0.53
81:aP:26:G:N1	81:aP:44:A:C2	2.74	0.53
85:l5:2102:G:H1'	85:l5:2103:G:C8	2.44	0.53
2:SE:31:PRO:HA	2:SE:81:THR:OG1	2.09	0.53
2:SE:250:GLU:OE1	2:SE:250:GLU:N	2.38	0.53
10:SA:42:LYS:HE2	10:SA:42:LYS:CA	2.31	0.53
85:L5:152:U:C2	85:L5:153:G:C8	2.97	0.53
85:L5:490:C:N4	85:L5:491:G:O6	2.42	0.53
85:L5:654:C:H2'	85:L5:655:C:C6	2.44	0.53
85:L5:684:G:HO2'	26:LE:101:ASN:CG	2.16	0.53
85:L5:734:G:H22	85:L5:929:A:H2	1.56	0.53
85:L5:1238:A:O2'	27:LF:48:LYS:NZ	2.41	0.53
85:L5:1406:G:N1	85:L5:1411:C:O2'	2.28	0.53
85:L5:1604:G:H2'	85:L5:1605:G:C8	2.43	0.53
85:L5:2285:A:H2'	85:L5:2286:G:C8	2.42	0.53
85:L5:3589:G:N2	85:L5:3590:G:N7	2.57	0.53
85:L5:3599:A:H2'	85:L5:3600:G:C8	2.43	0.53
85:L5:3736:A:H2'	85:L5:3737:A:C8	2.44	0.53
85:L5:4723:A:H2'	85:L5:4724:A:C8	2.43	0.53
23:LB:222:VAL:O	23:LB:343:ARG:NH1	2.41	0.53
28:LG:50:ASP:HB2	43:LX:40:ILE:HD11	1.91	0.53
29:LH:5:LEU:HD22	29:LH:60:TRP:CH2	2.44	0.53
29:LH:92:MET:SD	29:LH:180:TYR:N	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:Lh:23:ASP:OD1	53:Lh:23:ASP:N	2.40	0.53
54:Li:40:VAL:O	54:Li:44:ILE:HG22	2.09	0.53
71:ST:5:THR:HG22	71:ST:7:LYS:H	1.71	0.53
71:ST:88:MET:HE3	71:ST:89:PRO:CD	2.34	0.53
77:SZ:84:ALA:C	77:SZ:88:LEU:HD12	2.33	0.53
79:S2:496:C:H2'	79:S2:497:C:C6	2.43	0.53
79:S2:1688:C:H2'	79:S2:1689:C:C6	2.43	0.53
88:CF:155:MET:HE1	88:CF:193:ILE:C	2.32	0.53
83:Ls:122:THR:OG1	83:Ls:159:GLN:NE2	2.42	0.53
4:sL:81:LYS:HD2	79:s2:394:G:H5'	1.90	0.53
10:sA:17:LYS:HE3	10:sA:176:TRP:CZ3	2.44	0.53
11:sB:111:CYS:SG	14:sa:68:TYR:HD1	2.31	0.53
12:sH:60:ILE:HG12	12:sH:62:ILE:HD11	1.88	0.53
14:sa:51:ARG:HH12	73:sc:40:ARG:NE	2.06	0.53
24:lC:46:LYS:NZ	85:l5:2341:A:OP1	2.41	0.53
30:lI:170:LYS:HA	30:lI:177:ASN:HA	1.89	0.53
34:lN:120:TRP:CZ2	34:lN:122:GLY:HA2	2.43	0.53
35:lO:65:ASN:OD1	35:lO:67:SER:OG	2.26	0.53
45:lZ:112:ARG:NH2	85:l5:2573:A:H1'	2.23	0.53
46:la:72:THR:HG22	46:la:110:LYS:HB3	1.90	0.53
53:lh:67:GLU:C	53:lh:67:GLU:OE1	2.52	0.53
64:sR:30:THR:N	79:s2:1455:A:OP1	2.41	0.53
64:sR:41:ILE:HG13	64:sR:41:ILE:O	2.09	0.53
64:sR:100:PRO:HG2	64:sR:122:PRO:HG3	1.89	0.53
67:sK:11:ILE:HD11	67:sK:45:VAL:HG23	1.88	0.53
68:sP:107:ILE:HA	68:sP:111:MET:HE3	1.89	0.53
70:sS:105:ASN:O	70:sS:108:ARG:N	2.41	0.53
76:sM:52:LEU:HB3	76:sM:78:LYS:HZ3	1.74	0.53
79:s2:72:C:H2'	79:s2:73:C:C2	2.43	0.53
79:s2:681:U:O2'	79:s2:1160:U:OP1	2.25	0.53
80:cB:616:ASP:OD2	80:cB:639:TYR:OH	2.22	0.53
82:pE:42:G:H2'	82:pE:43:A:H8	1.74	0.53
83:ls:36:GLY:HA2	85:l5:1969:G:H4'	1.91	0.53
86:LW:33:ASN:OD1	86:LW:34:ALA:N	2.41	0.53
4:SL:71:ARG:NH2	79:S2:855:G:O2'	2.42	0.53
7:SJ:124:HIS:CG	9:Se:35:ARG:HD2	2.44	0.53
10:SA:7:VAL:HG12	10:SA:8:LEU:HD22	1.90	0.53
10:SA:198:MET:SD	10:SA:198:MET:N	2.75	0.53
15:SC:211:LYS:C	15:SC:215:MET:HE3	2.34	0.53
17:SO:27:VAL:HG13	17:SO:90:ILE:HD12	1.89	0.53
85:L5:491:G:H5'	24:LC:2:ALA:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1569:U:H2'	85:L5:1570:G:C8	2.43	0.53
85:L5:1701:A:OP1	85:L5:1703:C:N4	2.23	0.53
85:L5:1765:A:OP2	85:L5:1769:G:N2	2.41	0.53
85:L5:1833:G:N2	85:L5:1835:G:O4'	2.41	0.53
85:L5:1980:U:H1'	85:L5:1981:G:H3'	1.90	0.53
85:L5:3722:G:H2'	85:L5:3723:A:H8	1.73	0.53
85:L5:3964:U:O2'	85:L5:4048:A:N1	2.40	0.53
85:L5:4129:G:OP1	45:LZ:55:ALA:N	2.42	0.53
85:L5:4892:A:H2'	85:L5:4893:A:O4'	2.08	0.53
21:L8:90:C:H2'	21:L8:91:A:H8	1.73	0.53
21:L8:92:U:H2'	21:L8:93:C:O4'	2.08	0.53
32:LL:172:GLU:OE2	54:Li:2:ALA:CA	2.54	0.53
35:LO:51:LYS:HA	35:LO:141:LEU:HD11	1.91	0.53
46:La:7:LYS:HE3	46:La:11:LEU:HD11	1.91	0.53
56:Lk:67:LYS:HD2	56:Lk:68:GLU:N	2.24	0.53
64:SR:18:GLU:HA	64:SR:70:SER:HB3	1.89	0.53
72:SU:31:SER:O	72:SU:35:VAL:HG23	2.08	0.53
75:Sg:109:LEU:H	75:Sg:124:SER:HA	1.74	0.53
11:sB:168:MET:HB2	11:sB:197:ILE:HD12	1.90	0.53
50:le:5:ARG:CZ	85:l5:454:U:H1'	2.37	0.53
52:lg:94:ALA:O	52:lg:98:GLU:HG2	2.09	0.53
58:lm:100:TYR:OH	85:l5:4425:G:OP1	2.24	0.53
60:lo:3:ASN:O	85:l5:4232:U:H5"	2.09	0.53
64:sR:1:MET:SD	64:sR:2:GLY:N	2.64	0.53
64:sR:47:ARG:NH2	79:s2:1388:A:O3'	2.42	0.53
68:sP:60:LEU:HD13	68:sP:89:MET:HG3	1.89	0.53
72:sU:38:ASP:OD2	72:sU:38:ASP:C	2.52	0.53
75:sg:5:MET:HE1	75:sg:312:VAL:HG22	1.91	0.53
79:s2:529:A:N1	79:s2:555:A:N6	2.56	0.53
79:s2:609:U:H2'	79:s2:610:G:C8	2.43	0.53
79:s2:656:G:H21	79:s2:663:C:H5"	1.73	0.53
79:s2:943:U:C2	79:s2:944:A:C8	2.97	0.53
80:cB:650:TRP:CE2	80:cB:676:LYS:HG3	2.43	0.53
85:l5:666:G:HO2'	85:l5:667:A:H8	1.55	0.53
85:l5:1942:A:H2'	85:l5:1943:A:C8	2.43	0.53
85:l5:1942:A:H2'	85:l5:1943:A:H8	1.73	0.53
7:SJ:115:PHE:CD1	7:SJ:123:ILE:HB	2.44	0.53
19:Sb:56:CYS:SG	19:Sb:61:THR:OG1	2.67	0.53
85:L5:99:A:OP1	34:LN:195:ARG:NH2	2.42	0.53
85:L5:420:A:H61	21:L8:15:G:H1'	1.73	0.53
85:L5:497:G:H22	85:L5:658:C:H42	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1095:A:H2	85:L5:1200:G:C2	2.24	0.53
85:L5:1175:A:OP1	25:LD:268:ARG:NH2	2.42	0.53
85:L5:1535:C:H5"	55:Lj:10:LYS:HG3	1.91	0.53
85:L5:1977:C:O2'	85:L5:1978:C:OP1	2.27	0.53
85:L5:4040:C:OP1	85:L5:4045:G:N2	2.41	0.53
85:L5:4236:G:H2'	85:L5:4237:C:C6	2.43	0.53
85:L5:4586:G:O6	85:L5:4717:A:N6	2.40	0.53
20:L7:110:G:H2'	20:L7:111:C:C6	2.44	0.53
21:L8:25:G:H2'	21:L8:26:C:C6	2.43	0.53
25:LD:39:GLN:NE2	25:LD:46:THR:OG1	2.42	0.53
41:LU:72:VAL:HG12	41:LU:72:VAL:O	2.07	0.53
42:LV:77:HIS:CB	42:LV:105:ILE:HD11	2.38	0.53
44:LY:88:GLU:HG3	44:LY:94:THR:HG22	1.88	0.53
45:LZ:81:MET:HE1	48:Lc:63:TYR:CE1	2.36	0.53
48:Lc:13:SER:HB3	48:Lc:17:ARG:HH22	1.73	0.53
52:Lg:104:VAL:O	52:Lg:108:LYS:HG2	2.08	0.53
66:SF:93:VAL:O	66:SF:97:PHE:HB2	2.08	0.53
67:SK:5:LYS:O	67:SK:8:ARG:HG2	2.07	0.53
71:ST:62:ARG:HH22	79:S2:1543:U:P	2.32	0.53
71:ST:108:GLU:OE2	71:ST:121:ARG:NH1	2.36	0.53
75:Sg:46:THR:N	75:Sg:52:TYR:O	2.42	0.53
78:Sf:103:LEU:HB2	78:Sf:105:TYR:CE2	2.43	0.53
87:AT:63:C:H2'	87:AT:64:G:C8	2.42	0.53
63:Lz:207:LYS:NZ	63:Lz:213:PRO:HA	2.21	0.53
8:sY:20:ARG:NH2	8:sY:22:GLN:HE21	2.04	0.53
10:sA:124:VAL:HG22	10:sA:126:ASP:H	1.73	0.53
11:sB:167:LYS:HZ1	11:sB:200:ALA:C	2.17	0.53
15:sC:253:PRO:CA	15:sC:256:TRP:CZ3	2.91	0.53
21:l8:25:G:H2'	21:l8:26:C:H6	1.73	0.53
21:l8:62:A:OP1	53:lh:52:LYS:NZ	2.38	0.53
21:l8:90:C:H1'	44:lY:24:HIS:HB3	1.90	0.53
23:lB:382:MET:HE1	85:l5:5000:G:O3'	2.09	0.53
24:lC:294:LYS:NZ	85:l5:2089:G:OP2	2.41	0.53
48:lc:104:ILE:HG22	48:lc:106:ARG:HH11	1.73	0.53
52:lg:56:VAL:HG23	52:lg:72:LYS:HA	1.90	0.53
62:lr:94:ARG:HG3	62:lr:111:ILE:HD11	1.90	0.53
64:sR:3:ARG:NH1	79:s2:1467:C:H1'	2.24	0.53
64:sR:42:PRO:HA	79:s2:1388:A:C8	2.44	0.53
65:sD:23:GLU:OE2	65:sD:27:ARG:NE	2.33	0.53
66:sF:124:ASP:O	66:sF:139:VAL:N	2.27	0.53
74:sd:44:ARG:NH2	79:s2:1336:C:O3'	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1144:A:H2'	79:s2:1145:A:C8	2.44	0.53
80:cB:712:ASP:HB2	80:cB:715:HIS:HE1	1.72	0.53
83:ls:34:ASN:OD1	85:l5:1968:G:O4'	2.26	0.53
85:l5:1302:U:H3'	85:l5:1303:A:H8	1.73	0.53
85:l5:1406:G:H1	85:l5:1411:C:HO2'	1.52	0.53
85:l5:1461:C:H2'	85:l5:1462:A:C8	2.44	0.53
85:l5:2539:C:H2'	85:l5:2540:C:C6	2.43	0.53
85:l5:2558:C:H2'	85:l5:2559:G:H8	1.73	0.53
85:l5:3948:C:H5"	85:l5:3949:A:OP1	2.08	0.53
86:LW:8:PHE:CD1	86:LW:46:PRO:HD3	2.44	0.53
2:SE:45:ILE:HG23	2:SE:46:ILE:HG23	1.90	0.53
3:SI:140:LYS:NZ	79:S2:192:C:OP1	2.41	0.53
12:SH:76:GLN:HG3	12:SH:135:PHE:HD1	1.73	0.53
15:SC:107:LEU:N	15:SC:127:PHE:O	2.39	0.53
18:SW:102:ILE:HG22	18:SW:113:HIS:CG	2.44	0.53
85:L5:104:G:C2	85:L5:105:A:C8	2.97	0.53
85:L5:406:C:H2'	85:L5:407:A:C8	2.44	0.53
85:L5:1315:C:N4	85:L5:1316:G:O6	2.42	0.53
85:L5:2274:C:H5"	24:LC:312:ARG:HB3	1.90	0.53
85:L5:2389:A:H2'	85:L5:2390:G:H8	1.74	0.53
85:L5:4676:G:OP1	23:LB:281:ASN:ND2	2.33	0.53
85:L5:4716:C:H2'	85:L5:4717:A:H8	1.73	0.53
23:LB:246:ARG:O	23:LB:250:LYS:NZ	2.38	0.53
26:LE:148:THR:HB	26:LE:200:LYS:HE3	1.90	0.53
41:LU:45:GLU:N	41:LU:45:GLU:OE1	2.41	0.53
70:SS:20:ILE:HD13	70:SS:30:ILE:HA	1.91	0.53
79:S2:77:A:H2'	79:S2:78:C:C6	2.44	0.53
79:S2:653:A:H2'	79:S2:654:A:O4'	2.07	0.53
79:S2:1845:A:H2'	79:S2:1846:G:C8	2.43	0.53
1:cH:31:ARG:O	1:cH:31:ARG:NH1	2.42	0.53
1:cH:48:GLN:CD	1:cH:48:GLN:H	2.16	0.53
2:sE:155:LYS:HG2	2:sE:174:LYS:NZ	2.24	0.53
15:sC:98:LEU:HD12	15:sC:102:LEU:HD22	1.91	0.53
20:l7:11:A:N7	40:lT:20:ARG:NH1	2.54	0.53
20:l7:54:A:H1'	31:lJ:13:ARG:HG3	1.90	0.53
23:lB:103:LYS:NZ	85:l5:4725:C:OP1	2.42	0.53
30:lI:55:ASP:O	30:lI:56:GLU:HG2	2.09	0.53
41:lU:82:TYR:HD2	85:l5:2631:U:H1'	1.72	0.53
48:lc:39:ARG:NH1	48:lc:63:TYR:OH	2.41	0.53
48:lc:79:ILE:HD11	61:lp:43:GLY:HA2	1.90	0.53
56:lk:26:LYS:NZ	85:l5:2696:A:OP1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:sU:54:VAL:HB	72:sU:88:LEU:HG	1.89	0.53
79:s2:942:G:H2'	79:s2:943:U:C6	2.44	0.53
80:cB:301:PHE:HE1	80:cB:340:MET:HE1	1.74	0.53
85:l5:184:U:O2'	85:l5:189:G:O4'	2.24	0.53
9:Se:41:ARG:HG3	9:Se:42:PHE:CD1	2.43	0.53
10:SA:42:LYS:HE2	64:SR:101:ASP:OD2	2.09	0.53
85:L5:110:C:OP1	32:LL:92:ARG:NH1	2.42	0.53
85:L5:947:C:OP1	24:LC:336:ARG:NH1	2.41	0.53
85:L5:1243:C:H2'	85:L5:1244:G:H8	1.74	0.53
85:L5:1865:G:P	30:LI:98:ARG:HH21	2.32	0.53
85:L5:2730:U:H2'	85:L5:2731:C:C6	2.43	0.53
85:L5:3690:U:H2'	85:L5:3691:G:O4'	2.09	0.53
85:L5:3871:A:H2'	85:L5:3872:A:C8	2.44	0.53
85:L5:4631:G:H2'	85:L5:4632:U:H6	1.74	0.53
85:L5:4642:U:H2'	85:L5:4643:G:H8	1.72	0.53
85:L5:4695:C:H2'	85:L5:4696:C:O4'	2.09	0.53
85:L5:5027:C:O2'	85:L5:5028:G:H5"	2.08	0.53
33:LM:29:ASP:OD2	33:LM:66:HIS:ND1	2.34	0.53
36:LP:118:GLN:NE2	36:LP:120:ASN:OD1	2.38	0.53
50:Le:92:ASN:HD22	50:Le:120:ILE:HD13	1.74	0.53
51:Lf:41:PHE:O	51:Lf:45:LYS:NZ	2.37	0.53
60:Lo:96:ASP:OD1	60:Lo:96:ASP:C	2.52	0.53
70:SS:102:GLY:O	70:SS:106:LYS:HG2	2.09	0.53
75:Sg:30:MET:SD	75:Sg:42:MET:HE1	2.49	0.53
75:Sg:175:LYS:HB3	75:Sg:177:TRP:HE1	1.72	0.53
88:CF:43:GLU:OE1	88:CF:55:LYS:NZ	2.24	0.53
88:CF:116:VAL:HG23	88:CF:152:VAL:HG23	1.91	0.53
3:sI:67:TRP:HD1	3:sI:70:GLU:H	1.56	0.53
6:sG:215:LYS:NZ	6:sG:215:LYS:O	2.35	0.53
7:sJ:45:ARG:NH1	79:s2:521:A:OP1	2.40	0.53
8:sY:34:THR:OG1	79:s2:570:C:O2	2.27	0.53
11:sB:87:ILE:H	11:sB:101:HIS:HB2	1.73	0.53
12:sH:12:ASN:ND2	12:sH:16:PRO:O	2.39	0.53
15:sC:116:THR:OG1	15:sC:117:ARG:N	2.42	0.53
15:sC:252:THR:CA	15:sC:256:TRP:HZ3	2.21	0.53
39:lS:85:ASP:HB3	39:lS:90:THR:HB	1.91	0.53
41:lU:46:ARG:O	41:lU:86:LEU:HD11	2.09	0.53
50:le:48:ARG:NH2	85:l5:2279:A:O2'	2.42	0.53
62:lr:90:LEU:HG	62:lr:111:ILE:HG23	1.91	0.53
63:lz:85:MET:HE3	63:lz:90:LEU:HA	1.90	0.53
64:sR:43:SER:HB2	79:s2:1387:G:C5'	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:sQ:112:LEU:CD1	69:sQ:119:LEU:HD12	2.38	0.53
74:sd:19:ARG:O	74:sd:27:ARG:NH1	2.42	0.53
79:s2:587:A:N3	79:s2:590:A:H2'	2.22	0.53
80:cB:111:PHE:HE2	80:cB:500:SER:H	1.55	0.53
85:l5:2079:G:H2'	85:l5:2080:U:C6	2.44	0.53
5:SX:130:LEU:HD23	5:SX:131:LEU:H	1.74	0.53
11:SB:30:TRP:CZ3	17:SO:19:PRO:CD	2.90	0.53
85:L5:189:G:H2'	85:L5:190:G:C8	2.44	0.53
85:L5:694:C:H4'	26:LE:226:ARG:HH22	1.74	0.53
85:L5:2293:U:H2'	85:L5:2294:G:C8	2.44	0.53
85:L5:2838:G:H2'	85:L5:2839:U:C6	2.44	0.53
85:L5:3596:A:HO2'	38:LR:143:HIS:CE1	2.27	0.53
85:L5:3619:G:H22	85:L5:3624:A:H1'	1.74	0.53
85:L5:4097:G:O6	85:L5:4098:A:N6	2.42	0.53
85:L5:4947:U:H2'	85:L5:4948:C:C6	2.44	0.53
22:LA:20:VAL:HA	22:LA:23:ARG:HG3	1.91	0.53
34:LN:160:GLU:OE1	34:LN:160:GLU:N	2.37	0.53
52:Lg:48:VAL:O	61:Lp:61:MET:HG2	2.09	0.53
53:Lh:87:LYS:HD3	53:Lh:91:MET:HE2	1.91	0.53
67:SK:25:LYS:HZ1	67:SK:66:HIS:N	2.05	0.53
72:SU:26:SER:OG	72:SU:109:GLY:O	2.15	0.53
75:Sg:199:THR:HG21	75:Sg:239:LEU:O	2.09	0.53
77:SZ:67:LEU:HG	77:SZ:72:VAL:HG11	1.90	0.53
79:S2:872:A:O2'	79:S2:873:G:O5'	2.24	0.53
79:S2:1548:G:H2'	79:S2:1549:U:C6	2.44	0.53
5:sX:66:ILE:HG12	79:s2:616:A:OP1	2.09	0.53
8:sY:34:THR:HG23	79:s2:581:U:H1'	1.90	0.53
11:sB:146:ARG:HG2	64:sR:135:VAL:HG22	1.89	0.53
11:sB:151:ARG:HB2	64:sR:132:ARG:NE	2.22	0.53
11:sB:227:LYS:O	11:sB:230:GLU:OE2	2.27	0.53
12:sH:178:LYS:HD3	12:sH:182:GLY:HA2	1.90	0.53
16:sN:46:THR:HG21	16:sN:86:GLU:HG2	1.91	0.53
25:lD:238:GLU:HG3	25:lD:242:LYS:HE2	1.91	0.53
26:lE:218:LYS:O	26:lE:220:LYS:NZ	2.36	0.53
27:lF:96:ARG:HG3	27:lF:139:TYR:HA	1.90	0.53
36:lP:83:TRP:O	85:l5:3856:A:H5"	2.08	0.53
45:lZ:21:ARG:NH1	45:lZ:47:ASP:OD1	2.42	0.53
64:sR:42:PRO:HD2	79:s2:1387:G:N7	2.24	0.53
66:sF:77:MET:HE1	66:sF:86:LYS:CB	2.38	0.53
69:sQ:72:VAL:HG11	69:sQ:80:GLN:HG2	1.90	0.53
71:sT:33:TRP:CH2	79:s2:1567:G:H5'	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:sg:26:GLN:HE22	75:sg:73:SER:C	2.16	0.53
79:s2:367:U:H4'	79:s2:371:A:C8	2.44	0.53
80:cB:27:HIS:HD2	80:cB:138:GLN:H	1.56	0.53
80:cB:463:ASP:OD1	80:cB:463:ASP:C	2.52	0.53
85:l5:1:C:H4'	85:l5:2:G:O4'	2.09	0.53
85:l5:2809:G:O2'	85:l5:4644:G:OP1	2.24	0.53
85:l5:4049:U:O4'	85:l5:4051:C:N4	2.41	0.53
2:SE:64:ILE:HD11	2:SE:69:PHE:HE1	1.73	0.53
85:L5:466:A:H2'	85:L5:467:U:C6	2.44	0.53
85:L5:715:G:OP1	24:LC:321:ASN:ND2	2.38	0.53
85:L5:1759:G:O6	85:L5:1773:U:O2	2.26	0.53
85:L5:1870:C:H2'	85:L5:1871:A:C8	2.44	0.53
85:L5:1998:A:O2'	85:L5:1999:A:O4'	2.16	0.53
85:L5:2293:U:H2'	85:L5:2294:G:H8	1.73	0.53
85:L5:2570:U:H2'	85:L5:2571:C:C6	2.44	0.53
85:L5:2580:U:OP1	45:LZ:36:ARG:NH1	2.38	0.53
29:LH:176:LEU:HD12	29:LH:176:LEU:N	2.24	0.53
37:LQ:99:LYS:HE3	37:LQ:121:LEU:HD11	1.91	0.53
44:LY:88:GLU:N	44:LY:88:GLU:OE1	2.42	0.53
49:Ld:33:ILE:HD11	49:Ld:45:ALA:HA	1.90	0.53
60:Lo:76:ASN:O	60:Lo:78:ARG:NH1	2.41	0.53
65:SD:55:THR:HA	65:SD:58:VAL:HG12	1.89	0.53
68:SP:39:ALA:N	79:S2:1613:G:OP2	2.41	0.53
79:S2:186:C:H2'	79:S2:187:G:C8	2.44	0.53
79:S2:1801:A:H2'	79:S2:1802:C:H6	1.74	0.53
88:CF:54:PHE:HB3	88:CF:57:ALA:HB3	1.91	0.53
88:CF:178:ILE:HA	88:CF:181:ILE:HB	1.89	0.53
63:Lz:205:TYR:CD1	63:Lz:207:LYS:HD3	2.44	0.53
11:sB:144:LYS:HB3	11:sB:208:HIS:HB3	1.90	0.53
25:lD:232:THR:H	25:lD:235:MET:HE3	1.74	0.53
25:lD:272:SER:OG	25:lD:273:LEU:N	2.40	0.53
28:lG:210:GLU:N	28:lG:210:GLU:OE1	2.41	0.53
41:lU:91:LEU:HD22	41:lU:96:LEU:CB	2.35	0.53
53:lh:97:LYS:O	53:lh:101:ASN:ND2	2.42	0.53
77:sZ:47:LEU:HD21	77:sZ:79:ILE:CG1	2.39	0.53
79:s2:656:G:H5'	79:s2:662:G:N2	2.24	0.53
79:s2:1782:G:H2'	79:s2:1784:G:C4	2.44	0.53
80:cB:174:LEU:HD12	80:cB:178:PHE:CE1	2.44	0.53
80:cB:401:MET:CE	80:cB:529:LYS:HD2	2.39	0.53
80:cB:436:PRO:HG2	80:cB:492:HIS:CD2	2.44	0.53
85:l5:408:A:O2'	85:l5:411:G:OP2	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:965:G:N2	85:l5:2092:G:H1'	2.24	0.53
85:l5:1345:A:H2'	85:l5:1346:C:C6	2.44	0.53
85:l5:1700:G:C8	85:l5:2097:U:H1'	2.44	0.53
85:l5:2017:A:O2'	85:l5:2018:C:H6	1.92	0.53
85:l5:3911:C:H2'	85:l5:3912:U:H6	1.73	0.53
85:l5:4699:U:H1'	85:l5:4700:A:H5"	1.89	0.53
86:LW:37:GLU:O	86:LW:41:LEU:HB2	2.09	0.53
6:SG:35:GLU:HG2	6:SG:114:VAL:HG11	1.91	0.53
8:SY:60:PHE:CD1	8:SY:71:GLY:HA3	2.44	0.53
11:SB:184:VAL:HA	11:SB:187:LYS:NZ	2.24	0.53
18:SW:42:MET:SD	18:SW:47:ILE:HG13	2.49	0.53
18:SW:71:LYS:NZ	79:S2:1155:U:O3'	2.41	0.53
85:L5:123:C:H2'	85:L5:124:C:H6	1.74	0.53
85:L5:683:C:H2'	85:L5:684:G:O4'	2.10	0.53
85:L5:2533:C:OP1	43:LX:123:LYS:NZ	2.35	0.53
85:L5:2759:G:O6	45:LZ:64:LYS:NZ	2.42	0.53
85:L5:2851:G:H2'	85:L5:2852:U:O4'	2.09	0.53
85:L5:3607:U:H2'	85:L5:3608:A:C8	2.39	0.53
85:L5:4088:C:H2'	85:L5:4089:G:C8	2.43	0.53
85:L5:4184:G:H5'	22:LA:233:ARG:HB2	1.91	0.53
85:L5:4466:C:H2'	85:L5:4467:A:H8	1.73	0.53
29:LH:96:TYR:HB3	29:LH:101:ILE:HG13	1.90	0.53
38:LR:148:ASP:OD2	38:LR:151:ARG:NH1	2.41	0.53
62:Lr:21:ASN:O	62:Lr:23:GLN:NE2	2.40	0.53
68:SP:108:LYS:HB3	68:SP:111:MET:HG3	1.91	0.53
68:SP:108:LYS:HD2	68:SP:109:PRO:HD2	1.91	0.53
79:S2:106:C:OP1	79:S2:431:G:O2'	2.24	0.53
79:S2:455:A:H2'	79:S2:456:C:C6	2.43	0.53
79:S2:691:G:N1	79:S2:692:G:N3	2.57	0.53
79:S2:1181:A:H2'	79:S2:1182:A:C8	2.44	0.53
79:S2:1204:A:N6	79:S2:1693:G:C6	2.76	0.53
88:CF:437:VAL:HG23	88:CF:439:LYS:NZ	2.23	0.53
1:cH:53:SER:HA	9:se:59:SER:H	1.72	0.52
14:sa:82:LYS:NZ	79:s2:1210:G:OP1	2.35	0.52
17:sO:31:CYS:HA	17:sO:44:VAL:HA	1.91	0.52
22:lA:207:VAL:HG23	22:lA:208:GLU:HG3	1.91	0.52
23:lB:29:VAL:HG12	23:lB:31:SER:H	1.74	0.52
25:lD:107:ARG:NH1	25:lD:120:GLU:O	2.42	0.52
25:lD:208:MET:SD	25:lD:226:TYR:CD2	3.02	0.52
26:lE:252:ALA:O	26:lE:255:SER:OG	2.27	0.52
29:lH:150:ASP:OD1	29:lH:152:GLU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:lI:3:ARG:HD2	30:lI:63:GLU:OE1	2.08	0.52
31:lJ:68:ILE:HD13	31:lJ:68:ILE:N	2.23	0.52
31:lJ:113:ILE:HG12	31:lJ:119:TYR:HA	1.89	0.52
64:sR:45:LYS:HB3	79:s2:1369:A:H62	1.74	0.52
79:s2:12:U:H2'	79:s2:13:C:H6	1.71	0.52
79:s2:569:A:H2'	79:s2:570:C:O4'	2.09	0.52
79:s2:1413:G:H2'	79:s2:1414:A:C8	2.43	0.52
80:cB:829:SER:O	80:cB:832:SER:OG	2.20	0.52
81:aP:1:G:H2'	81:aP:2:U:H6	1.74	0.52
82:pE:43:A:H2'	82:pE:44:G:C8	2.44	0.52
85:l5:2108:G:H2'	85:l5:2109:G:C8	2.44	0.52
85:l5:3786:U:OP1	85:l5:4550:G:O2'	2.26	0.52
3:SI:70:GLU:OE2	3:SI:117:TYR:OH	2.26	0.52
6:SG:33:ALA:HA	6:SG:51:ARG:HD3	1.89	0.52
18:SW:111:MET:CE	18:SW:115:GLU:C	2.82	0.52
19:Sb:38:PRO:HD3	19:Sb:77:CYS:SG	2.50	0.52
85:L5:286:U:H2'	85:L5:287:U:C6	2.44	0.52
85:L5:328:A:H2'	85:L5:329:A:C8	2.45	0.52
85:L5:356:G:N1	85:L5:360:A:OP2	2.42	0.52
85:L5:468:U:O2	85:L5:686:A:N6	2.33	0.52
85:L5:921:C:H2'	85:L5:922:C:C6	2.44	0.52
85:L5:1307:A:H2'	85:L5:1308:C:C6	2.44	0.52
85:L5:2046:G:O2'	85:L5:2047:A:N7	2.40	0.52
85:L5:2046:G:C4	35:LO:60:LYS:HD2	2.44	0.52
85:L5:3911:C:H2'	85:L5:3912:U:H6	1.74	0.52
21:L8:44:A:H2'	21:L8:45:C:C6	2.44	0.52
24:LC:66:SER:HA	24:LC:77:PRO:HA	1.91	0.52
28:LG:204:PHE:HE1	28:LG:207:VAL:HG22	1.74	0.52
30:LI:170:LYS:HA	30:LI:177:ASN:HA	1.91	0.52
33:LM:33:GLN:HG2	33:LM:33:GLN:O	2.07	0.52
34:LN:22:LEU:HD22	34:LN:26:ARG:HH21	1.74	0.52
41:LU:19:LEU:HA	41:LU:74:SER:H	1.74	0.52
41:LU:86:LEU:O	41:LU:90:TYR:N	2.42	0.52
66:SF:68:ILE:HD12	66:SF:71:ARG:HB2	1.89	0.52
75:Sg:52:TYR:CD1	75:Sg:309:VAL:HG11	2.43	0.52
75:Sg:251:ALA:HA	75:Sg:256:ILE:HD13	1.89	0.52
76:SM:11:VAL:HG22	76:SM:15:ASN:HB3	1.91	0.52
79:S2:1372:U:OP2	79:S2:1385:G:N1	2.42	0.52
10:sA:21:ALA:HB2	64:sR:91:LEU:HD13	1.91	0.52
11:sB:123:ALA:HB2	11:sB:165:ARG:HG3	1.90	0.52
14:sa:41:ILE:O	14:sa:41:ILE:HG23	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:l7:38:U:N3	20:l7:41:G:OP2	2.25	0.52
24:lC:116:ASN:HD21	85:l5:1506:G:H21	1.55	0.52
25:lD:208:MET:CG	25:lD:223:PHE:HD2	2.17	0.52
32:lL:36:ARG:NH2	85:l5:1364:U:OP2	2.25	0.52
35:lO:61:ARG:HH12	85:l5:4587:G:H5"	1.74	0.52
41:lU:24:ASP:OD2	41:lU:24:ASP:C	2.50	0.52
42:lV:90:ARG:NH2	42:lV:123:LYS:HB3	2.24	0.52
47:lb:103:LYS:HB3	85:l5:1707:C:C2	2.45	0.52
54:li:99:LYS:HE2	54:li:103:LYS:NZ	2.25	0.52
63:lz:147:LYS:HE2	63:lz:151:VAL:H	1.75	0.52
64:sR:41:ILE:HA	79:s2:1387:G:N7	2.24	0.52
70:sS:75:ARG:NH1	70:sS:95:TYR:HB2	2.25	0.52
74:sd:46:TYR:O	74:sd:50:ILE:HD12	2.10	0.52
76:sM:76:LEU:HD23	76:sM:77:ILE:N	2.25	0.52
79:s2:63:U:O2'	79:s2:170:A:N3	2.40	0.52
79:s2:1593:C:H2'	79:s2:1594:A:H8	1.73	0.52
79:s2:1856:C:H2'	79:s2:1857:G:H8	1.74	0.52
85:l5:267:G:H2'	85:l5:268:G:H8	1.74	0.52
85:l5:3923:A:H2'	85:l5:3924:C:C6	2.44	0.52
5:SX:49:GLY:HA2	5:SX:74:LEU:HA	1.91	0.52
6:SG:162:LEU:O	6:SG:167:LYS:NZ	2.42	0.52
8:SY:108:LYS:NZ	79:S2:506:G:OP1	2.31	0.52
10:SA:189:ILE:HG22	10:SA:191:ARG:H	1.73	0.52
12:SH:63:PHE:HA	12:SH:95:ILE:O	2.10	0.52
85:L5:280:G:H5"	34:LN:14:LYS:NZ	2.25	0.52
85:L5:305:A:OP2	34:LN:15:GLN:NE2	2.42	0.52
85:L5:908:G:H2'	85:L5:909:A:C8	2.44	0.52
85:L5:1080:C:C2	85:L5:1220:G:N2	2.78	0.52
85:L5:1085:C:H2'	85:L5:1086:C:H6	1.73	0.52
85:L5:1974:U:H4'	85:L5:1975:G:H3'	1.89	0.52
85:L5:3700:C:O2'	85:L5:3774:A:N3	2.33	0.52
85:L5:4102:C:H41	85:L5:4107:G:H8	1.57	0.52
85:L5:4674:C:H2'	85:L5:4675:U:C6	2.44	0.52
21:L8:25:G:H2'	21:L8:26:C:H6	1.73	0.52
29:LH:112:VAL:HG22	29:LH:128:MET:HE1	1.92	0.52
32:LL:8:MET:HE1	37:LQ:168:ARG:CA	2.37	0.52
33:LM:126:GLU:HA	33:LM:129:LYS:HE2	1.91	0.52
34:LN:123:GLU:OE2	34:LN:128:LYS:HE3	2.09	0.52
44:LY:58:VAL:HG23	44:LY:59:ARG:HG2	1.90	0.52
45:LZ:16:GLY:O	45:LZ:19:SER:OG	2.27	0.52
48:Lc:54:ALA:HA	48:Lc:57:LYS:HE3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:SD:98:ALA:HB1	65:SD:186:VAL:HG23	1.91	0.52
79:S2:186:C:H2'	79:S2:187:G:H8	1.74	0.52
79:S2:223:C:H2'	79:S2:224:A:C8	2.43	0.52
79:S2:329:G:H2'	79:S2:330:G:C8	2.43	0.52
79:S2:359:U:H3	79:S2:403:G:H1	1.57	0.52
79:S2:996:A:H2'	79:S2:997:A:C8	2.44	0.52
79:S2:1004:U:H2'	79:S2:1005:G:C8	2.44	0.52
79:S2:1112:U:O2	79:S2:1121:G:O6	2.27	0.52
79:S2:1279:C:H2'	79:S2:1280:G:C8	2.44	0.52
88:CF:24:THR:HA	88:CF:27:LEU:HD12	1.90	0.52
3:sI:44:HIS:ND1	79:s2:1740:C:OP1	2.39	0.52
4:sL:4:ILE:HD11	4:sL:54:THR:HG23	1.91	0.52
5:sX:67:ARG:NH1	79:s2:617:G:N7	2.49	0.52
6:sG:7:PHE:HE1	6:sG:113:ILE:HD13	1.75	0.52
10:sA:104:THR:O	10:sA:107:THR:HG23	2.10	0.52
10:sA:141:ASN:HB2	13:sV:31:SER:O	2.09	0.52
12:sH:143:ARG:HD3	18:sW:53:ILE:HA	1.91	0.52
15:sC:253:PRO:HA	15:sC:256:TRP:CZ3	2.41	0.52
16:sN:18:TYR:HE2	18:sW:55:ASP:HA	1.73	0.52
16:sN:50:ILE:N	16:sN:50:ILE:HD13	2.25	0.52
28:lG:205:THR:HG22	28:lG:206:GLN:OE1	2.09	0.52
34:lN:123:GLU:O	34:lN:124:ASP:HB2	2.09	0.52
40:lT:41:ASP:OD2	40:lT:99:SER:HB2	2.09	0.52
55:lj:25:LYS:HD2	57:ll:51:LEU:HA	1.91	0.52
60:lo:98:LYS:HE3	85:l5:4233:A:H4'	1.91	0.52
68:sP:81:ARG:HB2	68:sP:117:GLY:HA3	1.92	0.52
71:sT:13:GLU:HA	71:sT:16:ARG:HD3	1.90	0.52
78:sf:95:ARG:HH22	79:s2:1305:C:H3'	1.72	0.52
79:s2:420:G:O2'	79:s2:421:G:OP1	2.27	0.52
79:s2:1320:G:H2'	79:s2:1321:G:O4'	2.09	0.52
81:aP:19:G:O4'	81:aP:57:G:N2	2.42	0.52
85:l5:1846:G:H2'	85:l5:1847:C:C6	2.44	0.52
85:l5:4957:C:H2'	85:l5:4958:C:C6	2.44	0.52
85:l5:4988:U:O2'	85:l5:4989:U:OP2	2.25	0.52
5:SX:23:HIS:ND1	79:S2:1165:G:OP2	2.41	0.52
11:SB:140:VAL:O	11:SB:210:VAL:HG23	2.09	0.52
16:SN:46:THR:HG23	16:SN:49:GLN:HE21	1.75	0.52
17:SO:47:LEU:HD22	17:SO:47:LEU:H	1.74	0.52
85:L5:173:C:H2'	85:L5:174:C:C6	2.44	0.52
85:L5:1324:A:H61	85:L5:3875:G:HO2'	1.56	0.52
85:L5:1621:A:H2'	85:L5:1622:U:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3768:U:OP1	79:S2:1059:G:O2'	2.21	0.52
85:L5:4052:C:N4	63:Lz:33:GLU:OE2	2.28	0.52
85:L5:4286:C:H2'	85:L5:4287:G:C8	2.45	0.52
85:L5:4759:C:H2'	85:L5:4760:G:C8	2.45	0.52
85:L5:4913:G:H4'	85:L5:4914:C:O5'	2.08	0.52
85:L5:4980:C:N3	36:LP:69:ARG:NH2	2.55	0.52
20:L7:92:C:H2'	20:L7:93:G:C8	2.41	0.52
31:LJ:24:ILE:HD12	31:LJ:36:ALA:HB1	1.90	0.52
35:LO:10:ASP:OD2	35:LO:37:ARG:NH2	2.33	0.52
38:LR:44:LEU:HA	38:LR:47:ASP:HB2	1.91	0.52
53:Lh:22:ASP:OD1	53:Lh:22:ASP:C	2.50	0.52
68:SP:30:TYR:O	68:SP:34:MET:HG2	2.10	0.52
70:SS:102:GLY:HA2	70:SS:105:ASN:HD21	1.75	0.52
72:SU:23:THR:HA	72:SU:88:LEU:HA	1.92	0.52
78:Sf:87:THR:O	78:Sf:87:THR:HG23	2.09	0.52
79:S2:21:U:H2'	79:S2:22:A:C8	2.45	0.52
79:S2:1269:G:H2'	79:S2:1270:G:C8	2.44	0.52
79:S2:1387:G:H3'	79:S2:1388:A:H8	1.75	0.52
79:S2:1398:G:H22	79:S2:1448:A:H2	1.57	0.52
79:S2:1620:A:H1'	79:S2:1624:U:OP2	2.09	0.52
1:cH:36:GLU:N	1:cH:36:GLU:OE1	2.42	0.52
2:sE:42:LEU:HG	2:sE:46:ILE:HD11	1.92	0.52
2:sE:94:LYS:HD3	8:sY:16:ARG:HB2	1.91	0.52
12:sH:31:GLU:O	12:sH:32:MET:HE3	2.09	0.52
20:l7:12:U:OP2	20:l7:67:C:O2'	2.27	0.52
21:l8:144:U:H2'	21:l8:145:C:C6	2.44	0.52
27:lF:32:ARG:HH21	85:l5:1701:A:H61	1.57	0.52
33:lM:69:HIS:HB2	85:l5:919:C:OP1	2.10	0.52
36:lP:40:HIS:NE2	36:lP:110:ASP:O	2.24	0.52
40:lT:128:LEU:HD23	85:l5:1834:U:C2	2.45	0.52
64:sR:28:PHE:CD1	79:s2:1456:G:N7	2.78	0.52
79:s2:508:A:H3'	79:s2:509:G:H8	1.74	0.52
79:s2:963:A:H2'	79:s2:964:A:H8	1.75	0.52
85:l5:1698:C:H3'	85:l5:1699:A:O4'	2.08	0.52
85:l5:2250:C:H2'	85:l5:2251:G:C8	2.45	0.52
85:l5:2749:C:H2'	85:l5:2750:G:C8	2.44	0.52
85:l5:4063:U:H2'	85:l5:4064:C:N1	2.25	0.52
85:l5:4070:U:H2'	85:l5:4071:U:H6	1.75	0.52
85:l5:4239:A:H2'	85:l5:4240:G:H8	1.73	0.52
85:l5:4970:C:C2	85:l5:4971:A:C8	2.98	0.52
86:LW:32:LEU:HD23	86:LW:33:ASN:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SL:105:ARG:NE	79:S2:355:G:OP1	2.40	0.52
9:Se:41:ARG:HG3	9:Se:42:PHE:HD1	1.74	0.52
10:SA:136:GLU:OE2	79:S2:1378:A:N6	2.42	0.52
85:L5:1415:G:H2'	85:L5:1416:G:H8	1.74	0.52
85:L5:1751:A:H2'	85:L5:1752:G:H8	1.74	0.52
85:L5:1946:G:O2'	85:L5:1948:G:OP2	2.23	0.52
85:L5:3772:U:H3'	85:L5:3773:U:C5'	2.38	0.52
85:L5:3783:A:C8	85:L5:3792:G:C8	2.98	0.52
21:L8:89:U:H2'	21:L8:90:C:C6	2.43	0.52
24:LC:111:TRP:CD1	24:LC:111:TRP:H	2.27	0.52
39:LS:92:ASN:ND2	40:LT:156:TYR:O	2.41	0.52
42:LV:45:ILE:CD1	42:LV:53:PRO:CB	2.85	0.52
77:SZ:99:LEU:HG	77:SZ:109:TYR:CE1	2.45	0.52
79:S2:1706:G:O2'	79:S2:1850:A:O3'	2.27	0.52
63:Lz:95:LYS:HD3	63:Lz:127:GLY:HA3	1.91	0.52
24:lC:65:GLU:HB2	24:lC:80:ARG:HH21	1.74	0.52
27:lF:59:LYS:NZ	85:l5:1213:G:OP1	2.42	0.52
27:lF:124:LYS:HG3	27:lF:197:VAL:HG11	1.92	0.52
39:lS:85:ASP:OD2	39:lS:85:ASP:N	2.43	0.52
65:sD:218:LEU:HD21	75:sg:189:ILE:HD13	1.83	0.52
66:sF:43:GLU:HA	66:sF:46:ALA:HB2	1.92	0.52
74:sd:14:PHE:CZ	79:s2:1617:G:H4'	2.43	0.52
75:sg:93:THR:HG22	75:sg:94:THR:HG23	1.91	0.52
77:sZ:104:ARG:HG3	77:sZ:105:ALA:N	2.24	0.52
79:s2:207:G:H3'	79:s2:208:G:H8	1.75	0.52
79:s2:1711:U:H2'	79:s2:1712:A:C8	2.45	0.52
79:s2:1711:U:H2'	79:s2:1712:A:H8	1.74	0.52
80:cB:39:LEU:HD23	80:cB:102:LEU:HD12	1.91	0.52
80:cB:744:ILE:HD11	80:cB:816:HIS:NE2	2.25	0.52
80:cB:791:ASN:OD1	80:cB:791:ASN:N	2.42	0.52
83:ls:34:ASN:CG	85:l5:1968:G:C4'	2.74	0.52
85:l5:907:C:H2'	85:l5:908:G:H8	1.75	0.52
85:l5:4101:C:O2'	85:l5:4108:G:O6	2.22	0.52
85:l5:4232:U:H1'	85:l5:4233:A:C2	2.44	0.52
85:l5:5002:U:H2'	85:l5:5003:U:H6	1.74	0.52
85:l5:5010:U:H2'	85:l5:5011:A:C8	2.45	0.52
86:LW:22:ALA:HA	86:LW:28:VAL:HA	1.92	0.52
86:LW:59:HIS:CG	85:L5:5037:U:HO2'	2.28	0.52
6:SG:174:PRO:HB3	79:S2:65:C:C5	2.44	0.52
7:SJ:29:LEU:HD11	9:Se:37:GLN:HG3	1.91	0.52
18:SW:54:ASP:C	18:SW:54:ASP:OD2	2.51	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:189:G:H2'	85:L5:190:G:H8	1.74	0.52
85:L5:422:C:H2'	85:L5:423:G:H8	1.73	0.52
85:L5:495:C:H2'	85:L5:496:G:C8	2.45	0.52
85:L5:697:G:H2'	85:L5:698:G:H8	1.73	0.52
85:L5:959:G:C8	26:LE:123:ARG:HG2	2.45	0.52
85:L5:1788:A:H2'	30:LI:22:PHE:CZ	2.44	0.52
85:L5:1994:C:H2'	85:L5:1995:G:C8	2.44	0.52
85:L5:2260:C:OP1	26:LE:108:LYS:NZ	2.41	0.52
85:L5:3766:A:O2'	79:S2:1849:G:N3	2.40	0.52
85:L5:3861:A:H2'	85:L5:3862:A:C8	2.45	0.52
85:L5:4108:G:H2'	85:L5:4109:G:C8	2.44	0.52
85:L5:4500:U:H2'	85:L5:4501:U:H6	1.75	0.52
85:L5:4742:G:H2'	85:L5:4743:G:H8	1.75	0.52
85:L5:4906:C:H2'	85:L5:4907:G:H8	1.73	0.52
24:LC:28:PHE:HA	24:LC:129:ALA:HA	1.92	0.52
28:LG:160:ASP:OD1	28:LG:160:ASP:N	2.43	0.52
45:LZ:9:LYS:HB3	45:LZ:25:ILE:HD13	1.90	0.52
50:Le:84:GLU:O	50:Le:87:VAL:HG22	2.09	0.52
64:SR:34:VAL:O	64:SR:38:ILE:HG12	2.09	0.52
69:SQ:27:ARG:HH22	79:S2:1423:C:H42	1.58	0.52
71:ST:9:VAL:O	71:ST:11:GLN:NE2	2.43	0.52
72:SU:23:THR:O	72:SU:24:LEU:HD23	2.10	0.52
79:S2:534:G:H2'	79:S2:535:G:H8	1.75	0.52
79:S2:654:A:OP2	79:S2:655:A:O2'	2.23	0.52
79:S2:875:A:N6	79:S2:911:C:H42	2.06	0.52
79:S2:1299:A:O2'	79:S2:1301:A:OP1	2.21	0.52
79:S2:1678:A:H2'	79:S2:1679:A:N3	2.25	0.52
89:Pt:22:U:H2'	89:Pt:23:C:C6	2.44	0.52
11:sB:223:PHE:O	11:sB:223:PHE:CG	2.62	0.52
12:sH:79:LEU:O	12:sH:83:LEU:HD12	2.10	0.52
12:sH:146:VAL:CG1	18:sW:42:MET:HE1	2.39	0.52
13:sV:68:SER:O	13:sV:72:LEU:HG	2.10	0.52
21:l8:70:G:O2'	21:l8:87:G:N2	2.42	0.52
21:l8:93:C:OP1	55:lj:76:HIS:NE2	2.40	0.52
23:lB:109:HIS:HB2	23:lB:202:GLU:OE2	2.08	0.52
24:lC:318:PRO:HG2	27:lF:155:TYR:HB3	1.89	0.52
29:lH:26:ILE:HG22	29:lH:35:ARG:HB2	1.91	0.52
41:lU:55:ASN:O	41:lU:56:LEU:HG	2.09	0.52
41:lU:82:TYR:HE2	85:l5:2631:U:N1	2.07	0.52
44:lY:57:VAL:HA	44:lY:104:VAL:HG12	1.91	0.52
45:lZ:51:ARG:HB2	45:lZ:65:ARG:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:sD:194:PRO:HB2	65:sD:197:LYS:HB2	1.92	0.52
72:sU:31:SER:O	72:sU:35:VAL:HG22	2.09	0.52
79:s2:867:G:H2'	79:s2:868:G:N3	2.24	0.52
79:s2:920:A:O2'	79:s2:922:A:O5'	2.28	0.52
79:s2:1447:G:H2'	79:s2:1448:A:C8	2.45	0.52
85:l5:2335:C:H2'	85:l5:2336:G:H8	1.75	0.52
85:l5:2464:C:O2'	85:l5:2465:C:O5'	2.28	0.52
85:l5:4040:C:OP1	85:l5:4045:G:N2	2.42	0.52
85:l5:4584:A:H2'	85:l5:4585:U:O4'	2.09	0.52
3:SI:8:TRP:CE3	3:SI:20:PRO:HB3	2.44	0.52
5:SX:64:SER:HB3	79:S2:614:C:H1'	1.91	0.52
6:SG:32:MET:HE1	6:SG:63:MET:SD	2.50	0.52
12:SH:33:ASN:OD1	12:SH:37:LYS:N	2.43	0.52
17:SO:98:ARG:NH1	79:S2:975:G:OP1	2.43	0.52
85:L5:2408:U:OP1	57:Ll:42:ARG:NH2	2.43	0.52
85:L5:2835:A:O2'	23:LB:228:TYR:O	2.23	0.52
85:L5:3684:G:H2'	85:L5:3685:C:H6	1.74	0.52
85:L5:4076:G:OP2	85:L5:4163:U:N3	2.37	0.52
23:LB:141:ASP:N	23:LB:141:ASP:OD1	2.41	0.52
25:LD:225:GLN:O	25:LD:228:LYS:HG3	2.10	0.52
31:LJ:20:LEU:C	31:LJ:20:LEU:CD2	2.82	0.52
33:LM:94:LYS:HA	35:LO:203:VAL:HG21	1.91	0.52
34:LN:120:TRP:CZ2	34:LN:122:GLY:HA2	2.43	0.52
40:LT:124:THR:OG1	40:LT:125:TRP:N	2.43	0.52
47:Lb:58:GLN:H	47:Lb:58:GLN:CD	2.16	0.52
70:SS:48:ALA:HA	70:SS:66:ARG:HH11	1.75	0.52
72:SU:20:ILE:N	72:SU:91:LEU:O	2.42	0.52
75:Sg:210:GLY:HA3	75:Sg:236:ILE:HD11	1.92	0.52
75:Sg:237:ASN:OD1	75:Sg:285:GLN:NE2	2.43	0.52
79:S2:62:G:O2'	79:S2:172:U:OP1	2.28	0.52
79:S2:793:G:H2'	79:S2:794:A:H8	1.75	0.52
79:S2:1004:U:H2'	79:S2:1005:G:H8	1.75	0.52
79:S2:1102:G:H2'	79:S2:1103:C:C6	2.45	0.52
79:S2:1372:U:P	79:S2:1385:G:H22	2.31	0.52
79:S2:1539:U:H2'	79:S2:1540:G:C8	2.45	0.52
63:Lz:145:VAL:HG23	63:Lz:146:ALA:H	1.75	0.52
63:Lz:206:ILE:O	63:Lz:207:LYS:HD2	2.10	0.52
4:sL:18:GLN:CG	4:sL:33:LEU:CD2	2.84	0.52
6:sG:7:PHE:CE1	6:sG:113:ILE:HD13	2.44	0.52
6:sG:49:VAL:CG1	6:sG:115:LYS:HD2	2.39	0.52
6:sG:87:ARG:NH1	79:s2:161:U:O2'	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:sB:165:ARG:O	11:sB:169:MET:HG3	2.10	0.52
17:sO:95:ILE:HD11	17:sO:126:ILE:HD12	1.92	0.52
21:l8:148:A:H2'	21:l8:149:G:C8	2.44	0.52
23:lB:348:ARG:HH12	23:lB:351:LEU:HD22	1.75	0.52
24:lC:13:GLU:CD	24:lC:157:LYS:HE2	2.34	0.52
31:lJ:95:ARG:O	31:lJ:175:LEU:N	2.40	0.52
37:lQ:124:ASP:N	37:lQ:124:ASP:OD1	2.40	0.52
64:sR:11:LYS:O	79:s2:1372:U:C2	2.62	0.52
79:s2:455:A:H2'	79:s2:456:C:C6	2.44	0.52
79:s2:525:A:H2'	79:s2:526:A:H8	1.75	0.52
79:s2:526:A:H2'	79:s2:527:C:H6	1.74	0.52
79:s2:672:A:N6	79:s2:1027:A:OP1	2.37	0.52
79:s2:899:U:N3	79:s2:900:C:O2'	2.41	0.52
79:s2:1084:A:OP1	79:s2:1858:G:O2'	2.26	0.52
79:s2:1171:G:O2'	79:s2:1187:G:O6	2.26	0.52
79:s2:1174:U:H2'	79:s2:1175:G:H8	1.74	0.52
79:s2:1781:A:H5"	79:s2:1783:C:N4	2.25	0.52
80:cB:41:CYS:O	80:cB:49:ALA:HA	2.09	0.52
80:cB:654:PRO:HG2	80:cB:696:ASN:ND2	2.25	0.52
84:lt:142:ASN:HB2	84:lt:148:PRO:HB3	1.91	0.52
85:l5:2468:U:O2'	85:l5:2506:G:N2	2.42	0.52
85:l5:2786:C:O2'	85:l5:2787:A:OP2	2.20	0.52
85:l5:3811:G:O2'	85:l5:3814:U:OP2	2.28	0.52
85:l5:4591:U:H2'	85:l5:4592:C:C6	2.44	0.52
5:SX:63:ASN:OD1	79:S2:624:C:N4	2.42	0.52
19:Sb:42:LYS:HE3	19:Sb:57:VAL:N	2.24	0.52
85:L5:1427:A:OP2	85:L5:1457:G:N2	2.35	0.52
85:L5:1633:G:C6	22:LA:207:VAL:HG11	2.45	0.52
85:L5:1850:A:OP2	32:LL:5:ARG:NH2	2.38	0.52
85:L5:2634:C:H2'	85:L5:2635:U:C6	2.44	0.52
85:L5:3887:C:OP2	35:LO:85:ARG:NH2	2.39	0.52
85:L5:4699:U:H1'	85:L5:4700:A:H5"	1.90	0.52
85:L5:5030:U:C2	85:L5:5031:G:C8	2.98	0.52
20:L7:33:U:H2'	20:L7:34:C:C6	2.45	0.52
21:L8:7:U:H2'	21:L8:8:U:C6	2.45	0.52
26:LE:173:LEU:HD11	26:LE:191:GLN:HA	1.92	0.52
31:LJ:153:ALA:HA	31:LJ:156:ARG:CZ	2.40	0.52
38:LR:38:ARG:C	38:LR:40:GLN:H	2.17	0.52
48:Lc:104:ILE:O	48:Lc:104:ILE:HD12	2.09	0.52
51:Lf:4:ARG:HD2	51:Lf:6:TRP:O	2.10	0.52
53:Lh:80:PRO:HD2	53:Lh:83:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:SF:78:MET:SD	79:S2:1222:G:H5"	2.50	0.52
67:SK:52:LEU:HD22	67:SK:58:VAL:HB	1.91	0.52
79:S2:677:G:H3'	79:S2:1026:C:N4	2.25	0.52
1:cH:48:GLN:NE2	9:se:53:LYS:O	2.42	0.52
7:sJ:127:ARG:HG3	7:sJ:145:PRO:HB3	1.92	0.52
11:sB:74:LEU:HD21	11:sB:86:LEU:HD11	1.91	0.52
21:l8:123:U:O2'	21:l8:128:C:N4	2.43	0.52
29:lH:137:SER:HB2	29:lH:145:ILE:HD11	1.90	0.52
30:lI:180:GLU:O	30:lI:180:GLU:HG3	2.10	0.52
35:lO:39:GLU:OE2	35:lO:39:GLU:N	2.26	0.52
42:lV:69:LYS:HD2	42:lV:70:PRO:HD2	1.92	0.52
45:lZ:77:TYR:CD2	48:lc:39:ARG:HD2	2.45	0.52
54:li:4:ARG:HG3	85:l5:1481:C:H41	1.74	0.52
56:lk:10:ASP:N	56:lk:10:ASP:OD1	2.40	0.52
64:sR:96:ILE:HG23	64:sR:96:ILE:O	2.09	0.52
66:sF:40:ALA:CA	66:sF:45:TYR:CE1	2.93	0.52
66:sF:171:GLU:N	66:sF:171:GLU:OE1	2.43	0.52
70:sS:40:TYR:CE2	70:sS:97:GLN:HG3	2.44	0.52
71:sT:47:PRO:HB3	79:s2:1540:G:H5'	1.90	0.52
72:sU:116:ILE:CG2	72:sU:117:ALA:N	2.73	0.52
75:sg:213:ASP:OD1	75:sg:213:ASP:N	2.41	0.52
79:s2:964:A:H2'	79:s2:965:U:H6	1.74	0.52
79:s2:1419:C:O2'	79:s2:1420:G:N3	2.43	0.52
80:cB:734:LEU:CD2	80:cB:851:LEU:HD13	2.36	0.52
83:ls:116:ILE:HG23	83:ls:118:PRO:HD3	1.90	0.52
85:l5:3939:G:O2'	85:l5:4076:G:N1	2.40	0.52
2:SE:171:ASP:OD1	2:SE:172:PHE:N	2.42	0.52
8:SY:26:ASP:HB3	8:SY:70:THR:HG22	1.91	0.52
16:SN:25:TRP:CE3	19:Sb:82:LYS:HG3	2.43	0.52
17:SO:57:THR:HG23	17:SO:60:MET:HE3	1.92	0.52
17:SO:75:MET:SD	17:SO:79:GLN:NE2	2.82	0.52
85:L5:1836:G:O2'	40:LT:108:ARG:NH2	2.43	0.52
85:L5:2759:G:H2'	85:L5:2760:G:C8	2.44	0.52
85:L5:4071:U:H2'	85:L5:4072:C:H6	1.74	0.52
85:L5:4080:C:H2'	85:L5:4081:G:H8	1.74	0.52
85:L5:4504:C:H2'	85:L5:4505:C:H6	1.74	0.52
85:L5:4765:G:N2	39:LS:173:ASN:HD21	2.08	0.52
85:L5:5010:U:H2'	85:L5:5011:A:C8	2.45	0.52
20:L7:15:C:H2'	20:L7:16:A:C8	2.44	0.52
26:LE:68:MET:HE3	26:LE:68:MET:HA	1.91	0.52
31:LJ:63:ARG:N	31:LJ:66:GLU:OE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:LJ:139:PHE:HE1	31:LJ:155:HIS:HD2	1.56	0.52
43:LX:74:TYR:CD1	53:Lh:25:LYS:HB3	2.45	0.52
44:LY:31:SER:HA	44:LY:48:PRO:HA	1.91	0.52
51:Lf:35:ALA:HA	51:Lf:81:SER:HA	1.91	0.52
65:SD:120:TYR:HB3	65:SD:124:ARG:NH1	2.25	0.52
68:SP:21:ASP:OD1	68:SP:22:LEU:N	2.43	0.52
79:S2:1853:C:H2'	79:S2:1854:U:C6	2.45	0.52
82:Et:43:A:H2'	82:Et:44:G:C8	2.45	0.52
5:sX:41:PHE:HZ	5:sX:102:VAL:HG12	1.74	0.52
15:sC:190:SER:OG	79:s2:14:C:O5'	2.22	0.52
18:sW:86:LEU:HB3	18:sW:117:ARG:HH21	1.74	0.52
21:l8:27:U:H2'	21:l8:28:C:H6	1.75	0.52
24:lC:343:GLN:NE2	85:l5:945:U:O2	2.40	0.52
27:lF:87:PRO:HG3	27:lF:144:TYR:CG	2.45	0.52
28:lG:156:VAL:HG12	28:lG:182:CYS:SG	2.50	0.52
31:lJ:59:SER:OG	31:lJ:60:PHE:N	2.43	0.52
32:lL:17:ASP:OD1	32:lL:20:ARG:NH1	2.41	0.52
33:lM:30:VAL:HG21	39:lS:150:ILE:HD13	1.92	0.52
37:lQ:24:TYR:HE2	62:lr:5:LEU:HD22	1.75	0.52
42:lV:112:MET:SD	42:lV:117:ILE:HD11	2.49	0.52
49:ld:46:LEU:HD21	49:ld:64:ILE:HD13	1.91	0.52
59:ln:23:ARG:NH2	85:l5:3782:C:OP2	2.43	0.52
64:sR:51:ALA:HA	64:sR:54:VAL:CG1	2.40	0.52
77:sZ:69:THR:H	77:sZ:72:VAL:CG1	2.22	0.52
78:sf:123:SER:O	78:sf:127:GLY:N	2.43	0.52
79:s2:385:G:H5"	79:s2:387:C:H41	1.75	0.52
79:s2:1101:U:H2'	79:s2:1102:G:C8	2.44	0.52
79:s2:1595:U:H2'	79:s2:1596:U:C6	2.45	0.52
80:cB:20:ARG:NH1	80:cB:355:THR:O	2.38	0.52
80:cB:324:ASP:OD1	80:cB:342:ARG:NH1	2.31	0.52
85:l5:1084:C:H2'	85:l5:1085:C:H6	1.74	0.52
85:l5:4061:G:O2'	85:l5:4062:A:OP1	2.25	0.52
85:l5:4446:U:O2'	85:l5:4450:U:OP1	2.27	0.52
85:l5:4638:U:H2'	85:l5:4639:G:N3	2.25	0.52
2:SE:3:ARG:NH2	79:S2:92:A:O5'	2.43	0.52
2:SE:94:LYS:HD2	8:SY:16:ARG:HG3	1.92	0.52
5:SX:45:SER:HG	5:SX:46:HIS:CE1	2.25	0.52
7:SJ:86:VAL:HG21	7:SJ:105:PHE:HD2	1.73	0.52
17:SO:46:ASP:OD2	17:SO:48:SER:N	2.40	0.52
85:L5:6:C:H2'	85:L5:7:C:H6	1.74	0.52
85:L5:661:C:H2'	85:L5:662:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:724:C:O2	24:LC:343:GLN:NE2	2.43	0.52
85:L5:750:U:C2	85:L5:751:G:C8	2.98	0.52
85:L5:1876:U:H2'	85:L5:1877:G:C8	2.44	0.52
85:L5:2568:C:H2'	85:L5:2569:G:C8	2.44	0.52
85:L5:2795:A:O4'	36:LP:130:TYR:OH	2.23	0.52
21:L8:102:G:OP2	21:L8:104:A:O2'	2.28	0.52
25:LD:208:MET:HE3	25:LD:208:MET:CA	2.38	0.52
25:LD:253:TYR:HE2	25:LD:255:LYS:HG2	1.74	0.52
28:LG:240:ASN:O	28:LG:240:ASN:ND2	2.34	0.52
36:LP:126:ARG:HA	36:LP:140:MET:HE1	1.92	0.52
64:SR:29:HIS:HA	64:SR:32:LYS:HB3	1.92	0.52
73:Sc:29:GLN:NE2	73:Sc:66:ARG:O	2.37	0.52
79:S2:96:C:H2'	79:S2:97:U:H6	1.72	0.52
79:S2:464:A:H5'	79:S2:465:A:C8	2.45	0.52
79:S2:1447:G:H2'	79:S2:1448:A:C8	2.45	0.52
87:AT:3:C:H2'	87:AT:4:U:H6	1.74	0.52
11:sB:75:GLN:HB3	11:sB:78:GLU:HB2	1.91	0.52
12:sH:143:ARG:HB2	12:sH:155:LYS:CG	2.38	0.52
13:sV:12:TYR:HE2	13:sV:14:PRO:HA	1.75	0.52
15:sC:220:ASP:HB2	15:sC:221:ASP:OD1	2.10	0.52
28:lG:229:ARG:HB2	28:lG:232:GLU:OE2	2.10	0.52
29:lH:28:LYS:HD2	29:lH:33:THR:HB	1.91	0.52
31:lJ:12:MET:HG3	31:lJ:137:PRO:HG2	1.93	0.52
32:lL:126:LEU:N	32:lL:138:ASP:OD2	2.38	0.52
35:lO:18:ARG:NH2	85:l5:2057:A:OP1	2.40	0.52
49:ld:33:ILE:CD1	49:ld:45:ALA:HB2	2.40	0.52
63:lz:32:VAL:N	63:lz:170:GLY:O	2.43	0.52
64:sR:5:ARG:HD2	79:s2:1367:U:H2'	1.92	0.52
64:sR:135:VAL:HG13	79:s2:1122:A:O2'	2.09	0.52
76:sM:23:LYS:O	76:sM:27:ILE:HG12	2.09	0.52
79:s2:878:G:N2	79:s2:908:A:N1	2.48	0.52
79:s2:929:G:H2'	79:s2:930:C:O4'	2.10	0.52
79:s2:1389:C:H2'	79:s2:1390:U:C6	2.44	0.52
3:SI:10:LYS:NZ	79:S2:385:G:O2'	2.41	0.52
11:SB:30:TRP:HE3	17:SO:19:PRO:HB3	1.75	0.52
11:SB:144:LYS:HB2	11:SB:208:HIS:HD2	1.75	0.52
15:SC:198:ALA:HB1	15:SC:202:THR:HG21	1.91	0.52
16:SN:3:ARG:NH1	79:S2:1012:A:OP1	2.35	0.52
85:L5:429:A:H2'	85:L5:430:G:H8	1.74	0.52
85:L5:1333:A:H2'	85:L5:1334:A:C8	2.45	0.52
85:L5:1666:C:H2'	85:L5:1667:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1942:A:H2'	85:L5:1943:A:H8	1.75	0.52
85:L5:1970:A:OP2	83:Ls:112:ARG:NH2	2.43	0.52
85:L5:2683:C:H2'	85:L5:2684:C:C6	2.45	0.52
85:L5:3967:G:N2	63:Lz:164:CYS:SG	2.74	0.52
85:L5:4973:U:H1'	85:L5:4986:G:N2	2.25	0.52
25:LD:182:GLY:H	25:LD:195:HIS:HB2	1.75	0.52
26:LE:212:LEU:HD12	26:LE:217:PHE:CZ	2.45	0.52
35:LO:47:PHE:HZ	35:LO:144:GLU:HG3	1.74	0.52
43:LX:72:ASP:OD1	43:LX:74:TYR:N	2.43	0.52
65:SD:108:LYS:HB3	65:SD:113:LEU:HD12	1.92	0.52
71:ST:56:ARG:O	71:ST:60:THR:N	2.41	0.52
77:SZ:84:ALA:O	77:SZ:87:ALA:N	2.43	0.52
79:S2:49:C:OP1	79:S2:471:G:N2	2.41	0.52
79:S2:1269:G:H2'	79:S2:1270:G:H8	1.74	0.52
79:S2:1680:G:H2'	79:S2:1681:U:C6	2.45	0.52
88:CF:426:VAL:HB	88:CF:434:ALA:HB3	1.92	0.52
4:sL:4:ILE:H	4:sL:4:ILE:HD12	1.75	0.51
4:sL:94:HIS:CE1	4:sL:105:ARG:HH21	2.27	0.51
15:sC:60:TRP:O	15:sC:71:LYS:NZ	2.43	0.51
16:sN:16:LEU:HD11	79:s2:919:A:H5'	1.92	0.51
20:l7:57:C:H2'	20:l7:58:A:C8	2.45	0.51
22:lA:8:GLN:NE2	85:l5:3668:C:OP1	2.42	0.51
24:lC:5:ARG:HH21	24:lC:25:PRO:HA	1.75	0.51
25:lD:214:GLU:O	25:lD:215:ASP:CG	2.53	0.51
27:lF:247:MET:O	27:lF:248:ASN:ND2	2.43	0.51
64:sR:41:ILE:HA	79:s2:1387:G:C5	2.45	0.51
64:sR:53:TYR:CD2	79:s2:1466:G:C8	2.98	0.51
66:sF:30:ILE:HB	66:sF:36:GLN:OE1	2.10	0.51
71:sT:4:VAL:N	79:s2:1416:C:O2'	2.32	0.51
75:sg:113:PHE:CE2	75:sg:117:ASN:HA	2.46	0.51
79:s2:1811:C:H3'	79:s2:1812:U:H4'	1.91	0.51
80:cB:580:ARG:NE	80:cB:696:ASN:OD1	2.40	0.51
85:l5:1346:C:H2'	85:l5:1347:G:C8	2.44	0.51
85:l5:4919:G:H2'	85:l5:4920:C:C6	2.44	0.51
86:LW:8:PHE:CD2	86:LW:46:PRO:CB	2.89	0.51
4:SL:40:ILE:HG21	4:SL:68:ILE:HD13	1.93	0.51
10:SA:180:ARG:HA	10:SA:195:TRP:CZ3	2.44	0.51
11:SB:177:GLN:N	11:SB:177:GLN:OE1	2.43	0.51
85:L5:494:U:O4	85:L5:659:G:O6	2.28	0.51
85:L5:654:C:H5"	24:LC:268:ARG:NH2	2.25	0.51
85:L5:919:C:H2'	85:L5:920:C:H6	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2904:U:H3'	85:L5:2904:U:OP2	2.09	0.51
85:L5:3673:C:OP2	34:LN:67:ARG:NH2	2.42	0.51
85:L5:3684:G:H2'	85:L5:3685:C:C6	2.45	0.51
85:L5:5002:U:H2'	85:L5:5003:U:C6	2.45	0.51
20:L7:2:U:H3	20:L7:117:G:H1	1.58	0.51
20:L7:39:C:H4'	31:LJ:47:THR:HG23	1.92	0.51
21:L8:153:C:H2'	21:L8:154:G:C8	2.43	0.51
31:LJ:99:PHE:HD1	31:LJ:105:PHE:HB3	1.75	0.51
48:Lc:48:LEU:HD21	48:Lc:60:ILE:HD12	1.90	0.51
75:Sg:20:GLN:N	75:Sg:34:ALA:HB3	2.25	0.51
75:Sg:42:MET:HE3	75:Sg:43:TRP:C	2.35	0.51
77:SZ:62:VAL:HA	77:SZ:65:TYR:CE1	2.45	0.51
78:Sf:106:TYR:HB3	78:Sf:116:ARG:HD2	1.91	0.51
79:S2:215:G:H2'	79:S2:216:C:H6	1.75	0.51
79:S2:1144:A:H2'	79:S2:1145:A:H8	1.72	0.51
79:S2:1713:C:H2'	79:S2:1714:U:H6	1.73	0.51
1:cH:76:GLU:H	1:cH:76:GLU:CD	2.14	0.51
2:sE:9:LEU:O	2:sE:28:ALA:N	2.41	0.51
5:sX:82:THR:HG23	5:sX:118:VAL:HG22	1.93	0.51
6:sG:142:ARG:HB2	6:sG:147:LEU:HB2	1.91	0.51
10:sA:118:GLU:N	10:sA:118:GLU:OE1	2.44	0.51
11:sB:181:LEU:O	11:sB:185:VAL:HG22	2.10	0.51
17:sO:137:SER:OG	79:s2:942:G:N2	2.37	0.51
21:l8:122:G:H1	21:l8:128:C:H41	1.59	0.51
22:lA:141:PRO:O	22:lA:144:LYS:NZ	2.31	0.51
25:lD:238:GLU:OE2	25:lD:241:LYS:HB2	2.10	0.51
28:lG:169:PHE:HE2	34:lN:7:ILE:HG22	1.76	0.51
29:lH:37:ASP:OD1	29:lH:37:ASP:C	2.53	0.51
39:lS:15:ARG:HD2	39:lS:25:PRO:HG2	1.92	0.51
39:lS:95:ARG:HH12	85:l5:1951:G:HO2'	1.58	0.51
42:lV:32:THR:HG23	42:lV:34:ALA:H	1.75	0.51
58:lm:79:GLU:HG2	58:lm:80:PRO:HD2	1.92	0.51
64:sR:52:GLY:HA2	79:s2:1454:A:C8	2.45	0.51
79:s2:634:A:H2'	79:s2:635:G:C8	2.45	0.51
79:s2:1360:U:O2'	79:s2:1379:A:OP2	2.24	0.51
79:s2:1798:C:H2'	79:s2:1799:G:O4'	2.10	0.51
83:ls:28:PHE:O	83:ls:89:VAL:HG12	2.11	0.51
83:ls:38:LYS:HZ2	85:l5:1971:C:H4'	1.75	0.51
83:ls:62:ARG:NH2	83:ls:83:ARG:HD2	2.25	0.51
84:lt:64:ILE:HB	84:lt:71:ILE:HG22	1.88	0.51
85:l5:513:U:H1'	85:l5:516:C:H41	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:691:C:H2'	85:l5:692:A:H8	1.75	0.51
85:l5:1187:G:OP2	85:l5:1187:G:N2	2.40	0.51
85:l5:1475:G:H2'	85:l5:1476:C:C6	2.45	0.51
85:l5:1683:U:H2'	85:l5:1684:A:C8	2.45	0.51
85:l5:2898:G:H2'	85:l5:2899:C:C6	2.46	0.51
85:l5:3736:A:H2'	85:l5:3737:A:H8	1.75	0.51
2:SE:246:LEU:HD23	2:SE:246:LEU:H	1.75	0.51
5:SX:105:PHE:CE2	5:SX:112:VAL:HB	2.45	0.51
7:SJ:65:GLU:OE1	7:SJ:66:LYS:N	2.37	0.51
11:SB:82:ARG:HG3	11:SB:105:LEU:HD23	1.93	0.51
85:L5:275:C:H2'	85:L5:276:C:C6	2.45	0.51
85:L5:461:G:H2'	85:L5:462:G:C8	2.44	0.51
85:L5:742:G:H2'	85:L5:743:G:C8	2.45	0.51
85:L5:1777:C:H2'	85:L5:1778:C:C6	2.44	0.51
85:L5:1912:G:N2	35:LO:87:MET:SD	2.83	0.51
85:L5:1980:U:O2'	85:L5:1981:G:H5"	2.10	0.51
85:L5:2067:C:H2'	85:L5:2068:C:C6	2.44	0.51
85:L5:2109:G:H2'	85:L5:2110:C:C6	2.46	0.51
85:L5:4299:U:H2'	85:L5:4300:U:H6	1.75	0.51
20:L7:54:A:N3	31:LJ:155:HIS:HE1	2.09	0.51
21:L8:30:U:H2'	21:L8:31:G:C8	2.45	0.51
23:LB:14:LEU:HD23	23:LB:17:LEU:HD21	1.92	0.51
31:LJ:7:GLU:N	31:LJ:7:GLU:OE2	2.42	0.51
49:Ld:54:MET:HA	49:Ld:54:MET:HE3	1.92	0.51
52:Lg:60:ARG:O	52:Lg:63:VAL:HG12	2.10	0.51
57:Ll:28:ARG:HA	57:Ll:33:ASN:ND2	2.26	0.51
61:Lp:42:CYS:HB3	61:Lp:60:CYS:HB3	1.93	0.51
75:Sg:286:CYS:HA	75:Sg:302:TYR:HD1	1.74	0.51
79:S2:17:C:O2'	79:S2:1194:A:N1	2.34	0.51
79:S2:1107:G:C6	79:S2:1126:G:C6	2.98	0.51
12:sH:138:GLU:OE2	16:sN:19:ARG:CZ	2.58	0.51
12:sH:160:LYS:HG3	12:sH:189:PHE:HB3	1.91	0.51
18:sW:115:GLU:HA	18:sW:118:ARG:HB2	1.91	0.51
23:lB:300:LYS:NZ	23:lB:309:LEU:CA	2.74	0.51
34:lN:15:GLN:NE2	85:l5:280:G:O6	2.42	0.51
46:la:59:LYS:NZ	85:l5:294:G:O2'	2.44	0.51
48:lc:87:LYS:HD2	48:lc:89:TYR:OH	2.10	0.51
52:lg:41:ALA:O	52:lg:52:ARG:HD2	2.09	0.51
64:sR:129:LYS:NZ	79:s2:1109:C:N3	2.59	0.51
65:sD:27:ARG:HH22	79:s2:1498:A:P	2.33	0.51
68:sP:24:GLN:O	68:sP:28:MET:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:350:C:O2'	79:s2:383:G:N1	2.42	0.51
79:s2:1286:G:N2	79:s2:1312:G:O2'	2.35	0.51
80:cB:517:LEU:HD23	80:cB:518:PRO:HD3	1.91	0.51
80:cB:645:GLU:HA	80:cB:648:LYS:HG3	1.92	0.51
80:cB:742:GLU:OE1	80:cB:820:LEU:HD13	2.09	0.51
85:l5:300:A:H2'	85:l5:301:G:C8	2.45	0.51
85:l5:1449:C:H2'	85:l5:1450:C:C6	2.45	0.51
85:l5:3656:A:HO2'	85:l5:3747:A:HO2'	1.57	0.51
85:l5:4741:C:H4'	85:l5:4742:G:H5'	1.92	0.51
2:SE:173:ILE:HD11	2:SE:235:TRP:CZ3	2.46	0.51
4:SL:41:GLY:HA3	79:S2:291:G:N3	2.25	0.51
4:SL:103:GLU:OE2	5:SX:14:ARG:NH2	2.43	0.51
6:SG:56:ASN:HB2	6:SG:108:VAL:HG22	1.93	0.51
7:SJ:38:ARG:NH1	79:S2:643:A:OP1	2.43	0.51
15:SC:194:ARG:NH1	79:S2:1156:U:O4	2.39	0.51
15:SC:207:ALA:HB2	79:S2:4:C:H4'	1.93	0.51
85:L5:190:G:H2'	85:L5:191:G:H8	1.75	0.51
85:L5:418:A:H2'	85:L5:419:A:C8	2.46	0.51
85:L5:425:U:H2'	85:L5:426:A:C8	2.46	0.51
85:L5:450:G:H2'	85:L5:451:C:C6	2.45	0.51
85:L5:665:C:H4'	85:L5:666:G:H5'	1.92	0.51
85:L5:1086:C:H2'	85:L5:1087:A:H8	1.76	0.51
85:L5:1377:G:H4'	85:L5:1378:C:H3'	1.91	0.51
85:L5:1577:G:H5'	85:L5:1578:U:H5"	1.92	0.51
85:L5:1878:G:H2'	85:L5:1879:C:C6	2.46	0.51
85:L5:1913:C:H5"	35:LO:25:LYS:HD3	1.92	0.51
23:LB:92:TYR:HB3	23:LB:99:LEU:HD22	1.91	0.51
23:LB:168:MET:HE2	23:LB:178:ALA:HA	1.91	0.51
40:LT:152:GLU:OE2	40:LT:152:GLU:N	2.43	0.51
50:Le:69:MET:N	50:Le:69:MET:SD	2.83	0.51
53:Lh:57:VAL:O	53:Lh:61:ILE:HG12	2.11	0.51
69:SQ:138:ARG:HE	79:S2:1646:C:H5'	1.75	0.51
74:Sd:22:ARG:CG	74:Sd:38:MET:CE	2.87	0.51
79:S2:549:C:H2'	79:S2:550:C:C6	2.45	0.51
87:AT:3:C:H2'	87:AT:4:U:C6	2.45	0.51
84:Lt:115:GLN:HA	84:Lt:119:ARG:HD2	1.92	0.51
83:Ls:106:LYS:NZ	83:Ls:184:SER:O	2.40	0.51
3:sI:87:ASN:HD22	79:s2:389:A:H4'	1.76	0.51
6:sG:147:LEU:HB3	6:sG:151:ASP:HB2	1.91	0.51
8:sY:110:ARG:NH1	8:sY:114:MET:HE2	2.25	0.51
11:sB:133:TYR:CE2	11:sB:181:LEU:HD13	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:sO:55:ARG:NH1	79:s2:973:C:N3	2.59	0.51
21:l8:18:U:O2	85:l5:2309:G:O2'	2.28	0.51
21:l8:35:C:N3	85:l5:21:G:N1	2.36	0.51
24:lC:197:ARG:NH1	85:l5:351:C:OP2	2.37	0.51
29:lH:102:ASN:HB3	29:lH:115:ARG:HB3	1.91	0.51
37:lQ:16:LYS:O	37:lQ:33:ARG:NH2	2.44	0.51
41:lU:63:ILE:HG22	41:lU:72:VAL:HG12	1.91	0.51
48:lc:20:LEU:O	48:lc:20:LEU:HD12	2.11	0.51
77:sZ:101:SER:OG	77:sZ:107:VAL:HA	2.09	0.51
78:sf:144:CYS:SG	78:sf:146:LEU:HG	2.50	0.51
80:cB:228:PHE:CE2	80:cB:293:ILE:HG23	2.45	0.51
83:ls:20:LEU:HD23	83:ls:20:LEU:O	2.09	0.51
84:lt:14:TYR:O	84:lt:63:THR:OG1	2.28	0.51
85:l5:1080:C:N3	85:l5:1220:G:N1	2.57	0.51
85:l5:1175:A:H2	85:l5:1185:G:H1	1.57	0.51
85:l5:2898:G:H2'	85:l5:2899:C:H6	1.75	0.51
12:SH:103:LYS:HG3	12:SH:116:ARG:HH22	1.76	0.51
19:Sb:42:LYS:HZ1	19:Sb:58:GLY:H	1.57	0.51
85:L5:1239:C:P	27:LF:48:LYS:HZ1	2.33	0.51
85:L5:1514:U:H2'	85:L5:1515:A:C8	2.46	0.51
85:L5:1567:U:H2'	85:L5:1568:C:H6	1.73	0.51
85:L5:1660:U:N3	85:L5:2345:G:OP1	2.32	0.51
85:L5:1963:C:H2'	85:L5:1964:A:C8	2.46	0.51
85:L5:2562:G:N2	85:L5:2564:G:H3'	2.26	0.51
85:L5:2632:U:H2'	85:L5:2633:U:C6	2.45	0.51
85:L5:4153:C:H2'	85:L5:4154:G:H8	1.73	0.51
85:L5:4522:G:O2'	85:L5:4525:C:OP2	2.23	0.51
85:L5:4708:A:C2	85:L5:4709:U:H5'	2.46	0.51
21:L8:140:C:H2'	21:L8:141:C:C6	2.44	0.51
27:LF:122:PHE:CZ	27:LF:150:VAL:HG23	2.46	0.51
28:LG:162:ASP:HB3	28:LG:163:PRO:HD3	1.92	0.51
32:LL:55:ILE:HG23	32:LL:76:PHE:HE1	1.75	0.51
32:LL:130:LYS:HG3	32:LL:133:ALA:H	1.74	0.51
43:LX:83:THR:OG1	43:LX:85:SER:OG	2.26	0.51
76:SM:91:LEU:HD11	79:S2:1284:A:C5	2.44	0.51
79:S2:26:U:H2'	79:S2:27:A:C8	2.46	0.51
79:S2:544:G:H2'	79:S2:545:A:C8	2.45	0.51
79:S2:1113:A:O2'	79:S2:1114:U:H5'	2.10	0.51
82:Et:11:C:H2'	82:Et:12:U:C6	2.45	0.51
83:Ls:89:VAL:O	83:Ls:90:PHE:CD2	2.64	0.51
1:cH:51:GLN:OE1	1:cH:51:GLN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:sA:196:GLU:H	10:sA:196:GLU:CD	2.16	0.51
12:sH:31:GLU:N	12:sH:31:GLU:OE1	2.42	0.51
15:sC:168:GLY:N	15:sC:179:THR:O	2.31	0.51
18:sW:16:ASN:OD1	79:s2:1152:U:O2'	2.17	0.51
21:l8:87:G:OP2	53:lh:5:LYS:NZ	2.43	0.51
35:lO:87:MET:SD	85:l5:1912:G:N2	2.82	0.51
43:lX:87:MET:O	43:lX:91:GLU:HG3	2.11	0.51
50:le:29:VAL:HG13	85:l5:1332:C:H5"	1.92	0.51
55:lj:2:THR:N	85:l5:3642:A:H1'	2.25	0.51
62:lr:118:LEU:HA	62:lr:121:GLN:HB2	1.92	0.51
63:lz:96:ASN:HB2	63:lz:97:LYS:NZ	2.24	0.51
64:sR:30:THR:N	79:s2:1455:A:H5'	2.11	0.51
65:sD:205:PRO:HG2	79:s2:1388:A:C2	2.45	0.51
66:sF:79:HIS:O	66:sF:79:HIS:ND1	2.38	0.51
72:sU:41:ARG:HG3	72:sU:42:GLY:N	2.26	0.51
79:s2:1414:A:H3'	79:s2:1415:C:H5"	1.92	0.51
82:pE:62:C:H2'	82:pE:63:C:C6	2.46	0.51
85:l5:385:A:H4'	85:l5:386:A:H5'	1.93	0.51
85:l5:690:C:H2'	85:l5:691:C:C6	2.46	0.51
85:l5:1086:C:H2'	85:l5:1087:A:H8	1.76	0.51
85:l5:1189:G:H2'	85:l5:1190:C:C6	2.46	0.51
85:l5:4108:G:H2'	85:l5:4109:G:H8	1.75	0.51
3:SI:144:LYS:HA	3:SI:147:LYS:HE3	1.93	0.51
6:SG:133:LEU:HD12	79:S2:65:C:C4	2.46	0.51
85:L5:119:G:N1	28:LG:132:ARG:HG3	2.26	0.51
85:L5:1338:G:H4'	85:L5:1339:U:H6	1.76	0.51
85:L5:1391:A:N3	85:L5:4364:G:O2'	2.41	0.51
85:L5:1613:A:H5"	22:LA:183:GLY:HA2	1.92	0.51
85:L5:1749:A:H2'	85:L5:1750:G:C8	2.45	0.51
85:L5:2375:A:H2'	85:L5:2376:A:C8	2.45	0.51
85:L5:3974:G:N2	63:Lz:30:GLU:HB2	2.22	0.51
85:L5:4411:G:H2'	85:L5:4412:C:C6	2.46	0.51
85:L5:4481:U:H2'	85:L5:4482:U:C6	2.46	0.51
85:L5:4648:A:OP1	38:LR:62:ARG:NH2	2.43	0.51
85:L5:4970:C:C2	85:L5:4971:A:C8	2.99	0.51
20:L7:38:U:N3	20:L7:41:G:OP2	2.37	0.51
24:LC:82:GLY:N	24:LC:87:SER:OG	2.42	0.51
39:LS:21:LYS:O	39:LS:21:LYS:NZ	2.30	0.51
49:Ld:65:ASP:OD1	49:Ld:66:THR:N	2.43	0.51
53:Lh:88:THR:HB	53:Lh:91:MET:CG	2.40	0.51
67:SK:52:LEU:CD2	67:SK:57:TYR:HB2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:ST:12:GLN:NE2	79:S2:1593:C:H1'	2.25	0.51
72:SU:25:THR:N	72:SU:111:GLU:OE2	2.43	0.51
75:Sg:286:CYS:HA	75:Sg:302:TYR:CD1	2.45	0.51
79:S2:957:A:H2'	79:S2:958:G:C8	2.45	0.51
79:S2:974:C:H2'	79:S2:975:G:C8	2.45	0.51
79:S2:1201:U:H2'	79:S2:1202:U:H6	1.74	0.51
79:S2:1215:C:O2'	79:S2:1645:C:OP2	2.21	0.51
79:S2:1597:C:H4'	79:S2:1603:G:O6	2.11	0.51
87:AT:4:U:H2'	87:AT:5:C:C6	2.45	0.51
82:Et:23:A:H2'	82:Et:24:G:C8	2.46	0.51
88:CF:226:THR:H	88:CF:230:GLU:CD	2.19	0.51
6:sG:46:LYS:HD3	6:sG:47:GLY:H	1.75	0.51
10:sA:174:MET:O	10:sA:178:LEU:N	2.33	0.51
11:sB:68:GLU:OE2	17:sO:96:LYS:HE3	2.11	0.51
11:sB:223:PHE:C	11:sB:223:PHE:CD1	2.86	0.51
12:sH:119:SER:O	79:s2:913:A:N6	2.42	0.51
17:sO:56:VAL:HG22	17:sO:81:VAL:HG23	1.92	0.51
22:lA:95:GLN:HB2	61:lp:87:LYS:NZ	2.26	0.51
44:lY:46:SER:O	44:lY:122:LYS:NZ	2.41	0.51
59:ln:1:MET:HE3	79:s2:1851:A:H5"	1.92	0.51
64:sR:5:ARG:CD	79:s2:1367:U:H2'	2.40	0.51
68:sP:88:GLU:OE1	68:sP:88:GLU:N	2.40	0.51
68:sP:111:MET:HG2	70:sS:117:ILE:HD11	1.91	0.51
69:sQ:115:TYR:C	69:sQ:115:TYR:CD2	2.89	0.51
74:sd:8:TRP:HZ3	74:sd:12:ARG:CZ	2.23	0.51
75:sg:101:PHE:HB3	75:sg:132:TRP:CZ3	2.46	0.51
79:s2:85:A:H2'	79:s2:86:C:H6	1.75	0.51
79:s2:150:A:N6	79:s2:168:C:O2	2.44	0.51
79:s2:1441:U:O2	79:s2:1443:C:N4	2.39	0.51
82:pE:18:U:O2'	82:pE:57:A:N3	2.41	0.51
82:pE:23:A:H2'	82:pE:24:G:H8	1.76	0.51
85:l5:2018:C:H2'	85:l5:2019:C:C6	2.45	0.51
85:l5:2411:C:H2'	85:l5:2412:A:C8	2.46	0.51
85:l5:2749:C:H2'	85:l5:2750:G:H8	1.76	0.51
85:l5:4095:G:H2'	85:l5:4096:C:C4	2.46	0.51
85:l5:4258:C:H2'	85:l5:4259:C:H6	1.72	0.51
85:l5:4895:C:H3'	85:l5:4895:C:OP2	2.11	0.51
86:LW:44:ARG:HE	85:L5:3616:U:H5'	1.76	0.51
6:SG:4:ASN:HB3	6:SG:110:ASN:HB3	1.92	0.51
7:SJ:134:HIS:ND1	7:SJ:163:SER:HB2	2.26	0.51
11:SB:75:GLN:OE1	11:SB:77:ASP:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:SO:137:SER:HB2	79:S2:942:G:H21	1.74	0.51
18:SW:80:ASP:OD1	79:S2:803:C:H4'	2.10	0.51
85:L5:231:U:H4'	44:LY:100:HIS:CG	2.46	0.51
85:L5:288:G:H2'	85:L5:289:C:C6	2.46	0.51
85:L5:1346:C:OP1	37:LQ:148:VAL:HG12	2.11	0.51
85:L5:1770:A:N7	85:L5:1771:U:N3	2.59	0.51
85:L5:1811:G:H2'	85:L5:1812:C:C6	2.45	0.51
85:L5:2448:G:H2'	85:L5:2449:A:C8	2.45	0.51
85:L5:2532:C:OP1	43:LX:125:ASN:ND2	2.42	0.51
85:L5:3805:U:H2'	85:L5:3806:G:H8	1.74	0.51
85:L5:4366:A:H2'	85:L5:4367:G:H8	1.74	0.51
85:L5:4708:A:N3	85:L5:4709:U:H5'	2.25	0.51
20:L7:27:G:H21	20:L7:54:A:N6	2.09	0.51
20:L7:63:C:H5'	20:L7:64:G:H5"	1.92	0.51
21:L8:137:A:H2'	21:L8:138:C:H6	1.74	0.51
22:LA:19:HIS:ND1	22:LA:190:LYS:O	2.37	0.51
22:LA:116:LEU:HD13	22:LA:164:ALA:HB2	1.91	0.51
25:LD:177:THR:HB	25:LD:190:PHE:CE1	2.46	0.51
27:LF:219:GLY:O	27:LF:246:ARG:NH1	2.36	0.51
31:LJ:128:LEU:HD12	31:LJ:129:ASP:N	2.24	0.51
33:LM:124:LYS:HD2	35:LO:178:ARG:HH22	1.76	0.51
34:LN:98:LEU:HD13	34:LN:128:LYS:HD2	1.93	0.51
41:LU:87:THR:O	41:LU:91:LEU:HD22	2.11	0.51
54:Li:73:ILE:O	54:Li:77:VAL:N	2.30	0.51
58:Lm:79:GLU:HG2	58:Lm:80:PRO:HD2	1.92	0.51
67:SK:85:LEU:HG	67:SK:86:PRO:HD2	1.93	0.51
72:SU:22:ILE:HG22	72:SU:114:VAL:HG22	1.92	0.51
75:Sg:14:HIS:NE2	75:Sg:18:VAL:HG22	2.24	0.51
79:S2:353:C:H2'	79:S2:354:U:C6	2.46	0.51
79:S2:619:A:O2'	79:S2:622:C:N4	2.40	0.51
79:S2:694:G:H2'	79:S2:695:C:O4'	2.11	0.51
79:S2:1491:G:H2'	79:S2:1492:U:C6	2.46	0.51
79:S2:1758:G:O3'	79:S2:1774:C:N4	2.44	0.51
87:AT:8:U:O4	87:AT:13:U:O2'	2.14	0.51
63:Lz:159:MET:HE1	63:Lz:194:LEU:HD21	1.93	0.51
1:cH:47:GLY:H	9:se:55:PRO:HD3	1.74	0.51
6:sG:2:LYS:HB3	6:sG:15:LEU:HD11	1.93	0.51
14:sa:52:ASP:OD1	14:sa:53:ILE:N	2.44	0.51
15:sC:88:ILE:HG13	15:sC:93:ILE:HD11	1.92	0.51
21:l8:86:U:H5'	53:lh:7:ARG:HH12	1.75	0.51
22:lA:186:TYR:HB2	22:lA:196:TRP:CZ3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:lC:211:TYR:HE1	24:lC:229:LEU:HB3	1.76	0.51
38:lR:115:ILE:HD12	38:lR:120:TYR:HB2	1.91	0.51
52:lg:21:ARG:NH2	85:l5:2641:A:OP1	2.44	0.51
52:lg:60:ARG:O	52:lg:63:VAL:HG12	2.11	0.51
69:sQ:9:SER:OG	69:sQ:24:HIS:NE2	2.40	0.51
71:sT:75:MET:HE2	71:sT:75:MET:HA	1.91	0.51
75:sg:132:TRP:HA	75:sg:138:CYS:HA	1.91	0.51
76:sM:54:SER:HB3	76:sM:78:LYS:HE3	1.91	0.51
79:s2:1092:G:H2'	79:s2:1093:A:H8	1.75	0.51
79:s2:1221:G:H2'	79:s2:1222:G:C8	2.46	0.51
79:s2:1740:C:H2'	79:s2:1741:U:C6	2.45	0.51
79:s2:1856:C:H2'	79:s2:1857:G:C8	2.46	0.51
80:cB:287:ARG:HG2	80:cB:290:CYS:SG	2.50	0.51
84:lt:131:GLU:HA	84:lt:152:ILE:HD12	1.93	0.51
84:lt:131:GLU:HB3	84:lt:152:ILE:HG23	1.92	0.51
85:l5:1317:U:H2'	85:l5:1318:C:C6	2.46	0.51
85:l5:1846:G:H2'	85:l5:1847:C:H6	1.76	0.51
85:l5:4563:U:C2	85:l5:4564:A:C8	2.98	0.51
2:SE:115:THR:CG2	2:SE:118:GLU:HG2	2.40	0.51
4:SL:17:PHE:CD2	79:S2:222:U:H5"	2.46	0.51
5:SX:5:ARG:H	79:S2:1160:U:P	2.33	0.51
10:SA:158:ASP:C	10:SA:159:ILE:HD13	2.36	0.51
11:SB:183:GLU:O	11:SB:187:LYS:HG2	2.11	0.51
16:SN:47:PRO:HA	16:SN:50:ILE:HD12	1.91	0.51
85:L5:318:A:H2'	85:L5:319:A:C8	2.45	0.51
85:L5:677:G:H2'	85:L5:678:C:C6	2.45	0.51
85:L5:1368:A:C8	44:LY:3:PHE:HE1	2.29	0.51
85:L5:2098:G:H2'	85:L5:2099:G:C8	2.45	0.51
85:L5:3721:U:H2'	85:L5:3722:G:H8	1.76	0.51
85:L5:4578:G:H2'	85:L5:4579:U:C6	2.45	0.51
30:LI:145:GLU:OE2	30:LI:145:GLU:N	2.44	0.51
38:LR:116:ASP:OD2	38:LR:119:MET:HG2	2.11	0.51
43:LX:148:ASP:HA	43:LX:151:ASN:HD22	1.74	0.51
45:LZ:14:LEU:HD12	52:Lg:88:ARG:HB3	1.92	0.51
50:Le:9:LYS:HE2	50:Le:72:SER:HA	1.93	0.51
67:SK:5:LYS:O	67:SK:9:ILE:HG13	2.11	0.51
68:SP:37:TYR:HD1	68:SP:38:SER:H	1.58	0.51
75:Sg:70:VAL:CG1	75:Sg:113:PHE:CE1	2.89	0.51
79:S2:479:C:H2'	79:S2:480:G:H8	1.75	0.51
79:S2:874:G:H2'	79:S2:875:A:C8	2.43	0.51
79:S2:952:G:H2'	79:S2:953:C:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:965:U:O2	79:S2:1066:U:H1'	2.10	0.51
79:S2:1805:G:H2'	79:S2:1806:A:H8	1.75	0.51
87:AT:9:A:N6	87:AT:23:U:OP2	2.24	0.51
63:Lz:56:LYS:HD3	63:Lz:56:LYS:H	1.75	0.51
6:sG:216:ARG:O	6:sG:217:MET:HG2	2.10	0.51
18:sW:30:CYS:SG	18:sW:31:SER:N	2.84	0.51
29:lH:8:GLN:OE1	29:lH:74:CYS:SG	2.69	0.51
31:lJ:73:THR:HG21	31:lJ:75:ARG:NH2	2.26	0.51
58:lm:88:LYS:HE2	58:lm:89:TYR:CZ	2.46	0.51
64:sR:11:LYS:O	79:s2:1372:U:H2'	2.11	0.51
64:sR:28:PHE:H	79:s2:1455:A:C3'	2.24	0.51
64:sR:31:ASN:N	79:s2:1455:A:OP1	2.44	0.51
65:sD:37:VAL:HG23	65:sD:50:ILE:HA	1.92	0.51
66:sF:122:ARG:HB3	66:sF:146:ARG:NH2	2.25	0.51
70:sS:34:LYS:HE3	79:s2:1631:U:H4'	1.93	0.51
76:sM:25:ALA:HB2	76:sM:111:VAL:HG23	1.93	0.51
79:s2:185:G:H2'	79:s2:186:C:H6	1.74	0.51
79:s2:553:U:OP2	79:s2:554:A:H4'	2.11	0.51
79:s2:1266:C:C4	79:s2:1517:G:N2	2.79	0.51
79:s2:1758:G:O6	79:s2:1772:C:N4	2.44	0.51
80:cB:561:LEU:C	80:cB:561:LEU:HD23	2.35	0.51
80:cB:561:LEU:HD21	80:cB:570:ILE:HD13	1.92	0.51
85:l5:99:A:H2'	85:l5:100:C:O2	2.11	0.51
85:l5:1953:U:H2'	85:l5:1954:U:C6	2.46	0.51
85:l5:2377:C:H2'	85:l5:2378:G:O4'	2.11	0.51
85:l5:3597:G:H2'	85:l5:3598:C:H6	1.76	0.51
85:l5:3699:C:HO2'	85:l5:3775:A:HO2'	1.56	0.51
2:SE:91:SER:HA	2:SE:98:ASN:HA	1.92	0.51
3:SI:3:ILE:HD11	3:SI:30:GLY:HA3	1.92	0.51
85:L5:480:C:H2'	85:L5:481:G:C8	2.45	0.51
85:L5:1082:C:O2'	85:L5:1083:U:O5'	2.21	0.51
85:L5:1100:U:H3	85:L5:1194:G:H1	1.59	0.51
85:L5:1327:C:H2'	85:L5:1328:G:H8	1.76	0.51
85:L5:2274:C:H2'	85:L5:2275:G:C8	2.46	0.51
85:L5:4312:U:H2'	85:L5:4313:A:H8	1.76	0.51
85:L5:4520:G:H2'	85:L5:4521:U:O4'	2.11	0.51
85:L5:4761:G:H5"	35:LO:12:ARG:CZ	2.41	0.51
24:LC:308:LYS:HG2	24:LC:310:HIS:CE1	2.46	0.51
27:LF:95:ILE:HD13	27:LF:141:ALA:HB2	1.91	0.51
46:La:36:GLY:HA3	46:La:40:HIS:CE1	2.44	0.51
53:Lh:64:THR:HA	53:Lh:67:GLU:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:Li:57:ALA:O	54:Li:61:LEU:HD12	2.10	0.51
60:Lo:2:VAL:HG23	60:Lo:88:CYS:SG	2.50	0.51
65:SD:217:ILE:HG13	65:SD:218:LEU:H	1.76	0.51
68:SP:121:ILE:HD13	70:SS:123:LEU:HD21	1.93	0.51
70:SS:59:LEU:HD12	70:SS:64:VAL:HG23	1.91	0.51
74:Sd:30:LEU:O	79:S2:1256:G:N2	2.41	0.51
78:Sf:87:THR:OG1	78:Sf:90:LYS:HE2	2.11	0.51
78:Sf:104:LYS:O	78:Sf:107:LYS:NZ	2.43	0.51
79:S2:815:U:C2	79:S2:816:A:C8	2.99	0.51
79:S2:1090:C:H2'	79:S2:1091:C:C6	2.46	0.51
79:S2:1275:G:N2	79:S2:1506:A:OP2	2.40	0.51
79:S2:1845:A:H2'	79:S2:1846:G:H8	1.75	0.51
63:Lz:1:MET:CG	63:Lz:2:SER:H	2.24	0.51
1:cH:44:TRP:HZ2	9:se:51:LYS:H	1.59	0.51
2:sE:133:THR:HG22	2:sE:134:LYS:HE2	1.93	0.51
3:sI:154:LYS:O	3:sI:157:LYS:NZ	2.44	0.51
10:sA:201:LEU:HD23	10:sA:202:TYR:CD1	2.46	0.51
14:sa:85:ARG:HH11	14:sa:85:ARG:HG3	1.76	0.51
21:l8:4:C:H2'	21:l8:5:U:C6	2.46	0.51
21:l8:75:G:OP1	57:ll:31:THR:HG22	2.11	0.51
22:lA:54:ARG:NH2	85:l5:3680:U:OP1	2.38	0.51
23:lB:228:TYR:O	85:l5:2835:A:O2'	2.25	0.51
26:lE:181:LEU:HD21	26:lE:271:LEU:HB3	1.92	0.51
31:lJ:22:LEU:HD21	31:lJ:130:PHE:CD1	2.46	0.51
35:lO:6:VAL:HG23	35:lO:32:LYS:HB2	1.91	0.51
42:lV:25:VAL:HG22	42:lV:38:TYR:HD1	1.76	0.51
69:sQ:39:LEU:HA	69:sQ:42:ILE:HD11	1.93	0.51
69:sQ:111:ILE:HA	69:sQ:114:GLN:NE2	2.17	0.51
70:sS:97:GLN:NE2	70:sS:98:VAL:O	2.44	0.51
75:sg:123:GLY:HA2	75:sg:129:ILE:HG13	1.93	0.51
79:s2:454:U:H2'	79:s2:455:A:H8	1.75	0.51
79:s2:799:U:C4	79:s2:867:G:N1	2.79	0.51
83:ls:74:ALA:C	83:ls:77:LYS:HZ3	2.18	0.51
84:lt:127:GLY:HA2	84:lt:130:LYS:HG2	1.91	0.51
85:l5:1095:A:H2	85:l5:1200:G:C2	2.27	0.51
85:l5:1977:C:O2'	85:l5:1978:C:OP1	2.28	0.51
85:l5:3972:A:H1'	85:l5:4050:A:N6	2.25	0.51
85:l5:4220:A:H2'	85:l5:4222:G:H5"	1.93	0.51
6:SG:182:PRO:O	6:SG:186:GLN:N	2.38	0.51
7:SJ:80:ARG:NH2	79:S2:818:A:OP1	2.33	0.51
13:SV:11:LEU:HG	15:SC:79:GLU:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:457:G:H2'	85:L5:458:C:C6	2.46	0.51
85:L5:926:G:H2'	85:L5:927:G:H8	1.75	0.51
85:L5:1806:G:H2'	85:L5:1807:C:C6	2.45	0.51
85:L5:1857:C:H2'	85:L5:1858:A:C8	2.45	0.51
85:L5:2394:G:O4'	85:L5:2397:G:N2	2.44	0.51
85:L5:2671:C:H2'	85:L5:2672:C:C6	2.46	0.51
85:L5:4467:A:O2'	85:L5:4510:A:N3	2.34	0.51
43:LX:94:ASN:OD1	43:LX:146:ALA:N	2.38	0.51
50:Le:26:ASP:OD1	50:Le:26:ASP:N	2.43	0.51
52:Lg:25:THR:HG23	52:Lg:29:ARG:O	2.10	0.51
53:Lh:86:LYS:HG3	53:Lh:86:LYS:O	2.09	0.51
75:Sg:188:HIS:CD2	75:Sg:219:TRP:CD1	2.98	0.51
76:SM:36:ARG:HH12	76:SM:40:LYS:HD3	1.76	0.51
79:S2:29:G:H2'	79:S2:30:C:C6	2.46	0.51
79:S2:89:C:O2'	79:S2:499:G:H5"	2.11	0.51
79:S2:1017:U:H2'	79:S2:1018:U:C6	2.46	0.51
79:S2:1718:G:O2'	79:S2:1815:A:N6	2.44	0.51
79:S2:1731:A:H2'	79:S2:1732:G:C8	2.45	0.51
88:CF:248:LEU:N	88:CF:326:ALA:O	2.40	0.51
84:Lt:127:GLY:HA2	84:Lt:130:LYS:HZ3	1.76	0.51
2:sE:124:CYS:HB3	2:sE:141:THR:OG1	2.10	0.51
4:sL:82:MET:CE	79:s2:372:U:O2'	2.59	0.51
7:sJ:30:LYS:HG2	9:se:42:PHE:CE2	2.44	0.51
8:sY:3:ASP:OD1	8:sY:3:ASP:N	2.37	0.51
8:sY:85:ASN:O	8:sY:85:ASN:OD1	2.28	0.51
10:sA:158:ASP:HB3	13:sV:69:ILE:HD12	1.93	0.51
12:sH:144:ILE:HD13	18:sW:52:ILE:HD11	1.93	0.51
18:sW:76:SER:OG	79:s2:1159:G:OP1	2.29	0.51
21:l8:8:U:H2'	21:l8:9:A:H8	1.75	0.51
21:l8:145:C:H2'	21:l8:146:U:C6	2.46	0.51
22:lA:35:ALA:HB1	22:lA:41:ILE:HB	1.92	0.51
23:lB:125:SER:OG	23:lB:126:LYS:N	2.44	0.51
30:lI:180:GLU:OE1	30:lI:184:MET:HE2	2.10	0.51
31:lJ:9:GLU:OE2	31:lJ:10:ASN:ND2	2.44	0.51
35:lO:194:GLU:O	35:lO:198:THR:HG23	2.11	0.51
56:lk:64:LEU:HD23	56:lk:64:LEU:C	2.36	0.51
64:sR:27:ASP:HA	79:s2:1456:G:P	2.50	0.51
65:sD:31:GLU:CD	65:sD:31:GLU:H	2.19	0.51
66:sF:145:ARG:HE	66:sF:149:GLN:HG3	1.74	0.51
79:s2:440:G:OP1	79:s2:1798:C:O2'	2.27	0.51
79:s2:752:G:OP2	79:s2:752:G:N2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:42:LYS:HD2	80:cB:79:TYR:CZ	2.46	0.51
80:cB:434:TYR:HE1	80:cB:442:LEU:HD22	1.75	0.51
85:l5:5057:C:H2'	85:l5:5058:A:C8	2.46	0.51
6:SG:22:ARG:HH22	6:SG:40:ALA:HB1	1.76	0.51
16:SN:46:THR:HG23	16:SN:49:GLN:NE2	2.26	0.51
17:SO:26:ASN:OD1	17:SO:27:VAL:N	2.44	0.51
17:SO:134:PRO:HB3	79:S2:944:A:H5"	1.93	0.51
18:SW:86:LEU:HD11	18:SW:117:ARG:NH2	2.25	0.51
85:L5:25:A:C8	85:L5:341:G:C8	2.98	0.51
85:L5:148:C:OP2	28:LG:197:LYS:NZ	2.43	0.51
85:L5:150:U:H3	28:LG:163:PRO:HD2	1.75	0.51
85:L5:1378:C:C4	32:LL:158:ARG:HD2	2.46	0.51
85:L5:1543:G:OP1	85:L5:2514:G:O2'	2.23	0.51
85:L5:3711:A:H1'	79:S2:970:G:C8	2.45	0.51
85:L5:4383:U:H2'	85:L5:4384:U:C6	2.46	0.51
85:L5:4968:A:H2'	85:L5:4969:C:H6	1.76	0.51
20:L7:97:G:O5'	27:LF:134:ARG:NH2	2.37	0.51
23:LB:92:TYR:HB2	23:LB:159:VAL:HG13	1.93	0.51
29:LH:135:SER:N	29:LH:145:ILE:O	2.44	0.51
32:LL:51:ALA:HB2	32:LL:149:GLN:HG3	1.92	0.51
34:LN:128:LYS:HB3	34:LN:130:PHE:CE2	2.44	0.51
38:LR:11:ALA:HA	38:LR:41:ILE:CD1	2.40	0.51
38:LR:168:GLU:HB3	79:S2:908:A:OP2	2.11	0.51
39:LS:71:SER:O	39:LS:76:LYS:NZ	2.37	0.51
47:Lb:55:LYS:HD3	47:Lb:55:LYS:C	2.35	0.51
70:SS:102:GLY:HA2	70:SS:105:ASN:ND2	2.26	0.51
74:Sd:14:PHE:HD2	79:S2:1661:A:C8	2.29	0.51
75:Sg:31:ILE:HG21	75:Sg:299:PHE:CE2	2.45	0.51
83:Ls:55:MET:HB3	83:Ls:87:GLY:HA2	1.92	0.51
4:sL:59:LYS:NZ	79:s2:374:G:OP1	2.34	0.50
4:sL:113:LEU:HD11	4:sL:117:PHE:HB2	1.92	0.50
10:sA:143:PRO:HB2	13:sV:34:MET:HE3	1.92	0.50
16:sN:9:LYS:NZ	79:s2:1092:G:OP2	2.35	0.50
21:l8:60:G:OP1	43:lX:68:ARG:NH2	2.44	0.50
22:lA:6:ARG:HH12	22:lA:199:VAL:H	1.59	0.50
29:lH:40:HIS:ND1	85:l5:4702:G:H4'	2.25	0.50
32:lL:8:MET:CE	37:lQ:168:ARG:HA	2.40	0.50
36:lP:49:LYS:O	36:lP:52:THR:OG1	2.26	0.50
64:sR:9:VAL:HG21	79:s2:1368:U:O2	2.12	0.50
69:sQ:78:VAL:HG22	79:s2:1673:U:H5"	1.93	0.50
76:sM:85:LEU:O	76:sM:85:LEU:HD12	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:874:G:H2'	79:s2:875:A:H8	1.76	0.50
79:s2:1036:A:H4'	79:s2:1855:G:N2	2.26	0.50
80:cB:751:CYS:O	80:cB:782:PHE:HB2	2.10	0.50
80:cB:845:LYS:HD3	80:cB:846:GLU:OE2	2.11	0.50
81:aP:3:C:H42	81:aP:70:A:N6	2.07	0.50
81:aP:43:A:H2'	81:aP:44:A:H8	1.75	0.50
85:l5:288:G:H2'	85:l5:289:C:C6	2.46	0.50
85:l5:1683:U:H2'	85:l5:1684:A:H8	1.76	0.50
85:l5:1716:G:H2'	85:l5:1717:C:C6	2.45	0.50
85:l5:1895:G:O2'	85:l5:1907:A:N3	2.34	0.50
85:l5:2747:U:H2'	85:l5:2748:C:C6	2.46	0.50
85:l5:3784:A:O2'	85:l5:3785:A:H3'	2.11	0.50
85:l5:3805:U:H2'	85:l5:3806:G:H8	1.76	0.50
85:l5:4578:G:H2'	85:l5:4579:U:C6	2.46	0.50
86:LW:70:LYS:NZ	79:S2:1783:C:O3'	2.44	0.50
6:SG:63:MET:HG3	6:SG:99:GLY:O	2.11	0.50
7:SJ:73:GLU:O	7:SJ:77:LEU:HG	2.11	0.50
85:L5:108:A:C4	85:L5:334:A:C6	2.99	0.50
85:L5:919:C:H2'	85:L5:920:C:C6	2.45	0.50
85:L5:1511:U:H2'	85:L5:1512:G:C8	2.46	0.50
85:L5:1759:G:H3'	85:L5:1760:G:C8	2.46	0.50
85:L5:2437:C:H42	43:LX:89:LYS:HE2	1.76	0.50
85:L5:2538:U:H2'	85:L5:2539:C:C6	2.47	0.50
85:L5:2735:G:H2'	85:L5:2736:G:H8	1.75	0.50
24:LC:289:LEU:HA	24:LC:292:ILE:HB	1.92	0.50
38:LR:173:ARG:HA	79:S2:909:G:H5"	1.93	0.50
45:LZ:128:LYS:O	45:LZ:132:GLN:NE2	2.44	0.50
66:SF:28:VAL:HG13	66:SF:110:GLN:HA	1.92	0.50
67:SK:28:HIS:CE1	74:Sd:8:TRP:HZ2	2.29	0.50
69:SQ:43:GLU:OE1	79:S2:1543:U:O2'	2.28	0.50
72:SU:100:GLN:HG2	72:SU:101:ILE:HG23	1.93	0.50
75:Sg:104:HIS:ND1	75:Sg:126:ASP:OD2	2.32	0.50
79:S2:354:U:H2'	79:S2:355:G:C8	2.46	0.50
79:S2:945:U:H2'	79:S2:946:U:H6	1.76	0.50
79:S2:1435:C:O2'	79:S2:1437:C:N4	2.44	0.50
79:S2:1456:G:H2'	79:S2:1457:U:H6	1.75	0.50
79:S2:1792:G:H2'	79:S2:1793:A:H8	1.75	0.50
2:sE:206:ASP:O	2:sE:222:LEU:N	2.44	0.50
6:sG:92:ARG:O	79:s2:453:C:O2'	2.21	0.50
7:sJ:67:ASP:OD2	7:sJ:69:ARG:HG2	2.11	0.50
7:sJ:133:ARG:NH2	79:s2:581:U:OP1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:lA:57:PRO:HB3	61:lp:54:ILE:HG13	1.94	0.50
31:lJ:98:ASN:ND2	85:l5:4250:G:OP1	2.43	0.50
33:lM:98:ARG:NH1	85:l5:4872:G:O6	2.44	0.50
36:lP:111:SER:O	36:lP:111:SER:OG	2.29	0.50
46:la:21:ARG:NH2	85:l5:1317:U:OP1	2.44	0.50
48:lc:34:THR:O	48:lc:38:ILE:HG23	2.10	0.50
64:sR:41:ILE:C	79:s2:1388:A:C8	2.89	0.50
65:sD:42:THR:OG1	65:sD:45:ARG:O	2.23	0.50
65:sD:137:VAL:HG22	65:sD:151:LYS:HG3	1.93	0.50
70:sS:46:ARG:HE	70:sS:52:LEU:HD12	1.76	0.50
75:sg:191:HIS:CD2	75:sg:195:LEU:HD11	2.45	0.50
79:s2:17:C:O2'	79:s2:1194:A:N1	2.39	0.50
79:s2:85:A:H2'	79:s2:86:C:C6	2.46	0.50
79:s2:502:C:H3'	79:s2:503:C:C6	2.47	0.50
79:s2:562:U:H2'	79:s2:563:G:C8	2.46	0.50
79:s2:604:A:H2'	79:s2:605:A:C8	2.47	0.50
79:s2:958:G:H2'	79:s2:959:G:C8	2.46	0.50
79:s2:1707:U:O2	79:s2:1849:G:N2	2.42	0.50
85:l5:66:A:HO2'	85:l5:326:C:HO2'	1.59	0.50
85:l5:254:G:H2'	85:l5:255:C:O4'	2.11	0.50
85:l5:1076:C:H2'	85:l5:1077:C:H6	1.76	0.50
85:l5:1308:C:H2'	85:l5:1309:C:C6	2.46	0.50
85:l5:1397:A:N1	85:l5:1498:G:O2'	2.38	0.50
85:l5:1759:G:H3'	85:l5:1760:G:C8	2.46	0.50
85:l5:2018:C:H2'	85:l5:2019:C:H6	1.75	0.50
85:l5:2520:C:H2'	85:l5:2521:G:C8	2.43	0.50
85:l5:3726:A:H2'	85:l5:3727:A:C8	2.46	0.50
85:l5:3973:G:N2	85:l5:3974:G:O6	2.45	0.50
85:l5:4056:A:N3	85:l5:4057:C:N4	2.59	0.50
85:l5:4935:C:H2'	85:l5:4936:G:H8	1.74	0.50
2:SE:87:MET:SD	2:SE:122:LYS:CG	2.99	0.50
2:SE:134:LYS:N	79:S2:298:G:OP1	2.44	0.50
2:SE:147:ILE:HG21	2:SE:169:ILE:HD11	1.93	0.50
10:SA:60:LEU:HD13	13:SV:78:ILE:HG21	1.92	0.50
10:SA:123:VAL:HG13	10:SA:145:ILE:HD11	1.94	0.50
12:SH:49:LYS:HG2	12:SH:51:ILE:HG13	1.93	0.50
14:Sa:22:ARG:NH2	14:Sa:27:ALA:O	2.44	0.50
14:Sa:36:ILE:HG23	14:Sa:73:TYR:HB2	1.92	0.50
15:SC:188:CYS:SG	79:S2:1356:G:N2	2.79	0.50
85:L5:1070:G:O2'	85:L5:1071:C:O5'	2.24	0.50
85:L5:2328:G:H2'	85:L5:2329:U:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2588:C:OP1	85:L5:2768:C:O2'	2.23	0.50
85:L5:2621:A:H2'	85:L5:2622:G:C8	2.45	0.50
85:L5:3814:U:H2'	85:L5:3815:G:C8	2.46	0.50
85:L5:4236:G:H2'	85:L5:4237:C:H6	1.76	0.50
85:L5:4622:A:H2'	85:L5:4623:G:C8	2.46	0.50
22:LA:114:CYS:HB2	22:LA:169:VAL:HG13	1.94	0.50
30:LI:8:CYS:C	30:LI:9:TYR:HD2	2.20	0.50
31:LJ:83:LEU:CD1	31:LJ:170:TYR:OH	2.59	0.50
31:LJ:169:LYS:HG3	31:LJ:170:TYR:CE2	2.45	0.50
43:LX:151:ASN:N	43:LX:156:ILE:HD11	2.25	0.50
65:SD:45:ARG:HD3	65:SD:85:GLU:OE2	2.11	0.50
66:SF:29:GLN:N	66:SF:29:GLN:OE1	2.44	0.50
66:SF:172:CYS:O	66:SF:176:GLU:HG3	2.11	0.50
67:SK:15:LEU:HD11	67:SK:21:MET:HB2	1.92	0.50
75:Sg:52:TYR:HD1	75:Sg:309:VAL:HG11	1.76	0.50
76:SM:82:ASN:O	76:SM:86:GLY:N	2.37	0.50
82:Et:6:G:H1	82:Et:67:U:H3	1.59	0.50
84:Lt:62:LEU:HB3	84:Lt:73:VAL:HG13	1.93	0.50
7:sJ:65:GLU:HG3	7:sJ:66:LYS:HG3	1.93	0.50
10:sA:111:GLN:OE1	10:sA:111:GLN:N	2.39	0.50
19:sb:82:LYS:O	19:sb:83:GLN:NE2	2.44	0.50
20:l7:4:U:H2'	20:l7:5:A:H8	1.76	0.50
21:l8:97:A:OP2	53:lh:66:LYS:NZ	2.43	0.50
28:lG:161:VAL:HG21	28:lG:166:LEU:HD21	1.92	0.50
32:lL:179:PHE:N	46:la:134:GLU:OE2	2.37	0.50
34:lN:41:ARG:NH1	85:l5:8:U:OP1	2.45	0.50
37:lQ:15:ARG:NH1	37:lQ:52:PHE:O	2.44	0.50
44:lY:112:ASP:N	44:lY:112:ASP:OD1	2.40	0.50
54:li:42:ASP:N	54:li:42:ASP:OD2	2.40	0.50
56:lk:25:ILE:HB	56:lk:68:GLU:HG2	1.94	0.50
72:sU:94:PRO:HD2	72:sU:97:ILE:CG2	2.38	0.50
79:s2:434:G:H2'	79:s2:435:A:C8	2.47	0.50
79:s2:1010:G:H2'	79:s2:1011:A:H8	1.76	0.50
80:cB:42:LYS:HE2	80:cB:347:GLY:HA3	1.93	0.50
80:cB:123:ASP:OD1	80:cB:123:ASP:N	2.43	0.50
80:cB:581:GLU:H	80:cB:697:MET:HA	1.76	0.50
80:cB:827:ASN:O	80:cB:832:SER:OG	2.30	0.50
81:aP:2:U:H2'	81:aP:3:C:C6	2.46	0.50
82:pE:58:A:O2'	82:pE:60:U:OP2	2.23	0.50
85:l5:222:C:H2'	85:l5:223:G:O4'	2.12	0.50
85:l5:928:C:H2'	85:l5:929:A:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:1259:G:H2'	85:l5:1260:G:H8	1.75	0.50
85:l5:4173:G:H2'	85:l5:4174:U:C6	2.47	0.50
2:SE:30:ARG:NH2	79:S2:346:C:O2'	2.45	0.50
3:SI:149:TYR:O	3:SI:153:LYS:HG3	2.11	0.50
6:SG:92:ARG:NH1	79:S2:1738:C:OP1	2.39	0.50
7:SJ:110:LEU:HD22	7:SJ:147:PHE:HB3	1.94	0.50
9:Se:57:ALA:HA	79:S2:607:U:OP1	2.11	0.50
10:SA:163:CYS:SG	10:SA:174:MET:HE3	2.52	0.50
11:SB:128:LYS:HA	11:SB:134:LEU:HA	1.93	0.50
13:SV:18:SER:N	13:SV:54:ALA:O	2.25	0.50
14:Sa:10:ARG:HB2	14:Sa:33:ASP:OD2	2.10	0.50
16:SN:29:THR:OG1	16:SN:32:ASP:OD1	2.15	0.50
85:L5:280:G:H5'	34:LN:120:TRP:CE3	2.47	0.50
85:L5:1072:C:N4	85:L5:1240:G:O6	2.40	0.50
85:L5:1479:G:H2'	85:L5:1480:C:C6	2.47	0.50
85:L5:1647:U:P	24:LC:63:SER:HB2	2.52	0.50
85:L5:1726:U:H2'	85:L5:1727:U:H6	1.76	0.50
85:L5:1738:A:H2'	85:L5:1739:G:C8	2.47	0.50
85:L5:1751:A:H2'	85:L5:1752:G:C8	2.47	0.50
85:L5:2104:G:N7	85:L5:2105:A:N6	2.59	0.50
85:L5:4139:G:H21	85:L5:4140:C:N4	2.00	0.50
85:L5:5011:A:H2'	85:L5:5012:G:H8	1.76	0.50
21:L8:5:U:H2'	21:L8:6:C:C6	2.46	0.50
22:LA:36:GLU:OE1	22:LA:163:ARG:HD2	2.10	0.50
25:LD:208:MET:CE	25:LD:212:MET:SD	3.00	0.50
30:LI:91:LEU:CD1	30:LI:135:ILE:HA	2.42	0.50
32:LL:64:VAL:O	46:La:109:TYR:OH	2.22	0.50
36:LP:126:ARG:CA	36:LP:140:MET:HE1	2.42	0.50
69:SQ:78:VAL:HG11	79:S2:1674:G:P	2.51	0.50
69:SQ:134:GLY:HA3	69:SQ:140:ARG:HA	1.94	0.50
73:Sc:44:ARG:NH2	73:Sc:63:ARG:HB2	2.26	0.50
79:S2:801:U:H2'	79:S2:802:A:H8	1.75	0.50
79:S2:1146:C:H2'	79:S2:1147:C:C6	2.46	0.50
2:sE:43:PRO:HB2	2:sE:45:ILE:HG22	1.94	0.50
8:sY:55:ILE:CD1	8:sY:75:ILE:HG22	2.33	0.50
14:sa:75:VAL:O	14:sa:79:ILE:HG22	2.11	0.50
18:sW:23:ARG:HG3	19:sb:4:ALA:HB2	1.93	0.50
23:lB:314:ILE:HD12	23:lB:330:PHE:CZ	2.46	0.50
27:lF:212:LYS:HE2	85:l5:2073:C:OP1	2.12	0.50
29:lH:91:LYS:HB3	29:lH:143:GLU:OE2	2.11	0.50
31:lJ:95:ARG:HG2	31:lJ:96:LYS:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:lM:29:ASP:OD1	33:lM:30:VAL:N	2.41	0.50
35:lO:198:THR:OG1	35:lO:199:HIS:ND1	2.44	0.50
37:lQ:35:LEU:O	37:lQ:39:THR:OG1	2.22	0.50
44:lY:46:SER:OG	85:l5:239:C:OP1	2.29	0.50
64:sR:5:ARG:CG	64:sR:9:VAL:HG23	2.41	0.50
67:sK:67:PHE:HB2	67:sK:69:TRP:CH2	2.46	0.50
72:sU:18:HIS:HB3	72:sU:117:ALA:HB2	1.93	0.50
78:sf:103:LEU:HD12	78:sf:104:LYS:H	1.74	0.50
79:s2:72:C:H5'	79:s2:73:C:C4	2.47	0.50
79:s2:96:C:H2'	79:s2:97:U:H6	1.75	0.50
79:s2:1058:A:O5'	82:pE:38:A:H5"	2.11	0.50
80:cB:590:LEU:HD21	80:cB:603:TYR:HB3	1.93	0.50
83:ls:41:GLN:NE2	85:l5:1971:C:O2	2.44	0.50
85:l5:1179:U:H3'	85:l5:1180:C:H5"	1.92	0.50
85:l5:1258:G:H2'	85:l5:1259:G:C8	2.47	0.50
85:l5:2290:C:HO2'	85:l5:2322:G:HO2'	1.57	0.50
85:l5:2845:A:H61	85:l5:3843:C:N4	2.09	0.50
85:l5:4080:C:H2'	85:l5:4081:G:H8	1.76	0.50
6:SG:52:ILE:HD13	6:SG:102:VAL:HG21	1.93	0.50
7:SJ:39:ASN:ND2	79:S2:643:A:OP2	2.45	0.50
13:SV:80:SER:HB2	13:SV:83:PHE:HB3	1.94	0.50
85:L5:69:A:H5'	85:L5:100:C:O2'	2.11	0.50
85:L5:1672:U:H2'	85:L5:1673:U:C6	2.46	0.50
85:L5:1800:U:H2'	85:L5:1801:A:H8	1.76	0.50
85:L5:3910:C:H2'	85:L5:3911:C:H6	1.77	0.50
85:L5:3934:G:H2'	85:L5:3935:C:H6	1.77	0.50
85:L5:3973:G:H2'	63:Lz:28:PHE:HA	1.93	0.50
85:L5:4319:C:H2'	85:L5:4320:G:H8	1.77	0.50
85:L5:4459:U:H2'	85:L5:4460:U:H6	1.75	0.50
85:L5:4558:U:OP2	23:LB:246:ARG:NH2	2.28	0.50
85:L5:4586:G:OP1	35:LO:72:HIS:N	2.45	0.50
85:L5:4750:G:H2'	85:L5:4751:G:C8	2.47	0.50
20:L7:19:C:H2'	20:L7:20:U:C6	2.46	0.50
20:L7:54:A:C4	31:LJ:12:MET:SD	3.04	0.50
22:LA:140:ASN:N	22:LA:140:ASN:OD1	2.45	0.50
23:LB:33:PRO:O	23:LB:186:ASN:ND2	2.42	0.50
25:LD:243:ALA:O	25:LD:247:ILE:HG13	2.11	0.50
28:LG:210:GLU:CD	28:LG:210:GLU:H	2.19	0.50
37:LQ:113:ILE:HG21	37:LQ:120:ILE:HD11	1.93	0.50
40:LT:111:GLU:OE2	40:LT:112:ASN:ND2	2.44	0.50
45:LZ:68:ILE:N	45:LZ:119:GLU:OE2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:Lj:34:CYS:HB3	55:Lj:39:TYR:H	1.77	0.50
67:SK:51:SER:HA	79:S2:1276:A:O2'	2.12	0.50
71:ST:12:GLN:HE21	79:S2:1593:C:H1'	1.75	0.50
71:ST:105:GLN:NE2	79:S2:1564:C:OP1	2.34	0.50
79:S2:495:U:H2'	79:S2:496:C:O4'	2.11	0.50
79:S2:1432:U:H4'	79:S2:1437:C:O2	2.10	0.50
82:Et:19:G:N2	82:Et:57:A:H1'	2.26	0.50
1:cH:52:HIS:O	1:cH:52:HIS:ND1	2.44	0.50
4:sL:67:SER:OG	79:s2:114:G:OP2	2.28	0.50
5:sX:137:LYS:NZ	79:s2:30:C:O3'	2.45	0.50
7:sJ:63:LEU:HD23	7:sJ:70:ARG:HB2	1.93	0.50
8:sY:6:THR:HG23	8:sY:28:LEU:HD13	1.94	0.50
10:sA:176:TRP:CD1	10:sA:195:TRP:CZ3	2.99	0.50
18:sW:47:ILE:CD1	18:sW:63:VAL:CG1	2.90	0.50
19:sb:34:ASP:OD2	19:sb:82:LYS:HE3	2.11	0.50
22:lA:62:VAL:HG22	22:lA:73:THR:HG22	1.94	0.50
26:lE:224:LYS:NZ	26:lE:234:ASP:OD2	2.44	0.50
26:lE:239:LYS:NZ	26:lE:240:TYR:O	2.37	0.50
33:lM:119:ARG:HH12	35:lO:202:LEU:HD21	1.77	0.50
54:li:68:ARG:HH21	85:l5:3722:G:P	2.35	0.50
63:lz:55:LEU:HD11	63:lz:183:ILE:HG12	1.93	0.50
63:lz:172:VAL:HG21	63:lz:179:LEU:HD11	1.94	0.50
64:sR:5:ARG:CG	64:sR:9:VAL:CG2	2.88	0.50
64:sR:41:ILE:C	79:s2:1388:A:H8	2.19	0.50
66:sF:152:TRP:O	66:sF:156:THR:HG23	2.11	0.50
68:sP:41:GLN:OE1	68:sP:41:GLN:N	2.42	0.50
70:sS:20:ILE:HD11	70:sS:33:ILE:HG23	1.93	0.50
76:sM:52:LEU:O	76:sM:79:VAL:HG12	2.12	0.50
79:s2:601:G:H2'	79:s2:602:G:C8	2.47	0.50
79:s2:1588:A:H2'	79:s2:1589:A:H8	1.77	0.50
80:cB:327:ASP:OD2	80:cB:342:ARG:NH1	2.45	0.50
80:cB:635:LEU:C	80:cB:641:TRP:HB3	2.37	0.50
85:l5:162:A:H2'	85:l5:163:A:H8	1.77	0.50
85:l5:676:C:H2'	85:l5:677:G:H8	1.77	0.50
85:l5:2743:A:H2'	85:l5:2744:A:C8	2.47	0.50
85:l5:4039:G:N2	85:l5:4050:A:O2'	2.44	0.50
3:SI:37:LYS:HE2	3:SI:37:LYS:HA	1.93	0.50
5:SX:67:ARG:NH2	79:S2:618:C:H41	2.09	0.50
11:SB:125:VAL:HG12	11:SB:172:MET:HE2	1.94	0.50
11:SB:135:LEU:HD21	11:SB:217:MET:SD	2.52	0.50
85:L5:26:C:O2'	85:L5:338:A:N3	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:174:C:H2'	85:L5:175:C:C6	2.47	0.50
85:L5:451:C:H3'	85:L5:1294:A:H2	1.77	0.50
85:L5:679:C:OP1	62:Lr:84:LYS:NZ	2.31	0.50
85:L5:1415:G:H2'	85:L5:1416:G:C8	2.46	0.50
85:L5:1756:U:O2'	85:L5:1758:G:OP2	2.28	0.50
85:L5:1815:G:O6	47:Lb:49:HIS:NE2	2.41	0.50
85:L5:1996:C:O2'	83:Ls:40:MET:HE1	2.12	0.50
85:L5:2078:C:H2'	85:L5:2079:G:H8	1.76	0.50
85:L5:2273:G:H2'	85:L5:2274:C:C6	2.47	0.50
85:L5:3951:G:N2	85:L5:4061:G:N7	2.59	0.50
85:L5:4503:A:H2'	85:L5:4504:C:C6	2.47	0.50
21:L8:6:C:H2'	21:L8:7:U:H6	1.77	0.50
23:LB:348:ARG:HH21	23:LB:351:LEU:HD22	1.75	0.50
28:LG:112:GLN:HA	28:LG:115:LEU:CD2	2.40	0.50
31:LJ:90:ARG:HG3	31:LJ:107:PHE:HE2	1.76	0.50
34:LN:34:SER:OG	34:LN:36:LEU:O	2.29	0.50
44:LY:14:ASN:OD1	44:LY:17:ARG:NH2	2.45	0.50
48:Lc:104:ILE:HD12	48:Lc:104:ILE:C	2.36	0.50
61:Lp:47:MET:HE3	61:Lp:71:TYR:HE1	1.77	0.50
70:SS:40:TYR:CE2	70:SS:71:MET:HE3	2.46	0.50
75:Sg:261:LEU:O	75:Sg:264:LYS:NZ	2.40	0.50
79:S2:109:U:H2'	79:S2:110:U:C6	2.46	0.50
79:S2:414:A:OP1	79:S2:814:U:O2'	2.29	0.50
79:S2:982:G:N2	79:S2:1045:U:H1'	2.26	0.50
79:S2:1558:C:H2'	79:S2:1559:C:C6	2.46	0.50
79:S2:1562:C:H2'	79:S2:1563:G:H8	1.76	0.50
87:AT:68:G:H2'	87:AT:69:G:H8	1.75	0.50
3:sI:67:TRP:HE1	3:sI:69:SER:HB2	1.77	0.50
12:sH:25:GLN:HA	12:sH:28:LEU:HB2	1.94	0.50
21:l8:25:G:H2'	21:l8:26:C:C6	2.46	0.50
23:lB:394:LYS:NZ	85:l5:5000:G:OP1	2.41	0.50
28:lG:87:LEU:HD22	28:lG:184:ILE:HA	1.92	0.50
29:lH:5:LEU:HB2	29:lH:60:TRP:CZ3	2.46	0.50
37:lQ:187:LYS:NZ	37:lQ:188:ASN:OXT	2.45	0.50
39:lS:113:MET:HG3	39:lS:119:ALA:HB3	1.94	0.50
41:lU:84:LYS:HE3	41:lU:102:VAL:HG13	1.92	0.50
66:sF:51:HIS:O	69:sQ:50:LYS:HE2	2.11	0.50
66:sF:77:MET:HE3	66:sF:85:LYS:C	2.37	0.50
68:sP:85:ILE:HD12	68:sP:89:MET:SD	2.51	0.50
69:sQ:97:GLN:NE2	75:sg:58:ALA:HB3	2.27	0.50
79:s2:186:C:H2'	79:s2:187:G:H8	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:806:U:H2'	79:s2:807:G:H8	1.76	0.50
85:l5:1802:A:H5"	85:l5:1803:G:H5'	1.92	0.50
85:l5:3690:U:H2'	85:l5:3691:G:O4'	2.12	0.50
85:l5:4027:G:H5'	85:l5:4028:C:H5'	1.92	0.50
85:l5:4069:U:H2'	85:l5:4070:U:H6	1.77	0.50
85:l5:4159:C:H2'	85:l5:4160:C:C6	2.46	0.50
85:l5:4951:G:H2'	85:l5:4952:G:H8	1.77	0.50
86:LW:72:THR:C	86:LW:73:ARG:HE	2.19	0.50
2:SE:123:LEU:HD23	2:SE:161:GLN:OE1	2.12	0.50
2:SE:188:ASN:HA	2:SE:245:ARG:HH22	1.77	0.50
3:SI:141:ARG:CZ	79:S2:191:A:H5"	2.42	0.50
3:SI:174:CYS:HB3	3:SI:190:LEU:HD21	1.93	0.50
10:SA:112:ILE:HD11	79:S2:1350:U:H1'	1.92	0.50
10:SA:209:GLU:HA	10:SA:212:LYS:HE3	1.93	0.50
10:SA:222:VAL:HG13	10:SA:223:THR:HG23	1.94	0.50
12:SH:54:GLY:HA3	12:SH:57:ARG:HH21	1.74	0.50
12:SH:134:VAL:HG11	12:SH:187:PHE:HE1	1.76	0.50
16:SN:119:GLU:HA	16:SN:122:ILE:HG22	1.93	0.50
85:L5:197:A:N1	85:L5:225:G:O2'	2.39	0.50
85:L5:395:A:H2'	85:L5:396:A:C8	2.46	0.50
85:L5:664:G:H2'	85:L5:665:C:C6	2.46	0.50
85:L5:689:U:H2'	85:L5:690:C:C6	2.47	0.50
85:L5:995:C:O2'	85:L5:1049:C:N4	2.44	0.50
85:L5:1084:C:H2'	85:L5:1085:C:C6	2.47	0.50
85:L5:1449:C:H2'	85:L5:1450:C:H6	1.77	0.50
85:L5:2539:C:H2'	85:L5:2540:C:H6	1.77	0.50
85:L5:3599:A:H2'	85:L5:3600:G:H8	1.75	0.50
85:L5:3976:C:N4	85:L5:4035:G:OP2	2.45	0.50
85:L5:4565:C:H2'	85:L5:4566:U:C6	2.45	0.50
85:L5:4622:A:H2'	85:L5:4623:G:H8	1.76	0.50
85:L5:4771:C:H2'	85:L5:4772:C:C6	2.46	0.50
85:L5:4883:C:N4	26:LE:181:LEU:O	2.45	0.50
20:L7:54:A:C6	31:LJ:12:MET:SD	3.05	0.50
22:LA:136:VAL:HA	22:LA:148:VAL:HG12	1.93	0.50
26:LE:141:ARG:NH2	51:Lf:110:ILE:O	2.29	0.50
28:LG:141:ASN:O	28:LG:145:THR:OG1	2.21	0.50
41:LU:28:PRO:HG3	41:LU:112:LEU:CD2	2.40	0.50
74:Sd:48:LYS:HD2	74:Sd:48:LYS:C	2.37	0.50
76:SM:62:VAL:CG2	76:SM:66:GLU:OE2	2.59	0.50
78:Sf:151:ASN:OD1	78:Sf:151:ASN:N	2.43	0.50
79:S2:429:C:H2'	79:S2:430:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:656:G:N2	79:S2:663:C:H5”	2.25	0.50
79:S2:1036:A:C4	79:S2:1037:G:C8	3.00	0.50
63:Lz:75:ASP:OD1	63:Lz:76:GLU:N	2.44	0.50
1:cH:66:GLU:HA	1:cH:66:GLU:OE1	2.12	0.50
9:se:22:GLN:O	9:se:24:LYS:CD	2.59	0.50
10:sA:201:LEU:CD2	10:sA:202:TYR:HD1	2.23	0.50
11:sB:88:THR:HA	11:sB:98:THR:HA	1.93	0.50
12:sH:99:ARG:HD3	79:s2:913:A:OP2	2.12	0.50
12:sH:130:LEU:HA	12:sH:133:LEU:HB3	1.93	0.50
15:sC:264:SER:HB3	15:sC:267:GLN:NE2	2.26	0.50
17:sO:30:VAL:HG22	17:sO:94:HIS:HB2	1.93	0.50
32:lL:178:ALA:N	46:la:134:GLU:OE2	2.45	0.50
34:lN:124:ASP:HB3	34:lN:127:TYR:N	2.25	0.50
44:lY:55:VAL:HG23	44:lY:106:ILE:HA	1.94	0.50
70:sS:88:LYS:HB2	70:sS:95:TYR:HE1	1.77	0.50
71:sT:143:LYS:HZ3	71:sT:144:LYS:HE2	1.76	0.50
73:sc:42:ILE:HG12	73:sc:43:ILE:O	2.12	0.50
79:s2:974:C:H2’	79:s2:975:G:H8	1.76	0.50
79:s2:996:A:H2’	79:s2:997:A:H8	1.76	0.50
79:s2:1037:G:H4’	79:s2:1845:A:H4’	1.92	0.50
79:s2:1713:C:H2’	79:s2:1714:U:C6	2.47	0.50
84:lt:122:ALA:HB3	85:l5:1995:G:H21	1.77	0.50
85:l5:181:C:H3’	85:l5:182:G:C8	2.37	0.50
85:l5:909:A:N6	85:l5:910:G:O6	2.44	0.50
85:l5:1733:G:N3	85:l5:4214:A:H2’	2.26	0.50
85:l5:1946:G:O2’	85:l5:1948:G:OP2	2.26	0.50
85:l5:2486:G:C8	85:l5:2493:G:N2	2.79	0.50
85:l5:4188:U:H2’	85:l5:4189:U:C6	2.46	0.50
85:l5:4348:A:C6	85:l5:4350:C:C4	3.00	0.50
17:SO:149:ARG:NH1	79:S2:1064:C:O3’	2.45	0.50
18:SW:28:ARG:HB2	18:SW:29:PRO:HD3	1.92	0.50
85:L5:302:C:P	34:LN:68:ARG:HH21	2.35	0.50
85:L5:1468:C:OP1	46:La:132:ARG:NH2	2.44	0.50
85:L5:1548:G:O2’	85:L5:2812:A:N3	2.39	0.50
85:L5:1994:C:H1’	84:Lt:132:ILE:HA	1.93	0.50
85:L5:2703:G:C6	85:L5:2714:G:C6	3.00	0.50
85:L5:2727:C:H2’	85:L5:2728:U:C6	2.47	0.50
85:L5:2748:C:C4’	52:Lg:65:MET:HE1	2.41	0.50
85:L5:2890:C:H2’	85:L5:2891:U:C6	2.47	0.50
85:L5:3974:G:O6	63:Lz:26:ARG:N	2.45	0.50
85:L5:4113:U:H5”	85:L5:4115:G:C5	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:LD:37:VAL:HG12	25:LD:50:ARG:HD2	1.93	0.50
27:LF:226:HIS:CE1	27:LF:228:VAL:HG13	2.47	0.50
31:LJ:163:MET:HE3	31:LJ:174:ILE:CD1	2.42	0.50
39:LS:48:VAL:HG12	39:LS:54:MET:HB3	1.92	0.50
46:La:98:ALA:HB1	46:La:122:VAL:HA	1.93	0.50
49:Ld:54:MET:CE	49:Ld:59:THR:O	2.58	0.50
51:Lf:38:GLU:H	51:Lf:38:GLU:CD	2.17	0.50
64:SR:69:ILE:HD11	64:SR:74:GLN:HB3	1.93	0.50
66:SF:60:ARG:HD2	79:S2:1679:A:O5'	2.12	0.50
69:SQ:146:ARG:NH1	79:S2:1526:G:OP1	2.45	0.50
70:SS:130:ARG:HD2	79:S2:1608:U:H5"	1.93	0.50
70:SS:141:ARG:HH11	79:S2:1523:C:H3'	1.76	0.50
76:SM:83:LYS:O	76:SM:87:GLU:N	2.42	0.50
77:SZ:43:LYS:NZ	79:S2:1600:G:OP1	2.43	0.50
78:Sf:95:ARG:NH2	79:S2:1290:G:OP2	2.45	0.50
79:S2:604:A:H1'	79:S2:639:C:O2'	2.12	0.50
79:S2:1024:A:H2'	79:S2:1025:U:C6	2.46	0.50
79:S2:1130:G:OP2	79:S2:1130:G:N2	2.41	0.50
79:S2:1533:A:H2'	79:S2:1533:A:N3	2.25	0.50
88:CF:156:ASP:OD2	88:CF:194:SER:OG	2.23	0.50
63:Lz:203:ALA:HA	63:Lz:217:TYR:HA	1.92	0.50
83:Ls:20:LEU:O	83:Ls:24:TYR:N	2.42	0.50
83:Ls:38:LYS:O	83:Ls:41:GLN:NE2	2.45	0.50
1:cH:102:LYS:O	1:cH:105:VAL:HG12	2.12	0.50
7:sJ:97:ILE:O	7:sJ:100:LEU:HB3	2.10	0.50
9:se:24:LYS:HE2	9:se:24:LYS:HA	1.94	0.50
10:sA:158:ASP:C	10:sA:159:ILE:HD13	2.36	0.50
20:l7:64:G:H2'	20:l7:65:G:H8	1.76	0.50
21:l8:8:U:H2'	21:l8:9:A:C8	2.47	0.50
24:lC:159:GLU:HA	24:lC:217:ILE:HD12	1.94	0.50
27:lF:87:PRO:HG3	27:lF:144:TYR:CD2	2.45	0.50
30:lI:47:PRO:HG2	30:lI:142:LEU:HD23	1.93	0.50
36:lP:26:PHE:CE1	36:lP:121:LYS:HE2	2.46	0.50
55:lj:72:ARG:HA	55:lj:75:ARG:HH12	1.76	0.50
63:lz:175:THR:HG22	63:lz:177:ASP:H	1.77	0.50
65:sD:99:ILE:HD13	65:sD:173:ARG:HH12	1.77	0.50
68:sP:79:HIS:HB2	79:s2:1298:G:H1'	1.94	0.50
78:sf:119:ARG:CZ	78:sf:139:HIS:ND1	2.75	0.50
79:s2:1117:C:H2'	79:s2:1118:C:C6	2.47	0.50
79:s2:1316:C:H2'	79:s2:1317:C:H6	1.76	0.50
80:cB:13:MET:CE	80:cB:464:VAL:CG1	2.83	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:106:A:H2'	85:l5:107:G:O4'	2.12	0.50
85:l5:173:C:H2'	85:l5:174:C:C6	2.46	0.50
85:l5:1703:C:H5'	85:l5:1704:C:C5	2.47	0.50
85:l5:2277:C:H2'	85:l5:2278:G:C8	2.46	0.50
85:l5:2616:C:C2	85:l5:2722:G:N2	2.80	0.50
2:SE:15:PRO:HD2	2:SE:18:TRP:CE3	2.47	0.50
2:SE:120:LYS:HZ2	2:SE:163:ASP:HB2	1.76	0.50
4:SL:57:ASP:OD1	4:SL:60:CYS:N	2.43	0.50
10:SA:195:TRP:HE1	10:SA:197:VAL:HB	1.75	0.50
13:SV:80:SER:C	13:SV:82:ASN:H	2.20	0.50
16:SN:130:LYS:HD3	16:SN:137:PRO:HA	1.93	0.50
85:L5:1372:A:C4	85:L5:1373:A:C8	3.00	0.50
85:L5:1983:A:H4'	85:L5:1984:A:C8	2.46	0.50
85:L5:1985:G:N3	85:L5:2003:G:O2'	2.34	0.50
85:L5:2381:A:H1'	85:L5:2383:C:OP2	2.11	0.50
85:L5:3736:A:H2'	85:L5:3737:A:H8	1.76	0.50
85:L5:3902:A:OP1	85:L5:4450:U:H4'	2.11	0.50
85:L5:4894:A:H3'	85:L5:4895:C:H2'	1.93	0.50
21:L8:14:U:C4	21:L8:15:G:C6	2.99	0.50
23:LB:389:MET:HE3	23:LB:389:MET:CA	2.42	0.50
25:LD:280:VAL:HG22	25:LD:284:LYS:HE3	1.93	0.50
31:LJ:160:GLU:OE1	31:LJ:160:GLU:N	2.40	0.50
38:LR:11:ALA:CA	38:LR:41:ILE:HD11	2.41	0.50
41:LU:108:GLU:N	41:LU:108:GLU:OE2	2.45	0.50
42:LV:85:ARG:HD2	42:LV:100:ASP:HA	1.94	0.50
52:Lg:41:ALA:O	52:Lg:52:ARG:HD2	2.12	0.50
62:Lr:97:ILE:H	62:Lr:97:ILE:HD12	1.77	0.50
65:SD:94:ARG:O	65:SD:101:GLN:NE2	2.45	0.50
68:SP:130:ARG:NE	68:SP:131:PRO:HD2	2.22	0.50
69:SQ:84:ILE:HG13	69:SQ:85:ARG:N	2.26	0.50
72:SU:66:ARG:HB2	79:S2:1256:G:H8	1.76	0.50
79:S2:107:A:H2'	79:S2:108:G:C8	2.47	0.50
88:CF:15:HIS:CE1	88:CF:132:GLN:H	2.29	0.50
1:cH:46:ALA:HB2	9:se:41:ARG:HB2	1.94	0.50
6:sG:175:LYS:HB3	79:s2:65:C:OP2	2.12	0.50
6:sG:210:ALA:HA	6:sG:213:LEU:HG	1.94	0.50
10:sA:149:ASN:HB2	10:sA:165:ASN:OD1	2.11	0.50
11:sB:230:GLU:OE2	11:sB:230:GLU:N	2.39	0.50
14:sa:90:GLU:HA	14:sa:90:GLU:OE2	2.12	0.50
20:l7:1:G:H4'	25:lD:265:ARG:HG3	1.94	0.50
25:lD:34:LYS:HA	40:lT:27:LEU:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:lE:262:LYS:HD3	26:lE:268:GLN:HE21	1.76	0.50
32:lL:124:LEU:HD11	53:lh:119:TYR:HB2	1.94	0.50
38:lR:31:GLU:HA	38:lR:34:ASN:HD22	1.75	0.50
49:ld:95:ASP:N	49:ld:95:ASP:OD2	2.42	0.50
50:le:4:LEU:HB2	50:le:121:ARG:HG2	1.93	0.50
60:lo:37:GLY:HA3	85:l5:4342:C:O3'	2.12	0.50
65:sD:126:ILE:HD13	65:sD:134:CYS:HB2	1.94	0.50
66:sF:96:ALA:HB1	66:sF:173:LEU:HD11	1.94	0.50
71:sT:8:ASP:OD1	71:sT:8:ASP:N	2.45	0.50
75:sg:156:PHE:HA	75:sg:165:ILE:HD13	1.94	0.50
78:sf:103:LEU:HD13	78:sf:105:TYR:CB	2.42	0.50
79:s2:103:A:N6	79:s2:356:C:O5'	2.45	0.50
79:s2:352:U:H2'	79:s2:353:C:C6	2.47	0.50
79:s2:691:G:OP2	79:s2:691:G:N2	2.33	0.50
79:s2:1499:U:H2'	79:s2:1500:G:H8	1.77	0.50
79:s2:1828:C:H2'	79:s2:1829:G:C8	2.47	0.50
80:cB:5:THR:HG22	80:cB:8:GLN:HG3	1.94	0.50
80:cB:304:ILE:HD13	80:cB:336:LEU:HB2	1.94	0.50
85:l5:2570:U:H2'	85:l5:2571:C:C6	2.47	0.50
85:l5:2611:A:H2'	85:l5:2612:G:C8	2.47	0.50
85:l5:3606:U:H2'	85:l5:3607:U:H6	1.77	0.50
85:l5:4288:C:O2'	85:l5:4321:U:OP1	2.30	0.50
85:l5:4458:C:H2'	85:l5:4459:U:C6	2.46	0.50
85:l5:5010:U:H2'	85:l5:5011:A:H8	1.77	0.50
3:SI:66:SER:O	3:SI:189:VAL:HG12	2.12	0.50
3:SI:67:TRP:N	3:SI:72:CYS:O	2.33	0.50
3:SI:190:LEU:C	3:SI:195:LEU:HD21	2.36	0.50
6:SG:44:GLU:HG2	6:SG:45:TRP:CD1	2.47	0.50
6:SG:194:LEU:HA	6:SG:197:GLN:HG2	1.94	0.50
8:SY:21:LYS:HD2	8:SY:75:ILE:HD11	1.94	0.50
11:SB:123:ALA:HB3	11:SB:139:CYS:HB3	1.93	0.50
85:L5:711:A:H2'	85:L5:712:C:C6	2.47	0.50
85:L5:959:G:O2'	85:L5:2263:A:N6	2.44	0.50
85:L5:1304:C:H2'	85:L5:1305:C:C6	2.47	0.50
85:L5:1740:C:C2	85:L5:1785:C:N4	2.80	0.50
85:L5:2386:U:H2'	85:L5:2387:G:C8	2.46	0.50
85:L5:2715:G:H2'	85:L5:2716:C:C6	2.47	0.50
85:L5:2809:G:O2'	85:L5:4644:G:OP1	2.30	0.50
85:L5:3612:C:H1'	85:L5:5016:A:C8	2.47	0.50
85:L5:3871:A:H2'	85:L5:3872:A:H8	1.75	0.50
85:L5:4524:G:H2'	85:L5:4525:C:H6	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:LB:36:ASP:OD1	23:LB:36:ASP:N	2.42	0.50
23:LB:58:ARG:HA	23:LB:366:LYS:HG2	1.94	0.50
24:LC:218:ILE:HG22	24:LC:229:LEU:HG	1.93	0.50
27:LF:33:LEU:HA	27:LF:36:LYS:HE2	1.93	0.50
32:LL:140:SER:HA	32:LL:143:GLU:HB3	1.94	0.50
65:SD:218:LEU:HD21	75:Sg:189:ILE:HB	1.94	0.50
69:SQ:18:THR:OG1	79:S2:1672:U:OP1	2.19	0.50
74:Sd:45:GLN:OE1	79:S2:1495:G:N2	2.37	0.50
79:S2:811:A:H2'	79:S2:812:A:O4'	2.12	0.50
79:S2:1581:C:H5'	79:S2:1582:C:H5	1.76	0.50
79:S2:1737:G:H2'	79:S2:1738:C:C6	2.47	0.50
2:sE:36:HIS:CE1	2:sE:85:GLY:HA3	2.46	0.49
2:sE:54:TYR:HD2	8:sY:17:LEU:HD12	1.77	0.49
3:sI:125:LYS:H	3:sI:128:LYS:HZ1	1.60	0.49
7:sJ:34:GLU:HG3	7:sJ:35:TYR:CD1	2.47	0.49
16:sN:37:ILE:HG12	16:sN:54:LEU:HD11	1.93	0.49
16:sN:104:ARG:HG3	16:sN:105:ASN:ND2	2.27	0.49
23:lB:128:LYS:NZ	85:l5:4728:U:OP1	2.44	0.49
28:lG:117:ARG:O	28:lG:121:LYS:NZ	2.39	0.49
28:lG:136:LEU:H	28:lG:136:LEU:HD23	1.77	0.49
30:lI:47:PRO:HB3	30:lI:171:TRP:CZ2	2.47	0.49
33:lM:13:ALA:HB1	33:lM:55:MET:HB2	1.94	0.49
46:la:123:ILE:HG23	46:la:143:ALA:HB3	1.94	0.49
64:sR:3:ARG:NH2	79:s2:1467:C:H1'	2.27	0.49
64:sR:128:PHE:C	64:sR:129:LYS:HG3	2.36	0.49
71:sT:143:LYS:HD3	71:sT:143:LYS:C	2.37	0.49
76:sM:64:LEU:HD23	76:sM:68:LEU:HD23	1.93	0.49
79:s2:155:G:H2'	79:s2:156:G:C8	2.47	0.49
79:s2:317:C:H2'	79:s2:318:A:H5"	1.93	0.49
79:s2:441:C:H2'	79:s2:442:C:H6	1.77	0.49
79:s2:1373:C:C2	79:s2:1374:C:C5	3.00	0.49
79:s2:1714:U:H2'	79:s2:1715:A:C8	2.46	0.49
80:cB:396:MET:HE1	80:cB:416:VAL:CG2	2.41	0.49
80:cB:775:GLN:HG3	80:cB:782:PHE:CE1	2.47	0.49
81:aP:41:G:H2'	81:aP:42:A:C8	2.47	0.49
85:l5:120:A:H2'	85:l5:149:A:H61	1.77	0.49
85:l5:462:G:H2'	85:l5:463:A:C8	2.46	0.49
85:l5:498:C:H2'	85:l5:499:G:H4'	1.93	0.49
85:l5:907:C:H2'	85:l5:908:G:C8	2.47	0.49
85:l5:1244:G:H2'	85:l5:1245:C:H6	1.76	0.49
85:l5:1333:A:H2'	85:l5:1334:A:H8	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:1514:U:H2'	85:l5:1515:A:C8	2.48	0.49
85:l5:1655:C:O2	85:l5:4390:A:O2'	2.30	0.49
85:l5:2497:C:H2'	85:l5:2498:C:C6	2.46	0.49
8:SY:41:ARG:CB	8:SY:52:PRO:HB3	2.42	0.49
17:SO:119:LEU:O	17:SO:124:MET:HB2	2.12	0.49
85:L5:40:G:N2	85:L5:4380:A:H62	2.10	0.49
85:L5:222:C:H2'	85:L5:223:G:O4'	2.11	0.49
85:L5:667:A:N6	24:LC:291:ARG:HH22	2.09	0.49
85:L5:920:C:H2'	85:L5:921:C:C6	2.47	0.49
85:L5:1094:G:C6	85:L5:1203:G:C6	3.00	0.49
85:L5:1186:U:H2'	85:L5:1187:G:N3	2.27	0.49
85:L5:1273:G:H8	47:Lb:117:ARG:HD2	1.76	0.49
85:L5:2286:G:H2'	85:L5:2287:G:C8	2.47	0.49
85:L5:2747:U:H2'	85:L5:2748:C:C6	2.47	0.49
85:L5:3650:C:C2	85:L5:3651:A:C8	3.00	0.49
85:L5:3651:A:H2'	85:L5:3652:A:C8	2.47	0.49
85:L5:3770:U:H2'	85:L5:3771:C:C6	2.47	0.49
85:L5:4272:G:HO2'	85:L5:4273:A:H8	1.57	0.49
85:L5:4434:C:H2'	85:L5:4435:U:C6	2.47	0.49
85:L5:4607:A:H8	85:L5:4607:A:O5'	1.95	0.49
85:L5:5038:A:H2'	85:L5:5039:U:C6	2.46	0.49
22:LA:61:VAL:CG1	22:LA:76:PHE:CE2	2.84	0.49
23:LB:107:ALA:HB2	23:LB:201:LEU:HD22	1.93	0.49
25:LD:239:MET:SD	25:LD:240:TYR:N	2.84	0.49
28:LG:221:ALA:O	28:LG:224:THR:OG1	2.28	0.49
28:LG:232:GLU:N	28:LG:232:GLU:OE2	2.45	0.49
31:LJ:83:LEU:HD11	31:LJ:170:TYR:OH	2.12	0.49
66:SF:150:ALA:HA	66:SF:153:LEU:HD12	1.93	0.49
68:SP:81:ARG:HD3	79:S2:1516:G:H5'	1.93	0.49
79:S2:323:C:H4'	79:S2:324:C:C5	2.46	0.49
79:S2:492:C:N4	79:S2:507:G:OP2	2.33	0.49
79:S2:979:C:H2'	79:S2:980:A:H8	1.77	0.49
89:Pt:18:G:OP2	89:Pt:60:A:O2'	2.30	0.49
4:sL:28:THR:N	4:sL:29:GLY:HA2	2.27	0.49
6:sG:188:LYS:NZ	6:sG:192:ILE:HG23	2.27	0.49
8:sY:60:PHE:HB2	79:s2:571:U:O3'	2.12	0.49
8:sY:110:ARG:HH11	8:sY:114:MET:HE2	1.76	0.49
11:sB:224:GLU:HB2	11:sB:227:LYS:HD2	1.94	0.49
15:sC:102:LEU:CD1	15:sC:131:GLY:CA	2.90	0.49
15:sC:224:THR:O	79:s2:2:A:O2'	2.31	0.49
24:lC:187:GLN:NE2	24:lC:203:GLN:OE1	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:lF:197:VAL:HG13	27:lF:201:PHE:CD1	2.46	0.49
29:lH:92:MET:HE1	29:lH:158:ALA:HA	1.94	0.49
34:lN:118:SER:HB3	34:lN:132:VAL:HG22	1.94	0.49
35:lO:79:ILE:HG21	35:lO:138:LEU:HD11	1.95	0.49
38:lR:136:ARG:O	38:lR:140:GLU:HG3	2.12	0.49
40:lT:35:LYS:HE2	85:l5:1824:G:H5"	1.94	0.49
64:sR:129:LYS:HB3	79:s2:1125:C:H5'	1.95	0.49
68:sP:35:GLN:N	68:sP:35:GLN:OE1	2.45	0.49
68:sP:58:LYS:HA	68:sP:61:ARG:HE	1.75	0.49
68:sP:134:GLY:H	79:s2:1236:G:H4'	1.77	0.49
73:sc:37:ASP:CG	73:sc:40:ARG:HB2	2.36	0.49
76:sM:66:GLU:HA	76:sM:69:CYS:SG	2.52	0.49
79:s2:5:U:H2'	79:s2:6:G:C8	2.47	0.49
79:s2:442:C:H2'	79:s2:443:U:C6	2.47	0.49
79:s2:1386:A:H8	79:s2:1386:A:O5'	1.95	0.49
79:s2:1779:G:H2'	79:s2:1780:G:H8	1.77	0.49
82:pE:27:U:H2'	82:pE:28:C:C6	2.46	0.49
85:l5:2041:A:N7	85:l5:4434:C:O2'	2.45	0.49
6:SG:65:GLN:HE22	79:S2:1745:A:H2'	1.76	0.49
10:SA:41:ARG:HB2	10:SA:47:TYR:CE2	2.47	0.49
15:SC:265:PRO:HA	15:SC:268:GLU:HG2	1.94	0.49
17:SO:57:THR:OG1	79:S2:957:A:OP1	2.24	0.49
18:SW:104:LEU:HB3	18:SW:125:ILE:HD12	1.94	0.49
85:L5:190:G:H2'	85:L5:191:G:C8	2.47	0.49
85:L5:288:G:H2'	85:L5:289:C:H6	1.76	0.49
85:L5:422:C:H2'	85:L5:423:G:C8	2.46	0.49
85:L5:1191:C:H2'	85:L5:1192:C:C6	2.46	0.49
85:L5:1449:C:H2'	85:L5:1450:C:C6	2.47	0.49
85:L5:1497:A:N6	37:LQ:175:GLU:O	2.45	0.49
85:L5:2094:G:H2'	85:L5:2095:A:C4	2.47	0.49
85:L5:2778:G:N2	21:L8:113:C:OP2	2.45	0.49
85:L5:4192:A:H2'	85:L5:4193:C:H6	1.76	0.49
85:L5:4299:U:H2'	85:L5:4300:U:C6	2.47	0.49
85:L5:4940:C:O5'	26:LE:187:ARG:NH2	2.45	0.49
26:LE:198:SER:N	26:LE:288:PHE:OXT	2.42	0.49
29:LH:141:LYS:HG3	29:LH:142:ASP:CG	2.37	0.49
30:LI:206:LEU:HD23	30:LI:206:LEU:C	2.37	0.49
31:LJ:169:LYS:HG3	31:LJ:170:TYR:HD2	1.75	0.49
33:LM:100:ARG:HD3	35:LO:198:THR:O	2.12	0.49
35:LO:194:GLU:HA	35:LO:197:LYS:HB3	1.94	0.49
42:LV:83:ARG:HD2	42:LV:120:PRO:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:Lk:45:LEU:HD12	56:Lk:46:VAL:N	2.27	0.49
65:SD:58:VAL:HG13	65:SD:59:LEU:HD22	1.94	0.49
66:SF:171:GLU:OE1	66:SF:171:GLU:N	2.27	0.49
68:SP:60:LEU:C	68:SP:64:LYS:HE3	2.37	0.49
71:ST:77:LYS:NZ	79:S2:1587:G:N3	2.59	0.49
79:S2:509:G:H2'	79:S2:510:G:C8	2.44	0.49
79:S2:838:G:O2'	79:S2:840:C:OP2	2.24	0.49
79:S2:1070:A:H2'	79:S2:1071:G:O4'	2.13	0.49
79:S2:1198:G:H2'	79:S2:1199:A:C8	2.47	0.49
79:S2:1198:G:H2'	79:S2:1199:A:H8	1.76	0.49
79:S2:1452:A:O2'	79:S2:1475:G:N2	2.45	0.49
79:S2:1667:U:H2'	79:S2:1668:U:C6	2.47	0.49
79:S2:1801:A:H2'	79:S2:1802:C:C6	2.47	0.49
87:AT:30:C:H2'	87:AT:31:G:C8	2.48	0.49
82:Et:1:G:C6	82:Et:73:G:N1	2.80	0.49
88:CF:277:VAL:HA	88:CF:288:GLU:HA	1.93	0.49
88:CF:410:MET:SD	88:CF:411:CYS:C	2.95	0.49
89:Pt:24:A:H2'	89:Pt:25:C:C6	2.47	0.49
2:sE:63:LYS:HD3	8:sY:85:ASN:HB2	1.95	0.49
2:sE:181:CYS:HA	2:sE:227:VAL:HA	1.95	0.49
3:sI:117:TYR:CD2	3:sI:156:ALA:HB2	2.47	0.49
17:sO:146:ARG:N	79:s2:1856:C:OP2	2.40	0.49
21:l8:30:U:H2'	21:l8:31:G:H8	1.77	0.49
22:lA:53:GLY:HA2	22:lA:192:LYS:HD2	1.94	0.49
26:lE:179:LEU:HD12	26:lE:183:ARG:HA	1.92	0.49
28:lG:48:LYS:HB3	43:lX:42:THR:HB	1.93	0.49
33:lM:129:LYS:HA	33:lM:132:LYS:HG2	1.94	0.49
35:lO:94:ARG:NH2	85:l5:1915:C:OP2	2.45	0.49
38:lR:26:PRO:O	38:lR:29:THR:CG2	2.60	0.49
40:lT:154:ILE:HD12	40:lT:154:ILE:N	2.25	0.49
45:lZ:36:ARG:NH1	45:lZ:38:TYR:OH	2.45	0.49
45:lZ:68:ILE:HD11	45:lZ:118:PHE:HB2	1.93	0.49
47:lb:31:SER:HB2	85:l5:1463:C:H5"	1.95	0.49
50:le:88:LEU:HD11	50:le:95:TYR:HB2	1.95	0.49
57:ll:28:ARG:CA	57:ll:33:ASN:ND2	2.69	0.49
62:lr:38:PHE:O	62:lr:45:HIS:NE2	2.37	0.49
64:sR:29:HIS:H	79:s2:1455:A:C5'	2.25	0.49
71:sT:90:SER:OG	79:s2:1654:G:OP1	2.30	0.49
75:sg:67:SER:N	75:sg:81:GLY:O	2.40	0.49
75:sg:145:GLU:O	75:sg:175:LYS:NZ	2.38	0.49
76:sM:126:GLU:HA	76:sM:129:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:sZ:70:PRO:O	77:sZ:74:SER:OG	2.20	0.49
79:s2:479:C:C2	79:s2:480:G:C8	3.00	0.49
82:pE:22:G:C2	82:pE:23:A:C5	3.01	0.49
85:l5:457:G:H2'	85:l5:458:C:C6	2.46	0.49
85:l5:1333:A:H2'	85:l5:1334:A:C8	2.46	0.49
85:l5:2745:A:H2'	85:l5:2746:A:C8	2.46	0.49
85:l5:3765:G:O2'	85:l5:3767:C:N4	2.46	0.49
85:l5:3920:U:H2'	85:l5:3921:U:C6	2.46	0.49
85:l5:4236:G:H2'	85:l5:4237:C:H6	1.76	0.49
85:l5:4770:U:H2'	85:l5:4771:C:C6	2.47	0.49
5:SX:76:LYS:HB3	79:S2:482:G:OP1	2.13	0.49
5:SX:101:LEU:HB3	5:SX:124:LYS:HB3	1.93	0.49
5:SX:125:VAL:HG11	5:SX:133:LEU:HD11	1.94	0.49
13:SV:29:HIS:CD2	15:SC:87:PRO:HB3	2.47	0.49
85:L5:1100:U:O4	85:L5:1194:G:O6	2.29	0.49
85:L5:1171:G:N7	85:L5:1172:C:N4	2.59	0.49
85:L5:1309:C:H2'	85:L5:1310:C:C6	2.48	0.49
85:L5:1830:G:H2'	85:L5:1831:G:C8	2.47	0.49
85:L5:2397:G:C8	85:L5:2399:G:C8	3.00	0.49
85:L5:2465:C:H2'	85:L5:2466:G:C8	2.47	0.49
85:L5:4089:G:H2'	85:L5:4090:G:C8	2.47	0.49
85:L5:4345:C:H1'	60:Lo:82:MET:HE2	1.94	0.49
85:L5:4348:A:C6	85:L5:4350:C:C4	3.01	0.49
85:L5:4578:G:H2'	85:L5:4579:U:H6	1.77	0.49
85:L5:4911:A:C6	23:LB:97:ARG:HD3	2.47	0.49
20:L7:48:G:OP1	25:LD:226:TYR:OH	2.30	0.49
22:LA:7:GLY:HA2	22:LA:10:LYS:HG3	1.93	0.49
22:LA:176:ASP:OD2	22:LA:176:ASP:N	2.45	0.49
31:LJ:97:ASN:OD1	31:LJ:97:ASN:O	2.31	0.49
40:LT:157:GLU:OE1	40:LT:157:GLU:O	2.31	0.49
48:Lc:79:ILE:HG13	48:Lc:90:ARG:HG2	1.93	0.49
55:Lj:63:ARG:HG2	55:Lj:65:ARG:HG2	1.93	0.49
65:SD:223:ILE:O	75:Sg:188:HIS:ND1	2.43	0.49
69:SQ:125:ARG:HD2	79:S2:1648:G:H5"	1.93	0.49
74:Sd:22:ARG:CG	74:Sd:38:MET:HE1	2.41	0.49
75:Sg:217:MET:CE	75:Sg:219:TRP:HZ2	2.25	0.49
79:S2:291:G:H2'	79:S2:292:A:C8	2.46	0.49
79:S2:928:G:H1	79:S2:1013:U:H3	1.59	0.49
79:S2:1740:C:H2'	79:S2:1741:U:H6	1.78	0.49
79:S2:1743:G:H1'	79:S2:1792:G:N2	2.27	0.49
87:AT:65:G:H4'	88:CF:430:ARG:NH2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Lz:29:LEU:HD11	63:Lz:173:LYS:HA	1.94	0.49
6:sG:216:ARG:C	6:sG:218:LYS:H	2.20	0.49
10:sA:89:LYS:HA	10:sA:92:ALA:HB3	1.95	0.49
11:sB:68:GLU:HG3	11:sB:83:LYS:HD3	1.93	0.49
12:sH:76:GLN:NE2	12:sH:94:PHE:HB2	2.16	0.49
15:sC:252:THR:C	15:sC:256:TRP:CE3	2.90	0.49
21:l8:22:U:O4	85:l5:352:G:O2'	2.27	0.49
22:lA:45:VAL:HG22	22:lA:61:VAL:HG12	1.95	0.49
25:lD:196:ARG:NE	25:lD:200:MET:SD	2.85	0.49
28:lG:60:TYR:CE1	28:lG:61:ILE:HG13	2.48	0.49
41:lU:22:THR:HG23	41:lU:109:SER:HA	1.94	0.49
42:lV:27:ASN:O	42:lV:27:ASN:OD1	2.31	0.49
42:lV:82:ILE:HD13	42:lV:104:VAL:HG13	1.94	0.49
44:lY:36:LYS:O	44:lY:40:GLN:HG3	2.12	0.49
46:la:76:ASP:OD1	46:la:77:LYS:N	2.45	0.49
52:lg:66:ARG:NH1	85:l5:2539:C:O3'	2.46	0.49
56:lk:64:LEU:CD2	56:lk:65:ALA:O	2.61	0.49
67:sK:35:LEU:HD22	67:sK:40:VAL:HG21	1.94	0.49
75:sg:20:GLN:HG2	75:sg:68:ASP:HA	1.94	0.49
75:sg:218:LEU:HD23	75:sg:228:TYR:CD2	2.47	0.49
75:sg:244:ASN:OD1	75:sg:245:ARG:NE	2.45	0.49
76:sM:37:GLU:O	76:sM:41:ALA:N	2.42	0.49
79:s2:1466:G:C6	79:s2:1467:C:C4	3.00	0.49
80:cB:400:LYS:HB3	80:cB:413:PHE:HD2	1.76	0.49
80:cB:852:ASP:OD1	80:cB:853:ASN:N	2.45	0.49
85:l5:1566:C:H2'	85:l5:1567:U:C6	2.47	0.49
85:l5:3771:C:H2'	85:l5:3772:U:C6	2.48	0.49
85:l5:4071:U:H2'	85:l5:4072:C:H6	1.76	0.49
85:l5:4126:C:H5"	85:l5:4127:A:H5"	1.94	0.49
86:LW:49:ILE:HG21	85:L5:3615:G:C8	2.47	0.49
5:SX:125:VAL:HG22	5:SX:126:ALA:H	1.78	0.49
10:SA:175:TRP:HZ3	10:SA:178:LEU:HD23	1.72	0.49
12:SH:157:HIS:ND1	12:SH:190:PRO:CD	2.76	0.49
12:SH:158:LEU:HD12	12:SH:189:PHE:CZ	2.48	0.49
17:SO:72:TYR:CE1	73:Sc:63:ARG:HG2	2.47	0.49
85:L5:1191:C:H2'	85:L5:1192:C:H6	1.77	0.49
85:L5:1510:G:H2'	85:L5:1511:U:C6	2.47	0.49
85:L5:1646:A:H2'	85:L5:1647:U:C6	2.47	0.49
85:L5:2319:C:OP2	50:Le:62:SER:OG	2.26	0.49
85:L5:3842:C:H1'	42:LV:52:LEU:HD12	1.93	0.49
85:L5:4098:A:H2'	85:L5:4099:G:H4'	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4177:C:H2'	85:L5:4178:A:C8	2.41	0.49
85:L5:4420:U:O4	85:L5:4475:G:N2	2.45	0.49
85:L5:4467:A:H61	85:L5:4490:C:H42	1.60	0.49
85:L5:4690:G:OP1	29:LH:79:ASN:ND2	2.36	0.49
26:LE:242:ILE:HD12	26:LE:242:ILE:H	1.77	0.49
35:LO:193:THR:O	35:LO:197:LYS:N	2.40	0.49
37:LQ:93:GLN:HG3	46:La:87:ARG:HH22	1.76	0.49
41:LU:34:MET:HE2	41:LU:34:MET:HA	1.94	0.49
42:LV:20:LEU:HB2	42:LV:55:ALA:O	2.13	0.49
44:LY:56:GLN:HB3	44:LY:67:ILE:HD13	1.94	0.49
50:Le:108:ARG:NH1	50:Le:128:ARG:HG2	2.27	0.49
52:Lg:85:LYS:HA	52:Lg:88:ARG:CZ	2.41	0.49
62:Lr:105:ASP:OD1	62:Lr:105:ASP:N	2.46	0.49
65:SD:136:VAL:HG13	65:SD:152:PHE:HB2	1.94	0.49
68:SP:115:TYR:OH	79:S2:1620:A:OP1	2.23	0.49
68:SP:118:GLU:O	70:SS:120:HIS:N	2.46	0.49
70:SS:1:MET:SD	70:SS:2:SER:N	2.85	0.49
71:ST:25:SER:OG	71:ST:25:SER:O	2.28	0.49
75:Sg:47:ARG:HD2	75:Sg:52:TYR:CE2	2.37	0.49
75:Sg:57:ARG:HH21	75:Sg:95:GLY:HA3	1.77	0.49
75:Sg:119:GLN:HE21	75:Sg:131:LEU:HB2	1.76	0.49
78:Sf:103:LEU:HB2	78:Sf:105:TYR:CD2	2.47	0.49
79:S2:551:U:H2'	79:S2:552:G:C8	2.48	0.49
79:S2:1436:C:O2'	79:S2:1438:A:O5'	2.30	0.49
79:S2:1487:A:H2'	79:S2:1488:C:C6	2.47	0.49
79:S2:1745:A:H61	79:S2:1789:G:H2'	1.76	0.49
79:S2:1809:A:H2'	79:S2:1810:U:C6	2.48	0.49
79:S2:1828:C:H2'	79:S2:1829:G:H8	1.77	0.49
89:Pt:43:A:H2'	89:Pt:44:A:H8	1.75	0.49
11:sB:133:TYR:CE1	11:sB:221:PRO:HD2	2.48	0.49
11:sB:223:PHE:CE1	11:sB:225:LEU:HD22	2.47	0.49
12:sH:134:VAL:HG22	12:sH:134:VAL:O	2.12	0.49
22:lA:107:MET:O	22:lA:139:HIS:NE2	2.42	0.49
23:lB:133:TYR:O	23:lB:136:LYS:HG2	2.13	0.49
27:lF:193:GLU:OE2	27:lF:198:GLY:HA3	2.12	0.49
33:lM:108:ASP:HB3	35:lO:199:HIS:CD2	2.48	0.49
37:lQ:43:PHE:HE1	37:lQ:138:LEU:HD13	1.78	0.49
58:lm:122:ARG:HH12	58:lm:125:LYS:HG2	1.78	0.49
64:sR:29:HIS:CE1	79:s2:1476:A:N1	2.80	0.49
65:sD:164:VAL:HA	65:sD:168:VAL:HG22	1.93	0.49
67:sK:60:GLU:CD	67:sK:60:GLU:C	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:sQ:15:ARG:O	69:sQ:86:GLN:NE2	2.45	0.49
75:sg:178:ASN:HB3	75:sg:185:LYS:HD3	1.94	0.49
75:sg:249:CYS:HB3	75:sg:258:ILE:HD13	1.95	0.49
77:sZ:46:ASN:O	77:sZ:47:LEU:HD12	2.10	0.49
79:s2:17:C:H2'	79:s2:18:C:C6	2.48	0.49
79:s2:1221:G:H2'	79:s2:1222:G:H8	1.78	0.49
79:s2:1474:A:H2'	79:s2:1475:G:N9	2.27	0.49
79:s2:1552:G:H1'	79:s2:1557:C:N4	2.27	0.49
81:aP:6:C:H2'	81:aP:7:G:H8	1.77	0.49
83:ls:130:LEU:HD23	83:ls:131:GLY:O	2.12	0.49
85:l5:2640:G:H2'	85:l5:2641:A:C8	2.47	0.49
85:l5:4236:G:H2'	85:l5:4237:C:C6	2.47	0.49
85:l5:4459:U:H2'	85:l5:4460:U:H6	1.75	0.49
8:SY:37:LYS:HG2	8:SY:60:PHE:HE2	1.77	0.49
13:SV:16:LYS:HE2	13:SV:21:ASN:HB2	1.94	0.49
19:Sb:70:LYS:NZ	19:Sb:72:ARG:HA	2.28	0.49
85:L5:120:A:N1	85:L5:148:C:O2'	2.43	0.49
85:L5:238:C:OP2	44:LY:45:ARG:NH2	2.45	0.49
85:L5:978:G:H2'	85:L5:979:C:H6	1.78	0.49
85:L5:1244:G:H2'	85:L5:1245:C:H6	1.78	0.49
85:L5:1340:C:H2'	85:L5:1341:U:C6	2.48	0.49
85:L5:1366:G:O2'	85:L5:1367:C:O2	2.25	0.49
85:L5:1545:G:H2'	85:L5:1546:C:C6	2.47	0.49
85:L5:2415:U:H2'	85:L5:2416:G:C8	2.47	0.49
85:L5:2635:U:H2'	85:L5:2636:U:C6	2.47	0.49
85:L5:3910:C:H2'	85:L5:3911:C:C6	2.47	0.49
85:L5:4346:U:O2'	60:Lo:80:LYS:O	2.26	0.49
24:LC:49:ARG:NH2	24:LC:111:TRP:O	2.45	0.49
26:LE:114:ARG:HG3	62:Lr:119:ARG:NH2	2.27	0.49
27:LF:236:ARG:HD3	27:LF:239:GLN:HB2	1.94	0.49
32:LL:28:GLN:OE1	34:LN:202:ARG:NE	2.36	0.49
32:LL:50:PRO:O	32:LL:52:SER:N	2.45	0.49
37:LQ:86:ILE:HB	37:LQ:105:VAL:HG22	1.95	0.49
46:La:81:LEU:H	46:La:81:LEU:HD12	1.76	0.49
49:Ld:54:MET:HE1	49:Ld:59:THR:C	2.38	0.49
54:Li:66:ASP:OD1	54:Li:67:LYS:N	2.46	0.49
54:Li:94:LEU:HG	54:Li:98:ARG:HH12	1.77	0.49
60:Lo:32:SER:HG	60:Lo:35:ALA:H	1.61	0.49
66:SF:127:ARG:HG3	66:SF:128:ILE:N	2.27	0.49
70:SS:60:THR:HG23	70:SS:63:GLU:OE1	2.12	0.49
79:S2:14:C:O2'	79:S2:668:A:N1	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:146:G:H1	79:S2:173:A:H61	1.59	0.49
79:S2:293:C:O2'	79:S2:294:U:H3'	2.12	0.49
82:Et:14:A:C4	82:Et:15:G:C8	3.00	0.49
6:sG:64:LYS:HZ2	6:sG:82:SER:CB	2.19	0.49
6:sG:172:LYS:NZ	79:s2:65:C:O3'	2.41	0.49
7:sJ:37:LEU:HD12	7:sJ:43:VAL:HG23	1.93	0.49
7:sJ:58:ARG:O	7:sJ:62:THR:HG22	2.12	0.49
11:sB:62:LEU:O	11:sB:65:ARG:HB2	2.13	0.49
11:sB:128:LYS:HA	11:sB:134:LEU:HA	1.94	0.49
11:sB:151:ARG:O	64:sR:134:PRO:HD3	2.12	0.49
16:sN:26:LEU:HD11	16:sN:59:GLY:O	2.12	0.49
20:l7:78:C:O2'	85:l5:1736:A:N3	2.45	0.49
26:lE:181:LEU:HD11	26:lE:268:GLN:HA	1.95	0.49
27:lF:86:GLU:CD	40:lT:136:ARG:H	2.21	0.49
28:lG:53:ARG:HH21	85:l5:4161:G:N2	2.10	0.49
28:lG:103:ARG:HD2	28:lG:195:HIS:NE2	2.27	0.49
38:lR:41:ILE:O	38:lR:45:ILE:HG13	2.12	0.49
38:lR:42:ARG:NH2	85:l5:2525:U:OP2	2.46	0.49
42:lV:83:ARG:HG2	42:lV:98:PHE:CG	2.48	0.49
54:li:86:LYS:O	54:li:90:LEU:HD23	2.13	0.49
56:lk:5:ILE:HG21	56:lk:11:PHE:HB2	1.95	0.49
57:ll:22:PRO:HG3	85:l5:2431:A:OP1	2.12	0.49
64:sR:67:ARG:NH2	79:s2:1376:A:OP1	2.45	0.49
78:sf:95:ARG:HG3	79:s2:1302:G:H21	1.76	0.49
79:s2:24:C:O2'	79:s2:25:A:H8	1.96	0.49
79:s2:843:C:H4'	85:L5:4102:C:O2'	2.13	0.49
79:s2:1164:G:O2'	79:s2:1165:G:H5'	2.12	0.49
79:s2:1681:U:H2'	79:s2:1682:C:C6	2.48	0.49
80:cB:324:ASP:H	80:cB:342:ARG:HH12	1.61	0.49
83:ls:60:MET:HE3	85:l5:1961:G:OP1	2.13	0.49
85:l5:654:C:H2'	85:l5:655:C:C6	2.47	0.49
85:l5:4099:G:H2'	85:l5:4101:C:N4	2.28	0.49
85:L5:234:G:N2	85:L5:2332:A:O2'	2.46	0.49
85:L5:325:U:H2'	85:L5:326:C:H6	1.78	0.49
85:L5:489:C:N3	85:L5:665:C:N4	2.60	0.49
85:L5:1170:G:N1	85:L5:1192:C:N3	2.59	0.49
85:L5:2638:G:N1	85:L5:2718:U:H2'	2.26	0.49
85:L5:2708:U:P	85:L5:2709:C:H5"	2.53	0.49
85:L5:2720:C:H2'	85:L5:2721:G:O4'	2.12	0.49
85:L5:3598:C:H2'	85:L5:3599:A:C8	2.47	0.49
85:L5:3687:A:O2'	22:LA:236:GLY:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3936:A:H2'	85:L5:3937:C:C6	2.48	0.49
85:L5:4186:A:H2'	85:L5:4187:G:C8	2.48	0.49
85:L5:4736:C:H4'	85:L5:5068:G:C4	2.47	0.49
85:L5:4918:C:H2'	85:L5:4919:G:H8	1.76	0.49
85:L5:4964:C:H2'	85:L5:4965:U:C6	2.48	0.49
24:LC:338:ASN:OD1	24:LC:342:ARG:NH1	2.46	0.49
28:LG:230:TYR:C	28:LG:233:ILE:HG22	2.37	0.49
29:LH:90:TYR:OH	29:LH:151:ILE:HG13	2.13	0.49
30:LI:133:GLN:NE2	30:LI:134:VAL:O	2.42	0.49
31:LJ:104:ASN:HB3	31:LJ:133:VAL:HA	1.94	0.49
43:LX:72:ASP:O	43:LX:76:ILE:HG12	2.12	0.49
45:LZ:99:ASP:HA	45:LZ:102:ARG:CZ	2.43	0.49
48:Lc:36:LYS:HA	48:Lc:39:ARG:HD2	1.94	0.49
52:Lg:107:LEU:HD22	52:Lg:108:LYS:HD2	1.95	0.49
54:Li:51:ALA:N	54:Li:54:GLU:OE2	2.39	0.49
57:Ll:29:MET:HE2	57:Ll:29:MET:N	2.27	0.49
64:SR:74:GLN:HA	64:SR:77:GLU:HB2	1.94	0.49
72:SU:37:ALA:CB	72:SU:41:ARG:NH2	2.76	0.49
75:Sg:46:THR:H	75:Sg:53:GLY:HA2	1.77	0.49
75:Sg:79:LEU:HB3	75:Sg:89:LEU:HA	1.94	0.49
79:S2:160:U:O2'	79:S2:161:U:H3'	2.13	0.49
79:S2:1501:C:H2'	79:S2:1502:C:C6	2.46	0.49
88:CF:66:GLU:HG2	88:CF:72:THR:HA	1.93	0.49
88:CF:437:VAL:O	88:CF:439:LYS:NZ	2.46	0.49
63:Lz:208:SER:OG	63:Lz:209:THR:N	2.37	0.49
4:sL:111:VAL:HG23	4:sL:140:PHE:HB2	1.95	0.49
7:sJ:110:LEU:N	7:sJ:147:PHE:O	2.42	0.49
10:sA:42:LYS:HB3	10:sA:48:ILE:HD11	1.93	0.49
15:sC:121:ARG:O	15:sC:121:ARG:HG3	2.13	0.49
20:l7:61:G:H5"	25:lD:271:MET:HG3	1.95	0.49
27:lF:73:ARG:NH2	85:l5:730:G:N3	2.60	0.49
27:lF:131:ASN:ND2	85:l5:1727:U:OP1	2.41	0.49
33:lM:97:ALA:HB3	35:lO:203:VAL:HG12	1.94	0.49
36:lP:22:LEU:HD13	36:lP:146:ILE:HG22	1.92	0.49
40:lT:26:PRO:O	40:lT:29:THR:HG22	2.13	0.49
45:lZ:112:ARG:HH21	85:l5:2573:A:H1'	1.76	0.49
56:lk:23:VAL:HG12	56:lk:64:LEU:CD2	2.42	0.49
65:sD:142:LEU:HD23	65:sD:142:LEU:H	1.78	0.49
65:sD:176:LEU:HD11	79:s2:1499:U:H4'	1.95	0.49
70:sS:51:ASP:OD1	70:sS:53:THR:HG22	2.12	0.49
71:sT:88:MET:CE	79:s2:1665:G:C6	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:sf:87:THR:HA	79:s2:1507:G:H1	1.78	0.49
79:s2:52:G:H2'	79:s2:53:C:H6	1.77	0.49
79:s2:388:U:H2'	79:s2:389:A:C8	2.48	0.49
79:s2:689:U:H3'	79:s2:690:G:H21	1.77	0.49
80:cB:155:LEU:HD13	80:cB:156:MET:N	2.28	0.49
80:cB:685:TRP:CZ2	80:cB:726:ARG:CZ	2.96	0.49
83:ls:34:ASN:ND2	85:l5:1968:G:C4'	2.74	0.49
85:l5:267:G:H2'	85:l5:268:G:C8	2.47	0.49
85:l5:650:C:H2'	85:l5:651:C:C6	2.48	0.49
85:l5:717:U:H2'	85:l5:718:C:C6	2.48	0.49
85:l5:734:G:C2	85:l5:735:G:C8	3.01	0.49
85:l5:2045:G:O6	85:l5:3870:C:O2'	2.28	0.49
85:l5:2573:A:H2'	85:l5:2574:G:O4'	2.12	0.49
85:l5:3633:C:H2'	85:l5:3634:G:H8	1.75	0.49
85:l5:4681:A:H2'	85:l5:4682:U:O4'	2.12	0.49
85:l5:4894:A:C3'	85:l5:4895:C:H5'	2.42	0.49
86:LW:9:SER:HA	86:LW:52:THR:CA	2.41	0.49
2:SE:87:MET:CE	2:SE:100:ARG:NH1	2.70	0.49
4:SL:104:LYS:NZ	79:S2:681:U:OP1	2.42	0.49
5:SX:67:ARG:HH21	5:SX:114:ASP:CG	2.21	0.49
15:SC:75:ILE:HD11	15:SC:265:PRO:HB3	1.93	0.49
17:SO:95:ILE:HD13	17:SO:129:ILE:HB	1.93	0.49
85:L5:29:G:H5"	34:LN:172:ARG:CD	2.42	0.49
85:L5:251:C:OP1	55:Lj:85:LYS:NZ	2.28	0.49
85:L5:2286:G:H2'	85:L5:2287:G:H8	1.77	0.49
85:L5:2361:G:O2'	85:L5:3859:G:O6	2.30	0.49
85:L5:2421:G:N7	36:LP:129:THR:OG1	2.36	0.49
85:L5:2897:G:H2'	85:L5:2898:G:H8	1.78	0.49
85:L5:4251:A:H2'	85:L5:4252:C:C6	2.47	0.49
85:L5:4399:U:H2'	85:L5:4400:G:O4'	2.12	0.49
85:L5:4510:A:H2'	85:L5:4511:A:C8	2.48	0.49
85:L5:4589:A:H62	23:LB:13:SER:HA	1.78	0.49
85:L5:4910:G:H1	35:LO:108:ILE:H	1.60	0.49
23:LB:351:LEU:H	23:LB:351:LEU:HD23	1.78	0.49
25:LD:107:ARG:HH12	25:LD:120:GLU:HA	1.78	0.49
25:LD:272:SER:OG	25:LD:273:LEU:N	2.44	0.49
30:LI:177:ASN:HB2	30:LI:180:GLU:OE1	2.13	0.49
37:LQ:15:ARG:HB3	37:LQ:52:PHE:HB3	1.94	0.49
38:LR:182:GLU:HA	38:LR:185:ILE:HG12	1.93	0.49
39:LS:118:ARG:O	39:LS:120:ARG:NH1	2.46	0.49
43:LX:80:PRO:HA	43:LX:98:PHE:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:SQ:139:ALA:HB2	79:S2:1650:A:H5”	1.95	0.49
77:SZ:51:ASP:OD2	77:SZ:53:ALA:N	2.46	0.49
79:S2:43:U:OP2	79:S2:485:A:N6	2.33	0.49
79:S2:352:U:H2’	79:S2:353:C:H6	1.78	0.49
79:S2:696:G:H21	79:S2:737:G:N2	2.11	0.49
79:S2:1435:C:O2’	79:S2:1436:C:O4’	2.28	0.49
79:S2:1533:A:H2	79:S2:1536:G:N3	2.11	0.49
79:S2:1545:A:H2’	79:S2:1546:G:C8	2.46	0.49
79:S2:1577:G:H1’	79:S2:1582:C:O2	2.13	0.49
2:sE:68:ARG:HH22	2:sE:76:VAL:HG11	1.77	0.49
4:sL:80:MET:HE2	4:sL:122:ILE:HD13	1.94	0.49
6:sG:56:ASN:ND2	79:s2:155:G:H21	2.11	0.49
7:sJ:121:LYS:C	7:sJ:122:SER:HG	2.21	0.49
10:sA:222:VAL:HG13	10:sA:223:THR:HG23	1.95	0.49
20:l7:23:A:H2’	20:l7:24:C:C6	2.48	0.49
20:l7:103:A:O2’	85:l5:1741:G:O6	2.22	0.49
22:lA:65:ASP:OD1	22:lA:72:ARG:NE	2.45	0.49
22:lA:204:MET:HE2	85:l5:1631:A:C6	2.48	0.49
24:lC:13:GLU:CD	24:lC:157:LYS:CD	2.81	0.49
26:lE:209:PRO:HD2	26:lE:212:LEU:HD11	1.94	0.49
28:lG:157:ILE:HB	28:lG:183:ILE:HD13	1.95	0.49
34:lN:68:ARG:NH1	34:lN:124:ASP:O	2.46	0.49
58:lm:92:ASP:OD1	58:lm:92:ASP:C	2.56	0.49
60:lo:24:THR:HA	60:lo:93:LEU:HD21	1.94	0.49
63:lz:68:LEU:CD1	63:lz:85:MET:HG2	2.42	0.49
64:sR:102:THR:O	64:sR:106:LEU:HG	2.13	0.49
66:sF:179:ASN:OD1	66:sF:182:LYS:NZ	2.46	0.49
75:sg:168:CYS:HB2	75:sg:198:VAL:HB	1.95	0.49
76:sM:30:GLY:O	76:sM:112:LYS:HE3	2.13	0.49
77:sZ:47:LEU:CD2	77:sZ:79:ILE:HA	2.43	0.49
79:s2:17:C:H2’	79:s2:18:C:H6	1.78	0.49
79:s2:130:G:O2’	79:s2:131:C:O3’	2.31	0.49
79:s2:1350:U:C2	79:s2:1351:G:C8	3.01	0.49
80:cB:166:GLU:HG2	80:cB:167:LEU:HD23	1.95	0.49
80:cB:226:LYS:NZ	80:cB:230:GLU:OE1	2.46	0.49
80:cB:744:ILE:CD1	80:cB:818:GLN:CB	2.91	0.49
81:aP:42:A:H2’	81:aP:43:A:H8	1.77	0.49
82:pE:35:U:C2	82:pE:36:U:C5	3.01	0.49
85:l5:218:A:H1’	85:l5:219:G:C8	2.48	0.49
85:l5:2029:A:H2’	85:l5:2030:A:C8	2.48	0.49
85:l5:4238:G:H2’	85:l5:4239:A:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4637:G:H2'	85:l5:4638:U:C6	2.47	0.49
85:l5:4736:C:H2'	85:l5:4737:G:H8	1.77	0.49
3:SI:35:ASN:O	3:SI:37:LYS:HD2	2.12	0.49
9:Se:22:GLN:HE22	79:S2:636:C:H5"	1.77	0.49
10:SA:117:ARG:HD3	10:SA:118:GLU:N	2.27	0.49
15:SC:79:GLU:OE1	15:SC:136:HIS:NE2	2.38	0.49
16:SN:9:LYS:O	16:SN:9:LYS:HG2	2.13	0.49
85:L5:302:C:H2'	85:L5:303:C:H6	1.76	0.49
85:L5:481:G:H2'	85:L5:482:G:C8	2.47	0.49
85:L5:676:C:H2'	85:L5:677:G:H8	1.78	0.49
85:L5:1378:C:N3	32:LL:158:ARG:HD2	2.28	0.49
85:L5:1971:C:H5	85:L5:2000:G:H2'	1.77	0.49
85:L5:2487:G:H8	85:L5:2487:G:OP2	1.96	0.49
85:L5:3859:G:OP2	36:LP:25:HIS:NE2	2.45	0.49
85:L5:4411:G:H2'	85:L5:4412:C:H6	1.78	0.49
85:L5:5002:U:H2'	85:L5:5003:U:H6	1.78	0.49
85:L5:5063:G:H2'	85:L5:5064:G:H8	1.78	0.49
20:L7:1:G:H2'	20:L7:2:U:O4'	2.13	0.49
25:LD:194:VAL:HA	25:LD:197:LYS:HB2	1.94	0.49
27:LF:127:LYS:HB3	40:LT:133:ALA:HB3	1.94	0.49
29:LH:105:ILE:HG12	29:LH:136:VAL:HG23	1.94	0.49
31:LJ:99:PHE:CD1	31:LJ:105:PHE:HB3	2.47	0.49
37:LQ:40:ASN:OD1	37:LQ:132:LYS:NZ	2.42	0.49
39:LS:60:GLU:HB3	40:LT:136:ARG:NH1	2.26	0.49
43:LX:151:ASN:HA	43:LX:156:ILE:HD13	1.95	0.49
45:LZ:100:VAL:HG13	45:LZ:106:LEU:HD23	1.94	0.49
45:LZ:114:ALA:HB1	45:LZ:118:PHE:HE2	1.76	0.49
65:SD:156:LEU:HB3	65:SD:189:MET:SD	2.52	0.49
67:SK:46:MET:O	67:SK:50:GLN:N	2.37	0.49
67:SK:53:LYS:HD2	67:SK:54:SER:N	2.27	0.49
68:SP:56:LEU:O	68:SP:60:LEU:HG	2.13	0.49
70:SS:9:PHE:CE2	70:SS:57:GLY:HA3	2.48	0.49
79:S2:1218:C:H2'	79:S2:1219:C:C6	2.48	0.49
79:S2:1435:C:H4'	79:S2:1437:C:H41	1.78	0.49
79:S2:1503:C:H2'	79:S2:1504:U:C6	2.47	0.49
79:S2:1737:G:H2'	79:S2:1738:C:H6	1.78	0.49
79:S2:1743:G:H21	79:S2:1791:A:H62	1.60	0.49
63:Lz:32:VAL:HG21	63:Lz:172:VAL:HB	1.94	0.49
83:Ls:191:GLN:OE1	83:Ls:198:ILE:HD11	2.13	0.49
2:sE:192:ILE:CG1	2:sE:243:GLY:HA3	2.42	0.49
6:sG:177:GLN:HG3	6:sG:178:ARG:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:sH:77:VAL:O	12:sH:81:ARG:NH1	2.46	0.49
17:sO:103:ASN:O	17:sO:142:ARG:HD2	2.12	0.49
22:lA:175:ILE:HD11	85:l5:3683:C:C1'	2.43	0.49
22:lA:236:GLY:N	85:l5:3687:A:O2'	2.46	0.49
23:lB:124:LYS:NZ	85:l5:5063:G:O6	2.43	0.49
23:lB:252:ALA:HB3	85:l5:4457:U:H1'	1.95	0.49
25:lD:133:GLU:N	25:lD:133:GLU:OE1	2.46	0.49
32:lL:54:PRO:HG2	32:lL:97:SER:HB3	1.95	0.49
35:lO:54:TYR:HE1	35:lO:58:LEU:HD21	1.77	0.49
41:lU:90:TYR:CD1	41:lU:90:TYR:C	2.91	0.49
51:lf:43:LEU:HD22	51:lf:76:ARG:HA	1.94	0.49
52:lg:44:SER:OG	52:lg:46:CYS:SG	2.70	0.49
63:lz:60:ARG:HB3	63:lz:61:PRO:HD3	1.95	0.49
64:sR:12:ALA:HB1	64:sR:50:ILE:HD13	1.95	0.49
69:sQ:34:VAL:HG11	69:sQ:42:ILE:HD11	1.95	0.49
76:sM:52:LEU:HB3	76:sM:78:LYS:NZ	2.27	0.49
77:sZ:58:LEU:HB2	77:sZ:62:VAL:HG21	1.94	0.49
79:s2:15:U:H2'	79:s2:16:G:O4'	2.13	0.49
79:s2:155:G:H2'	79:s2:156:G:H8	1.78	0.49
79:s2:419:G:N2	79:s2:661:U:O2	2.46	0.49
79:s2:1452:A:C2	79:s2:1475:G:H2'	2.48	0.49
80:cB:42:LYS:C	80:cB:79:TYR:OH	2.56	0.49
80:cB:580:ARG:CG	80:cB:817:TRP:CH2	2.95	0.49
80:cB:846:GLU:OE2	80:cB:846:GLU:N	2.31	0.49
85:l5:457:G:H2'	85:l5:458:C:H6	1.78	0.49
85:l5:678:C:H2'	85:l5:679:C:H6	1.78	0.49
85:l5:1764:G:H4'	85:l5:1769:G:N1	2.28	0.49
85:l5:2539:C:H2'	85:l5:2540:C:H6	1.78	0.49
6:SG:23:LYS:HE2	6:SG:41:LEU:HB2	1.94	0.49
10:SA:32:PHE:CD1	79:S2:1097:G:H4'	2.47	0.49
15:SC:76:LYS:HD3	15:SC:97:PHE:CE1	2.47	0.49
17:SO:29:GLY:H	17:SO:93:LEU:HA	1.77	0.49
17:SO:46:ASP:OD2	17:SO:48:SER:OG	2.31	0.49
19:Sb:7:LEU:H	19:Sb:7:LEU:HD12	1.77	0.49
85:L5:29:G:H5"	34:LN:172:ARG:HD3	1.95	0.49
85:L5:424:U:H2'	85:L5:425:U:C6	2.48	0.49
85:L5:1243:C:H2'	85:L5:1244:G:C8	2.48	0.49
85:L5:1248:C:H2'	85:L5:1249:C:H6	1.78	0.49
85:L5:2562:G:O2'	85:L5:2565:A:N6	2.46	0.49
85:L5:2717:G:H2'	85:L5:2718:U:C6	2.48	0.49
85:L5:2895:A:H2'	85:L5:2896:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3906:A:O2'	85:L5:3907:G:OP2	2.30	0.49
85:L5:4128:A:H1'	28:LG:35:ARG:HG3	1.94	0.49
85:L5:4176:C:H2'	85:L5:4177:C:C6	2.47	0.49
85:L5:4257:A:C2	31:LJ:27:GLY:HA3	2.48	0.49
85:L5:4272:G:O2'	85:L5:4273:A:H8	1.96	0.49
85:L5:4508:C:N3	85:L5:4512:U:H5	2.10	0.49
85:L5:4566:U:H2'	85:L5:4567:G:O4'	2.13	0.49
85:L5:4638:U:H2'	85:L5:4639:G:N3	2.27	0.49
85:L5:5055:G:H2'	85:L5:5056:A:C8	2.46	0.49
21:L8:14:U:H5"	36:LP:123:PRO:HG3	1.94	0.49
24:LC:354:ALA:O	24:LC:358:ALA:N	2.42	0.49
26:LE:114:ARG:HB3	62:Lr:87:ARG:NH2	2.27	0.49
28:LG:154:LEU:O	28:LG:204:PHE:N	2.42	0.49
29:LH:92:MET:HE2	29:LH:181:VAL:HG12	1.95	0.49
41:LU:61:VAL:HG23	41:LU:74:SER:OG	2.13	0.49
69:SQ:24:HIS:CD2	69:SQ:24:HIS:C	2.89	0.49
73:Sc:13:ARG:HB2	73:Sc:35:MET:HE2	1.90	0.49
79:S2:39:A:H2'	79:S2:40:A:O4'	2.13	0.49
79:S2:1221:G:H2'	79:S2:1222:G:H8	1.78	0.49
79:S2:1427:C:H2'	79:S2:1429:G:C8	2.48	0.49
89:Pt:27:U:H2'	89:Pt:28:U:H6	1.77	0.49
83:Ls:44:ARG:O	83:Ls:48:ARG:N	2.46	0.49
6:sG:94:ARG:NH2	79:s2:1737:G:OP1	2.42	0.49
8:sY:58:PHE:HE2	8:sY:90:ARG:CZ	2.26	0.49
11:sB:34:LYS:CG	11:sB:95:ASN:OD1	2.60	0.49
15:sC:232:THR:O	15:sC:235:ASN:N	2.45	0.49
22:lA:114:CYS:HB3	22:lA:167:GLY:O	2.13	0.49
24:lC:11:TYR:HD2	24:lC:15:GLY:O	1.96	0.49
24:lC:65:GLU:OE1	24:lC:80:ARG:NH2	2.46	0.49
24:lC:94:ASN:OD1	24:lC:94:ASN:N	2.42	0.49
27:lF:171:ASP:OD1	27:lF:173:ALA:N	2.46	0.49
29:lH:152:GLU:OE1	85:l5:4689:U:H1'	2.13	0.49
31:lJ:169:LYS:HE2	31:lJ:170:TYR:CE2	2.48	0.49
36:lP:47:TYR:O	36:lP:51:VAL:HG23	2.13	0.49
41:lU:39:PHE:HA	41:lU:42:PHE:HB3	1.94	0.49
45:lZ:91:LEU:HD11	45:lZ:114:ALA:HA	1.94	0.49
66:sF:23:TRP:CH2	66:sF:97:PHE:HB3	2.47	0.49
69:sQ:34:VAL:HG23	69:sQ:70:VAL:HG13	1.94	0.49
70:sS:97:GLN:HE22	70:sS:99:LEU:HB3	1.77	0.49
79:s2:804:U:H2'	79:s2:805:U:C6	2.47	0.49
79:s2:1039:C:H2'	79:s2:1040:G:H8	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1114:U:HO2'	79:s2:1115:U:P	2.36	0.49
80:cB:396:MET:HE1	80:cB:416:VAL:CB	2.43	0.49
81:aP:49:C:H2'	81:aP:50:U:H6	1.77	0.49
83:ls:37:SER:O	83:ls:41:GLN:N	2.42	0.49
85:l5:266:C:HO2'	85:l5:267:G:H8	1.58	0.49
85:l5:674:G:H2'	85:l5:675:C:C6	2.48	0.49
85:l5:928:C:H2'	85:l5:929:A:C8	2.47	0.49
85:l5:1253:G:H4'	85:l5:1254:A:N7	2.28	0.49
85:l5:1366:G:O2'	85:l5:1367:C:O2	2.31	0.49
85:l5:2413:U:H2'	85:l5:2414:G:H8	1.77	0.49
85:l5:3877:A:O2'	85:l5:4400:G:N2	2.44	0.49
85:l5:3968:U:O4	85:l5:4053:A:O2'	2.19	0.49
2:SE:94:LYS:HZ3	8:SY:17:LEU:HD13	1.78	0.49
4:SL:61:PRO:HD2	4:SL:114:SER:HB2	1.95	0.49
85:L5:85:G:H1'	85:L5:86:U:H5	1.78	0.49
85:L5:229:G:H2'	85:L5:230:G:H8	1.77	0.49
85:L5:478:G:H2'	85:L5:479:G:C8	2.48	0.49
85:L5:498:C:N4	85:L5:657:C:H42	2.11	0.49
85:L5:1315:C:H2'	85:L5:1316:G:C8	2.48	0.49
85:L5:1626:G:OP2	34:LN:77:LYS:NZ	2.46	0.49
85:L5:1644:C:C2	85:L5:1645:C:C5	3.01	0.49
85:L5:1765:A:N7	85:L5:1766:A:O2'	2.37	0.49
85:L5:1855:G:C6	85:L5:1880:G:N2	2.81	0.49
85:L5:3832:U:H2'	85:L5:3833:C:H6	1.77	0.49
85:L5:4651:A:H2'	85:L5:4652:G:O4'	2.12	0.49
85:L5:4681:A:H2'	85:L5:4682:U:O4'	2.13	0.49
85:L5:5051:C:H2'	85:L5:5052:C:C6	2.48	0.49
21:L8:60:G:OP1	43:LX:70:LYS:NZ	2.45	0.49
24:LC:315:LYS:HD2	27:LF:168:ALA:HB1	1.95	0.49
25:LD:191:ASN:OD1	25:LD:194:VAL:N	2.33	0.49
26:LE:186:LEU:N	26:LE:250:GLN:OE1	2.45	0.49
28:LG:131:LYS:HE2	28:LG:133:PRO:HA	1.95	0.49
28:LG:143:VAL:HG13	28:LG:203:ALA:HB2	1.95	0.49
29:LH:91:LYS:HB3	29:LH:143:GLU:CD	2.37	0.49
32:LL:126:LEU:HD11	53:Lh:117:ARG:NH1	2.28	0.49
33:LM:55:MET:N	33:LM:55:MET:SD	2.85	0.49
46:La:77:LYS:O	46:La:80:THR:OG1	2.25	0.49
62:Lr:16:PHE:HB3	62:Lr:27:THR:H	1.78	0.49
67:SK:42:ASN:O	67:SK:46:MET:HG2	2.13	0.49
79:S2:635:G:H2'	79:S2:636:C:C6	2.48	0.49
79:S2:1060:A:H1'	79:S2:1062:A:N7	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1739:C:H2'	79:S2:1740:C:C6	2.48	0.49
82:Et:50:A:C6	82:Et:65:G:C6	3.00	0.49
8:sY:102:THR:HG23	8:sY:107:ARG:HG3	1.95	0.48
12:sH:18:GLU:OE2	12:sH:18:GLU:N	2.42	0.48
15:sC:60:TRP:CD2	15:sC:62:PRO:HD3	2.48	0.48
17:sO:138:ASP:HB2	79:s2:986:G:O4'	2.13	0.48
23:lB:300:LYS:CE	23:lB:309:LEU:C	2.86	0.48
30:lI:180:GLU:HG3	30:lI:184:MET:HE3	1.95	0.48
31:lJ:95:ARG:HH12	31:lJ:97:ASN:H	1.61	0.48
42:lV:29:ALA:HB2	42:lV:102:ALA:HB1	1.94	0.48
59:ln:7:LYS:HE2	59:ln:11:ARG:HH21	1.78	0.48
66:sF:49:LEU:O	66:sF:51:HIS:N	2.43	0.48
69:sQ:58:LEU:HB3	69:sQ:62:ARG:HD2	1.95	0.48
69:sQ:80:GLN:O	69:sQ:84:ILE:HG12	2.13	0.48
77:sZ:69:THR:O	77:sZ:73:VAL:HG23	2.13	0.48
79:s2:106:C:OP1	79:s2:431:G:O2'	2.28	0.48
79:s2:941:C:H2'	79:s2:942:G:C8	2.48	0.48
79:s2:1606:G:N2	79:s2:1632:G:H1'	2.29	0.48
80:cB:684:GLN:HA	80:cB:684:GLN:OE1	2.13	0.48
85:l5:455:C:O2'	85:l5:456:C:H5'	2.13	0.48
85:l5:498:C:C2	85:l5:499:G:H1'	2.48	0.48
85:l5:1294:A:H1'	85:l5:1296:G:C2	2.48	0.48
85:l5:1999:A:H2'	85:l5:2000:G:C4	2.48	0.48
86:LW:8:PHE:CD2	86:LW:51:TRP:CH2	3.01	0.48
3:SI:10:LYS:HD3	79:S2:387:C:OP1	2.13	0.48
3:SI:110:ARG:HH21	3:SI:122:GLY:HA3	1.78	0.48
7:SJ:114:VAL:HG23	7:SJ:126:ALA:HB1	1.95	0.48
8:SY:120:THR:HG23	8:SY:123:ALA:HB3	1.95	0.48
11:SB:131:ASP:N	11:SB:131:ASP:OD1	2.38	0.48
12:SH:52:GLU:HA	12:SH:58:LYS:HD3	1.94	0.48
14:Sa:100:ARG:HG3	14:Sa:102:ARG:HH21	1.78	0.48
85:L5:1309:C:H2'	85:L5:1310:C:H6	1.78	0.48
85:L5:1656:U:C2	85:L5:1657:G:C8	3.01	0.48
85:L5:2376:A:H2'	85:L5:2377:C:C6	2.47	0.48
85:L5:3700:C:O2'	85:L5:3774:A:H1'	2.13	0.48
85:L5:4052:C:H2'	63:Lz:206:ILE:O	2.12	0.48
85:L5:4257:A:H2	31:LJ:27:GLY:HA3	1.77	0.48
85:L5:4940:C:O2'	26:LE:246:ARG:NH2	2.46	0.48
23:LB:315:ASN:ND2	23:LB:326:VAL:N	2.61	0.48
26:LE:133:PHE:HA	26:LE:136:HIS:CE1	2.48	0.48
35:LO:65:ASN:OD1	35:LO:67:SER:OG	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LU:105:ASN:ND2	41:LU:111:GLU:HB2	2.28	0.48
44:LY:100:HIS:CE1	44:LY:102:SER:HG	2.27	0.48
64:SR:10:LYS:HB3	64:SR:14:ARG:NH2	2.28	0.48
65:SD:15:GLY:HA3	74:Sd:50:ILE:HG23	1.95	0.48
66:SF:145:ARG:NH2	79:S2:1220:A:O3'	2.46	0.48
66:SF:145:ARG:O	66:SF:149:GLN:HG2	2.13	0.48
70:SS:46:ARG:NH2	70:SS:50:ILE:O	2.34	0.48
75:Sg:143:GLN:N	75:Sg:143:GLN:OE1	2.45	0.48
79:S2:982:G:H2'	79:S2:983:A:C8	2.44	0.48
79:S2:1554:C:OP2	79:S2:1555:U:O2'	2.30	0.48
79:S2:1683:C:H2'	79:S2:1684:C:H6	1.78	0.48
88:CF:155:MET:HE2	88:CF:193:ILE:C	2.38	0.48
5:sX:17:ARG:NH2	79:s2:659:G:H21	2.11	0.48
10:sA:196:GLU:OE2	10:sA:196:GLU:N	2.29	0.48
12:sH:98:ARG:HG3	12:sH:125:VAL:HB	1.95	0.48
23:lB:297:LYS:HZ2	23:lB:298:LEU:HD23	1.77	0.48
25:lD:66:TYR:CE2	25:lD:68:ARG:HD3	2.47	0.48
26:lE:219:LYS:HE2	85:l5:4940:C:H5"	1.95	0.48
28:lG:35:ARG:HG3	85:l5:4128:A:H1'	1.95	0.48
28:lG:95:LEU:C	28:lG:95:LEU:CD2	2.87	0.48
33:lM:77:TRP:O	33:lM:81:ASP:HA	2.13	0.48
38:lR:7:GLN:HG2	38:lR:32:ILE:HG22	1.95	0.48
39:lS:127:MET:HB3	40:lT:153:PRO:HG2	1.95	0.48
51:lf:79:GLY:O	51:lf:81:SER:N	2.44	0.48
67:sK:25:LYS:O	67:sK:25:LYS:HG3	2.12	0.48
68:sP:75:VAL:HA	68:sP:93:MET:HB3	1.94	0.48
75:sg:154:VAL:HG12	75:sg:167:SER:HB2	1.95	0.48
77:sZ:47:LEU:CD2	77:sZ:79:ILE:HG23	2.42	0.48
79:s2:1403:C:N4	79:s2:1433:C:OP1	2.45	0.48
79:s2:1420:G:O2'	79:s2:1421:A:O5'	2.31	0.48
80:cB:563:GLU:OE1	80:cB:564:ASP:HB3	2.13	0.48
85:l5:210:C:HO2'	85:l5:233:U:HO2'	1.59	0.48
85:l5:286:U:H2'	85:l5:287:U:C6	2.48	0.48
85:l5:1274:A:O2'	85:l5:1275:G:H8	1.96	0.48
85:l5:2000:G:O2'	85:l5:2001:G:N7	2.44	0.48
85:l5:4063:U:H2'	85:l5:4064:C:C2	2.47	0.48
86:LW:96:GLN:HB3	86:LW:100:VAL:HB	1.94	0.48
3:SI:110:ARG:HD2	3:SI:123:ARG:NH1	2.28	0.48
7:SJ:172:ARG:NH2	79:S2:563:G:N7	2.61	0.48
16:SN:7:PRO:HG3	79:S2:996:A:H5"	1.96	0.48
16:SN:70:LYS:O	16:SN:74:ILE:HG13	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:50:C:C2	85:L5:51:A:C8	3.00	0.48
85:L5:113:A:H2'	85:L5:114:G:O4'	2.13	0.48
85:L5:2281:U:C2	85:L5:2282:A:C8	3.01	0.48
85:L5:2693:G:H2'	85:L5:2694:G:N2	2.28	0.48
85:L5:5029:C:O2'	85:L5:5030:U:H6	1.96	0.48
85:L5:5050:C:H4'	23:LB:322:HIS:CD2	2.48	0.48
20:L7:59:G:H2'	20:L7:60:G:H8	1.78	0.48
21:L8:28:C:H2'	21:L8:29:G:C8	2.47	0.48
31:LJ:64:ARG:HG3	31:LJ:65:ASN:OD1	2.12	0.48
53:Lh:87:LYS:HG2	55:Lj:80:GLU:OE1	2.14	0.48
70:SS:55:ARG:HH21	77:SZ:80:ARG:HH21	1.60	0.48
79:S2:339:A:H2'	79:S2:340:C:H5	1.76	0.48
79:S2:458:A:H2'	79:S2:459:C:H6	1.78	0.48
79:S2:1117:C:H2'	79:S2:1118:C:H6	1.78	0.48
79:S2:1134:G:H2'	79:S2:1135:C:H6	1.77	0.48
79:S2:1791:A:H2'	79:S2:1792:G:O4'	2.13	0.48
88:CF:155:MET:SD	88:CF:192:PRO:HB2	2.52	0.48
88:CF:349:HIS:ND1	88:CF:353:ILE:HG13	2.28	0.48
83:Ls:33:ASP:CG	83:Ls:34:ASN:H	2.21	0.48
8:sY:119:GLY:O	79:s2:84:A:O2'	2.25	0.48
10:sA:147:LEU:HD21	10:sA:174:MET:CE	2.42	0.48
15:sC:229:CYS:HB2	79:s2:14:C:H5'	1.95	0.48
16:sN:34:LYS:NZ	16:sN:67:THR:HB	2.28	0.48
21:l8:145:C:H2'	21:l8:146:U:H6	1.78	0.48
24:lC:95:MET:HE3	24:lC:95:MET:CA	2.29	0.48
24:lC:317:ASN:HB2	85:l5:716:C:OP1	2.13	0.48
25:lD:128:ASP:OD1	25:lD:128:ASP:N	2.47	0.48
31:lJ:121:PRO:CG	70:sS:101:ASN:HD21	2.26	0.48
41:lU:82:TYR:CE2	85:l5:2631:U:H1'	2.48	0.48
44:lY:31:SER:OG	85:l5:240:G:H5'	2.12	0.48
64:sR:10:LYS:HG2	79:s2:1366:G:N2	2.28	0.48
64:sR:30:THR:HG23	79:s2:1455:A:O4'	2.14	0.48
66:sF:166:ILE:HB	77:sZ:75:GLU:OE2	2.13	0.48
76:sM:91:LEU:HD11	76:sM:103:VAL:HG12	1.94	0.48
79:s2:1265:A:H5'	79:s2:1266:C:OP2	2.13	0.48
79:s2:1576:G:H2'	79:s2:1577:G:C8	2.48	0.48
80:cB:111:PHE:CD2	80:cB:501:VAL:HG22	2.48	0.48
80:cB:251:LYS:O	80:cB:254:GLU:HG3	2.12	0.48
80:cB:380:GLU:HB3	80:cB:488:PHE:CE2	2.48	0.48
80:cB:595:SER:HB3	80:cB:600:ASN:OD1	2.13	0.48
83:ls:82:ILE:HA	83:ls:86:VAL:HG11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:256:G:H2'	85:l5:257:C:C6	2.48	0.48
85:l5:665:C:H4'	85:l5:666:G:H5'	1.95	0.48
85:l5:1415:G:H2'	85:l5:1416:G:C8	2.48	0.48
85:l5:3595:U:H5"	85:l5:3597:G:OP2	2.13	0.48
85:l5:3932:U:H2'	85:l5:3933:G:C8	2.48	0.48
4:SL:107:LYS:HE3	79:S2:354:U:OP1	2.14	0.48
4:SL:152:LYS:NZ	79:S2:870:A:OP1	2.45	0.48
7:SJ:65:GLU:OE1	7:SJ:66:LYS:HA	2.13	0.48
7:SJ:110:LEU:HG	7:SJ:130:ILE:HD13	1.95	0.48
10:SA:5:LEU:HB2	10:SA:8:LEU:HB2	1.95	0.48
11:SB:204:ILE:HD12	79:S2:1121:G:O2'	2.14	0.48
12:SH:18:GLU:HG3	12:SH:19:PHE:CE2	2.48	0.48
13:SV:1:MET:SD	13:SV:1:MET:N	2.79	0.48
14:Sa:34:LYS:NZ	79:S2:1862:G:N7	2.61	0.48
15:SC:70:VAL:HG21	15:SC:93:ILE:HG23	1.95	0.48
16:SN:27:LYS:O	16:SN:28:LEU:HD23	2.13	0.48
17:SO:57:THR:CG2	17:SO:60:MET:HE3	2.43	0.48
85:L5:684:G:O2'	26:LE:101:ASN:OD1	2.28	0.48
85:L5:1324:A:N6	85:L5:3875:G:HO2'	2.11	0.48
85:L5:1441:C:N4	85:L5:1442:C:H41	2.11	0.48
85:L5:1458:C:C2	85:L5:1459:A:C8	3.01	0.48
85:L5:1819:G:N3	25:LD:113:PHE:HD2	2.11	0.48
85:L5:1976:G:OP1	85:L5:1984:A:H4'	2.13	0.48
85:L5:2352:U:H2'	85:L5:2353:U:C6	2.48	0.48
85:L5:2476:G:H2'	85:L5:2477:A:H8	1.78	0.48
85:L5:2611:A:H2'	85:L5:2612:G:C8	2.48	0.48
85:L5:3834:C:H2'	85:L5:3835:C:H6	1.79	0.48
85:L5:3967:G:N2	85:L5:3968:U:O4'	2.46	0.48
85:L5:4752:U:O4	51:Lf:52:LYS:NZ	2.46	0.48
85:L5:4915:G:H2'	85:L5:4916:G:C8	2.48	0.48
85:L5:4940:C:H5'	85:L5:4941:G:H5"	1.94	0.48
85:L5:4968:A:H2'	85:L5:4969:C:C6	2.48	0.48
85:L5:5016:A:N6	85:L5:5033:G:O2'	2.45	0.48
32:LL:48:PRO:HD2	32:LL:49:ARG:NH1	2.28	0.48
34:LN:64:ILE:HD11	34:LN:106:ALA:HB2	1.94	0.48
43:LX:149:VAL:HA	43:LX:152:LYS:HB3	1.94	0.48
44:LY:62:TYR:CD1	44:LY:85:VAL:HG12	2.48	0.48
45:LZ:7:PRO:HA	45:LZ:25:ILE:HB	1.94	0.48
49:Ld:85:ARG:NH2	49:Ld:118:GLN:O	2.39	0.48
60:Lo:99:ARG:HD3	60:Lo:99:ARG:H	1.77	0.48
66:SF:97:PHE:CE1	66:SF:108:PRO:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:SK:15:LEU:CD1	67:SK:21:MET:HB2	2.43	0.48
67:SK:28:HIS:CE1	74:Sd:8:TRP:CZ2	3.01	0.48
71:ST:97:LYS:HZ3	79:S2:1566:G:H1	1.61	0.48
76:SM:52:LEU:HD11	76:SM:65:VAL:CG2	2.43	0.48
76:SM:95:ASP:O	76:SM:97:GLU:N	2.45	0.48
79:S2:903:A:H1'	79:S2:904:A:C2	2.48	0.48
79:S2:1003:U:H2'	79:S2:1004:U:C6	2.48	0.48
79:S2:1205:C:H2'	79:S2:1206:G:C8	2.48	0.48
79:S2:1616:U:H2'	79:S2:1617:G:C8	2.48	0.48
88:CF:8:ILE:HG13	88:CF:110:ASP:HB2	1.95	0.48
88:CF:335:MET:SD	88:CF:336:GLU:N	2.77	0.48
84:Lt:117:ARG:HG3	84:Lt:119:ARG:N	2.25	0.48
83:Ls:41:GLN:O	83:Ls:45:MET:HG2	2.14	0.48
1:cH:99:ILE:HG22	1:cH:101:GLU:HG2	1.95	0.48
11:sB:33:VAL:HG12	11:sB:96:CYS:SG	2.54	0.48
12:sH:130:LEU:HB3	12:sH:177:TYR:CE2	2.48	0.48
14:sa:4:LYS:HD3	14:sa:5:ARG:NH2	2.22	0.48
21:l8:83:C:N4	44:lY:50:ARG:HH22	2.11	0.48
24:lC:321:ASN:HD21	85:l5:1281:G:P	2.37	0.48
32:lL:92:ARG:NE	85:l5:109:G:H5'	2.28	0.48
33:lM:32:ASP:O	33:lM:33:GLN:HG2	2.13	0.48
34:lN:48:ALA:HB2	34:lN:119:TYR:CE1	2.47	0.48
41:lU:22:THR:HA	41:lU:71:THR:HA	1.95	0.48
51:lf:68:ARG:NH2	85:l5:443:G:OP1	2.47	0.48
64:sR:100:PRO:HD3	64:sR:122:PRO:CD	2.25	0.48
65:sD:221:THR:O	65:sD:223:ILE:HG12	2.13	0.48
67:sK:2:LEU:HG	79:s2:1289:U:H4'	1.95	0.48
70:sS:85:ASN:ND2	79:s2:1630:A:O2'	2.46	0.48
72:sU:48:LEU:CD2	72:sU:93:SER:OG	2.61	0.48
73:sc:31:ARG:HA	73:sc:31:ARG:NE	2.28	0.48
74:sd:14:PHE:HB2	79:s2:1661:A:H8	1.78	0.48
79:s2:52:G:H2'	79:s2:53:C:C6	2.48	0.48
79:s2:1657:G:H1	79:s2:1667:U:H3	1.61	0.48
80:cB:155:LEU:HB3	80:cB:212:VAL:HG22	1.95	0.48
80:cB:599:HIS:ND1	80:cB:715:HIS:HB3	2.29	0.48
83:ls:44:ARG:CZ	85:l5:1997:U:H4'	2.44	0.48
84:lt:134:GLY:HA2	84:lt:137:GLN:HE22	1.79	0.48
85:l5:452:A:H4'	85:l5:453:G:H5'	1.96	0.48
85:l5:674:G:H2'	85:l5:675:C:H6	1.77	0.48
85:l5:1821:G:H2'	85:l5:1821:G:N3	2.28	0.48
85:l5:1878:G:H2'	85:l5:1879:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:1985:G:N2	85:l5:2003:G:HO2'	2.12	0.48
85:l5:3967:G:H5'	85:l5:3968:U:OP2	2.14	0.48
3:SI:45:THR:HG21	79:S2:308:G:OP2	2.13	0.48
5:SX:5:ARG:HB3	79:S2:1159:G:OP1	2.13	0.48
5:SX:57:VAL:HG22	5:SX:67:ARG:HB2	1.95	0.48
6:SG:167:LYS:HE2	79:S2:67:C:C4	2.48	0.48
85:L5:123:C:H2'	85:L5:124:C:C6	2.49	0.48
85:L5:674:G:H2'	85:L5:675:C:C6	2.47	0.48
85:L5:1273:G:O5'	47:Lb:117:ARG:NH1	2.46	0.48
85:L5:1464:C:H2'	85:L5:1465:G:O4'	2.13	0.48
85:L5:1577:G:OP1	61:Lp:17:ARG:NH2	2.40	0.48
85:L5:2378:G:N2	85:L5:2381:A:OP2	2.40	0.48
85:L5:2443:G:H2'	85:L5:2444:U:O4'	2.14	0.48
85:L5:2654:C:H2'	85:L5:2655:C:H6	1.79	0.48
85:L5:2838:G:H2'	85:L5:2839:U:H6	1.77	0.48
85:L5:3974:G:H3'	85:L5:3975:C:O4'	2.13	0.48
85:L5:4072:C:C2	85:L5:4073:A:C8	3.01	0.48
85:L5:4089:G:H2'	85:L5:4090:G:H8	1.77	0.48
85:L5:5005:G:H22	85:L5:5041:G:H1'	1.78	0.48
27:LF:71:MET:SD	27:LF:71:MET:O	2.70	0.48
30:LI:47:PRO:HB3	30:LI:171:TRP:CZ2	2.49	0.48
30:LI:184:MET:HG3	30:LI:187:LYS:NZ	2.27	0.48
33:LM:122:ILE:HD11	35:LO:188:LYS:HD3	1.96	0.48
43:LX:82:THR:CA	43:LX:87:MET:CE	2.88	0.48
55:Lj:58:THR:O	55:Lj:61:THR:OG1	2.24	0.48
56:Lk:7:GLU:OE1	56:Lk:9:LYS:N	2.46	0.48
77:SZ:88:LEU:HB3	77:SZ:109:TYR:HE2	1.78	0.48
79:S2:538:U:H2'	79:S2:539:C:C6	2.49	0.48
79:S2:563:G:H1	79:S2:592:C:H41	1.62	0.48
79:S2:644:G:H2'	79:S2:645:C:C6	2.48	0.48
88:CF:219:LYS:HD2	88:CF:219:LYS:H	1.78	0.48
84:Lt:134:GLY:O	84:Lt:137:GLN:NE2	2.46	0.48
3:sI:97:VAL:N	3:sI:100:CYS:SG	2.64	0.48
3:sI:184:ARG:NH1	79:s2:218:U:O2	2.35	0.48
10:sA:21:ALA:HB1	10:sA:169:HIS:HB3	1.96	0.48
12:sH:164:ASN:OD1	12:sH:164:ASN:N	2.45	0.48
17:sO:34:PHE:HD1	17:sO:98:ARG:HG2	1.78	0.48
19:sb:13:GLU:OE1	19:sb:14:GLU:N	2.46	0.48
22:lA:50:HIS:CD2	85:l5:2741:U:H2'	2.48	0.48
23:lB:252:ALA:HB1	85:l5:4524:G:C2	2.49	0.48
23:lB:300:LYS:HE2	23:lB:310:SER:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:lD:153:THR:HG21	85:l5:4323:A:N6	2.29	0.48
26:lE:170:SER:OG	26:lE:214:ASP:OD2	2.24	0.48
31:lJ:174:ILE:HG22	31:lJ:175:LEU:HD22	1.94	0.48
32:lL:55:ILE:HG22	32:lL:96:ILE:HA	1.96	0.48
36:lP:54:GLN:HG3	36:lP:83:TRP:CG	2.48	0.48
44:lY:50:ARG:HG3	44:lY:51:LYS:H	1.78	0.48
48:lc:36:LYS:O	48:lc:40:GLN:HG3	2.13	0.48
52:lg:92:LYS:O	52:lg:96:LEU:HG	2.14	0.48
52:lg:93:ARG:O	52:lg:97:ILE:HG12	2.13	0.48
56:lk:25:ILE:HD11	56:lk:34:PHE:CE1	2.48	0.48
70:sS:40:TYR:N	79:s2:1630:A:OP1	2.41	0.48
72:sU:16:ALA:O	72:sU:94:PRO:HB3	2.14	0.48
72:sU:66:ARG:HB2	79:s2:1256:G:C8	2.48	0.48
75:sg:31:ILE:HG12	75:sg:45:LEU:HD21	1.95	0.48
77:sZ:80:ARG:O	79:s2:1598:G:O2'	2.29	0.48
79:s2:696:G:H21	79:s2:737:G:H21	1.62	0.48
79:s2:1568:C:H2'	79:s2:1569:A:C8	2.48	0.48
79:s2:1593:C:H2'	79:s2:1594:A:C8	2.49	0.48
79:s2:1845:A:H2'	79:s2:1846:G:H8	1.78	0.48
85:l5:950:G:H2'	85:l5:951:G:H8	1.77	0.48
85:l5:1253:G:C2	85:l5:1256:G:H4'	2.49	0.48
85:l5:1762:C:N3	85:l5:1770:A:N1	2.62	0.48
85:l5:2469:C:H5	85:l5:2471:G:H1	1.59	0.48
85:l5:2857:A:H2'	85:l5:2858:A:O4'	2.13	0.48
85:l5:3936:A:H2'	85:l5:3937:C:C6	2.48	0.48
11:SB:60:ASP:HA	11:SB:63:LYS:HG2	1.95	0.48
11:SB:163:GLN:HA	11:SB:166:LYS:NZ	2.28	0.48
17:SO:56:VAL:HG12	17:SO:81:VAL:HG13	1.95	0.48
85:L5:2373:C:H2'	85:L5:2374:A:H8	1.78	0.48
85:L5:2620:G:H1	85:L5:2636:U:H3	1.62	0.48
85:L5:4041:C:P	85:L5:4042:G:H3'	2.54	0.48
21:L8:13:G:C4	21:L8:14:U:C5	3.02	0.48
21:L8:22:U:OP2	24:LC:196:MET:HG3	2.13	0.48
21:L8:26:C:H2'	21:L8:27:U:H6	1.78	0.48
22:LA:105:GLY:N	22:LA:160:SER:O	2.46	0.48
26:LE:202:ASP:C	26:LE:202:ASP:OD2	2.55	0.48
37:LQ:57:ASN:OD1	37:LQ:143:ARG:NH1	2.47	0.48
39:LS:81:TRP:HB3	39:LS:127:MET:HE2	1.95	0.48
44:LY:109:LEU:HD12	44:LY:109:LEU:H	1.77	0.48
55:Lj:39:TYR:O	55:Lj:39:TYR:CG	2.66	0.48
64:SR:50:ILE:O	64:SR:54:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:SF:60:ARG:HG2	79:S2:1679:A:C2	2.49	0.48
70:SS:84:LEU:H	70:SS:87:GLN:HE21	1.61	0.48
71:ST:69:GLY:H	71:ST:122:LYS:HG2	1.78	0.48
79:S2:1538:C:H2'	79:S2:1539:U:H6	1.78	0.48
79:S2:1643:U:H2'	79:S2:1644:C:C6	2.49	0.48
83:Ls:55:MET:SD	83:Ls:56:GLY:N	2.85	0.48
1:cH:79:LYS:HD2	1:cH:83:GLN:NE2	2.29	0.48
1:cH:141:ILE:HG21	1:cH:145:PRO:HD3	1.96	0.48
2:sE:18:TRP:CH2	2:sE:31:PRO:HD3	2.47	0.48
2:sE:49:ARG:NH2	79:s2:496:C:OP1	2.36	0.48
2:sE:87:MET:O	2:sE:100:ARG:NH1	2.40	0.48
8:sY:91:LEU:HB2	8:sY:97:TYR:HB3	1.96	0.48
9:se:51:LYS:NZ	65:sD:117:ARG:HH12	2.12	0.48
10:sA:200:ASP:HA	10:sA:203:PHE:HB2	1.95	0.48
12:sH:18:GLU:O	12:sH:18:GLU:HG2	2.13	0.48
12:sH:61:ILE:HD12	12:sH:62:ILE:H	1.78	0.48
18:sW:18:GLU:OE1	18:sW:65:LEU:HD12	2.14	0.48
19:sb:17:ARG:HH12	79:s2:1128:C:C5'	2.27	0.48
21:l8:62:A:OP1	53:lh:51:ARG:NH2	2.44	0.48
21:l8:102:G:OP2	21:l8:104:A:O2'	2.25	0.48
23:lB:300:LYS:HE2	23:lB:309:LEU:C	2.38	0.48
27:lF:96:ARG:HB2	27:lF:139:TYR:CD2	2.49	0.48
31:lJ:173:ILE:O	31:lJ:174:ILE:HD13	2.13	0.48
33:lM:47:ARG:HG2	39:lS:73:LEU:HD22	1.95	0.48
39:lS:7:LEU:HB2	39:lS:107:THR:OG1	2.14	0.48
41:lU:84:LYS:HD3	41:lU:110:TYR:CZ	2.48	0.48
63:lz:54:ARG:HH22	63:lz:156:LYS:HG3	1.79	0.48
64:sR:53:TYR:CD2	79:s2:1465:A:C8	3.01	0.48
65:sD:76:ARG:HB2	67:sK:22:VAL:HG11	1.96	0.48
65:sD:126:ILE:CD1	65:sD:188:ILE:HG12	2.43	0.48
71:sT:33:TRP:C	71:sT:33:TRP:CD1	2.89	0.48
73:sc:14:VAL:HG23	73:sc:30:VAL:HB	1.94	0.48
77:sZ:54:THR:HG23	77:sZ:57:LYS:HE3	1.94	0.48
79:s2:627:U:O2'	79:s2:628:A:OP2	2.31	0.48
79:s2:795:A:H2'	79:s2:796:G:C8	2.49	0.48
79:s2:1088:U:H4'	79:s2:1089:G:OP2	2.13	0.48
79:s2:1174:U:H2'	79:s2:1175:G:C8	2.47	0.48
79:s2:1204:A:O2'	79:s2:1700:C:OP2	2.25	0.48
80:cB:72:SER:H	80:cB:114:GLU:HG2	1.78	0.48
80:cB:114:GLU:O	80:cB:118:ALA:N	2.36	0.48
80:cB:703:ASP:HB2	80:cB:705:HIS:HE1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:497:G:N2	85:l5:498:C:H41	2.12	0.48
85:l5:956:A:N6	85:l5:1283:G:H1'	2.28	0.48
85:l5:1196:G:H2'	85:l5:1197:C:C6	2.49	0.48
85:l5:1806:G:H2'	85:l5:1807:C:C6	2.49	0.48
85:l5:1847:C:H2'	85:l5:1848:C:C6	2.48	0.48
85:l5:3916:G:H2'	85:l5:3917:A:C8	2.49	0.48
85:l5:3917:A:H2'	85:l5:3918:G:H8	1.79	0.48
5:SX:60:LYS:HG2	5:SX:114:ASP:O	2.14	0.48
6:SG:39:ASP:OD1	6:SG:47:GLY:N	2.46	0.48
11:SB:57:ILE:HG22	11:SB:59:SER:H	1.78	0.48
18:SW:106:THR:OG1	18:SW:121:THR:OG1	2.31	0.48
18:SW:113:HIS:NE2	18:SW:114:GLU:OE1	2.47	0.48
19:Sb:42:LYS:HE3	19:Sb:58:GLY:H	1.78	0.48
85:L5:297:U:C2	85:L5:298:G:C8	3.01	0.48
85:L5:298:G:H2'	85:L5:299:C:H6	1.79	0.48
85:L5:307:A:H2'	85:L5:308:G:C4	2.48	0.48
85:L5:1206:C:H2'	85:L5:1207:C:C6	2.48	0.48
85:L5:3694:U:H2'	85:L5:3695:U:C6	2.48	0.48
85:L5:3805:U:H2'	85:L5:3806:G:C8	2.48	0.48
85:L5:3974:G:O5'	63:Lz:29:LEU:HB2	2.13	0.48
85:L5:4174:U:H2'	85:L5:4175:G:C8	2.46	0.48
85:L5:4296:U:H2'	85:L5:4297:G:O4'	2.13	0.48
85:L5:4312:U:H2'	85:L5:4313:A:C8	2.48	0.48
85:L5:4935:C:H2'	85:L5:4936:G:C8	2.48	0.48
85:L5:4936:G:C5	26:LE:183:ARG:HD2	2.48	0.48
29:LH:92:MET:HE1	29:LH:181:VAL:N	2.29	0.48
31:LJ:10:ASN:N	31:LJ:11:PRO:HD2	2.28	0.48
36:LP:50:ASP:O	36:LP:54:GLN:N	2.46	0.48
36:LP:54:GLN:HA	36:LP:83:TRP:CD1	2.48	0.48
36:LP:148:MET:HE2	36:LP:148:MET:C	2.38	0.48
45:LZ:36:ARG:HD3	45:LZ:38:TYR:OH	2.14	0.48
62:Lr:96:MET:SD	62:Lr:96:MET:N	2.86	0.48
64:SR:12:ALA:HB1	65:SD:208:VAL:HG11	1.94	0.48
65:SD:7:LYS:HD2	65:SD:10:LYS:HZ3	1.79	0.48
67:SK:24:LYS:HB2	67:SK:66:HIS:NE2	2.27	0.48
67:SK:25:LYS:HE2	67:SK:62:PHE:CZ	2.48	0.48
76:SM:87:GLU:OE2	76:SM:92:CYS:SG	2.55	0.48
77:SZ:56:ASP:OD1	77:SZ:57:LYS:N	2.46	0.48
79:S2:614:C:H2'	79:S2:626:G:C8	2.48	0.48
79:S2:788:G:H1'	79:S2:789:G:C8	2.47	0.48
79:S2:1136:U:H2'	79:S2:1137:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1180:C:H2'	79:S2:1181:A:C8	2.48	0.48
3:sI:75:LYS:HE3	79:s2:303:C:H4'	1.96	0.48
3:sI:113:TYR:CE2	3:sI:158:ILE:HD11	2.48	0.48
15:sC:275:LYS:HD2	15:sC:276:THR:HG23	1.95	0.48
21:l8:30:U:H2'	21:l8:31:G:C8	2.48	0.48
21:l8:122:G:H1	21:l8:128:C:N4	2.11	0.48
24:lC:83:GLY:HA3	85:l5:368:C:O4'	2.13	0.48
25:lD:142:PHE:HE2	25:lD:144:CYS:HB3	1.77	0.48
50:le:38:PRO:HB2	50:le:43:ASN:ND2	2.28	0.48
50:le:124:ASN:OD1	50:le:124:ASN:N	2.46	0.48
59:ln:11:ARG:HH22	79:s2:1844:U:P	2.35	0.48
64:sR:26:ASN:OD1	64:sR:58:MET:HE2	2.14	0.48
64:sR:46:LEU:HG	79:s2:1369:A:N7	2.29	0.48
72:sU:104:ILE:HG12	75:Sg:244:ASN:HB3	1.96	0.48
73:sc:29:GLN:HE22	73:sc:45:ASN:HB3	1.79	0.48
75:sg:121:VAL:HG22	75:sg:156:PHE:CE1	2.48	0.48
79:s2:344:U:H2'	79:s2:345:U:C6	2.48	0.48
79:s2:1113:A:O2'	79:s2:1114:U:H5'	2.13	0.48
80:cB:155:LEU:HB2	80:cB:205:ILE:HG12	1.96	0.48
81:aP:2:U:H2'	81:aP:3:C:H6	1.79	0.48
83:ls:33:ASP:OD1	83:ls:34:ASN:N	2.44	0.48
83:ls:45:MET:HE2	84:lt:123:ARG:HG3	1.96	0.48
85:l5:2638:G:H22	85:l5:2719:C:P	2.37	0.48
85:l5:3878:C:N4	85:l5:4518:A:O4'	2.46	0.48
85:l5:4364:G:H2'	85:l5:4365:C:H6	1.79	0.48
85:l5:4573:G:H2'	85:l5:4574:U:C6	2.49	0.48
85:l5:4723:A:H2'	85:l5:4724:A:C8	2.49	0.48
86:LW:95:ASN:N	86:LW:96:GLN:OE1	2.46	0.48
7:SJ:26:ASP:OD1	7:SJ:27:GLN:N	2.46	0.48
8:SY:56:PHE:HE1	8:SY:82:ALA:HB1	1.79	0.48
10:SA:50:ASN:HB3	10:SA:53:ARG:HB2	1.95	0.48
10:SA:176:TRP:O	10:SA:180:ARG:N	2.42	0.48
11:SB:155:TYR:OH	79:S2:989:C:OP2	2.25	0.48
17:SO:28:PHE:HA	17:SO:92:ALA:HB3	1.96	0.48
17:SO:101:GLY:HA3	17:SO:134:PRO:HD2	1.95	0.48
18:SW:70:ASN:ND2	18:SW:130:PHE:O	2.47	0.48
85:L5:272:U:H2'	85:L5:273:U:C6	2.48	0.48
85:L5:480:C:H2'	85:L5:481:G:H8	1.77	0.48
85:L5:1076:C:H2'	85:L5:1077:C:H6	1.77	0.48
85:L5:1198:G:H2'	85:L5:1199:G:C8	2.48	0.48
85:L5:1830:G:H1'	47:Lb:68:ARG:HH12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2656:U:OP1	45:LZ:78:ASN:ND2	2.47	0.48
85:L5:3764:U:H2'	85:L5:3765:G:O4'	2.14	0.48
85:L5:3796:U:O2'	79:S2:1720:U:O2'	2.20	0.48
85:L5:4052:C:C6	63:Lz:208:SER:HB3	2.49	0.48
85:L5:4262:C:H2'	85:L5:4263:C:H6	1.78	0.48
85:L5:4369:A:H2'	85:L5:4370:G:C8	2.49	0.48
85:L5:4513:A:H2'	85:L5:4514:G:H8	1.78	0.48
85:L5:4605:A:H2'	85:L5:4606:G:C8	2.48	0.48
85:L5:4691:A:H4'	29:LH:71:ARG:HG2	1.95	0.48
85:L5:5063:G:H2'	85:L5:5064:G:C8	2.49	0.48
24:LC:212:ASN:HD22	24:LC:255:SER:HB3	1.79	0.48
24:LC:334:THR:HG22	24:LC:337:ARG:HH21	1.79	0.48
35:LO:186:GLU:N	35:LO:186:GLU:OE2	2.46	0.48
36:LP:127:ARG:HB2	36:LP:139:TYR:HB3	1.94	0.48
38:LR:139:MET:SD	38:LR:143:HIS:NE2	2.87	0.48
39:LS:36:ASN:OD1	39:LS:36:ASN:C	2.56	0.48
44:LY:2:LYS:HD3	44:LY:7:VAL:HG23	1.95	0.48
45:LZ:59:LYS:HZ2	45:LZ:60:LYS:HG3	1.78	0.48
46:La:89:ASN:HA	46:La:92:LYS:HG3	1.96	0.48
47:Lb:56:LYS:HE3	47:Lb:60:ASN:ND2	2.27	0.48
48:Lc:23:LYS:C	48:Lc:23:LYS:CD	2.86	0.48
61:Lp:61:MET:HE2	61:Lp:61:MET:CA	2.43	0.48
64:SR:98:VAL:HG11	64:SR:117:LEU:HG	1.95	0.48
69:SQ:31:LEU:HD21	69:SQ:33:LYS:HE3	1.95	0.48
70:SS:73:ASN:O	70:SS:76:GLN:NE2	2.39	0.48
75:Sg:70:VAL:HG13	75:Sg:113:PHE:CZ	2.48	0.48
75:Sg:178:ASN:ND2	75:Sg:183:LYS:H	2.11	0.48
79:S2:21:U:H2'	79:S2:22:A:H8	1.78	0.48
79:S2:102:A:H4'	79:S2:104:A:C8	2.48	0.48
79:S2:352:U:C2	79:S2:353:C:C5	3.01	0.48
79:S2:1700:C:O2	79:S2:1834:A:N6	2.43	0.48
87:AT:60:A:H2'	87:AT:61:A:O4'	2.13	0.48
82:Et:27:U:H2'	82:Et:28:C:C6	2.49	0.48
3:sI:77:ARG:NH2	3:sI:79:ILE:HG12	2.28	0.48
4:sL:57:ASP:HB2	4:sL:84:ARG:HH21	1.79	0.48
7:sJ:120:ALA:HB1	7:sJ:126:ALA:HA	1.95	0.48
7:sJ:122:SER:HG	7:sJ:125:HIS:HB3	1.79	0.48
15:sC:108:LYS:HD3	15:sC:233:LEU:HD13	1.96	0.48
15:sC:121:ARG:NH2	15:sC:123:ARG:HD2	2.27	0.48
20:l7:118:C:H2'	20:l7:119:U:C6	2.49	0.48
21:l8:75:G:H2'	21:l8:76:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:lB:332:MET:HE1	23:lB:365:LEU:CD1	2.43	0.48
24:lC:109:ARG:NH2	85:l5:2343:G:OP2	2.31	0.48
25:lD:206:ASP:OD1	25:lD:207:TYR:N	2.46	0.48
28:lG:50:ASP:CG	43:lX:40:ILE:HD11	2.39	0.48
35:lO:49:ARG:NH1	85:l5:1930:U:OP2	2.38	0.48
44:lY:73:VAL:HG12	44:lY:80:ILE:HG22	1.95	0.48
45:lZ:36:ARG:HB2	45:lZ:40:HIS:CE1	2.49	0.48
48:lc:55:LEU:HD13	52:lg:93:ARG:HB2	1.95	0.48
57:ll:26:TRP:CD1	57:ll:26:TRP:H	2.30	0.48
58:lm:124:LYS:NZ	85:l5:4473:A:OP1	2.46	0.48
64:sR:67:ARG:HH21	79:s2:1375:G:H5"	1.79	0.48
65:sD:195:THR:HB	65:sD:201:LYS:HD3	1.96	0.48
67:sK:32:HIS:HD2	67:sK:45:VAL:HG11	1.78	0.48
75:sg:169:GLY:O	75:sg:195:LEU:HB2	2.14	0.48
76:sM:36:ARG:HH12	79:s2:1310:U:P	2.36	0.48
78:sf:89:LYS:HG3	78:sf:91:ASN:O	2.13	0.48
79:s2:1203:G:H2'	79:s2:1204:A:H8	1.78	0.48
79:s2:1230:C:H2'	79:s2:1231:C:H6	1.79	0.48
79:s2:1372:U:O4'	79:s2:1386:A:H2	1.97	0.48
79:s2:1422:G:H4'	79:s2:1423:C:H3'	1.95	0.48
79:s2:1772:C:H2'	79:s2:1772:C:O2	2.13	0.48
80:cB:10:ARG:NH1	80:cB:463:ASP:OD1	2.46	0.48
80:cB:654:PRO:HG3	80:cB:687:THR:HG23	1.95	0.48
82:pE:19:G:N2	82:pE:57:A:H1'	2.29	0.48
85:l5:161:G:H2'	85:l5:162:A:H8	1.79	0.48
85:l5:713:C:H2'	85:l5:714:G:H8	1.78	0.48
85:l5:909:A:N1	85:l5:910:G:O6	2.46	0.48
85:l5:1681:G:OP2	85:l5:1853:G:N1	2.41	0.48
85:l5:2079:G:H2'	85:l5:2080:U:H6	1.79	0.48
85:l5:2759:G:H2'	85:l5:2760:G:C8	2.48	0.48
85:l5:4279:A:H5'	85:l5:4281:A:H1'	1.94	0.48
2:SE:104:ASP:O	2:SE:190:GLY:HA3	2.14	0.48
85:L5:295:A:P	60:Lo:39:ARG:HH21	2.37	0.48
85:L5:366:A:N1	24:LC:84:THR:HG23	2.29	0.48
85:L5:1259:G:H2'	85:L5:1260:G:H8	1.79	0.48
85:L5:1689:G:OP1	37:LQ:11:ARG:NH2	2.46	0.48
85:L5:2249:C:H2'	85:L5:2250:C:H5	1.79	0.48
85:L5:2443:G:P	85:L5:2516:G:H22	2.36	0.48
85:L5:4705:A:H2'	85:L5:4706:G:O4'	2.12	0.48
85:L5:4742:G:H2'	85:L5:4743:G:C8	2.48	0.48
85:L5:5011:A:H2'	85:L5:5012:G:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:5048:A:N3	49:Ld:31:LYS:HA	2.29	0.48
22:LA:22:HIS:O	22:LA:24:LYS:NZ	2.47	0.48
23:LB:285:TYR:HB3	23:LB:332:MET:CE	2.44	0.48
53:Lh:56:ARG:O	53:Lh:59:THR:OG1	2.27	0.48
55:Lj:34:CYS:SG	55:Lj:36:LYS:N	2.85	0.48
67:SK:25:LYS:HZ1	67:SK:65:ARG:C	2.21	0.48
67:SK:95:ARG:HD3	67:SK:95:ARG:H	1.78	0.48
68:SP:78:THR:HA	79:S2:1298:G:H4'	1.95	0.48
72:SU:38:ASP:N	72:SU:41:ARG:CZ	2.77	0.48
75:Sg:42:MET:CE	75:Sg:43:TRP:O	2.62	0.48
79:S2:89:C:O2	79:S2:499:G:H4'	2.13	0.48
79:S2:1279:C:H2'	79:S2:1280:G:H8	1.79	0.48
87:AT:62:C:H2'	87:AT:63:C:C6	2.48	0.48
6:sG:144:LEU:HD23	6:sG:145:PHE:CD1	2.49	0.48
7:sJ:34:GLU:HG3	7:sJ:35:TYR:HD1	1.78	0.48
10:sA:78:SER:OG	10:sA:125:THR:HG21	2.14	0.48
11:sB:223:PHE:O	11:sB:223:PHE:CD1	2.67	0.48
26:lE:219:LYS:NZ	85:l5:4940:C:OP2	2.33	0.48
33:lM:52:PHE:HD1	33:lM:55:MET:HE3	1.78	0.48
38:lR:71:ARG:NH1	85:l5:3605:C:OP2	2.47	0.48
47:lb:101:HIS:O	47:lb:109:ARG:NH2	2.46	0.48
48:lc:62:TYR:O	48:lc:65:MET:HG3	2.14	0.48
54:li:99:LYS:HE2	54:li:103:LYS:HZ1	1.78	0.48
58:lm:102:ARG:HD3	85:l5:4473:A:OP1	2.14	0.48
66:sF:194:ASP:OD1	66:sF:195:GLU:N	2.46	0.48
71:sT:56:ARG:NE	79:s2:1541:G:OP1	2.46	0.48
71:sT:108:GLU:OE1	71:sT:108:GLU:CA	2.59	0.48
75:sg:40:ILE:O	75:sg:59:LEU:N	2.47	0.48
75:sg:147:HIS:CD2	75:sg:169:GLY:HA3	2.49	0.48
77:sZ:46:ASN:OD1	77:sZ:46:ASN:N	2.46	0.48
79:s2:475:C:O2'	79:s2:507:G:N3	2.38	0.48
79:s2:543:C:H3'	79:s2:544:G:H8	1.79	0.48
79:s2:1796:G:H2'	79:s2:1797:U:C6	2.49	0.48
81:aP:43:A:H2'	81:aP:44:A:C8	2.49	0.48
83:ls:20:LEU:CD2	83:ls:90:PHE:CE1	2.96	0.48
85:l5:25:A:C8	85:l5:341:G:C8	3.02	0.48
85:l5:1449:C:H2'	85:l5:1450:C:H6	1.79	0.48
85:l5:4093:G:C8	85:l5:4094:G:N7	2.82	0.48
86:LW:22:ALA:HB2	86:LW:28:VAL:HG13	1.96	0.48
4:SL:22:ARG:NH2	4:SL:26:GLY:HA3	2.29	0.48
6:SG:14:LYS:HZ3	6:SG:124:LEU:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:SG:67:VAL:HB	6:SG:99:GLY:HA2	1.95	0.48
7:SJ:122:SER:O	7:SJ:124:HIS:N	2.47	0.48
8:SY:109:GLU:C	8:SY:113:ARG:HH21	2.22	0.48
10:SA:160:ALA:N	13:SV:66:ASP:OD1	2.46	0.48
12:SH:190:PRO:HB2	12:SH:191:GLU:O	2.12	0.48
15:SC:169:TYR:OH	15:SC:175:GLY:O	2.16	0.48
16:SN:98:VAL:O	16:SN:102:LEU:N	2.46	0.48
17:SO:13:GLN:HG3	17:SO:15:ILE:HG23	1.95	0.48
85:L5:513:U:H3'	85:L5:514:U:H4'	1.95	0.48
85:L5:1048:G:H2'	85:L5:1049:C:C6	2.47	0.48
85:L5:1600:A:H5'	36:LP:133:HIS:HA	1.95	0.48
85:L5:1839:U:H2'	85:L5:1840:G:H8	1.79	0.48
85:L5:1926:C:H2'	85:L5:1927:U:C6	2.49	0.48
85:L5:2362:U:H2'	85:L5:2363:A:H8	1.79	0.48
85:L5:3610:A:H2'	85:L5:3611:A:H8	1.78	0.48
85:L5:3968:U:H3'	85:L5:3969:G:H5"	1.96	0.48
85:L5:4593:C:H2'	85:L5:4594:U:C6	2.49	0.48
23:LB:189:THR:O	23:LB:193:LYS:HG2	2.13	0.48
24:LC:211:TYR:CZ	24:LC:231:ASN:HB2	2.49	0.48
28:LG:95:LEU:HD23	28:LG:95:LEU:C	2.39	0.48
33:LM:131:GLN:HE22	35:LO:174:LEU:HG	1.78	0.48
35:LO:47:PHE:HA	35:LO:136:ALA:HB2	1.95	0.48
36:LP:22:LEU:HD12	36:LP:146:ILE:HD13	1.95	0.48
38:LR:98:ARG:NH1	38:LR:132:PHE:O	2.46	0.48
40:LT:63:ARG:HB3	40:LT:63:ARG:HH11	1.76	0.48
66:SF:127:ARG:HG3	66:SF:128:ILE:H	1.79	0.48
71:ST:5:THR:HA	71:ST:132:ASP:OD2	2.14	0.48
76:SM:62:VAL:O	76:SM:66:GLU:HG2	2.14	0.48
79:S2:92:A:H61	79:S2:444:G:H1'	1.78	0.48
79:S2:114:G:O2'	79:S2:115:U:O5'	2.31	0.48
79:S2:526:A:H2'	79:S2:527:C:C6	2.49	0.48
79:S2:1199:A:H2'	79:S2:1200:A:C8	2.49	0.48
79:S2:1276:A:C6	79:S2:1322:G:H1'	2.49	0.48
79:S2:1342:U:H1'	79:S2:1343:U:H5	1.78	0.48
88:CF:13:ILE:HB	88:CF:136:HIS:ND1	2.29	0.48
63:Lz:76:GLU:HG2	63:Lz:150:GLU:HG2	1.96	0.48
63:Lz:116:LEU:HD13	63:Lz:120:ILE:HG13	1.94	0.48
83:Ls:141:LEU:HD22	83:Ls:174:LEU:HD13	1.95	0.48
1:cH:91:THR:OG1	79:s2:1321:G:P	2.71	0.48
10:sA:17:LYS:CE	10:sA:176:TRP:CZ3	2.97	0.48
10:sA:57:LYS:HA	10:sA:57:LYS:HD2	1.64	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:sH:33:ASN:ND2	12:sH:37:LYS:HG2	2.29	0.48
13:sV:16:LYS:HG2	13:sV:21:ASN:HA	1.96	0.48
13:sV:30:ALA:O	13:sV:60:ARG:NH1	2.47	0.48
17:sO:57:THR:HG22	17:sO:59:GLY:H	1.79	0.48
23:lB:300:LYS:HZ3	23:lB:304:SER:HB2	1.77	0.48
24:lC:31:PRO:HB3	37:lQ:24:TYR:CE1	2.47	0.48
28:lG:53:ARG:NH2	85:l5:4088:C:O2	2.47	0.48
31:lJ:93:GLU:OE1	31:lJ:93:GLU:HA	2.14	0.48
31:lJ:166:PHE:CE2	31:lJ:174:ILE:HD11	2.49	0.48
35:lO:162:GLU:OE2	35:lO:166:ILE:HD11	2.13	0.48
37:lQ:81:VAL:HG22	37:lQ:101:CYS:HB3	1.96	0.48
38:lR:118:HIS:HE1	85:l5:2661:U:C4	2.32	0.48
40:lT:115:LYS:HA	40:lT:118:GLU:HG2	1.96	0.48
41:lU:83:LEU:O	41:lU:87:THR:HG22	2.13	0.48
42:lV:15:ARG:HB2	85:l5:4618:G:H5"	1.95	0.48
50:le:31:ILE:HD11	85:l5:2347:A:C5	2.49	0.48
63:lz:172:VAL:O	63:lz:174:MET:HE1	2.13	0.48
79:s2:59:U:H5"	79:s2:503:C:N4	2.29	0.48
79:s2:349:A:H2'	79:s2:350:C:C6	2.49	0.48
82:pE:22:G:H2'	82:pE:23:A:C8	2.48	0.48
82:pE:36:U:C4	82:pE:37:A:N7	2.82	0.48
83:ls:148:SER:O	83:ls:151:THR:OG1	2.25	0.48
84:lt:124:GLU:HB3	84:lt:125:LEU:HD12	1.94	0.48
85:l5:481:G:H2'	85:l5:482:G:H8	1.78	0.48
85:l5:2552:G:OP2	85:l5:2553:A:O2'	2.25	0.48
85:l5:3932:U:H2'	85:l5:3933:G:H8	1.78	0.48
85:l5:4299:U:H2'	85:l5:4300:U:C6	2.49	0.48
85:l5:5004:C:H2'	85:l5:5005:G:O4'	2.14	0.48
85:l5:5024:C:H41	85:l5:5028:G:N2	2.12	0.48
2:SE:90:ILE:O	2:SE:99:PHE:N	2.47	0.48
6:SG:147:LEU:HD11	6:SG:156:TYR:HD2	1.79	0.48
8:SY:120:THR:HA	79:S2:151:C:OP1	2.13	0.48
10:SA:118:GLU:O	15:SC:65:LYS:HE2	2.14	0.48
10:SA:178:LEU:O	10:SA:182:VAL:HG12	2.14	0.48
12:SH:83:LEU:HD22	12:SH:92:VAL:HB	1.96	0.48
13:SV:70:LEU:HB3	13:SV:71:ARG:HH12	1.79	0.48
15:SC:94:ILE:O	15:SC:98:LEU:N	2.37	0.48
15:SC:138:GLY:HA3	15:SC:162:ILE:HD13	1.94	0.48
16:SN:127:ARG:O	16:SN:131:THR:HG23	2.13	0.48
85:L5:295:A:C2	85:L5:317:A:H1'	2.48	0.48
85:L5:1502:G:H1	37:LQ:89:ASP:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1845:U:H2'	85:L5:1846:G:C8	2.47	0.48
85:L5:2083:C:OP2	37:LQ:14:ARG:NH2	2.46	0.48
85:L5:2379:A:H2'	85:L5:2380:G:O4'	2.14	0.48
85:L5:4500:U:H2'	85:L5:4501:U:C6	2.49	0.48
85:L5:4524:G:H2'	85:L5:4525:C:C6	2.49	0.48
85:L5:4727:A:H2'	85:L5:4728:U:O4'	2.14	0.48
85:L5:4737:G:C6	85:L5:4963:G:C6	3.02	0.48
23:LB:363:ILE:C	23:LB:363:ILE:HD12	2.39	0.48
24:LC:298:ILE:HD13	37:LQ:131:PRO:HB3	1.96	0.48
26:LE:277:LEU:HB2	51:Lf:4:ARG:HB3	1.95	0.48
42:LV:83:ARG:HG2	42:LV:98:PHE:CG	2.49	0.48
50:Le:69:MET:HA	50:Le:69:MET:HE3	1.95	0.48
51:Lf:6:TRP:CE2	51:Lf:102:ARG:HD3	2.49	0.48
53:Lh:63:GLN:O	53:Lh:67:GLU:HG3	2.14	0.48
65:SD:61:GLU:CD	65:SD:61:GLU:H	2.22	0.48
65:SD:139:SER:OG	79:S2:1334:G:O3'	2.31	0.48
69:SQ:51:LEU:CD1	69:SQ:84:ILE:HD11	2.44	0.48
75:Sg:70:VAL:HG12	75:Sg:113:PHE:CZ	2.49	0.48
76:SM:29:ASP:OD1	76:SM:30:GLY:N	2.47	0.48
76:SM:45:ARG:HH12	78:Sf:128:ALA:HB3	1.79	0.48
78:Sf:114:ILE:HD11	78:Sf:116:ARG:HD3	1.96	0.48
79:S2:379:C:H2'	79:S2:380:G:C8	2.49	0.48
79:S2:969:U:OP1	79:S2:970:G:O2'	2.30	0.48
79:S2:1693:G:C2	79:S2:1694:U:N3	2.82	0.48
84:Lt:76:SER:O	84:Lt:117:ARG:NH2	2.47	0.48
84:Lt:114:ARG:O	84:Lt:117:ARG:HG2	2.14	0.48
84:Lt:130:LYS:NZ	84:Lt:159:ALA:HA	2.25	0.48
2:sE:37:LYS:HB2	2:sE:40:GLU:OE1	2.14	0.47
4:sL:95:TYR:HD2	4:sL:102:PHE:CE1	2.32	0.47
15:sC:253:PRO:HA	15:sC:256:TRP:CD2	2.38	0.47
22:lA:97:ASN:OD1	22:lA:98:ILE:N	2.47	0.47
23:lB:300:LYS:HD2	23:lB:310:SER:O	2.14	0.47
37:lQ:88:ASP:OD1	37:lQ:108:ARG:HD2	2.14	0.47
37:lQ:90:VAL:HB	46:la:80:THR:HG21	1.96	0.47
49:ld:87:ARG:NH1	49:ld:122:VAL:HG21	2.29	0.47
51:lf:46:ARG:HD2	51:lf:106:TYR:HD2	1.78	0.47
63:lz:85:MET:SD	63:lz:93:LEU:HD12	2.54	0.47
68:sP:28:MET:HE2	68:sP:33:LEU:HD11	1.95	0.47
68:sP:34:MET:HE1	68:sP:45:LEU:HB3	1.95	0.47
69:sQ:24:HIS:CE1	79:s2:1408:U:H4'	2.48	0.47
78:sf:92:LYS:HA	78:sf:92:LYS:HD2	1.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:sf:103:LEU:HD13	78:sf:105:TYR:H	1.79	0.47
79:s2:452:G:H2'	79:s2:453:C:H6	1.77	0.47
79:s2:1280:G:H2'	79:s2:1281:G:H8	1.79	0.47
79:s2:1629:C:H2'	79:s2:1630:A:O4'	2.14	0.47
80:cB:109:VAL:HG11	85:l5:4605:A:O2'	2.13	0.47
81:aP:3:C:N4	81:aP:70:A:H61	2.11	0.47
83:ls:157:ASP:OD1	83:ls:157:ASP:N	2.47	0.47
85:l5:162:A:H2'	85:l5:163:A:C8	2.49	0.47
85:l5:171:U:H5"	85:l5:172:C:C5	2.49	0.47
85:l5:1749:A:H2'	85:l5:1750:G:C8	2.48	0.47
85:l5:2102:G:H1'	85:l5:2103:G:N7	2.29	0.47
85:l5:2361:G:O2'	85:l5:3859:G:O6	2.30	0.47
85:l5:2611:A:H5'	85:l5:2688:G:H4'	1.96	0.47
85:l5:2704:C:H2'	85:l5:2705:G:C8	2.49	0.47
85:l5:4708:A:N3	85:l5:4709:U:H5'	2.29	0.47
6:SG:67:VAL:HG12	6:SG:69:THR:HG22	1.95	0.47
7:SJ:72:PHE:HD1	7:SJ:72:PHE:O	1.97	0.47
7:SJ:160:SER:OG	7:SJ:163:SER:HB3	2.14	0.47
15:SC:179:THR:OG1	15:SC:180:VAL:N	2.47	0.47
17:SO:14:VAL:N	17:SO:15:ILE:HA	2.28	0.47
18:SW:112:ASP:OD1	18:SW:112:ASP:N	2.38	0.47
85:L5:324:A:H2'	85:L5:325:U:C6	2.49	0.47
85:L5:1397:A:OP2	46:La:112:LEU:HG	2.14	0.47
85:L5:1475:G:N2	85:L5:1490:G:C4	2.82	0.47
85:L5:1558:A:H2'	85:L5:1559:G:H8	1.79	0.47
85:L5:1940:G:H22	85:L5:4435:U:P	2.37	0.47
85:L5:1952:G:H2'	85:L5:1953:U:H6	1.78	0.47
85:L5:2695:A:H1'	85:L5:2697:A:N7	2.29	0.47
85:L5:2783:A:H2'	85:L5:2784:C:O4'	2.13	0.47
85:L5:3596:A:O2'	38:LR:143:HIS:ND1	2.44	0.47
85:L5:3748:A:HO2'	22:LA:223:SER:HG	1.53	0.47
85:L5:4941:G:H2'	85:L5:4942:C:C6	2.49	0.47
20:L7:3:C:H2'	20:L7:4:U:H6	1.78	0.47
20:L7:113:G:H2'	20:L7:114:U:C6	2.49	0.47
25:LD:271:MET:HE1	25:LD:276:LYS:HG3	1.95	0.47
26:LE:249:ASP:OD1	26:LE:249:ASP:C	2.57	0.47
30:LI:67:ALA:HB1	30:LI:158:LYS:HD2	1.96	0.47
31:LJ:113:ILE:HD11	31:LJ:125:ILE:HA	1.96	0.47
33:LM:29:ASP:OD1	33:LM:67:SER:N	2.42	0.47
33:LM:52:PHE:HA	33:LM:55:MET:HE2	1.96	0.47
43:LX:52:LEU:HD23	43:LX:52:LEU:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:Lc:22:MET:HE1	48:Lc:27:TYR:CD1	2.49	0.47
67:SK:5:LYS:HA	67:SK:8:ARG:NE	2.29	0.47
67:SK:60:GLU:HB3	67:SK:69:TRP:HA	1.96	0.47
67:SK:61:GLN:OE1	67:SK:68:TYR:HB2	2.14	0.47
67:SK:81:ASP:OD2	67:SK:81:ASP:C	2.57	0.47
69:SQ:103:ALA:O	69:SQ:107:GLU:HG2	2.14	0.47
79:S2:157:U:O2'	79:S2:159:A:N7	2.34	0.47
79:S2:922:A:H2'	79:S2:923:G:O4'	2.14	0.47
88:CF:44:LYS:O	88:CF:48:GLU:HG2	2.14	0.47
88:CF:366:ALA:HB3	88:CF:410:MET:HE1	1.96	0.47
3:sI:150:ASP:HA	3:sI:153:LYS:HG3	1.96	0.47
7:sJ:33:GLY:HA3	9:se:38:TYR:CD1	2.49	0.47
7:sJ:50:LEU:HD13	7:sJ:105:PHE:HE2	1.78	0.47
8:sY:63:HIS:NE2	8:sY:68:LYS:HG3	2.29	0.47
17:sO:99:ALA:H	17:sO:133:THR:HG22	1.79	0.47
18:sW:76:SER:HB2	79:s2:1158:G:H5"	1.94	0.47
22:lA:104:VAL:HA	22:lA:107:MET:HE3	1.96	0.47
23:lB:300:LYS:HZ1	23:lB:309:LEU:CA	2.21	0.47
23:lB:385:LYS:NZ	85:l5:5001:U:OP1	2.46	0.47
26:lE:110:ARG:O	26:lE:110:ARG:HG3	2.14	0.47
27:lF:90:ALA:HB2	27:lF:125:LEU:HD11	1.94	0.47
43:lX:72:ASP:OD2	43:lX:72:ASP:C	2.57	0.47
44:lY:118:ILE:HA	44:lY:121:ARG:HB3	1.96	0.47
46:la:98:ALA:HB1	46:la:122:VAL:HA	1.95	0.47
47:lb:117:ARG:CZ	47:lb:117:ARG:HB2	2.43	0.47
49:ld:75:LYS:HB2	49:ld:79:ASN:O	2.14	0.47
57:ll:20:ASN:OD1	57:ll:41:ARG:NH1	2.47	0.47
62:lr:57:GLY:O	62:lr:121:GLN:NE2	2.47	0.47
64:sR:92:ASP:O	64:sR:94:GLU:HG2	2.13	0.47
75:sg:122:SER:C	75:sg:129:ILE:HG13	2.39	0.47
79:s2:106:C:H2'	79:s2:107:A:H8	1.78	0.47
79:s2:342:C:C2	79:s2:343:A:C8	3.02	0.47
79:s2:1457:U:H2'	79:s2:1458:G:H8	1.78	0.47
79:s2:1773:C:H2'	79:s2:1774:C:H5"	1.96	0.47
80:cB:32:LYS:HE2	80:cB:32:LYS:HB2	1.77	0.47
85:l5:1204:C:N4	85:l5:1205:G:O6	2.47	0.47
85:l5:1806:G:H2'	85:l5:1807:C:H6	1.80	0.47
85:l5:2557:G:H2'	85:l5:2558:C:C6	2.48	0.47
85:l5:4299:U:H2'	85:l5:4300:U:H6	1.79	0.47
85:l5:4685:U:H2'	85:l5:4686:G:C8	2.48	0.47
2:SE:145:ARG:HH22	2:SE:147:ILE:HB	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SE:151:ASP:HB3	2:SE:154:ILE:HG12	1.95	0.47
3:SI:165:GLN:HE21	3:SI:171:LEU:CA	2.27	0.47
15:SC:176:LYS:O	15:SC:200:ARG:NH1	2.33	0.47
16:SN:25:TRP:CH2	19:Sb:32:PHE:HB3	2.49	0.47
18:SW:105:THR:HG23	79:S2:862:A:H2	1.79	0.47
19:Sb:36:LYS:HG2	19:Sb:78:SER:HB3	1.96	0.47
85:L5:162:A:H2'	85:L5:163:A:C8	2.48	0.47
85:L5:212:A:H2'	85:L5:213:G:C8	2.49	0.47
85:L5:1268:G:N7	47:Lb:111:ARG:NH2	2.62	0.47
85:L5:1778:C:H2'	85:L5:1779:U:C6	2.49	0.47
85:L5:2465:C:H2'	85:L5:2466:G:O4'	2.14	0.47
85:L5:2702:C:H5"	41:LU:103:VAL:HG21	1.97	0.47
85:L5:4200:G:HO2'	89:Pt:2:U:HO2'	1.59	0.47
85:L5:4219:A:H2'	85:L5:4220:A:C8	2.49	0.47
22:LA:63:PHE:HE2	22:LA:76:PHE:CE2	2.32	0.47
27:LF:190:LEU:HD12	27:LF:194:ILE:HG12	1.95	0.47
32:LL:46:ILE:HB	32:LL:49:ARG:HB2	1.96	0.47
38:LR:84:THR:HG23	38:LR:87:ALA:H	1.79	0.47
38:LR:138:LEU:O	38:LR:142:ILE:HG22	2.14	0.47
40:LT:127:GLN:NE2	40:LT:131:GLN:HE21	2.12	0.47
52:Lg:82:MET:HE1	52:Lg:90:ARG:NH1	2.29	0.47
62:Lr:84:LYS:HE2	62:Lr:84:LYS:HB3	1.66	0.47
70:SS:84:LEU:O	70:SS:87:GLN:NE2	2.46	0.47
72:SU:99:LYS:HA	72:SU:99:LYS:HD2	1.71	0.47
75:Sg:11:LEU:N	75:Sg:307:VAL:O	2.39	0.47
75:Sg:85:GLY:O	75:Sg:104:HIS:HB2	2.15	0.47
75:Sg:160:SER:O	75:Sg:163:PRO:HG3	2.14	0.47
79:S2:825:A:H2'	79:S2:826:A:C8	2.49	0.47
79:S2:1189:A:H2'	79:S2:1190:A:H8	1.79	0.47
79:S2:1644:C:H2'	79:S2:1645:C:C6	2.48	0.47
79:S2:1806:A:H2'	79:S2:1807:C:C6	2.49	0.47
63:Lz:22:GLN:CD	63:Lz:22:GLN:H	2.22	0.47
2:sE:103:TYR:HB2	2:sE:182:MET:HE3	1.96	0.47
3:sI:147:LYS:NZ	79:s2:203:G:H5'	2.29	0.47
4:sL:80:MET:HE3	4:sL:120:VAL:O	2.14	0.47
5:sX:100:VAL:HG12	5:sX:125:VAL:HG23	1.96	0.47
17:sO:40:THR:HG21	17:sO:74:ALA:HB2	1.96	0.47
27:lF:106:ARG:O	27:lF:110:GLN:HG3	2.14	0.47
27:lF:157:ARG:HD2	27:lF:213:LEU:HD23	1.97	0.47
36:lP:115:GLU:OE2	36:lP:151:THR:OG1	2.29	0.47
36:lP:119:VAL:HG12	36:lP:146:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:sD:158:ILE:H	65:sD:158:ILE:HD12	1.79	0.47
69:sQ:133:GLY:HA3	69:sQ:140:ARG:CZ	2.43	0.47
73:sc:28:THR:O	73:sc:45:ASN:HA	2.15	0.47
79:s2:312:G:N2	79:s2:338:G:H1'	2.29	0.47
79:s2:549:C:H2'	79:s2:550:C:C6	2.49	0.47
79:s2:1617:G:N1	79:s2:1620:A:OP2	2.48	0.47
80:cB:14:ASP:HB3	80:cB:465:PRO:HG3	1.96	0.47
80:cB:641:TRP:HE1	80:cB:646:ALA:HA	1.78	0.47
83:ls:74:ALA:C	83:ls:77:LYS:NZ	2.72	0.47
84:lt:57:ARG:HG2	84:lt:58:ILE:H	1.79	0.47
85:l5:318:A:H2'	85:l5:319:A:C8	2.49	0.47
85:l5:693:C:H2'	85:l5:694:C:C6	2.48	0.47
85:l5:1340:C:H2'	85:l5:1341:U:C6	2.50	0.47
85:l5:1413:C:H2'	85:l5:1414:C:C1'	2.44	0.47
85:l5:1431:C:H2'	85:l5:1432:G:O4'	2.14	0.47
85:l5:3948:C:HO2'	85:l5:4065:G:H1	1.62	0.47
3:SI:157:LYS:HB3	4:SL:23:VAL:HG23	1.96	0.47
7:SJ:65:GLU:CG	7:SJ:66:LYS:N	2.77	0.47
8:SY:7:ILE:HG13	8:SY:43:LYS:HG3	1.96	0.47
11:SB:30:TRP:CZ3	17:SO:19:PRO:CB	2.97	0.47
11:SB:166:LYS:HA	11:SB:169:MET:HG2	1.97	0.47
15:SC:131:GLY:HA3	15:SC:137:VAL:HA	1.95	0.47
18:SW:71:LYS:HZ2	79:S2:1156:U:P	2.37	0.47
85:L5:171:U:H5"	85:L5:172:C:C5	2.49	0.47
85:L5:368:C:O4'	24:LC:83:GLY:HA3	2.15	0.47
85:L5:1211:G:H2'	85:L5:1212:G:H8	1.79	0.47
85:L5:1985:G:H2'	85:L5:1986:U:C6	2.50	0.47
85:L5:3687:A:OP2	22:LA:10:LYS:NZ	2.47	0.47
85:L5:3923:A:H2'	85:L5:3924:C:C6	2.49	0.47
85:L5:4699:U:H4'	85:L5:4700:A:OP1	2.14	0.47
85:L5:4743:G:H2'	85:L5:4744:A:H8	1.78	0.47
21:L8:142:U:C2	21:L8:143:G:C8	3.03	0.47
21:L8:144:U:H2'	21:L8:145:C:C6	2.48	0.47
22:LA:173:GLY:O	61:Lp:69:TRP:NE1	2.45	0.47
28:LG:131:LYS:O	28:LG:131:LYS:CG	2.62	0.47
30:LI:19:LYS:HD2	30:LI:26:VAL:HB	1.96	0.47
31:LJ:19:LYS:HD2	31:LJ:75:ARG:NH2	2.29	0.47
42:LV:33:GLY:HA3	42:LV:69:LYS:HE2	1.96	0.47
43:LX:52:LEU:HD23	43:LX:52:LEU:H	1.79	0.47
45:LZ:12:LEU:HD23	45:LZ:12:LEU:HA	1.72	0.47
48:Lc:81:LEU:HD23	48:Lc:91:VAL:HG13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:Sg:40:ILE:HB	75:Sg:59:LEU:HB3	1.97	0.47
77:SZ:43:LYS:HE2	79:S2:1600:G:H4'	1.96	0.47
77:SZ:99:LEU:HG	77:SZ:109:TYR:CD1	2.50	0.47
79:S2:57:U:H5"	79:S2:504:G:H1'	1.96	0.47
79:S2:499:G:N1	79:S2:501:C:O2	2.47	0.47
79:S2:531:A:N6	79:S2:554:A:H61	2.12	0.47
79:S2:614:C:H5"	79:S2:615:C:C5	2.49	0.47
79:S2:1340:U:OP2	79:S2:1341:C:O2'	2.25	0.47
79:S2:1859:A:H2'	79:S2:1860:A:C8	2.49	0.47
2:sE:117:GLU:CD	2:sE:117:GLU:H	2.20	0.47
2:sE:173:ILE:HD11	2:sE:230:LYS:HB2	1.96	0.47
4:sL:39:ASN:OD1	79:s2:292:A:H4'	2.14	0.47
8:sY:51:THR:HG22	8:sY:53:ASP:H	1.77	0.47
10:sA:18:PHE:C	10:sA:18:PHE:CD1	2.92	0.47
10:sA:68:ILE:HG23	10:sA:120:ARG:HH21	1.79	0.47
10:sA:85:ARG:HE	10:sA:89:LYS:NZ	2.12	0.47
10:sA:91:ALA:HA	10:sA:96:ALA:HB3	1.97	0.47
11:sB:149:GLN:NE2	64:sR:132:ARG:O	2.46	0.47
14:sa:49:ALA:HB1	17:sO:117:ARG:HD2	1.96	0.47
20:l7:12:U:O3'	20:l7:109:U:O2'	2.26	0.47
21:l8:27:U:H2'	21:l8:28:C:C6	2.50	0.47
22:lA:131:GLY:H	22:lA:169:VAL:HG13	1.79	0.47
25:lD:15:ARG:CZ	85:l5:1743:A:H1'	2.44	0.47
29:lH:111:LEU:HD21	29:lH:125:ARG:HB3	1.96	0.47
43:lX:82:THR:HG21	53:lh:37:THR:HG22	1.96	0.47
53:lh:16:GLU:C	53:lh:16:GLU:OE1	2.57	0.47
54:li:60:LEU:HD13	54:li:68:ARG:HG3	1.96	0.47
59:ln:1:MET:HB2	79:s2:1706:G:H5'	1.96	0.47
64:sR:39:ALA:HB1	64:sR:41:ILE:CG2	2.44	0.47
65:sD:194:PRO:HG2	65:sD:199:GLY:N	2.23	0.47
67:sK:57:TYR:HB3	67:sK:75:GLY:HA2	1.95	0.47
68:sP:29:SER:H	68:sP:32:GLN:NE2	2.11	0.47
69:sQ:32:ILE:HG22	69:sQ:39:LEU:HD23	1.96	0.47
70:sS:100:ALA:O	70:sS:103:LEU:N	2.47	0.47
73:sc:58:LEU:HD21	73:sc:61:SER:HA	1.95	0.47
75:sg:178:ASN:HD21	75:sg:181:ASN:H	1.62	0.47
79:s2:1750:C:H2'	79:s2:1751:C:O4'	2.15	0.47
80:cB:89:ILE:HD13	80:cB:356:ILE:HG22	1.97	0.47
80:cB:226:LYS:O	80:cB:230:GLU:N	2.41	0.47
81:aP:9:A:N6	81:aP:22:U:OP2	2.47	0.47
84:lt:23:GLY:O	84:lt:25:THR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:1695:U:HO2'	85:l5:1719:A:H2	1.61	0.47
85:l5:2468:U:O4	85:l5:2506:G:O2'	2.25	0.47
85:l5:2521:G:H5'	85:l5:2640:G:H1'	1.96	0.47
85:l5:2557:G:O6	85:l5:2570:U:O4	2.33	0.47
85:l5:2634:C:H2'	85:l5:2635:U:C6	2.49	0.47
85:l5:3774:A:H2'	85:l5:3775:A:N3	2.28	0.47
85:l5:3873:G:H2'	85:l5:3874:G:C8	2.50	0.47
85:l5:3951:G:N2	85:l5:4062:A:C6	2.82	0.47
6:SG:195:LYS:HD3	79:S2:126:G:H5'	1.96	0.47
11:SB:44:ILE:HG13	11:SB:74:LEU:HD21	1.95	0.47
11:SB:187:LYS:O	11:SB:190:PRO:HD2	2.13	0.47
13:SV:24:ILE:HD12	13:SV:31:SER:HB2	1.95	0.47
13:SV:73:ALA:O	13:SV:78:ILE:HG12	2.14	0.47
14:Sa:17:HIS:NE2	79:S2:1858:G:OP1	2.31	0.47
16:SN:25:TRP:CE3	19:Sb:82:LYS:HD2	2.45	0.47
16:SN:48:SER:HB3	79:S2:926:A:H1'	1.96	0.47
17:SO:151:LEU:HD23	17:SO:151:LEU:H	1.80	0.47
19:Sb:44:THR:HG22	19:Sb:45:THR:H	1.80	0.47
85:L5:257:C:OP1	32:LL:130:LYS:NZ	2.36	0.47
85:L5:509:A:N6	46:La:102:ASP:O	2.34	0.47
85:L5:1392:A:O4'	46:La:58:MET:HE1	2.14	0.47
85:L5:1664:U:H2'	85:L5:1665:C:H6	1.78	0.47
85:L5:1736:A:N3	20:L7:78:C:O2'	2.44	0.47
85:L5:1787:A:H2'	85:L5:1788:A:C8	2.50	0.47
85:L5:1811:G:H2'	85:L5:1812:C:H6	1.77	0.47
85:L5:1973:G:H3'	85:L5:1974:U:H2'	1.96	0.47
85:L5:2084:C:O2	37:LQ:16:LYS:NZ	2.47	0.47
85:L5:3711:A:H1'	79:S2:970:G:N9	2.29	0.47
85:L5:4122:G:N1	52:Lg:98:GLU:OE1	2.48	0.47
85:L5:4457:U:O2	23:LB:252:ALA:HB3	2.14	0.47
85:L5:4633:G:N2	85:L5:4664:A:OP2	2.39	0.47
23:LB:181:MET:HE2	23:LB:182:GLU:O	2.15	0.47
25:LD:271:MET:HE1	25:LD:276:LYS:N	2.28	0.47
27:LF:131:ASN:O	27:LF:135:ILE:HG12	2.14	0.47
28:LG:26:LYS:HD2	28:LG:27:VAL:N	2.29	0.47
32:LL:111:GLN:O	32:LL:115:GLN:HG2	2.14	0.47
33:LM:100:ARG:HH11	33:LM:100:ARG:HG3	1.80	0.47
36:LP:32:THR:HA	36:LP:58:VAL:HG21	1.97	0.47
62:Lr:51:VAL:C	62:Lr:52:GLU:OE1	2.57	0.47
65:SD:14:ASP:HA	65:SD:17:PHE:CD1	2.50	0.47
67:SK:49:MET:HE1	67:SK:69:TRP:CZ3	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1803:U:H2'	79:S2:1804:U:C6	2.50	0.47
1:cH:49:ASN:HB3	1:cH:51:GLN:NE2	2.28	0.47
3:sI:76:THR:HG22	3:sI:77:ARG:N	2.30	0.47
6:sG:116:LYS:NZ	6:sG:119:LYS:O	2.40	0.47
8:sY:44:LEU:O	8:sY:48:TYR:HB2	2.14	0.47
10:sA:37:TYR:OH	10:sA:57:LYS:NZ	2.47	0.47
10:sA:145:ILE:HG12	10:sA:159:ILE:HB	1.97	0.47
12:sH:31:GLU:HA	12:sH:37:LYS:HE3	1.96	0.47
15:sC:83:LEU:HD23	15:sC:84:PHE:CD2	2.49	0.47
15:sC:227:ARG:NH1	79:s2:656:G:O2'	2.47	0.47
21:l8:108:A:H4'	85:l5:2509:C:H5'	1.96	0.47
21:l8:137:A:H2'	21:l8:138:C:C6	2.50	0.47
25:lD:22:ARG:NH2	25:lD:27:LYS:HE2	2.29	0.47
25:lD:208:MET:CG	25:lD:223:PHE:HE2	2.23	0.47
29:lH:87:GLY:O	29:lH:186:THR:HG22	2.15	0.47
29:lH:93:ARG:NH1	29:lH:142:ASP:O	2.48	0.47
33:lM:27:ILE:HG22	33:lM:38:VAL:HG12	1.96	0.47
35:lO:47:PHE:HA	35:lO:136:ALA:HB2	1.97	0.47
36:lP:94:MET:HE3	36:lP:94:MET:HB2	1.70	0.47
40:lT:4:THR:OG1	85:l5:4208:U:OP2	2.28	0.47
46:la:32:ARG:HG3	85:l5:1515:A:OP1	2.13	0.47
63:lz:2:SER:HA	63:lz:207:LYS:HG2	1.97	0.47
64:sR:4:VAL:HG11	79:s2:1212:G:H5"	1.95	0.47
70:sS:64:VAL:HG12	70:sS:68:ILE:HD11	1.96	0.47
75:sg:29:ASP:O	75:sg:44:LYS:HA	2.15	0.47
76:sM:25:ALA:HA	76:sM:113:ASP:HB3	1.97	0.47
77:sZ:45:ASN:ND2	77:sZ:45:ASN:O	2.48	0.47
77:sZ:102:LYS:HD2	77:sZ:102:LYS:HA	1.65	0.47
79:s2:210:U:H2'	79:s2:211:G:C8	2.50	0.47
79:s2:374:G:H2'	79:s2:375:U:C6	2.49	0.47
79:s2:1549:U:H2'	79:s2:1550:G:C8	2.49	0.47
80:cB:221:TRP:HE3	80:cB:344:LEU:HD11	1.79	0.47
85:l5:966:A:H3'	85:l5:967:C:C6	2.50	0.47
85:l5:1081:C:O2'	85:l5:1082:C:H5'	2.14	0.47
85:l5:1084:C:H2'	85:l5:1085:C:C6	2.48	0.47
85:l5:1298:C:H2'	85:l5:1299:G:H8	1.78	0.47
85:l5:1392:A:H2'	85:l5:1393:G:C8	2.49	0.47
85:l5:1566:C:H2'	85:l5:1567:U:H6	1.80	0.47
85:l5:2046:G:O2'	85:l5:2047:A:N7	2.41	0.47
86:LW:38:SER:O	86:LW:42:SER:N	2.45	0.47
86:LW:106:GLU:O	86:LW:110:ARG:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:SI:141:ARG:HH22	79:S2:192:C:P	2.38	0.47
4:SL:32:LYS:HD3	4:SL:33:LEU:HD23	1.97	0.47
6:SG:78:SER:OG	6:SG:79:LYS:N	2.47	0.47
8:SY:61:ARG:HH12	8:SY:63:HIS:HA	1.79	0.47
10:SA:149:ASN:HB2	10:SA:165:ASN:ND2	2.28	0.47
14:Sa:64:LEU:HD12	14:Sa:64:LEU:H	1.79	0.47
15:SC:256:TRP:HB3	18:SW:68:ARG:HH21	1.79	0.47
85:L5:8:U:OP1	34:LN:41:ARG:NH1	2.47	0.47
85:L5:481:G:H2'	85:L5:482:G:H8	1.78	0.47
85:L5:928:C:H2'	85:L5:929:A:H8	1.78	0.47
85:L5:975:C:O3'	27:LF:47:ARG:NH2	2.47	0.47
85:L5:1076:C:H2'	85:L5:1077:C:C6	2.50	0.47
85:L5:1199:G:H2'	85:L5:1200:G:C8	2.50	0.47
85:L5:3707:U:H2'	85:L5:3708:C:C6	2.49	0.47
85:L5:4139:G:N2	85:L5:4140:C:H41	1.98	0.47
85:L5:4594:U:H2'	85:L5:4595:G:H8	1.79	0.47
85:L5:5024:C:H41	85:L5:5028:G:H21	1.60	0.47
85:L5:5024:C:N4	85:L5:5028:G:H21	2.11	0.47
20:L7:90:A:O2'	30:LI:56:GLU:OE2	2.25	0.47
21:L8:79:G:H2'	21:L8:80:A:O4'	2.14	0.47
22:LA:192:LYS:HB3	22:LA:193:ARG:NH1	2.29	0.47
25:LD:3:PHE:CD1	25:LD:3:PHE:C	2.92	0.47
38:LR:173:ARG:HB3	79:S2:910:G:C8	2.49	0.47
40:LT:122:LYS:HZ3	40:LT:124:THR:H	1.63	0.47
48:Lc:58:SER:HB2	52:Lg:96:LEU:HD12	1.97	0.47
60:Lo:32:SER:C	60:Lo:34:TYR:H	2.22	0.47
64:SR:10:LYS:NZ	79:S2:1466:G:OP1	2.43	0.47
66:SF:49:LEU:HD12	69:SQ:50:LYS:HB2	1.96	0.47
71:ST:67:ARG:HG2	79:S2:1587:G:C6	2.49	0.47
74:Sd:46:TYR:O	74:Sd:50:ILE:HD12	2.15	0.47
79:S2:605:A:N3	79:S2:639:C:H1'	2.29	0.47
79:S2:651:U:H2'	79:S2:652:U:C6	2.50	0.47
79:S2:809:A:H2'	79:S2:810:A:O4'	2.14	0.47
79:S2:1196:A:C2	79:S2:1197:G:H1'	2.49	0.47
79:S2:1337:C:H2'	79:S2:1338:G:H8	1.80	0.47
79:S2:1703:C:H2'	79:S2:1704:C:O4'	2.14	0.47
84:Lt:66:ASN:N	84:Lt:69:ALA:O	2.48	0.47
3:sI:124:LYS:HB3	3:sI:125:LYS:NZ	2.29	0.47
6:sG:188:LYS:NZ	6:sG:191:ARG:HB2	2.29	0.47
10:sA:23:THR:HG21	10:sA:173:LEU:HD23	1.97	0.47
11:sB:32:ASP:OD1	11:sB:32:ASP:N	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:sH:145:ARG:HH12	18:sW:52:ILE:H	1.61	0.47
22:lA:28:ARG:HB2	22:lA:123:ARG:CB	2.44	0.47
23:lB:285:TYR:CE1	23:lB:334:LYS:CB	2.97	0.47
25:lD:12:TYR:OH	85:l5:4265:U:OP1	2.30	0.47
25:lD:202:GLN:HA	25:lD:205:ALA:HB3	1.95	0.47
35:lO:186:GLU:HA	35:lO:186:GLU:OE1	2.15	0.47
45:lZ:58:GLY:O	45:lZ:62:ILE:HG12	2.14	0.47
45:lZ:103:ASP:OD1	45:lZ:105:ALA:N	2.45	0.47
51:lf:46:ARG:HB3	51:lf:106:TYR:HB2	1.97	0.47
63:lz:198:TRP:CG	63:lz:199:GLN:N	2.83	0.47
64:sR:39:ALA:HB1	64:sR:41:ILE:HG23	1.97	0.47
75:sg:108:VAL:HA	75:sg:124:SER:HA	1.97	0.47
78:sf:93:HIS:CE1	78:sf:96:LYS:HZ3	2.29	0.47
79:s2:936:G:H2'	79:s2:937:C:C6	2.49	0.47
79:s2:1227:G:C2	79:s2:1228:A:C8	3.03	0.47
79:s2:1853:C:H2'	79:s2:1854:U:H6	1.80	0.47
80:cB:18:ASN:OD1	80:cB:98:PHE:HA	2.15	0.47
80:cB:629:LYS:O	80:cB:633:ARG:HG2	2.14	0.47
81:aP:26:G:O6	81:aP:44:A:N1	2.48	0.47
85:l5:436:C:H2'	85:l5:437:G:H8	1.79	0.47
85:l5:1179:U:O2'	85:l5:1180:C:OP1	2.24	0.47
85:l5:1633:G:H5'	85:l5:1634:A:OP1	2.15	0.47
85:l5:2295:C:H2'	85:l5:2296:G:H8	1.78	0.47
85:l5:3868:G:H22	85:l5:3900:G:H1'	1.80	0.47
85:l5:4460:U:H2'	85:l5:4461:C:H6	1.79	0.47
86:LW:50:ASN:C	86:LW:55:TYR:CZ	2.92	0.47
86:LW:97:LYS:O	86:LW:97:LYS:NZ	2.33	0.47
2:SE:102:ILE:HD13	2:SE:239:PRO:HD3	1.95	0.47
4:SL:49:GLU:CD	4:SL:49:GLU:H	2.17	0.47
6:SG:222:GLU:HA	6:SG:225:GLN:HB2	1.95	0.47
10:SA:169:HIS:CD2	10:SA:203:PHE:HE2	2.33	0.47
12:SH:47:ALA:O	12:SH:63:PHE:N	2.35	0.47
85:L5:20:U:OP2	21:L8:36:G:N2	2.47	0.47
85:L5:162:A:H2'	85:L5:163:A:H8	1.77	0.47
85:L5:221:C:H2'	85:L5:222:C:C6	2.48	0.47
85:L5:447:C:H2'	85:L5:448:G:H8	1.79	0.47
85:L5:452:A:H4'	85:L5:453:G:H5'	1.96	0.47
85:L5:1095:A:H2'	85:L5:1096:C:C6	2.50	0.47
85:L5:1391:A:N3	46:La:58:MET:CE	2.77	0.47
85:L5:1487:G:H2'	85:L5:1488:G:C8	2.49	0.47
85:L5:1591:U:N3	85:L5:4555:U:OP1	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1663:C:H1'	85:L5:2320:G:N2	2.29	0.47
85:L5:1696:C:H2'	85:L5:1697:G:O4'	2.14	0.47
85:L5:1707:C:N3	47:Lb:102:PRO:HB2	2.30	0.47
85:L5:2029:A:H2'	85:L5:2030:A:C8	2.50	0.47
85:L5:2885:A:H2'	85:L5:2886:U:C6	2.49	0.47
85:L5:4552:U:H2'	85:L5:4553:A:C8	2.49	0.47
25:LD:234:ASP:O	25:LD:236:MET:N	2.48	0.47
25:LD:258:LYS:H	25:LD:259:LYS:NZ	2.13	0.47
26:LE:203:ILE:O	26:LE:206:VAL:HG22	2.14	0.47
28:LG:205:THR:OG1	28:LG:206:GLN:N	2.47	0.47
31:LJ:99:PHE:CE2	31:LJ:174:ILE:HD13	2.49	0.47
31:LJ:107:PHE:HE1	31:LJ:130:PHE:CD2	2.32	0.47
32:LL:47:ALA:HB3	32:LL:48:PRO:HD3	1.96	0.47
36:LP:131:ARG:HB2	36:LP:135:ARG:HB2	1.95	0.47
38:LR:173:ARG:HD2	79:S2:909:G:C6	2.49	0.47
45:LZ:10:VAL:HG11	45:LZ:85:TYR:HB2	1.97	0.47
52:Lg:63:VAL:HG23	52:Lg:66:ARG:CZ	2.44	0.47
62:Lr:17:LEU:HA	62:Lr:17:LEU:HD12	1.74	0.47
66:SF:55:ARG:HE	69:SQ:125:ARG:HH11	1.62	0.47
67:SK:68:TYR:O	67:SK:70:TYR:CD1	2.67	0.47
70:SS:39:ARG:HD2	71:ST:38:LYS:HD2	1.96	0.47
71:ST:104:LEU:O	71:ST:108:GLU:HG2	2.14	0.47
75:Sg:256:ILE:HB	75:Sg:270:LEU:HD22	1.97	0.47
79:S2:912:C:H5"	79:S2:913:A:H5"	1.96	0.47
79:S2:1259:A:N6	79:S2:1519:U:O5'	2.47	0.47
79:S2:1396:A:N7	79:S2:1449:G:O6	2.48	0.47
79:S2:1808:U:H2'	79:S2:1809:A:C8	2.49	0.47
82:Et:11:C:H2'	82:Et:12:U:H6	1.79	0.47
1:cH:53:SER:OG	1:cH:119:GLN:HG2	2.15	0.47
2:sE:26:VAL:HG22	7:sJ:4:ALA:HB2	1.96	0.47
4:sL:97:ARG:NH2	79:s2:420:G:O3'	2.47	0.47
4:sL:103:GLU:OE2	5:sX:11:ARG:NH2	2.42	0.47
6:sG:74:ARG:NH1	6:sG:96:SER:OG	2.48	0.47
6:sG:164:LYS:H	6:sG:167:LYS:HZ2	1.62	0.47
8:sY:15:ASN:ND2	8:sY:22:GLN:OE1	2.48	0.47
10:sA:124:VAL:HG11	10:sA:134:LEU:HD21	1.97	0.47
12:sH:26:ALA:O	12:sH:29:GLU:HG3	2.14	0.47
14:sa:49:ALA:HB1	17:sO:117:ARG:CD	2.45	0.47
15:sC:264:SER:HB3	15:sC:267:GLN:CD	2.40	0.47
15:sC:268:GLU:CG	15:sC:269:PHE:CE2	2.85	0.47
18:sW:2:VAL:CG2	18:sW:3:ARG:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:lA:177:LYS:HB2	61:lp:29:ILE:HG21	1.97	0.47
24:lC:31:PRO:HD2	24:lC:280:PRO:HG2	1.97	0.47
24:lC:209:ILE:HG22	24:lC:229:LEU:CD1	2.45	0.47
26:lE:46:ARG:O	26:lE:62:MET:HE1	2.13	0.47
28:lG:98:LEU:HD21	28:lG:215:LEU:HD23	1.95	0.47
28:lG:214:ALA:O	28:lG:218:LEU:HG	2.14	0.47
29:lH:52:LYS:HD3	29:lH:52:LYS:N	2.29	0.47
29:lH:71:ARG:HB2	29:lH:71:ARG:NH1	2.29	0.47
30:lI:212:LEU:HD12	30:lI:213:HIS:ND1	2.30	0.47
31:lJ:22:LEU:HB2	31:lJ:72:CYS:SG	2.54	0.47
34:lN:154:PRO:HB2	85:l5:57:G:H5"	1.97	0.47
37:lQ:186:TYR:CG	85:l5:4307:A:H4'	2.50	0.47
39:lS:159:LEU:O	39:lS:162:GLN:NE2	2.40	0.47
42:lV:46:LYS:NZ	85:l5:4510:A:OP1	2.47	0.47
45:lZ:68:ILE:HD11	45:lZ:118:PHE:CB	2.44	0.47
53:lh:21:LEU:O	53:lh:25:LYS:HG3	2.14	0.47
60:lo:22:LYS:HE3	60:lo:22:LYS:HB2	1.72	0.47
61:lp:59:SER:OG	61:lp:60:CYS:N	2.46	0.47
64:sR:11:LYS:HA	79:s2:1373:C:O4'	2.15	0.47
66:sF:185:SER:H	66:sF:190:ILE:HD11	1.80	0.47
72:sU:87:ARG:HH22	79:s2:1447:G:P	2.37	0.47
76:sM:51:VAL:HG12	76:sM:77:ILE:HB	1.96	0.47
79:s2:224:A:H2'	79:s2:225:G:C8	2.50	0.47
79:s2:432:G:H2'	79:s2:433:A:H8	1.79	0.47
79:s2:806:U:H2'	79:s2:807:G:C8	2.50	0.47
79:s2:882:U:H1'	79:s2:905:C:C2	2.49	0.47
79:s2:1401:A:H2'	79:s2:1402:A:H8	1.75	0.47
79:s2:1609:C:H42	79:s2:1630:A:H61	1.62	0.47
79:s2:1759:G:O2'	79:s2:1760:G:O4'	2.31	0.47
80:cB:7:ASP:CG	80:cB:462:GLU:OE2	2.57	0.47
80:cB:85:ASP:HA	80:cB:88:PHE:HB2	1.96	0.47
80:cB:564:ASP:OD1	80:cB:564:ASP:C	2.58	0.47
81:aP:22:U:H2'	81:aP:23:C:C6	2.50	0.47
83:ls:65:ILE:O	83:ls:69:LEU:HB2	2.15	0.47
85:l5:129:C:H2'	85:l5:130:C:C6	2.50	0.47
85:l5:259:C:H2'	85:l5:260:C:C6	2.49	0.47
85:l5:481:G:H2'	85:l5:482:G:C8	2.49	0.47
85:l5:663:G:C6	85:l5:664:G:C6	3.02	0.47
85:l5:1993:C:H2'	85:l5:1994:C:C6	2.50	0.47
85:l5:2375:A:H2'	85:l5:2376:A:C8	2.50	0.47
85:l5:2505:C:N4	85:l5:4085:A:OP2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4153:C:H2’	85:l5:4154:G:H8	1.80	0.47
85:l5:4688:C:H2’	85:l5:4689:U:C6	2.50	0.47
85:l5:5054:C:H4’	85:l5:5055:G:H8	1.80	0.47
2:SE:36:HIS:NE2	2:SE:143:ASP:OD1	2.48	0.47
3:SI:11:ARG:O	4:SL:136:LYS:NZ	2.47	0.47
4:SL:57:ASP:OD1	4:SL:59:LYS:N	2.48	0.47
5:SX:52:LEU:HD11	5:SX:80:LYS:HD2	1.96	0.47
6:SG:76:LEU:HA	6:SG:94:ARG:HA	1.97	0.47
6:SG:181:THR:HB	6:SG:184:VAL:HG23	1.97	0.47
6:SG:185:LEU:HG	6:SG:189:ARG:HH12	1.80	0.47
7:SJ:60:LEU:O	7:SJ:70:ARG:NH1	2.48	0.47
7:SJ:77:LEU:O	7:SJ:81:LEU:HG	2.14	0.47
11:SB:83:LYS:HD3	11:SB:106:THR:HG22	1.96	0.47
11:SB:164:ILE:O	11:SB:168:MET:HG3	2.14	0.47
12:SH:154:ILE:HD11	12:SH:183:LYS:HD2	1.96	0.47
15:SC:103:LYS:HG3	15:SC:133:TYR:HE1	1.79	0.47
16:SN:33:VAL:O	16:SN:37:ILE:HG13	2.13	0.47
17:SO:57:THR:CB	17:SO:60:MET:HE3	2.44	0.47
18:SW:25:VAL:HG12	18:SW:63:VAL:HG12	1.95	0.47
85:L5:112:C:C2	85:L5:113:A:C8	3.02	0.47
85:L5:146:G:H2’	85:L5:147:A:C8	2.48	0.47
85:L5:229:G:H2’	85:L5:230:G:C8	2.49	0.47
85:L5:457:G:H2’	85:L5:458:C:H6	1.78	0.47
85:L5:494:U:H2’	85:L5:495:C:C6	2.50	0.47
85:L5:681:G:C2	85:L5:682:G:C8	3.03	0.47
85:L5:1095:A:H2’	85:L5:1096:C:H6	1.78	0.47
85:L5:1297:U:H2’	85:L5:1298:C:C6	2.49	0.47
85:L5:1315:C:H2’	85:L5:1316:G:H8	1.78	0.47
85:L5:1460:C:H2’	85:L5:1461:C:C6	2.48	0.47
85:L5:1664:U:H2’	85:L5:1665:C:C6	2.50	0.47
85:L5:1724:G:OP1	27:LF:107:LYS:NZ	2.47	0.47
85:L5:1778:C:H2’	85:L5:1779:U:H6	1.80	0.47
85:L5:1933:G:H8	85:L5:1933:G:O5’	1.98	0.47
85:L5:1973:G:H2’	85:L5:1974:U:C5	2.50	0.47
85:L5:2045:G:O2’	85:L5:2046:G:H5”	2.14	0.47
85:L5:2518:G:H1’	85:L5:2539:C:H1’	1.96	0.47
85:L5:2615:C:H2’	85:L5:2616:C:H6	1.80	0.47
85:L5:2756:G:H2’	85:L5:2757:A:H8	1.79	0.47
85:L5:2780:C:OP1	43:LX:134:LYS:NZ	2.43	0.47
85:L5:2810:U:H2’	85:L5:2811:G:O4’	2.15	0.47
85:L5:3765:G:O2’	85:L5:3767:C:N4	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3920:U:H2'	85:L5:3921:U:C6	2.49	0.47
85:L5:4104:G:H3'	85:L5:4105:A:H8	1.80	0.47
85:L5:4321:U:H2'	85:L5:4322:G:C8	2.50	0.47
85:L5:4523:A:H5"	85:L5:4524:G:H5'	1.97	0.47
85:L5:4524:G:N3	23:LB:252:ALA:HB1	2.30	0.47
85:L5:4524:G:C2	23:LB:252:ALA:HB1	2.50	0.47
85:L5:4710:C:H2'	85:L5:4711:C:C6	2.50	0.47
85:L5:4896:G:O2'	85:L5:4897:G:O5'	2.30	0.47
85:L5:4965:U:H4'	85:L5:4966:A:H5'	1.97	0.47
21:L8:2:G:C5	21:L8:3:A:C8	3.02	0.47
21:L8:7:U:H2'	21:L8:8:U:H6	1.80	0.47
21:L8:64:U:C2	21:L8:65:A:C8	3.03	0.47
21:L8:123:U:N3	21:L8:125:C:H5"	2.29	0.47
24:LC:152:LEU:HD21	24:LC:174:LEU:HD13	1.96	0.47
25:LD:125:VAL:HG11	25:LD:199:ILE:HG21	1.97	0.47
25:LD:190:PHE:HD2	25:LD:192:ALA:N	2.11	0.47
28:LG:131:LYS:O	28:LG:132:ARG:C	2.57	0.47
29:LH:15:ASN:OD1	29:LH:15:ASN:N	2.47	0.47
34:LN:61:ILE:HD12	34:LN:61:ILE:N	2.30	0.47
37:LQ:88:ASP:OD1	37:LQ:89:ASP:N	2.48	0.47
38:LR:114:LYS:HE2	38:LR:114:LYS:HB3	1.77	0.47
39:LS:90:THR:HG23	40:LT:156:TYR:CD2	2.50	0.47
41:LU:86:LEU:HD22	41:LU:86:LEU:H	1.79	0.47
44:LY:29:ILE:HG21	44:LY:78:TYR:HE1	1.78	0.47
45:LZ:54:THR:H	45:LZ:57:MET:HE1	1.78	0.47
45:LZ:93:LYS:N	45:LZ:93:LYS:HD3	2.29	0.47
48:Lc:20:LEU:O	48:Lc:24:SER:OG	2.28	0.47
50:Le:90:MET:HG3	62:Lr:33:LYS:HA	1.97	0.47
54:Li:11:LEU:H	54:Li:11:LEU:HD22	1.79	0.47
54:Li:81:ILE:H	54:Li:81:ILE:HD12	1.79	0.47
58:Lm:94:MET:HG2	58:Lm:105:PRO:HA	1.96	0.47
59:Ln:2:ARG:NE	79:S2:1842:C:OP2	2.43	0.47
62:Lr:93:ILE:O	62:Lr:97:ILE:HD12	2.13	0.47
64:SR:106:LEU:HB3	64:SR:112:GLY:CA	2.43	0.47
66:SF:74:ASN:ND2	79:S2:1675:A:O3'	2.47	0.47
67:SK:25:LYS:HZ1	67:SK:66:HIS:H	1.62	0.47
67:SK:35:LEU:HD22	67:SK:38:LYS:HE2	1.97	0.47
67:SK:52:LEU:HD23	67:SK:57:TYR:HB2	1.97	0.47
67:SK:68:TYR:O	67:SK:70:TYR:CE1	2.68	0.47
68:SP:40:ARG:NH2	79:S2:1617:G:O6	2.47	0.47
70:SS:2:SER:OG	77:SZ:49:LEU:HG	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:SS:43:VAL:HG11	70:SS:83:PHE:CE2	2.49	0.47
70:SS:123:LEU:O	70:SS:127:TRP:CD1	2.68	0.47
70:SS:132:ARG:HD3	79:S2:1623:A:C6	2.49	0.47
71:ST:101:ARG:O	71:ST:105:GLN:HG2	2.14	0.47
72:SU:67:LYS:O	72:SU:67:LYS:HG3	2.14	0.47
74:Sd:3:HIS:ND1	74:Sd:5:GLN:OE1	2.47	0.47
74:Sd:14:PHE:HB2	79:S2:1661:A:C8	2.50	0.47
75:Sg:67:SER:OG	75:Sg:81:GLY:O	2.32	0.47
77:SZ:41:ARG:NH1	77:SZ:44:LEU:HD22	2.23	0.47
79:S2:176:U:H2'	79:S2:177:G:C8	2.50	0.47
79:S2:327:G:H5"	79:S2:328:U:C2	2.48	0.47
79:S2:693:A:C6	79:S2:739:C:H4'	2.50	0.47
79:S2:1090:C:H2'	79:S2:1091:C:H6	1.80	0.47
79:S2:1407:U:H2'	79:S2:1408:U:H6	1.77	0.47
79:S2:1431:G:H2'	79:S2:1432:U:C6	2.50	0.47
79:S2:1678:A:H2'	79:S2:1679:A:C2	2.50	0.47
79:S2:1688:C:H2'	79:S2:1689:C:H6	1.79	0.47
79:S2:1802:C:H2'	79:S2:1803:U:H6	1.80	0.47
83:Ls:192:VAL:HG12	83:Ls:194:ASP:OD1	2.14	0.47
1:cH:122:GLY:HA2	1:cH:125:GLU:HB3	1.97	0.47
7:sJ:30:LYS:O	7:sJ:34:GLU:HG2	2.15	0.47
8:sY:43:LYS:HE2	8:sY:43:LYS:HB3	1.70	0.47
10:sA:17:LYS:HE3	10:sA:176:TRP:HZ3	1.79	0.47
11:sB:33:VAL:HG23	11:sB:44:ILE:HB	1.96	0.47
11:sB:97:LEU:HD12	11:sB:232:HIS:CG	2.48	0.47
12:sH:148:LEU:HA	18:sW:42:MET:HE3	1.96	0.47
16:sN:5:HIS:CE1	16:sN:121:ARG:HG3	2.49	0.47
24:lC:284:MET:HE2	24:lC:287:THR:HA	1.97	0.47
24:lC:352:ASP:O	24:lC:356:ALA:N	2.39	0.47
27:lF:88:LYS:HG3	27:lF:197:VAL:CG2	2.45	0.47
31:lJ:33:LEU:O	31:lJ:37:ALA:N	2.47	0.47
34:lN:184:ILE:HG12	34:lN:184:ILE:O	2.15	0.47
37:lQ:66:MET:CE	37:lQ:86:ILE:HD12	2.42	0.47
42:lV:34:ALA:HB2	42:lV:72:LEU:HD23	1.97	0.47
53:lh:88:THR:HB	53:lh:91:MET:CG	2.44	0.47
64:sR:35:CYS:HA	64:sR:38:ILE:HD11	1.97	0.47
73:sc:17:VAL:CG2	73:sc:50:VAL:HG11	2.45	0.47
75:sg:44:LYS:HG2	75:sg:54:ILE:HG13	1.96	0.47
79:s2:531:A:O2'	79:s2:532:C:OP1	2.32	0.47
79:s2:634:A:H2'	79:s2:635:G:H8	1.80	0.47
79:s2:909:G:H2'	79:s2:910:G:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1004:U:H2'	79:s2:1005:G:C8	2.49	0.47
79:s2:1013:U:OP1	79:s2:1129:G:O2'	2.32	0.47
79:s2:1438:A:H2'	79:s2:1439:A:H8	1.80	0.47
80:cB:462:GLU:CD	80:cB:462:GLU:N	2.66	0.47
80:cB:628:LEU:HD21	80:cB:647:ARG:HA	1.97	0.47
85:l5:307:A:N3	85:l5:310:G:O2'	2.47	0.47
85:l5:2634:C:C2	85:l5:2635:U:C5	3.03	0.47
85:l5:3599:A:H2'	85:l5:3600:G:H8	1.79	0.47
2:SE:58:GLY:H	79:S2:495:U:P	2.37	0.47
8:SY:56:PHE:O	8:SY:74:MET:N	2.46	0.47
8:SY:74:MET:HE3	8:SY:75:ILE:O	2.15	0.47
10:SA:175:TRP:CE3	10:SA:175:TRP:HA	2.49	0.47
12:SH:33:ASN:ND2	12:SH:37:LYS:HG2	2.29	0.47
85:L5:159:C:O2	32:LL:88:LYS:NZ	2.44	0.47
85:L5:426:A:H2'	85:L5:427:A:H8	1.79	0.47
85:L5:458:C:H2'	85:L5:459:C:C6	2.49	0.47
85:L5:733:A:N6	85:L5:933:G:O6	2.41	0.47
85:L5:986:C:H2'	85:L5:987:C:C6	2.49	0.47
85:L5:1596:U:O3'	36:LP:132:ALA:HB2	2.15	0.47
85:L5:1932:A:H2'	85:L5:1933:G:C8	2.49	0.47
85:L5:2036:C:H2'	85:L5:2037:C:H6	1.79	0.47
85:L5:2303:C:OP1	50:Le:107:ASN:ND2	2.41	0.47
85:L5:3756:A:HO2'	89:Pt:11:U:HO2'	1.61	0.47
85:L5:3774:A:H2'	85:L5:3775:A:N3	2.30	0.47
85:L5:4162:C:C6	28:LG:244:PRO:HD3	2.50	0.47
85:L5:4192:A:H2'	85:L5:4193:C:C6	2.50	0.47
85:L5:4390:A:H2'	85:L5:4391:G:O4'	2.14	0.47
85:L5:4563:U:C2	85:L5:4564:A:C8	3.03	0.47
85:L5:4897:G:H2'	85:L5:4898:G:C8	2.50	0.47
23:LB:117:ARG:HA	23:LB:177:LYS:HD2	1.96	0.47
26:LE:113:PRO:HB2	26:LE:116:TYR:CE1	2.43	0.47
27:LF:172:ASN:OD1	27:LF:187:MET:N	2.47	0.47
33:LM:6:PHE:HB2	39:LS:151:LYS:NZ	2.30	0.47
33:LM:122:ILE:HG21	35:LO:189:ILE:HD11	1.97	0.47
62:Lr:30:ASN:O	62:Lr:42:GLY:HA3	2.15	0.47
64:SR:129:LYS:HB2	64:SR:129:LYS:HE2	1.68	0.47
69:SQ:8:GLN:HE22	69:SQ:99:TYR:HB3	1.79	0.47
69:SQ:16:LYS:NZ	79:S2:1648:G:O6	2.48	0.47
69:SQ:42:ILE:HG13	69:SQ:43:GLU:N	2.29	0.47
69:SQ:72:VAL:HG22	69:SQ:80:GLN:NE2	2.29	0.47
72:SU:27:ARG:HD2	72:SU:82:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:142:C:H41	79:S2:330:G:P	2.38	0.47
79:S2:534:G:H2'	79:S2:535:G:C8	2.50	0.47
79:S2:1329:U:O4	79:S2:1493:C:O2'	2.22	0.47
1:cH:95:LEU:O	1:cH:99:ILE:HG12	2.14	0.47
6:sG:87:ARG:HH22	79:s2:162:C:H5"	1.80	0.47
6:sG:92:ARG:NH1	79:s2:1738:C:OP1	2.42	0.47
6:sG:105:ASN:O	6:sG:106:LEU:HD23	2.15	0.47
10:sA:201:LEU:HD23	10:sA:201:LEU:C	2.38	0.47
13:sV:15:ARG:HH21	15:sC:84:PHE:C	2.23	0.47
13:sV:59:ILE:HG23	13:sV:64:GLU:HB2	1.97	0.47
15:sC:195:LEU:HD23	15:sC:195:LEU:H	1.80	0.47
20:l7:92:C:H2'	20:l7:93:G:C8	2.49	0.47
24:lC:33:ARG:NH2	85:l5:1350:C:O3'	2.48	0.47
26:lE:100:LYS:NZ	85:l5:684:G:H5'	2.30	0.47
27:lF:25:PHE:HZ	85:l5:2093:A:H62	1.62	0.47
27:lF:43:ARG:NH2	85:l5:1704:C:OP1	2.45	0.47
27:lF:86:GLU:HG2	40:lT:135:PRO:HB3	1.97	0.47
28:lG:51:LEU:O	28:lG:55:VAL:HG23	2.15	0.47
34:lN:145:ASN:O	34:lN:148:THR:OG1	2.30	0.47
45:lZ:71:PHE:HA	45:lZ:111:ARG:HD2	1.95	0.47
51:lf:75:THR:HG23	85:l5:952:G:H4'	1.96	0.47
63:lz:145:VAL:HG23	63:lz:146:ALA:H	1.80	0.47
64:sR:29:HIS:CD2	79:s2:1453:C:H42	2.33	0.47
65:sD:194:PRO:HB2	65:sD:197:LYS:CG	2.45	0.47
67:sK:62:PHE:CD1	79:s2:1497:G:C4	3.02	0.47
70:sS:9:PHE:HE1	70:sS:11:HIS:CE1	2.32	0.47
73:sc:31:ARG:NH2	73:sc:43:ILE:HD13	2.30	0.47
75:sg:40:ILE:HD12	75:sg:59:LEU:HD23	1.97	0.47
75:sg:261:LEU:H	75:sg:261:LEU:HD12	1.80	0.47
79:s2:674:C:H2'	79:s2:675:U:C6	2.50	0.47
79:s2:853:C:C2	79:s2:854:A:C8	3.03	0.47
79:s2:991:G:C6	79:s2:1134:G:H4'	2.50	0.47
79:s2:1756:C:OP2	79:s2:1757:G:N2	2.29	0.47
80:cB:159:LYS:H	80:cB:216:SER:HA	1.80	0.47
80:cB:254:GLU:HA	80:cB:257:MET:HB3	1.97	0.47
80:cB:743:PRO:O	80:cB:790:VAL:HG23	2.15	0.47
83:ls:72:ASN:OD1	83:ls:72:ASN:C	2.58	0.47
83:ls:106:LYS:NZ	83:ls:107:VAL:O	2.39	0.47
84:lt:108:GLU:HG2	84:lt:109:ILE:N	2.30	0.47
85:l5:1293:G:OP2	85:l5:1293:G:N2	2.37	0.47
85:l5:2611:A:H2'	85:l5:2612:G:H8	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4967:A:H2'	85:l5:4968:A:H8	1.79	0.47
85:l5:5055:G:H2'	85:l5:5056:A:C8	2.50	0.47
2:SE:176:ASP:OD1	2:SE:177:THR:N	2.48	0.47
3:SI:83:TYR:HB3	3:SI:101:ILE:HB	1.96	0.47
6:SG:222:GLU:O	6:SG:226:GLU:N	2.43	0.47
10:SA:195:TRP:HD1	10:SA:197:VAL:N	2.12	0.47
85:L5:418:A:H4'	85:L5:2311:C:H5'	1.97	0.47
85:L5:426:A:H2'	85:L5:427:A:C8	2.50	0.47
85:L5:752:G:C5	85:L5:753:C:C2	3.03	0.47
85:L5:759:G:N1	85:L5:905:C:N3	2.63	0.47
85:L5:965:G:N2	85:L5:2092:G:H1'	2.29	0.47
85:L5:1081:C:O2'	85:L5:1082:C:H5'	2.15	0.47
85:L5:1236:C:H2'	85:L5:1237:C:C6	2.50	0.47
85:L5:1238:A:C8	26:LE:59:ARG:HD2	2.50	0.47
85:L5:1351:G:H2'	85:L5:1352:C:C6	2.50	0.47
85:L5:1554:A:H4'	61:Lp:10:ILE:HG13	1.97	0.47
85:L5:1567:U:H2'	85:L5:1568:C:C6	2.49	0.47
85:L5:2610:G:H2'	85:L5:2611:A:H8	1.78	0.47
85:L5:2817:C:H2'	85:L5:2818:C:H6	1.80	0.47
85:L5:4431:U:H2'	85:L5:4432:C:C6	2.50	0.47
85:L5:4691:A:H2'	85:L5:4692:A:O4'	2.15	0.47
85:L5:4877:G:H2'	85:L5:4878:C:H6	1.79	0.47
20:L7:63:C:N4	30:LI:209:TRP:HD1	2.13	0.47
24:LC:317:ASN:HD22	24:LC:320:LYS:HD3	1.80	0.47
27:LF:216:PRO:N	27:LF:247:MET:CE	2.72	0.47
30:LI:65:LEU:HD22	30:LI:65:LEU:H	1.79	0.47
32:LL:165:LYS:HE2	32:LL:165:LYS:HB3	1.66	0.47
41:LU:78:PHE:CD2	41:LU:78:PHE:C	2.92	0.47
65:SD:55:THR:O	65:SD:59:LEU:HD23	2.14	0.47
67:SK:28:HIS:NE2	74:Sd:8:TRP:CZ2	2.83	0.47
73:Sc:20:ARG:HD3	73:Sc:28:THR:HG22	1.97	0.47
73:Sc:27:CYS:HB3	73:Sc:45:ASN:OD1	2.14	0.47
77:SZ:57:LYS:NZ	77:SZ:77:LEU:HD12	2.29	0.47
78:Sf:87:THR:H	79:S2:1507:G:H22	1.62	0.47
79:S2:1328:G:H2'	79:S2:1329:U:C6	2.50	0.47
79:S2:1349:G:H2'	79:S2:1350:U:C6	2.49	0.47
79:S2:1372:U:OP1	79:S2:1385:G:N2	2.30	0.47
79:S2:1379:A:H2'	79:S2:1380:C:C6	2.50	0.47
79:S2:1407:U:H1'	79:S2:1442:U:O4	2.15	0.47
79:S2:1827:U:H2'	79:S2:1828:C:H6	1.79	0.47
88:CF:164:GLN:O	88:CF:168:GLU:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Ls:143:ILE:HD11	83:Ls:158:VAL:CG1	2.40	0.47
3:sI:67:TRP:CH2	3:sI:162:LEU:CD2	2.97	0.47
3:sI:146:GLN:O	3:sI:149:TYR:N	2.48	0.47
7:sJ:137:VAL:HG22	7:sJ:138:ARG:H	1.79	0.47
9:se:31:ARG:CZ	9:se:31:ARG:HB3	2.45	0.47
10:sA:208:GLU:HG2	10:sA:212:LYS:NZ	2.29	0.47
13:sV:30:ALA:HB1	13:sV:60:ARG:NH2	2.29	0.47
15:sC:263:LYS:NZ	15:sC:267:GLN:HG3	2.30	0.47
18:sW:87:GLU:HA	18:sW:90:GLN:HG2	1.97	0.47
18:sW:115:GLU:O	18:sW:119:LYS:HG2	2.14	0.47
22:lA:132:ASN:ND2	85:l5:3682:A:H5"	2.30	0.47
23:lB:92:TYR:HB3	23:lB:99:LEU:HD12	1.97	0.47
26:lE:153:LEU:HD11	26:lE:195:ILE:HG13	1.97	0.47
31:lJ:32:ARG:O	31:lJ:36:ALA:N	2.40	0.47
36:lP:10:ASN:OD1	36:lP:10:ASN:N	2.47	0.47
37:lQ:144:LYS:HB2	85:l5:1460:C:H5"	1.97	0.47
40:lT:54:HIS:ND1	40:lT:56:CYS:SG	2.70	0.47
46:la:21:ARG:HD2	85:l5:1318:C:OP1	2.15	0.47
53:lh:89:ARG:O	53:lh:93:ARG:HG2	2.15	0.47
65:sD:105:LEU:HG	65:sD:184:ILE:HD13	1.97	0.47
75:sg:172:LYS:HG2	75:sg:193:GLY:C	2.40	0.47
79:s2:24:C:HO2'	79:s2:25:A:H8	1.60	0.47
79:s2:945:U:H2'	79:s2:946:U:C6	2.50	0.47
80:cB:745:TYR:CE1	80:cB:790:VAL:HG22	2.49	0.47
85:l5:152:U:H2'	85:l5:153:G:H8	1.80	0.47
85:l5:500:G:H1'	85:l5:504:G:H3'	1.97	0.47
85:l5:1172:C:H1'	85:l5:1189:G:H22	1.79	0.47
85:l5:2293:U:H2'	85:l5:2294:G:C8	2.50	0.47
85:l5:3956:G:N2	85:l5:3963:A:O2'	2.46	0.47
2:SE:179:ASN:HD22	2:SE:231:GLY:HA2	1.79	0.47
5:SX:100:VAL:HG12	5:SX:125:VAL:HA	1.96	0.47
6:SG:138:ALA:N	6:SG:177:GLN:O	2.43	0.47
10:SA:89:LYS:HB2	10:SA:202:TYR:CE1	2.50	0.47
10:SA:173:LEU:O	10:SA:177:MET:HG3	2.15	0.47
11:SB:30:TRP:CZ2	17:SO:18:GLY:N	2.83	0.47
15:SC:116:THR:HG23	15:SC:118:ALA:H	1.80	0.47
18:SW:9:ASP:O	18:SW:13:SER:OG	2.27	0.47
85:L5:97:G:OP1	32:LL:16:LYS:NZ	2.39	0.47
85:L5:163:A:H2'	85:L5:164:G:H8	1.80	0.47
85:L5:1217:G:H2'	85:L5:1218:G:C8	2.50	0.47
85:L5:1812:C:H2'	85:L5:1813:U:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1846:G:H2'	85:L5:1847:C:H6	1.80	0.47
85:L5:2264:C:H2'	85:L5:2265:G:O4'	2.15	0.47
85:L5:2762:G:H2'	85:L5:2764:A:H5"	1.96	0.47
85:L5:3788:C:N4	85:L5:3812:C:O4'	2.47	0.47
85:L5:4509:U:H4'	42:LV:46:LYS:HD2	1.97	0.47
22:LA:225:ILE:HG12	22:LA:234:LYS:HA	1.96	0.47
23:LB:170:LEU:HB3	23:LB:328:ASN:HD21	1.80	0.47
25:LD:128:ASP:OD1	25:LD:128:ASP:C	2.58	0.47
28:LG:78:PRO:HA	28:LG:81:ASN:HB3	1.95	0.47
28:LG:173:LEU:HD13	54:Li:43:MET:HE3	1.95	0.47
37:LQ:53:MET:O	37:LQ:58:ARG:NE	2.41	0.47
38:LR:44:LEU:HD22	38:LR:49:LEU:HD12	1.96	0.47
56:Lk:5:ILE:HG21	56:Lk:11:PHE:HB2	1.97	0.47
59:Ln:11:ARG:NH1	79:S2:1183:A:H5'	2.30	0.47
70:SS:14:ARG:HD2	70:SS:14:ARG:HA	1.77	0.47
74:Sd:48:LYS:HD2	74:Sd:49:ASP:N	2.30	0.47
75:Sg:188:HIS:CD2	75:Sg:219:TRP:CG	3.03	0.47
77:SZ:56:ASP:OD1	77:SZ:60:LYS:NZ	2.40	0.47
79:S2:443:U:H2'	79:S2:444:G:O4'	2.15	0.47
79:S2:964:A:H2'	79:S2:965:U:H6	1.80	0.47
79:S2:1229:G:H2'	79:S2:1230:C:C6	2.50	0.47
79:S2:1673:U:H2'	79:S2:1674:G:O4'	2.15	0.47
79:S2:1739:C:H2'	79:S2:1740:C:H6	1.78	0.47
87:AT:18:G:H4'	87:AT:61:A:N1	2.29	0.47
87:AT:65:G:H2'	87:AT:66:G:C8	2.50	0.47
1:cH:66:GLU:OE2	65:sD:94:ARG:NH2	2.48	0.46
2:sE:38:LEU:HD23	2:sE:39:ARG:HD2	1.97	0.46
3:sI:124:LYS:HE2	3:sI:124:LYS:HB2	1.76	0.46
5:sX:87:ASN:ND2	5:sX:134:TYR:CE1	2.72	0.46
6:sG:155:GLN:NE2	79:s2:77:A:OP2	2.45	0.46
10:sA:201:LEU:CD2	10:sA:202:TYR:CD1	2.98	0.46
10:sA:206:ASP:OD2	10:sA:208:GLU:HB3	2.15	0.46
11:sB:85:LYS:HB2	11:sB:101:HIS:HB3	1.97	0.46
12:sH:145:ARG:NH1	18:sW:51:GLU:HA	2.31	0.46
13:sV:24:ILE:HD13	13:sV:31:SER:HB2	1.96	0.46
16:sN:48:SER:OG	79:s2:925:G:N2	2.48	0.46
21:l8:141:C:H2'	21:l8:142:U:C6	2.50	0.46
21:l8:154:G:H2'	21:l8:155:C:C6	2.50	0.46
23:lB:36:ASP:N	23:lB:36:ASP:OD1	2.48	0.46
25:lD:94:ASN:OD1	25:lD:96:ALA:N	2.47	0.46
25:lD:113:PHE:CE2	85:l5:1819:G:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:lD:196:ARG:HA	25:lD:199:ILE:HB	1.96	0.46
32:lL:119:GLU:OE1	32:lL:155:MET:HE1	2.15	0.46
34:lN:41:ARG:NH1	34:lN:41:ARG:HB2	2.29	0.46
38:lR:175:GLU:O	38:lR:178:GLN:HG3	2.15	0.46
38:lR:177:LEU:HG	38:lR:181:LYS:NZ	2.30	0.46
53:lh:82:ASP:C	53:lh:82:ASP:OD2	2.58	0.46
63:lz:110:PHE:HD2	63:lz:135:PRO:HB3	1.80	0.46
64:sR:95:ILE:HD12	64:sR:95:ILE:N	2.29	0.46
65:sD:163:PRO:HD3	79:s2:1388:A:N1	2.30	0.46
65:sD:190:LEU:HB2	65:sD:200:PRO:HD3	1.96	0.46
75:sg:297:THR:HA	75:sg:311:GLN:HA	1.97	0.46
76:sM:128:PHE:HB3	76:sM:132:LYS:NZ	2.30	0.46
79:s2:113:G:N1	79:s2:292:A:N7	2.64	0.46
79:s2:511:U:H2'	79:s2:512:A:H8	1.79	0.46
79:s2:751:G:H1'	79:s2:793:G:H21	1.80	0.46
79:s2:884:C:H2'	79:s2:885:U:O4'	2.15	0.46
79:s2:959:G:H1'	79:s2:964:A:N6	2.30	0.46
79:s2:1556:A:O2'	79:s2:1557:C:O4'	2.32	0.46
80:cB:27:HIS:HD2	80:cB:138:GLN:HB2	1.80	0.46
80:cB:717:GLY:N	80:cB:720:GLN:OE1	2.42	0.46
83:ls:57:LYS:O	83:ls:60:MET:HB2	2.15	0.46
83:ls:111:ALA:HA	83:ls:183:PHE:HE1	1.80	0.46
85:l5:288:G:H2'	85:l5:289:C:H6	1.78	0.46
85:l5:1490:G:H2'	85:l5:1491:A:H8	1.80	0.46
85:l5:2008:U:N3	85:l5:2011:C:OP2	2.31	0.46
85:l5:2375:A:H2'	85:l5:2376:A:H8	1.80	0.46
86:LW:49:ILE:HD13	85:L5:3615:G:C8	2.51	0.46
86:LW:56:ARG:HH11	86:LW:56:ARG:HG3	1.80	0.46
6:SG:57:ASP:OD1	6:SG:58:LYS:N	2.48	0.46
8:SY:44:LEU:HD12	8:SY:45:ALA:N	2.30	0.46
12:SH:64:VAL:O	12:SH:96:ALA:HA	2.14	0.46
12:SH:118:ARG:NH2	79:S2:687:C:N3	2.63	0.46
13:SV:67:ASP:C	13:SV:67:ASP:OD2	2.58	0.46
14:Sa:29:CYS:SG	17:SO:146:ARG:HG3	2.56	0.46
16:SN:112:LYS:O	16:SN:116:ILE:HG13	2.14	0.46
85:L5:1388:A:H2'	85:L5:1389:U:C6	2.49	0.46
85:L5:1918:U:O4'	85:L5:2065:G:N2	2.47	0.46
85:L5:2898:G:H2'	85:L5:2899:C:C6	2.50	0.46
85:L5:4642:U:H2'	85:L5:4643:G:C8	2.48	0.46
85:L5:4891:G:H3'	85:L5:4892:A:H2	1.79	0.46
25:LD:208:MET:SD	25:LD:223:PHE:CE1	3.08	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LE:91:THR:HA	26:LE:108:LYS:HA	1.97	0.46
26:LE:152:ILE:O	26:LE:159:GLY:N	2.34	0.46
27:LF:216:PRO:CB	27:LF:247:MET:SD	3.03	0.46
28:LG:80:ILE:HD11	34:LN:18:VAL:HG23	1.96	0.46
37:LQ:124:ASP:OD1	37:LQ:125:GLN:HG3	2.14	0.46
38:LR:173:ARG:HB3	79:S2:910:G:H5"	1.97	0.46
39:LS:129:VAL:C	39:LS:130:GLU:OE2	2.57	0.46
41:LU:19:LEU:H	41:LU:19:LEU:HD23	1.80	0.46
55:Lj:67:LEU:HD12	55:Lj:67:LEU:HA	1.81	0.46
56:Lk:7:GLU:OE2	56:Lk:10:ASP:HB2	2.15	0.46
56:Lk:60:LEU:HD12	56:Lk:61:PRO:N	2.30	0.46
69:SQ:132:PHE:HB2	72:SU:77:TRP:CD1	2.49	0.46
71:ST:134:ILE:HA	71:ST:137:GLN:HB2	1.97	0.46
79:S2:512:A:H2'	79:S2:513:G:H8	1.80	0.46
79:S2:532:C:H2'	79:S2:533:A:C8	2.48	0.46
79:S2:928:G:H2'	79:S2:929:G:H8	1.78	0.46
88:CF:49:MET:SD	88:CF:51:LYS:HB2	2.55	0.46
88:CF:408:LYS:HG3	88:CF:409:PRO:HD2	1.96	0.46
84:Lt:106:PHE:HA	84:Lt:109:ILE:HD13	1.96	0.46
4:sL:82:MET:HE1	79:s2:372:U:H2'	1.97	0.46
7:sJ:37:LEU:HB3	7:sJ:42:GLU:OE2	2.15	0.46
11:sB:146:ARG:HD2	64:sR:135:VAL:HG22	1.98	0.46
13:sV:62:MET:HE2	13:sV:64:GLU:HG2	1.96	0.46
15:sC:128:VAL:HG22	15:sC:154:ALA:HB1	1.98	0.46
19:sb:22:LYS:HG2	79:s2:921:G:C4	2.50	0.46
21:l8:65:A:C4	21:l8:66:A:C8	3.03	0.46
23:lB:29:VAL:HG13	23:lB:348:ARG:HD3	1.96	0.46
23:lB:92:TYR:CE1	23:lB:101:THR:HG22	2.50	0.46
24:lC:327:LYS:NZ	85:l5:974:C:O2	2.43	0.46
25:lD:64:ILE:HG13	25:lD:105:LEU:HD21	1.97	0.46
25:lD:118:ILE:HD12	25:lD:119:TYR:H	1.79	0.46
26:lE:131:LYS:O	26:lE:136:HIS:NE2	2.45	0.46
26:lE:157:HIS:HB3	26:lE:160:LYS:HG3	1.97	0.46
27:lF:91:PHE:HD1	27:lF:244:ILE:HD11	1.80	0.46
35:lO:166:ILE:N	35:lO:166:ILE:HD13	2.30	0.46
36:lP:61:ARG:NH2	36:lP:76:TRP:HB3	2.30	0.46
46:la:23:GLY:HA3	46:la:24:LYS:HA	1.52	0.46
50:le:43:ASN:HD22	50:le:46:ARG:H	1.61	0.46
53:lh:22:ASP:O	53:lh:26:VAL:HG12	2.15	0.46
57:ll:44:TRP:CH2	57:ll:45:ARG:HD2	2.51	0.46
60:lo:74:GLU:OE2	60:lo:74:GLU:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:lp:86:LEU:HA	61:lp:89:LEU:HG	1.97	0.46
64:sR:79:GLU:CD	64:sR:80:ARG:HH12	2.23	0.46
66:sF:85:LYS:HD3	66:sF:88:MET:HE3	1.96	0.46
76:sM:47:ALA:HB1	76:sM:110:VAL:HG21	1.97	0.46
76:sM:52:LEU:HD12	76:sM:108:CYS:HB3	1.97	0.46
79:s2:51:U:H2'	79:s2:52:G:C8	2.49	0.46
79:s2:93:U:H2'	79:s2:94:G:O4'	2.15	0.46
79:s2:876:C:H2'	79:s2:877:C:C6	2.51	0.46
79:s2:1004:U:H2'	79:s2:1005:G:H8	1.79	0.46
79:s2:1275:G:N2	79:s2:1506:A:OP2	2.28	0.46
79:s2:1546:G:H21	79:s2:1670:C:H1'	1.81	0.46
80:cB:56:PHE:HD1	80:cB:456:ARG:HG3	1.79	0.46
80:cB:454:MET:HE1	80:cB:457:TYR:HD2	1.81	0.46
80:cB:605:LYS:NZ	80:cB:705:HIS:HD2	2.13	0.46
84:lt:78:SER:H	84:lt:117:ARG:HH12	1.62	0.46
85:l5:746:A:H2'	85:l5:747:A:H8	1.81	0.46
85:l5:1696:C:H2'	85:l5:1697:G:O4'	2.15	0.46
85:l5:2109:G:H2'	85:l5:2110:C:C6	2.51	0.46
85:l5:3954:A:O2'	85:l5:3955:G:O5'	2.32	0.46
85:l5:4089:G:H2'	85:l5:4090:G:C8	2.50	0.46
85:l5:4595:G:H2'	85:l5:4596:C:H6	1.80	0.46
85:l5:4611:A:H2'	85:l5:4612:C:H6	1.80	0.46
86:LW:16:GLY:O	86:LW:17:HIS:ND1	2.48	0.46
8:SY:56:PHE:CE1	8:SY:82:ALA:HB1	2.50	0.46
12:SH:69:LEU:O	12:SH:69:LEU:HD23	2.14	0.46
16:SN:105:ASN:HB3	79:S2:936:G:O2'	2.14	0.46
18:SW:4:MET:HE1	79:S2:682:U:H1'	1.96	0.46
18:SW:77:PRO:HG2	18:SW:79:PHE:CE2	2.51	0.46
18:SW:113:HIS:HA	18:SW:116:ALA:HB3	1.97	0.46
85:L5:307:A:H2'	85:L5:308:G:N3	2.30	0.46
85:L5:923:C:H2'	85:L5:925:C:H5	1.79	0.46
85:L5:929:A:H2'	85:L5:930:G:C8	2.51	0.46
85:L5:1190:C:H2'	85:L5:1191:C:C6	2.50	0.46
85:L5:1613:A:H5"	22:LA:183:GLY:CA	2.45	0.46
85:L5:2015:U:H2'	85:L5:2016:C:O4'	2.14	0.46
85:L5:2064:G:OP2	27:LF:221:LYS:NZ	2.48	0.46
85:L5:2633:U:H2'	85:L5:2634:C:H6	1.80	0.46
85:L5:2737:C:H2'	85:L5:2738:C:C6	2.50	0.46
85:L5:2833:A:OP1	49:Ld:44:ARG:NH2	2.48	0.46
85:L5:3833:C:H2'	85:L5:3834:C:H6	1.81	0.46
85:L5:4233:A:C4	85:L5:4235:G:N7	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4896:G:O2'	85:L5:4897:G:O4'	2.33	0.46
85:L5:4972:U:H3	85:L5:4986:G:H1	1.63	0.46
21:L8:89:U:H2'	21:L8:90:C:H6	1.79	0.46
23:LB:302:ASN:HD22	23:LB:313:SER:HB2	1.79	0.46
25:LD:164:LYS:HD2	25:LD:164:LYS:HA	1.74	0.46
27:LF:39:GLN:HA	27:LF:42:LEU:HB3	1.97	0.46
31:LJ:35:ARG:O	31:LJ:39:VAL:HG23	2.15	0.46
35:LO:124:LEU:HB3	35:LO:126:VAL:HG12	1.97	0.46
40:LT:63:ARG:HB3	40:LT:63:ARG:CZ	2.45	0.46
43:LX:92:ASP:OD2	43:LX:93:ASN:N	2.47	0.46
47:Lb:102:PRO:O	47:Lb:109:ARG:NH2	2.49	0.46
49:Ld:57:MET:CE	49:Ld:90:ARG:HB2	2.45	0.46
50:Le:91:CYS:C	50:Le:93:LYS:H	2.22	0.46
62:Lr:84:LYS:HG3	62:Lr:88:ALA:HB3	1.97	0.46
66:SF:112:LEU:HA	66:SF:177:LEU:HD11	1.96	0.46
76:SM:123:VAL:HA	76:SM:126:GLU:HB3	1.96	0.46
78:Sf:121:CYS:HB2	78:Sf:126:CYS:O	2.14	0.46
79:S2:194:C:H2'	79:S2:195:C:C6	2.50	0.46
79:S2:323:C:O2'	79:S2:325:C:N4	2.48	0.46
79:S2:413:G:C2	79:S2:414:A:C8	3.03	0.46
79:S2:421:G:N2	79:S2:653:A:OP1	2.48	0.46
79:S2:805:U:H2'	79:S2:806:U:H6	1.80	0.46
79:S2:806:U:H2'	79:S2:807:G:C8	2.49	0.46
79:S2:835:C:H5'	79:S2:836:G:H5'	1.98	0.46
79:S2:919:A:N1	79:S2:1020:A:O2'	2.40	0.46
79:S2:929:G:N2	79:S2:1104:G:H4'	2.30	0.46
87:AT:39:C:H2'	87:AT:40:G:C8	2.51	0.46
82:Et:68:C:H2'	82:Et:69:G:C8	2.50	0.46
63:Lz:65:VAL:HG23	63:Lz:153:SER:OG	2.14	0.46
4:sL:32:LYS:HD3	4:sL:32:LYS:HA	1.53	0.46
4:sL:132:ARG:HE	79:s2:383:G:H4'	1.80	0.46
5:sX:71:ARG:HD3	5:sX:82:THR:HB	1.97	0.46
11:sB:164:ILE:HG22	11:sB:204:ILE:CD1	2.45	0.46
11:sB:165:ARG:O	11:sB:169:MET:N	2.46	0.46
15:sC:151:ILE:O	15:sC:155:ILE:HG13	2.16	0.46
21:l8:146:U:H2'	21:l8:147:G:O4'	2.16	0.46
23:lB:92:TYR:HB2	23:lB:159:VAL:HG13	1.97	0.46
33:lM:57:LEU:HD23	33:lM:57:LEU:HA	1.75	0.46
39:lS:82:LEU:HA	39:lS:127:MET:HE3	1.97	0.46
41:lU:45:GLU:OE1	41:lU:45:GLU:N	2.46	0.46
50:le:67:LYS:NZ	85:l5:2319:C:OP1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:lo:45:GLN:OE1	60:lo:52:THR:OG1	2.25	0.46
61:lp:23:ARG:NH2	85:l5:2875:C:OP1	2.48	0.46
62:lr:105:ASP:OD1	62:lr:106:LEU:N	2.49	0.46
63:lz:16:GLU:HG2	63:lz:18:LEU:HD13	1.96	0.46
70:sS:80:PRO:HG2	70:sS:83:PHE:HD2	1.81	0.46
71:sT:110:LEU:O	71:sT:111:LYS:HG2	2.14	0.46
75:sg:237:ASN:OD1	75:sg:237:ASN:N	2.48	0.46
77:sZ:47:LEU:HD22	77:sZ:80:ARG:CA	2.41	0.46
79:s2:941:C:H2'	79:s2:942:G:H8	1.80	0.46
79:s2:1101:U:H2'	79:s2:1102:G:H8	1.80	0.46
79:s2:1643:U:H2'	79:s2:1644:C:C6	2.51	0.46
80:cB:190:SER:HB3	80:cB:204:MET:HE1	1.97	0.46
84:lt:114:ARG:CZ	84:lt:130:LYS:HA	2.46	0.46
85:l5:961:G:N1	85:l5:970:G:O5'	2.49	0.46
85:l5:2484:A:H3'	85:l5:2486:G:H22	1.81	0.46
85:l5:2633:U:H2'	85:l5:2634:C:C6	2.51	0.46
85:l5:2844:A:O2'	85:l5:4631:G:H4'	2.14	0.46
85:l5:3607:U:H2'	85:l5:3608:A:C8	2.51	0.46
2:SE:120:LYS:NZ	2:SE:163:ASP:HB2	2.30	0.46
6:SG:179:LEU:HD23	6:SG:179:LEU:H	1.79	0.46
7:SJ:42:GLU:H	7:SJ:42:GLU:CD	2.24	0.46
7:SJ:83:ARG:HG2	7:SJ:150:ARG:HD3	1.97	0.46
12:SH:145:ARG:HG3	18:SW:49:GLU:OE1	2.16	0.46
15:SC:168:GLY:N	15:SC:179:THR:O	2.34	0.46
15:SC:263:LYS:HG3	15:SC:267:GLN:NE2	2.30	0.46
85:L5:35:U:H4'	85:L5:1525:A:C2	2.51	0.46
85:L5:82:U:H2'	85:L5:83:C:C6	2.50	0.46
85:L5:88:A:OP2	37:LQ:173:LYS:NZ	2.33	0.46
85:L5:125:C:H2'	85:L5:126:C:H6	1.81	0.46
85:L5:1051:G:N2	85:L5:1064:G:OP2	2.48	0.46
85:L5:1502:G:OP2	37:LQ:65:ARG:NH1	2.48	0.46
85:L5:1819:G:C2	25:LD:113:PHE:HD2	2.32	0.46
85:L5:1952:G:H2'	85:L5:1953:U:C6	2.50	0.46
85:L5:2318:G:N2	85:L5:2321:G:OP2	2.25	0.46
85:L5:2752:G:C6	85:L5:2753:G:C6	3.03	0.46
85:L5:2898:G:H2'	85:L5:2899:C:H6	1.79	0.46
85:L5:3600:G:H2'	85:L5:3601:C:C6	2.51	0.46
85:L5:3605:C:H2'	85:L5:3606:U:C6	2.51	0.46
85:L5:3611:A:H2'	85:L5:3612:C:C6	2.50	0.46
85:L5:3612:C:H1'	85:L5:5016:A:H8	1.81	0.46
85:L5:3967:G:N3	85:L5:3967:G:H2'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4586:G:H2'	85:L5:4587:G:H8	1.80	0.46
85:L5:4594:U:H2'	85:L5:4595:G:C8	2.50	0.46
21:L8:115:G:H2'	21:L8:116:C:H6	1.79	0.46
21:L8:130:C:H2'	21:L8:131:G:H8	1.79	0.46
24:LC:22:VAL:HG22	24:LC:258:ARG:NH2	2.30	0.46
25:LD:66:TYR:OH	25:LD:68:ARG:NH2	2.47	0.46
33:LM:129:LYS:HE2	33:LM:129:LYS:HB3	1.82	0.46
35:LO:109:PRO:C	35:LO:111:PRO:HD2	2.39	0.46
60:Lo:105:GLN:NE2	89:Pt:19:G:O6	2.48	0.46
62:Lr:30:ASN:ND2	62:Lr:48:THR:OG1	2.30	0.46
77:SZ:47:LEU:HD12	77:SZ:48:VAL:H	1.81	0.46
79:S2:319:C:H2'	79:S2:320:G:C8	2.47	0.46
79:S2:835:C:H4'	79:S2:836:G:C8	2.50	0.46
79:S2:1035:A:C4	79:S2:1036:A:C8	3.03	0.46
79:S2:1164:G:O2'	79:S2:1165:G:H5'	2.15	0.46
79:S2:1378:A:H4'	79:S2:1379:A:O5'	2.15	0.46
82:Et:27:U:H2'	82:Et:28:C:H6	1.80	0.46
88:CF:6:THR:H	88:CF:85:TYR:HB2	1.81	0.46
1:cH:79:LYS:O	1:cH:79:LYS:HD3	2.16	0.46
3:sI:67:TRP:CD1	3:sI:70:GLU:HG2	2.50	0.46
3:sI:146:GLN:OE1	3:sI:146:GLN:HA	2.16	0.46
8:sY:130:LYS:HB3	80:cB:8:GLN:HB3	1.97	0.46
12:sH:155:LYS:HA	12:sH:186:ASN:O	2.14	0.46
19:sb:70:LYS:HB2	79:s2:1106:C:OP1	2.15	0.46
21:l8:19:C:O2'	85:l5:2308:A:N3	2.42	0.46
24:lC:331:TYR:CE1	27:lF:55:LYS:HB2	2.49	0.46
40:lT:38:ASP:C	40:lT:38:ASP:OD2	2.58	0.46
50:le:48:ARG:O	85:l5:1883:G:O2'	2.32	0.46
56:lk:40:ARG:HD3	56:lk:41:TYR:CE2	2.51	0.46
63:lz:124:LEU:HD23	63:lz:125:GLY:N	2.31	0.46
63:lz:192:SER:HB2	63:lz:193:LEU:HD23	1.97	0.46
64:sR:5:ARG:HA	79:s2:1368:U:C2	2.51	0.46
64:sR:27:ASP:HB3	79:s2:1455:A:OP2	2.15	0.46
66:sF:124:ASP:OD1	66:sF:125:SER:N	2.44	0.46
72:sU:48:LEU:HD21	72:sU:92:HIS:H	1.80	0.46
75:sg:17:TRP:HB2	75:sg:36:ARG:CG	2.46	0.46
75:sg:126:ASP:O	75:sg:127:LYS:HG2	2.15	0.46
76:sM:76:LEU:HD23	76:sM:76:LEU:C	2.40	0.46
79:s2:1581:C:H5"	79:s2:1582:C:H5	1.80	0.46
80:cB:734:LEU:HD22	80:cB:851:LEU:HD12	1.95	0.46
82:pE:16:C:H5"	82:pE:60:U:N3	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:pE:36:U:C4	82:pE:37:A:C5	3.04	0.46
85:l5:653:U:O4	85:l5:654:C:N4	2.49	0.46
85:l5:921:C:H2'	85:l5:922:C:C6	2.50	0.46
85:l5:923:C:H2'	85:l5:925:C:H5	1.80	0.46
85:l5:1473:U:H2'	85:l5:1474:C:C6	2.50	0.46
85:l5:1932:A:H2'	85:l5:1933:G:C8	2.51	0.46
85:l5:2777:G:H5"	85:l5:2778:G:H5'	1.97	0.46
85:l5:3893:C:H2'	85:l5:3894:A:C8	2.50	0.46
85:l5:4178:A:H2'	85:l5:4179:G:H8	1.81	0.46
86:LW:44:ARG:HG3	85:L5:3615:G:O3'	2.15	0.46
2:SE:188:ASN:HA	2:SE:245:ARG:NH2	2.30	0.46
4:SL:133:PRO:O	79:S2:383:G:O2'	2.34	0.46
5:SX:84:PHE:O	5:SX:122:VAL:HG12	2.16	0.46
7:SJ:41:ARG:N	79:S2:642:U:OP1	2.49	0.46
8:SY:110:ARG:NH2	8:SY:124:ASN:O	2.47	0.46
10:SA:180:ARG:HA	10:SA:195:TRP:CE3	2.50	0.46
15:SC:64:THR:HG22	15:SC:66:LEU:H	1.80	0.46
15:SC:201:GLY:N	15:SC:221:ASP:OD1	2.47	0.46
18:SW:7:LEU:HD23	18:SW:7:LEU:H	1.81	0.46
85:L5:470:A:H61	85:L5:684:G:H1'	1.80	0.46
85:L5:1586:G:H2'	85:L5:1587:G:C8	2.50	0.46
85:L5:2572:C:O2'	45:LZ:112:ARG:NH2	2.49	0.46
85:L5:3633:C:H2'	85:L5:3634:G:H8	1.80	0.46
85:L5:4165:C:OP1	28:LG:245:LYS:NZ	2.39	0.46
85:L5:4361:U:H2'	85:L5:4362:A:C8	2.50	0.46
85:L5:4365:C:C2	85:L5:4366:A:C8	3.04	0.46
85:L5:4551:U:H2'	85:L5:4552:U:C6	2.50	0.46
85:L5:4939:C:P	26:LE:187:ARG:HH21	2.38	0.46
20:L7:45:U:H2'	20:L7:46:C:H6	1.80	0.46
20:L7:88:A:H2'	20:L7:89:G:O4'	2.16	0.46
21:L8:108:A:H2'	21:L8:109:C:C6	2.51	0.46
22:LA:10:LYS:HA	22:LA:16:PHE:CD2	2.51	0.46
31:LJ:9:GLU:C	31:LJ:11:PRO:HD2	2.40	0.46
35:LO:10:ASP:CG	35:LO:37:ARG:HH21	2.20	0.46
35:LO:118:MET:H	35:LO:118:MET:CE	2.21	0.46
36:LP:2:VAL:HG12	36:LP:3:ARG:N	2.30	0.46
44:LY:114:ASP:O	44:LY:118:ILE:HD12	2.15	0.46
45:LZ:122:TYR:HB2	45:LZ:131:PHE:CE1	2.51	0.46
48:Lc:48:LEU:HB2	48:Lc:72:HIS:O	2.16	0.46
52:Lg:59:VAL:HB	52:Lg:63:VAL:HG11	1.97	0.46
62:Lr:17:LEU:O	62:Lr:18:ILE:HD13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Lr:93:ILE:O	62:Lr:96:MET:HG2	2.15	0.46
65:SD:167:TYR:OH	65:SD:203:PRO:HA	2.15	0.46
71:ST:64:LEU:HD21	71:ST:122:LYS:HA	1.97	0.46
79:S2:90:G:OP1	79:S2:445:A:N6	2.47	0.46
79:S2:1088:U:H4'	79:S2:1089:G:OP2	2.15	0.46
79:S2:1225:U:H2'	79:S2:1226:G:H8	1.80	0.46
79:S2:1233:G:C6	79:S2:1526:G:C6	3.04	0.46
87:AT:36:A:C2	87:AT:37:C:H1'	2.50	0.46
84:Lt:56:LEU:CD2	84:Lt:57:ARG:HH21	2.29	0.46
2:sE:117:GLU:OE1	2:sE:117:GLU:N	2.40	0.46
3:sI:22:HIS:HB3	79:s2:433:A:H5"	1.97	0.46
4:sL:133:PRO:HG2	79:s2:383:G:H21	1.81	0.46
4:sL:136:LYS:HE2	4:sL:136:LYS:HB3	1.42	0.46
6:sG:57:ASP:CG	6:sG:58:LYS:N	2.73	0.46
7:sJ:93:LYS:HB3	7:sJ:96:TYR:CD1	2.51	0.46
7:sJ:169:ARG:HD2	7:sJ:169:ARG:HA	1.65	0.46
10:sA:61:ALA:O	10:sA:65:ILE:HG13	2.15	0.46
15:sC:267:GLN:HA	15:sC:270:THR:OG1	2.16	0.46
23:lB:82:PRO:HG3	23:lB:171:LEU:HD21	1.98	0.46
23:lB:83:PRO:O	23:lB:167:GLN:NE2	2.37	0.46
25:lD:208:MET:SD	25:lD:223:PHE:HD2	2.38	0.46
26:lE:183:ARG:HD2	85:l5:4936:G:C4	2.50	0.46
27:lF:220:MET:O	27:lF:221:LYS:HG2	2.15	0.46
31:lJ:20:LEU:HD22	31:lJ:79:ALA:HA	1.97	0.46
34:lN:83:LYS:HB2	85:l5:34:A:OP1	2.16	0.46
37:lQ:159:PRO:HA	37:lQ:160:HIS:HA	1.50	0.46
39:lS:93:MET:HE1	39:lS:113:MET:HE1	1.96	0.46
46:la:58:MET:HE2	85:l5:1391:A:N3	2.31	0.46
50:le:31:ILE:HD11	85:l5:2347:A:C6	2.50	0.46
51:lf:54:LYS:NZ	85:l5:443:G:O3'	2.46	0.46
55:lj:54:LYS:O	55:lj:58:THR:HB	2.16	0.46
56:lk:26:LYS:HG2	56:lk:69:LEU:HD12	1.97	0.46
59:ln:14:LYS:O	59:ln:18:ARG:HG3	2.16	0.46
63:lz:156:LYS:H	63:lz:156:LYS:HD2	1.80	0.46
64:sR:27:ASP:CG	79:s2:1455:A:H5"	2.40	0.46
68:sP:81:ARG:HB2	68:sP:117:GLY:CA	2.46	0.46
70:sS:14:ARG:HA	70:sS:14:ARG:HD2	1.70	0.46
70:sS:21:ASP:OD1	70:sS:22:GLY:N	2.49	0.46
70:sS:39:ARG:HD3	79:s2:1629:C:OP1	2.15	0.46
71:sT:105:GLN:NE2	79:s2:1564:C:OP1	2.48	0.46
74:sd:36:LEU:C	74:sd:36:LEU:HD12	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:sg:79:LEU:HB3	75:sg:89:LEU:HD13	1.98	0.46
75:sg:223:GLU:OE2	75:sg:225:LYS:HG3	2.14	0.46
77:sZ:47:LEU:HD21	77:sZ:79:ILE:CB	2.45	0.46
78:sf:118:ARG:H	78:sf:131:PHE:HZ	1.62	0.46
79:s2:746:C:O2'	79:s2:798:G:N2	2.39	0.46
79:s2:1355:C:H3'	79:s2:1356:G:C4	2.50	0.46
79:s2:1385:G:C5	79:s2:1386:A:C5	3.04	0.46
80:cB:200:MET:HA	80:cB:200:MET:CE	2.44	0.46
80:cB:206:ASP:HB3	80:cB:209:LEU:HD12	1.97	0.46
81:aP:18:G:O6	81:aP:55:U:C2	2.68	0.46
81:aP:25:C:H2'	81:aP:26:G:H5'	1.96	0.46
82:pE:10:G:H1	82:pE:26:A:H1'	1.81	0.46
85:l5:5037:U:H2'	85:l5:5038:A:C8	2.51	0.46
86:LW:53:VAL:HG23	86:LW:57:ARG:NH2	2.31	0.46
6:SG:7:PHE:CE1	6:SG:9:ALA:HB3	2.47	0.46
10:SA:25:LEU:O	10:SA:166:LYS:NZ	2.38	0.46
12:SH:157:HIS:CE1	12:SH:190:PRO:HA	2.43	0.46
16:SN:95:ALA:HA	16:SN:118:ILE:HD12	1.97	0.46
85:L5:228:C:H2'	85:L5:229:G:H8	1.81	0.46
85:L5:654:C:O2'	85:L5:655:C:H5'	2.16	0.46
85:L5:926:G:H2'	85:L5:927:G:C8	2.50	0.46
85:L5:1207:C:H2'	85:L5:1208:G:C8	2.34	0.46
85:L5:1478:C:H2'	85:L5:1479:G:H8	1.80	0.46
85:L5:1557:C:H2'	85:L5:1558:A:C8	2.51	0.46
85:L5:2075:G:H2'	85:L5:2076:G:H8	1.81	0.46
85:L5:4711:C:H2'	85:L5:4712:C:C6	2.51	0.46
25:LD:223:PHE:HB3	25:LD:226:TYR:CD1	2.51	0.46
26:LE:116:TYR:CE2	62:Lr:111:ILE:CD1	2.98	0.46
26:LE:162:VAL:HG11	26:LE:184:VAL:HG11	1.98	0.46
27:LF:39:GLN:OE1	27:LF:39:GLN:N	2.43	0.46
27:LF:215:SER:O	27:LF:247:MET:HE1	2.12	0.46
40:LT:157:GLU:CD	40:LT:157:GLU:C	2.83	0.46
41:LU:112:LEU:O	41:LU:112:LEU:HD23	2.16	0.46
50:Le:109:LYS:O	50:Le:113:GLU:HG2	2.15	0.46
67:SK:1:MET:N	79:S2:1315:U:OP1	2.48	0.46
69:SQ:12:VAL:O	69:SQ:23:ALA:N	2.34	0.46
74:Sd:7:TYR:CE1	74:Sd:8:TRP:HZ3	2.33	0.46
75:Sg:173:LEU:HB3	75:Sg:189:ILE:HG22	1.98	0.46
76:SM:49:LEU:HD21	76:SM:75:ASN:HD21	1.79	0.46
77:SZ:97:ILE:HD12	77:SZ:109:TYR:CD2	2.50	0.46
77:SZ:101:SER:OG	77:SZ:102:LYS:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:172:U:N3	79:S2:337:C:O2'	2.48	0.46
79:S2:1473:G:H2'	79:S2:1475:G:N7	2.31	0.46
88:CF:46:ALA:HA	88:CF:49:MET:HG3	1.98	0.46
2:sE:60:GLU:O	2:sE:64:ILE:HG12	2.16	0.46
2:sE:151:ASP:O	2:sE:154:ILE:HG12	2.16	0.46
5:sX:24:ASP:OD1	5:sX:27:TYR:HB3	2.16	0.46
7:sJ:164:PRO:HB3	7:sJ:170:PRO:HA	1.98	0.46
7:sJ:174:LYS:HB2	79:s2:561:A:OP2	2.16	0.46
8:sY:29:HIS:NE2	8:sY:69:THR:OG1	2.28	0.46
10:sA:20:ALA:HA	64:sR:96:ILE:HG12	1.98	0.46
10:sA:77:ILE:HD13	10:sA:122:LEU:HD11	1.97	0.46
11:sB:98:THR:HG1	11:sB:99:ASN:H	1.64	0.46
11:sB:154:SER:OG	64:sR:134:PRO:HB2	2.16	0.46
19:sb:45:THR:O	19:sb:45:THR:OG1	2.30	0.46
22:lA:205:ASN:ND2	85:l5:1633:G:C8	2.83	0.46
23:lB:258:HIS:HB2	85:l5:4518:A:OP2	2.16	0.46
24:lC:285:ILE:N	37:lQ:124:ASP:OD2	2.48	0.46
25:lD:228:LYS:C	25:lD:230:SER:H	2.24	0.46
38:lR:84:THR:HG22	85:l5:2864:A:H5"	1.97	0.46
45:lZ:29:ILE:HD13	45:lZ:40:HIS:CD2	2.51	0.46
49:ld:46:LEU:HD13	85:l5:2372:U:O2'	2.16	0.46
65:sD:70:THR:HG22	65:sD:86:LEU:HD23	1.97	0.46
65:sD:168:VAL:HA	65:sD:188:ILE:O	2.15	0.46
74:sd:8:TRP:CZ3	74:sd:12:ARG:NE	2.83	0.46
75:sg:217:MET:HG2	75:sg:229:THR:HG23	1.98	0.46
79:s2:464:A:H5'	79:s2:465:A:C8	2.51	0.46
79:s2:793:G:H2'	79:s2:794:A:C8	2.49	0.46
85:l5:1217:G:H2'	85:l5:1218:G:C8	2.50	0.46
85:l5:1243:C:C2	85:l5:1244:G:C8	3.04	0.46
85:l5:1244:G:H2'	85:l5:1245:C:C6	2.50	0.46
85:l5:1604:G:H2'	85:l5:1605:G:C8	2.50	0.46
85:l5:2003:G:N2	85:l5:2004:U:O4	2.47	0.46
85:l5:3597:G:H2'	85:l5:3598:C:C6	2.50	0.46
85:l5:4088:C:H2'	85:l5:4089:G:H8	1.81	0.46
85:l5:4562:C:H2'	85:l5:4563:U:H6	1.81	0.46
5:SX:87:ASN:ND2	5:SX:90:CYS:SG	2.71	0.46
6:SG:45:TRP:O	6:SG:48:TYR:HB2	2.15	0.46
10:SA:87:VAL:CG1	10:SA:175:TRP:NE1	2.78	0.46
11:SB:118:GLN:HA	11:SB:154:SER:O	2.15	0.46
16:SN:2:GLY:N	79:S2:1092:G:OP1	2.48	0.46
85:L5:64:A:H1'	85:L5:76:A:H1'	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:76:A:H5'	32:LL:101:ARG:NH1	2.31	0.46
85:L5:106:A:H1'	85:L5:336:A:N3	2.30	0.46
85:L5:167:C:H2'	85:L5:168:C:C6	2.51	0.46
85:L5:302:C:H2'	85:L5:303:C:C6	2.50	0.46
85:L5:453:G:N3	85:L5:453:G:H2'	2.29	0.46
85:L5:1070:G:OP2	26:LE:65:ARG:NH1	2.45	0.46
85:L5:1269:G:C2	85:L5:1441:C:O2	2.68	0.46
85:L5:1773:U:H2'	85:L5:1774:C:C6	2.51	0.46
85:L5:2267:U:P	62:Lr:37:SER:HB2	2.56	0.46
85:L5:2655:C:H2'	85:L5:2656:U:H6	1.79	0.46
85:L5:3598:C:H2'	85:L5:3599:A:H8	1.81	0.46
85:L5:4215:C:C2	85:L5:4216:G:C8	3.04	0.46
85:L5:4319:C:H2'	85:L5:4320:G:C8	2.50	0.46
85:L5:4563:U:H2'	85:L5:4564:A:C8	2.49	0.46
85:L5:4771:C:H2'	85:L5:4772:C:H6	1.80	0.46
85:L5:4957:C:H2'	85:L5:4958:C:C6	2.51	0.46
85:L5:5008:C:H2'	85:L5:5009:G:O4'	2.14	0.46
20:L7:5:A:H2'	20:L7:6:C:C6	2.50	0.46
22:LA:129:ALA:O	22:LA:169:VAL:HG21	2.15	0.46
23:LB:113:GLU:O	23:LB:116:ARG:HB2	2.16	0.46
25:LD:223:PHE:HB3	25:LD:226:TYR:HD1	1.80	0.46
26:LE:99:ASP:O	26:LE:100:LYS:HG2	2.16	0.46
26:LE:209:PRO:HB2	26:LE:212:LEU:HD23	1.98	0.46
28:LG:157:ILE:O	28:LG:183:ILE:HD12	2.15	0.46
43:LX:109:ILE:O	43:LX:113:VAL:HG12	2.16	0.46
47:Lb:96:LEU:HA	47:Lb:99:ILE:HD12	1.97	0.46
64:SR:73:LEU:O	64:SR:77:GLU:HG3	2.15	0.46
71:ST:2:PRO:N	79:S2:1417:C:H1'	2.31	0.46
71:ST:69:GLY:N	71:ST:122:LYS:HG2	2.31	0.46
71:ST:77:LYS:HB3	71:ST:94:ARG:HE	1.81	0.46
74:Sd:7:TYR:CE1	74:Sd:8:TRP:CZ3	3.03	0.46
78:Sf:114:ILE:HD11	78:Sf:116:ARG:HH11	1.81	0.46
78:Sf:132:MET:N	78:Sf:132:MET:HE2	2.31	0.46
79:S2:15:U:H2'	79:S2:16:G:O4'	2.15	0.46
79:S2:301:A:H2'	79:S2:302:A:O4'	2.16	0.46
79:S2:529:A:H61	79:S2:555:A:N6	2.14	0.46
79:S2:692:G:H2'	79:S2:739:C:H1'	1.97	0.46
79:S2:1189:A:H2'	79:S2:1190:A:C8	2.50	0.46
79:S2:1261:C:C4	79:S2:1262:C:C4	3.04	0.46
79:S2:1286:G:O2'	79:S2:1287:A:OP2	2.33	0.46
79:S2:1548:G:H2'	79:S2:1549:U:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1805:G:H2'	79:S2:1806:A:C8	2.51	0.46
79:S2:1827:U:H2'	79:S2:1828:C:C6	2.51	0.46
1:cH:91:THR:HG1	79:s2:1321:G:P	2.39	0.46
11:sB:82:ARG:NH1	11:sB:191:ASP:HB2	2.31	0.46
15:sC:166:ARG:NH2	15:sC:254:ASP:OD2	2.48	0.46
19:sb:10:PRO:HG2	19:sb:15:GLU:OE2	2.16	0.46
19:sb:49:HIS:ND1	79:s2:1015:U:H5'	2.31	0.46
20:l7:120:U:H5"	25:lD:262:LYS:HE3	1.97	0.46
22:lA:245:ARG:HB3	22:lA:247:ARG:HG3	1.97	0.46
23:lB:220:ILE:HB	23:lB:346:THR:HB	1.98	0.46
28:lG:180:PRO:HD3	28:lG:223:ARG:NH2	2.31	0.46
30:lI:91:LEU:HD11	30:lI:135:ILE:HD12	1.96	0.46
33:lM:39:ASP:OD2	33:lM:39:ASP:C	2.59	0.46
33:lM:119:ARG:HH12	35:lO:202:LEU:CD2	2.29	0.46
34:lN:190:ALA:HB2	85:l5:28:C:OP1	2.16	0.46
38:lR:96:MET:HE3	85:l5:2607:C:H5'	1.97	0.46
41:lU:56:LEU:HB2	41:lU:61:VAL:HG12	1.97	0.46
50:le:68:HIS:CD2	62:lr:22:LYS:HG3	2.51	0.46
50:le:90:MET:HE3	62:lr:33:LYS:HA	1.97	0.46
53:lh:52:LYS:HD3	53:lh:52:LYS:HA	1.62	0.46
63:lz:124:LEU:HD11	63:lz:128:LEU:HD22	1.98	0.46
67:sK:61:GLN:HG3	67:sK:62:PHE:N	2.31	0.46
69:sQ:117:ARG:HH21	69:sQ:121:VAL:HG11	1.81	0.46
75:sg:181:ASN:OD1	75:sg:183:LYS:HG3	2.16	0.46
79:s2:300:U:H2'	79:s2:301:A:C8	2.50	0.46
79:s2:1056:U:H2'	79:s2:1057:C:O4'	2.16	0.46
79:s2:1421:A:H5"	79:s2:1422:G:H2'	1.98	0.46
79:s2:1854:U:H2'	79:s2:1855:G:H8	1.80	0.46
80:cB:561:LEU:HD23	80:cB:562:GLU:N	2.30	0.46
80:cB:670:GLN:NE2	80:cB:671:TYR:CE1	2.75	0.46
80:cB:744:ILE:CD1	80:cB:818:GLN:HB3	2.46	0.46
80:cB:846:GLU:H	80:cB:846:GLU:CD	2.20	0.46
85:l5:504:G:H2'	85:l5:504:G:N3	2.31	0.46
85:l5:1262:G:H2'	85:l5:1263:A:C8	2.51	0.46
85:l5:1298:C:H2'	85:l5:1299:G:C8	2.51	0.46
85:l5:2092:G:HO2'	85:l5:2262:G:N2	2.13	0.46
85:l5:2465:C:H2'	85:l5:2466:G:C8	2.51	0.46
85:l5:4228:G:H5"	85:l5:4229:U:O4'	2.16	0.46
85:l5:4345:C:H2'	85:l5:4346:U:H6	1.80	0.46
86:LW:45:ASN:HB3	86:LW:48:GLN:CD	2.41	0.46
4:SL:95:TYR:CZ	4:SL:97:ARG:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:SG:135:PRO:HG2	6:SG:141:ILE:HG22	1.97	0.46
10:SA:90:PHE:CE2	10:SA:175:TRP:CE3	3.04	0.46
11:SB:180:ASP:O	11:SB:184:VAL:HG23	2.16	0.46
14:Sa:5:ARG:HB2	14:Sa:7:ASN:O	2.16	0.46
15:SC:60:TRP:CZ2	15:SC:62:PRO:HB3	2.51	0.46
15:SC:211:LYS:HG2	15:SC:215:MET:HE1	1.97	0.46
17:SO:34:PHE:CD1	17:SO:98:ARG:HG2	2.50	0.46
17:SO:56:VAL:HG13	17:SO:77:ALA:HB1	1.96	0.46
18:SW:47:ILE:HD12	18:SW:63:VAL:HG21	1.98	0.46
85:L5:957:G:O6	85:L5:958:G:N1	2.48	0.46
85:L5:1702:C:H3'	85:L5:1703:C:H5"	1.98	0.46
85:L5:1764:G:H4'	85:L5:1769:G:N1	2.31	0.46
85:L5:1819:G:C5	25:LD:113:PHE:CZ	3.02	0.46
85:L5:2019:C:H2'	85:L5:2020:U:C6	2.50	0.46
85:L5:3697:U:O2'	85:L5:3817:A:OP2	2.34	0.46
85:L5:3844:U:OP1	23:LB:238:LYS:NZ	2.41	0.46
85:L5:4998:G:H2'	85:L5:4999:G:C8	2.50	0.46
20:L7:60:G:C2	20:L7:61:G:C8	3.04	0.46
22:LA:131:GLY:H	22:LA:169:VAL:HG23	1.81	0.46
26:LE:88:VAL:HA	26:LE:89:LEU:HA	1.58	0.46
27:LF:190:LEU:HD12	27:LF:190:LEU:O	2.15	0.46
29:LH:5:LEU:HD12	29:LH:6:SER:N	2.31	0.46
30:LI:48:LEU:HD21	30:LI:142:LEU:O	2.16	0.46
30:LI:212:LEU:HD12	30:LI:213:HIS:N	2.23	0.46
31:LJ:72:CYS:HG	31:LJ:73:THR:N	2.14	0.46
33:LM:43:THR:HG23	33:LM:45:VAL:HG22	1.97	0.46
34:LN:146:PRO:C	34:LN:148:THR:H	2.24	0.46
39:LS:136:LYS:HE2	39:LS:136:LYS:HB2	1.86	0.46
41:LU:20:LYS:O	41:LU:108:GLU:HB2	2.16	0.46
43:LX:151:ASN:CA	43:LX:156:ILE:HD13	2.46	0.46
53:Lh:50:VAL:O	53:Lh:54:ILE:HG22	2.16	0.46
54:Li:50:PHE:O	54:Li:55:ARG:NH2	2.49	0.46
64:SR:75:GLU:O	64:SR:78:ARG:NH2	2.48	0.46
67:SK:3:MET:SD	67:SK:4:PRO:O	2.73	0.46
75:Sg:168:CYS:HB3	75:Sg:198:VAL:HB	1.96	0.46
75:Sg:176:VAL:HG12	75:Sg:185:LYS:HB2	1.96	0.46
79:S2:508:A:H5'	79:S2:509:G:OP2	2.16	0.46
79:S2:1017:U:H2'	79:S2:1018:U:H6	1.81	0.46
79:S2:1064:C:H2'	79:S2:1065:G:C8	2.50	0.46
79:S2:1369:A:H2'	79:S2:1370:A:C8	2.51	0.46
88:CF:108:GLN:HG3	88:CF:266:ARG:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:Lt:62:LEU:H	84:Lt:75:PRO:HD3	1.80	0.46
63:Lz:1:MET:HG3	63:Lz:2:SER:N	2.30	0.46
5:sX:125:VAL:O	5:sX:126:ALA:C	2.59	0.46
10:sA:195:TRP:CE2	10:sA:197:VAL:CG2	2.99	0.46
11:sB:40:ASN:OD1	11:sB:40:ASN:N	2.47	0.46
12:sH:37:LYS:HB3	12:sH:41:ARG:NH1	2.31	0.46
13:sV:20:SER:O	13:sV:20:SER:OG	2.23	0.46
15:sC:252:THR:OG1	15:sC:254:ASP:OD1	2.26	0.46
17:sO:54:CYS:HB3	17:sO:81:VAL:HG13	1.98	0.46
18:sW:77:PRO:HG2	18:sW:79:PHE:CZ	2.51	0.46
36:lP:91:LEU:HD21	36:lP:146:ILE:HD11	1.98	0.46
36:lP:92:LEU:HD23	36:lP:92:LEU:HA	1.70	0.46
38:lR:172:ARG:HH22	79:s2:909:G:P	2.39	0.46
39:lS:111:ARG:NH2	85:l5:2062:C:O2'	2.49	0.46
39:lS:113:MET:HE2	39:lS:113:MET:HB2	1.71	0.46
44:lY:110:LYS:HB3	44:lY:110:LYS:HE2	1.79	0.46
50:le:64:LYS:HG2	85:l5:2078:C:OP1	2.16	0.46
52:lg:8:ARG:HB2	52:lg:34:TYR:CE2	2.50	0.46
53:lh:14:LYS:O	53:lh:18:LEU:HG	2.15	0.46
61:lp:33:GLN:HG2	61:lp:34:HIS:CD2	2.51	0.46
63:lz:209:THR:OG1	85:l5:4052:C:O2	2.28	0.46
65:sD:142:LEU:HD12	65:sD:143:ARG:HG3	1.97	0.46
68:sP:106:GLU:OE1	68:sP:108:LYS:HG2	2.15	0.46
69:sQ:106:LYS:O	69:sQ:106:LYS:HD3	2.16	0.46
73:sc:30:VAL:CG2	73:sc:32:VAL:HG13	2.46	0.46
76:sM:126:GLU:HA	76:sM:129:LYS:HZ3	1.80	0.46
78:sf:93:HIS:ND1	78:sf:94:LYS:O	2.48	0.46
79:s2:531:A:N6	79:s2:554:A:N1	2.64	0.46
79:s2:666:U:H2'	79:s2:667:U:C6	2.51	0.46
79:s2:946:U:H2'	79:s2:947:G:C8	2.51	0.46
79:s2:946:U:H2'	79:s2:947:G:H8	1.80	0.46
79:s2:1030:A:H2'	79:s2:1031:A:H8	1.81	0.46
79:s2:1807:C:H2'	79:s2:1808:U:C6	2.51	0.46
85:l5:18:C:H2'	85:l5:19:G:H8	1.81	0.46
85:l5:133:C:H2'	85:l5:134:G:H4'	1.98	0.46
85:l5:1702:C:H3'	85:l5:1703:C:H5"	1.98	0.46
85:l5:2904:U:H3'	85:l5:2904:U:OP2	2.15	0.46
3:SI:141:ARG:NH2	79:S2:192:C:OP2	2.47	0.46
4:SL:65:ASN:O	4:SL:132:ARG:NH1	2.49	0.46
5:SX:126:ALA:O	5:SX:128:VAL:N	2.49	0.46
10:SA:39:TYR:CD1	64:SR:105:MET:HE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:SA:40:LYS:O	10:SA:48:ILE:HG12	2.16	0.46
10:SA:80:ARG:HH11	10:SA:80:ARG:HG2	1.81	0.46
11:SB:103:MET:SD	11:SB:215:VAL:HB	2.56	0.46
12:SH:14:GLU:HG2	12:SH:15:LYS:N	2.30	0.46
12:SH:71:SER:O	12:SH:74:LYS:HG3	2.16	0.46
12:SH:105:THR:HG23	12:SH:107:LYS:H	1.80	0.46
85:L5:227:A:OP1	44:LY:1:MET:HB3	2.15	0.46
85:L5:705:G:H2'	85:L5:706:C:H6	1.81	0.46
85:L5:958:G:N2	85:L5:1285:U:OP1	2.31	0.46
85:L5:1352:C:H2'	85:L5:1353:G:O4'	2.16	0.46
85:L5:1814:C:H2'	85:L5:1816:C:H5	1.81	0.46
85:L5:1820:C:O2'	85:L5:1821:G:N7	2.46	0.46
85:L5:1997:U:H2'	85:L5:1999:A:OP2	2.16	0.46
85:L5:2102:G:H1'	85:L5:2103:G:C8	2.50	0.46
85:L5:2257:C:N4	85:L5:2260:C:N3	2.63	0.46
85:L5:2373:C:H2'	85:L5:2374:A:C8	2.50	0.46
85:L5:2517:A:O4'	52:Lg:62:LYS:HD2	2.16	0.46
85:L5:2590:G:H22	85:L5:2754:G:H1'	1.81	0.46
85:L5:2634:C:C2	85:L5:2635:U:C5	3.04	0.46
85:L5:2881:A:H3'	85:L5:2882:A:H8	1.80	0.46
85:L5:3677:U:H5"	22:LA:18:ALA:HB2	1.98	0.46
85:L5:4878:C:H2'	85:L5:4879:C:H6	1.81	0.46
20:L7:55:A:H4'	31:LJ:155:HIS:HB2	1.98	0.46
22:LA:96:LEU:HA	22:LA:96:LEU:HD23	1.61	0.46
25:LD:206:ASP:OD1	25:LD:206:ASP:N	2.37	0.46
27:LF:138:PRO:HA	27:LF:233:ALA:HB1	1.98	0.46
28:LG:181:TYR:CD1	28:LG:181:TYR:C	2.94	0.46
32:LL:106:SER:OG	32:LL:108:GLU:OE2	2.33	0.46
35:LO:166:ILE:HA	35:LO:169:ARG:HD3	1.96	0.46
42:LV:61:VAL:O	42:LV:79:ALA:N	2.47	0.46
44:LY:40:GLN:OE1	44:LY:40:GLN:C	2.59	0.46
50:Le:57:ASN:OD1	50:Le:57:ASN:N	2.49	0.46
65:SD:9:ARG:HH11	65:SD:9:ARG:HG3	1.81	0.46
65:SD:75:LYS:NZ	67:SK:22:VAL:O	2.33	0.46
65:SD:145:GLN:NE2	79:S2:628:A:N7	2.64	0.46
71:ST:101:ARG:NH1	79:S2:1566:G:O6	2.35	0.46
79:S2:533:A:H61	79:S2:550:C:H42	1.63	0.46
79:S2:1717:C:H2'	79:S2:1718:G:O4'	2.16	0.46
79:S2:1778:C:H2'	79:S2:1779:G:O4'	2.16	0.46
89:Pt:50:U:H2'	89:Pt:51:C:C6	2.51	0.46
83:Ls:24:TYR:CE2	83:Ls:92:LYS:HG2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cH:131:LYS:HD2	1:cH:139:LYS:HD2	1.98	0.46
2:sE:183:VAL:HG13	2:sE:188:ASN:O	2.16	0.46
6:sG:222:GLU:HA	6:sG:225:GLN:CD	2.41	0.46
14:sa:38:LYS:O	14:sa:71:LEU:HB2	2.16	0.46
17:sO:86:LYS:HE2	17:sO:86:LYS:HB3	1.58	0.46
21:l8:28:C:H2'	21:l8:29:G:H8	1.80	0.46
27:lF:157:ARG:HE	27:lF:248:ASN:CG	2.23	0.46
27:lF:182:TYR:CZ	27:lF:203:GLU:HG2	2.50	0.46
32:lL:103:ARG:HB3	54:li:25:ARG:NH1	2.31	0.46
44:lY:85:VAL:HG12	44:lY:97:VAL:HB	1.97	0.46
47:lb:103:LYS:HE3	85:l5:1708:G:N7	2.31	0.46
63:lz:207:LYS:HA	63:lz:211:GLY:HA3	1.97	0.46
64:sR:32:LYS:HG2	79:s2:1453:C:H2'	1.98	0.46
64:sR:53:TYR:CG	79:s2:1466:G:C8	3.04	0.46
66:sF:47:LYS:HD3	66:sF:47:LYS:HA	1.60	0.46
67:sK:55:ARG:HB3	67:sK:57:TYR:CD1	2.50	0.46
71:sT:129:ARG:HD3	71:sT:133:ARG:NH1	2.31	0.46
75:sg:188:HIS:CB	75:sg:219:TRP:HZ3	2.26	0.46
78:sf:108:VAL:HA	78:sf:113:LYS:O	2.15	0.46
79:s2:342:C:H2'	79:s2:343:A:H8	1.81	0.46
79:s2:902:G:O2'	79:s2:903:A:O4'	2.34	0.46
79:s2:952:G:H2'	79:s2:953:C:C6	2.51	0.46
79:s2:1410:C:H2'	79:s2:1411:G:C8	2.51	0.46
79:s2:1751:C:H1'	79:s2:1784:G:N2	2.31	0.46
80:cB:61:LYS:NZ	80:cB:62:ASP:H	2.13	0.46
80:cB:264:ARG:HA	80:cB:264:ARG:NE	2.31	0.46
80:cB:582:THR:OG1	80:cB:699:GLY:O	2.33	0.46
85:l5:964:A:H2'	85:l5:965:G:H4'	1.97	0.46
85:l5:966:A:OP1	85:l5:967:C:N4	2.49	0.46
85:l5:1444:G:H2'	85:l5:1445:U:O4'	2.15	0.46
85:l5:1643:A:H2'	85:l5:1644:C:H6	1.81	0.46
85:l5:2634:C:H2'	85:l5:2635:U:H6	1.81	0.46
86:LW:52:THR:O	86:LW:55:TYR:N	2.45	0.46
10:SA:184:ARG:HG3	10:SA:191:ARG:NH1	2.30	0.46
11:SB:75:GLN:CD	11:SB:78:GLU:HG3	2.40	0.46
15:SC:178:HIS:CG	15:SC:200:ARG:HD3	2.51	0.46
19:Sb:81:ARG:HE	19:Sb:84:HIS:HA	1.80	0.46
85:L5:405:U:P	44:LY:87:ARG:HH22	2.39	0.46
85:L5:505:G:C6	85:L5:654:C:N3	2.84	0.46
85:L5:714:G:H2'	85:L5:715:G:C8	2.48	0.46
85:L5:1340:C:H2'	85:L5:1341:U:H6	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1507:C:H4'	24:LC:114:ARG:O	2.16	0.46
85:L5:1580:C:H2'	85:L5:1581:G:O4'	2.15	0.46
85:L5:1915:C:OP2	35:LO:94:ARG:NH2	2.49	0.46
85:L5:2751:G:H2'	85:L5:2752:G:C8	2.49	0.46
85:L5:3637:U:O4	85:L5:3651:A:H2	1.99	0.46
85:L5:3911:C:H2'	85:L5:3912:U:C6	2.51	0.46
85:L5:4356:G:C2	85:L5:4357:G:C8	3.04	0.46
85:L5:4743:G:H2'	85:L5:4744:A:C8	2.51	0.46
20:L7:98:G:H2'	20:L7:99:G:O4'	2.16	0.46
21:L8:30:U:H2'	21:L8:31:G:H8	1.81	0.46
22:LA:6:ARG:HH12	22:LA:199:VAL:H	1.63	0.46
22:LA:65:ASP:OD1	22:LA:68:ARG:N	2.41	0.46
25:LD:51:MET:SD	25:LD:53:VAL:HB	2.56	0.46
29:LH:90:TYR:HH	29:LH:151:ILE:HG13	1.80	0.46
31:LJ:60:PHE:HE1	31:LJ:62:ILE:HG12	1.81	0.46
42:LV:128:LEU:HD23	42:LV:128:LEU:HA	1.74	0.46
50:Le:70:LEU:HD12	50:Le:71:PRO:HD2	1.97	0.46
55:Lj:25:LYS:HD2	57:Ll:51:LEU:HA	1.98	0.46
64:SR:73:LEU:HD12	64:SR:74:GLN:H	1.80	0.46
66:SF:27:ASP:OD1	66:SF:27:ASP:N	2.47	0.46
66:SF:42:LYS:HD2	66:SF:42:LYS:HA	1.67	0.46
66:SF:130:ARG:H	66:SF:136:ARG:NH2	2.05	0.46
68:SP:76:VAL:O	68:SP:95:GLY:N	2.29	0.46
69:SQ:15:ARG:HA	69:SQ:19:ALA:O	2.16	0.46
75:Sg:18:VAL:HG11	75:Sg:301:GLY:HA3	1.97	0.46
75:Sg:64:HIS:HB3	75:Sg:83:TRP:HB2	1.98	0.46
77:SZ:62:VAL:HA	77:SZ:65:TYR:CZ	2.51	0.46
79:S2:165:G:H2'	79:S2:166:A:H8	1.81	0.46
79:S2:291:G:OP1	79:S2:291:G:H8	1.98	0.46
79:S2:1589:A:N3	79:S2:1653:U:O2'	2.46	0.46
87:AT:61:A:OP2	87:AT:62:C:N4	2.42	0.46
89:Pt:50:U:O4	89:Pt:64:G:O6	2.33	0.46
6:sG:78:SER:HA	6:sG:92:ARG:HG2	1.98	0.46
8:sY:8:ARG:HA	8:sY:8:ARG:HD3	1.73	0.46
10:sA:76:VAL:HG12	10:sA:87:VAL:HB	1.98	0.46
17:sO:66:ARG:HB2	79:s2:962:A:H5"	1.98	0.46
22:lA:33:ASP:OD1	22:lA:34:PHE:N	2.45	0.46
22:lA:181:LYS:HG2	85:l5:1577:G:C5	2.51	0.46
22:lA:183:GLY:HA2	85:l5:1613:A:H5"	1.97	0.46
23:lB:300:LYS:O	23:lB:304:SER:OG	2.30	0.46
24:lC:144:ILE:O	24:lC:144:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:lC:204:ARG:NH1	85:l5:2298:U:OP1	2.48	0.46
25:lD:256:LYS:C	25:lD:256:LYS:HD2	2.41	0.46
30:lI:36:LEU:HD11	30:lI:69:ARG:HH11	1.80	0.46
34:lN:61:ILE:CG2	34:lN:131:GLU:HG2	2.46	0.46
34:lN:82:GLY:HA2	85:l5:4187:G:H4'	1.97	0.46
53:lh:99:GLU:HA	53:lh:102:LEU:HD22	1.98	0.46
55:lj:19:CYS:SG	55:lj:34:CYS:HB2	2.55	0.46
65:sD:95:GLY:HA2	65:sD:101:GLN:HE21	1.81	0.46
65:sD:124:ARG:O	65:sD:128:GLU:HG2	2.16	0.46
66:sF:40:ALA:CA	66:sF:45:TYR:CZ	2.99	0.46
67:sK:62:PHE:HD1	79:s2:1497:G:C4	2.34	0.46
71:sT:48:TYR:CE2	79:s2:1539:U:H1'	2.50	0.46
73:sc:44:ARG:HH12	73:sc:63:ARG:CB	2.24	0.46
75:sg:5:MET:HG2	75:sg:270:LEU:HD21	1.96	0.46
75:sg:122:SER:O	75:sg:129:ILE:CG1	2.64	0.46
76:sM:65:VAL:HA	76:sM:68:LEU:HG	1.97	0.46
79:s2:882:U:H1'	79:s2:905:C:N3	2.31	0.46
79:s2:1060:A:H4'	79:s2:1061:U:H5"	1.98	0.46
79:s2:1693:G:H2'	79:s2:1694:U:C6	2.51	0.46
79:s2:1801:A:H2'	79:s2:1802:C:H6	1.80	0.46
80:cB:27:HIS:CE1	80:cB:28:VAL:HG22	2.50	0.46
80:cB:396:MET:HE1	80:cB:416:VAL:HB	1.98	0.46
82:pE:37:A:C2'	82:pE:38:A:H5'	2.46	0.46
85:l5:201:C:C2	85:l5:202:C:C5	3.04	0.46
85:l5:444:G:H2'	85:l5:445:U:H6	1.79	0.46
85:l5:1217:G:N1	85:l5:1218:G:C6	2.84	0.46
85:l5:1315:C:N4	85:l5:1316:G:O6	2.49	0.46
85:l5:1416:G:H2'	85:l5:1417:C:C6	2.51	0.46
85:l5:2519:U:H1'	85:l5:2520:C:C6	2.51	0.46
85:l5:2654:C:H2'	85:l5:2655:C:H6	1.81	0.46
85:l5:4918:C:H2'	85:l5:4919:G:H8	1.81	0.46
86:LW:23:ARG:HA	86:LW:23:ARG:HE	1.80	0.46
2:SE:90:ILE:N	2:SE:99:PHE:O	2.38	0.46
3:SI:10:LYS:NZ	79:S2:370:G:O2'	2.47	0.46
3:SI:81:VAL:HA	3:SI:102:VAL:HA	1.97	0.46
10:SA:38:ILE:HD11	10:SA:150:THR:HG22	1.97	0.46
85:L5:20:U:P	21:L8:36:G:H22	2.39	0.46
85:L5:440:U:O2'	51:Lf:91:ASN:O	2.32	0.46
85:L5:652:G:H2'	85:L5:653:U:C6	2.50	0.46
85:L5:989:U:O2	85:L5:1064:G:C6	2.69	0.46
85:L5:1262:G:H2'	85:L5:1263:A:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1821:G:H2'	85:L5:1821:G:N3	2.31	0.46
85:L5:1939:A:H5'	85:L5:1940:G:O5'	2.16	0.46
85:L5:1951:G:O6	85:L5:2033:A:N6	2.49	0.46
85:L5:2007:G:H2'	85:L5:2008:U:C6	2.51	0.46
85:L5:2019:C:H2'	85:L5:2020:U:H6	1.80	0.46
85:L5:2022:C:H2'	85:L5:2023:C:O4'	2.16	0.46
85:L5:2072:C:C2	85:L5:2073:C:C5	3.04	0.46
85:L5:2404:A:H3'	85:L5:2405:G:H8	1.80	0.46
85:L5:2746:A:H3'	85:L5:2747:U:H6	1.81	0.46
85:L5:3650:C:OP1	22:LA:217:GLN:NE2	2.48	0.46
85:L5:4094:G:H2'	85:L5:4095:G:H5'	1.97	0.46
85:L5:4460:U:H2'	85:L5:4461:C:H6	1.81	0.46
21:L8:77:A:H2'	21:L8:78:G:C8	2.51	0.46
22:LA:83:HIS:O	22:LA:86:GLN:HB3	2.16	0.46
23:LB:278:THR:O	23:LB:278:THR:OG1	2.30	0.46
26:LE:118:THR:OG1	26:LE:119:GLU:OE2	2.20	0.46
28:LG:115:LEU:HD23	28:LG:116:ALA:H	1.81	0.46
32:LL:168:VAL:HA	46:La:97:ALA:HA	1.97	0.46
33:LM:63:LYS:HA	33:LM:63:LYS:HD3	1.80	0.46
43:LX:71:LEU:HD12	43:LX:71:LEU:HA	1.75	0.46
43:LX:143:ASP:OD1	43:LX:144:TYR:CG	2.64	0.46
44:LY:55:VAL:HG11	44:LY:70:VAL:HG23	1.98	0.46
51:Lf:79:GLY:O	51:Lf:81:SER:N	2.49	0.46
53:Lh:108:GLN:OE1	53:Lh:108:GLN:C	2.59	0.46
65:SD:209:SER:C	65:SD:210:ILE:HD12	2.41	0.46
68:SP:68:PRO:HD2	68:SP:71:GLU:OE1	2.16	0.46
68:SP:85:ILE:HD11	68:SP:116:LEU:HG	1.98	0.46
70:SS:108:ARG:O	70:SS:112:GLU:N	2.40	0.46
74:Sd:44:ARG:NH2	79:S2:1336:C:O3'	2.49	0.46
75:Sg:175:LYS:HB3	75:Sg:177:TRP:NE1	2.30	0.46
79:S2:89:C:H2'	79:S2:90:G:H8	1.81	0.46
79:S2:176:U:H2'	79:S2:177:G:H8	1.81	0.46
79:S2:388:U:C2	79:S2:389:A:C8	3.04	0.46
79:S2:403:G:H2'	79:S2:404:G:H8	1.80	0.46
79:S2:676:C:H2'	79:S2:677:G:O4'	2.16	0.46
79:S2:1018:U:H2'	79:S2:1019:C:C6	2.51	0.46
79:S2:1160:U:H2'	79:S2:1161:U:H6	1.81	0.46
79:S2:1729:U:O2	79:S2:1805:G:N2	2.36	0.46
87:AT:11:U:O4	87:AT:26:C:N3	2.49	0.46
88:CF:343:GLN:HB2	88:CF:439:LYS:NZ	2.30	0.46
1:cH:50:LYS:HA	79:s2:607:U:OP1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:sL:5:GLN:NE2	4:sL:10:TYR:HA	2.31	0.45
4:sL:30:LYS:HA	4:sL:30:LYS:HD2	1.64	0.45
6:sG:83:CYS:HA	79:s2:163:U:O3'	2.16	0.45
17:sO:96:LYS:HA	17:sO:130:GLU:O	2.15	0.45
20:l7:4:U:H2'	20:l7:5:A:C8	2.51	0.45
25:lD:108:ARG:HB2	25:lD:251:PRO:O	2.16	0.45
26:lE:181:LEU:O	85:l5:4883:C:N4	2.41	0.45
26:lE:226:ARG:O	26:lE:227:HIS:ND1	2.49	0.45
27:lF:247:MET:HE2	27:lF:247:MET:HB2	1.77	0.45
28:lG:251:ALA:O	28:lG:255:LYS:HG2	2.16	0.45
29:lH:51:LYS:HG3	29:lH:52:LYS:HD3	1.97	0.45
31:lJ:166:PHE:HD2	31:lJ:174:ILE:HD11	1.81	0.45
36:lP:39:MET:HB2	36:lP:43:LYS:HD3	1.97	0.45
39:lS:76:LYS:HB2	39:lS:131:GLU:CD	2.41	0.45
55:lj:16:HIS:HD2	55:lj:28:HIS:HA	1.81	0.45
63:lz:68:LEU:HD13	63:lz:90:LEU:HD22	1.98	0.45
65:sD:163:PRO:O	65:sD:167:TYR:N	2.46	0.45
66:sF:133:THR:HG23	66:sF:134:VAL:N	2.30	0.45
75:sg:233:GLY:H	75:sg:252:THR:HG21	1.81	0.45
75:sg:306:LEU:HD11	75:sg:308:ARG:NH2	2.24	0.45
76:sM:22:LEU:HD21	76:sM:88:TRP:HE3	1.81	0.45
79:s2:1103:C:H2'	79:s2:1104:G:C8	2.50	0.45
79:s2:1292:C:C2	79:s2:1293:A:C8	3.04	0.45
79:s2:1388:A:C8	79:s2:1389:C:C6	3.04	0.45
80:cB:380:GLU:HA	80:cB:383:MET:HE1	1.97	0.45
80:cB:734:LEU:HA	80:cB:738:PRO:HG3	1.98	0.45
83:ls:98:ILE:HA	83:ls:101:MET:HG3	1.98	0.45
83:ls:135:THR:HA	83:ls:138:PHE:CD2	2.51	0.45
85:l5:221:C:H2'	85:l5:222:C:C6	2.52	0.45
85:l5:2908:U:O2'	85:l5:3586:G:O6	2.34	0.45
3:SI:63:GLY:HA3	3:SI:185:ALA:O	2.16	0.45
10:SA:22:GLY:C	10:SA:24:HIS:HD1	2.17	0.45
10:SA:39:TYR:CE2	10:SA:40:LYS:HB3	2.51	0.45
11:SB:87:ILE:O	11:SB:98:THR:OG1	2.24	0.45
14:Sa:38:LYS:HD2	14:Sa:83:VAL:HG21	1.98	0.45
85:L5:478:G:H2'	85:L5:479:G:H8	1.81	0.45
85:L5:508:G:H21	46:La:85:GLN:NE2	2.13	0.45
85:L5:664:G:N2	85:L5:666:G:C6	2.84	0.45
85:L5:676:C:H2'	85:L5:677:G:C8	2.51	0.45
85:L5:1942:A:N3	85:L5:4432:C:O2'	2.41	0.45
85:L5:2283:G:H2'	85:L5:2284:G:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2289:C:N4	62:Lr:19:LYS:HG2	2.31	0.45
85:L5:2533:C:H2'	85:L5:2534:C:H6	1.81	0.45
85:L5:2877:G:H2'	85:L5:2878:G:O4'	2.15	0.45
85:L5:4263:C:H2'	85:L5:4264:G:O4'	2.16	0.45
85:L5:4578:G:H5"	23:LB:120:LYS:HD2	1.98	0.45
85:L5:4618:G:C2	85:L5:4619:U:C5	3.03	0.45
85:L5:4883:C:H2'	85:L5:4884:G:C8	2.51	0.45
85:L5:4988:U:H5	85:L5:5060:A:H3'	1.81	0.45
21:L8:120:G:H2'	21:L8:121:G:H8	1.81	0.45
23:LB:114:CYS:HB2	23:LB:165:HIS:CE1	2.51	0.45
24:LC:94:ASN:OD1	24:LC:94:ASN:N	2.45	0.45
25:LD:61:ILE:HG12	25:LD:79:TYR:CE1	2.51	0.45
26:LE:161:ARG:NH1	26:LE:273:SER:OG	2.49	0.45
26:LE:163:VAL:O	26:LE:175:VAL:HB	2.16	0.45
28:LG:165:GLU:OE2	28:LG:165:GLU:N	2.49	0.45
29:LH:165:THR:O	29:LH:165:THR:OG1	2.33	0.45
30:LI:207:ASP:OD2	30:LI:207:ASP:C	2.59	0.45
33:LM:38:VAL:HG21	33:LM:50:MET:CG	2.45	0.45
40:LT:42:ILE:HD12	40:LT:42:ILE:H	1.80	0.45
43:LX:141:ALA:HB3	43:LX:144:TYR:CD2	2.52	0.45
45:LZ:14:LEU:HB2	45:LZ:79:HIS:O	2.16	0.45
48:Lc:13:SER:HB3	48:Lc:17:ARG:NH2	2.31	0.45
57:Ll:43:HIS:CE1	57:Ll:45:ARG:HB2	2.51	0.45
66:SF:168:THR:N	66:SF:171:GLU:OE2	2.47	0.45
72:SU:55:ARG:HG2	79:S2:1446:A:H4'	1.97	0.45
73:Sc:26:GLN:HG3	73:Sc:27:CYS:SG	2.56	0.45
75:Sg:217:MET:HB3	75:Sg:219:TRP:CH2	2.51	0.45
79:S2:110:U:O2	79:S2:351:G:N2	2.44	0.45
79:S2:394:G:C2	79:S2:395:G:C8	3.04	0.45
79:S2:1134:G:H2'	79:S2:1135:C:C6	2.50	0.45
82:Et:72:C:N4	82:Et:73:G:O6	2.49	0.45
88:CF:84:LYS:HE3	88:CF:233:ASP:HB3	1.98	0.45
88:CF:250:LEU:HD23	88:CF:250:LEU:HA	1.74	0.45
83:Ls:13:TYR:OH	83:Ls:61:MET:SD	2.71	0.45
5:sX:18:ARG:HA	5:sX:21:LYS:HE3	1.96	0.45
5:sX:61:GLN:HA	5:sX:61:GLN:OE1	2.15	0.45
11:sB:148:ASN:OD1	11:sB:148:ASN:N	2.50	0.45
15:sC:99:GLY:C	15:sC:101:SER:H	2.24	0.45
16:sN:124:ARG:NH1	79:s2:677:G:OP1	2.38	0.45
16:sN:142:GLU:OE2	16:sN:144:SER:OG	2.33	0.45
17:sO:12:GLU:HA	17:sO:13:GLN:HA	1.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:sb:51:GLN:HG2	79:s2:927:C:O2'	2.16	0.45
23:lB:257:TRP:CD1	23:lB:257:TRP:C	2.94	0.45
24:lC:318:PRO:C	24:lC:320:LYS:H	2.23	0.45
24:lC:322:LEU:O	24:lC:326:LEU:N	2.36	0.45
25:lD:84:PRO:HA	25:lD:88:VAL:O	2.16	0.45
31:lJ:95:ARG:NH1	31:lJ:96:LYS:H	2.14	0.45
32:lL:146:LEU:HD21	53:lh:122:LYS:HG3	1.98	0.45
37:lQ:187:LYS:O	37:lQ:188:ASN:ND2	2.48	0.45
39:lS:175:PHE:CD2	85:l5:4765:G:C4	3.04	0.45
40:lT:71:ALA:HB3	85:l5:4313:A:H4'	1.98	0.45
49:ld:24:GLU:OE2	49:ld:85:ARG:NH2	2.49	0.45
49:ld:102:LEU:HD23	49:ld:102:LEU:HA	1.81	0.45
52:lg:63:VAL:HG23	52:lg:66:ARG:NH2	2.31	0.45
61:lp:23:ARG:O	61:lp:26:VAL:HG12	2.16	0.45
61:lp:45:THR:O	61:lp:45:THR:OG1	2.28	0.45
62:lr:32:LEU:C	62:lr:34:ALA:H	2.25	0.45
63:lz:139:THR:HA	63:lz:156:LYS:HG2	1.97	0.45
64:sR:12:ALA:HA	79:s2:1372:U:H2'	1.97	0.45
64:sR:32:LYS:CG	79:s2:1453:C:H2'	2.46	0.45
71:sT:37:VAL:C	71:sT:39:LEU:H	2.24	0.45
71:sT:114:GLU:N	71:sT:114:GLU:OE1	2.49	0.45
75:sg:8:ARG:O	75:sg:8:ARG:HD3	2.15	0.45
75:sg:38:LYS:HE2	75:sg:38:LYS:HB3	1.71	0.45
77:sZ:46:ASN:HB2	77:sZ:78:LYS:HD3	1.98	0.45
79:s2:651:U:H2'	79:s2:652:U:C6	2.51	0.45
79:s2:1474:A:N1	79:s2:1475:G:N2	2.65	0.45
79:s2:1500:G:H2'	79:s2:1501:C:C6	2.51	0.45
80:cB:161:ASP:OD1	80:cB:162:ARG:N	2.47	0.45
80:cB:255:ASP:OD1	80:cB:256:MET:N	2.50	0.45
81:aP:53:G:O2'	81:aP:54:U:H5'	2.16	0.45
83:ls:11:SER:HA	83:ls:14:PHE:HB2	1.98	0.45
85:l5:27:C:O3'	85:l5:60:G:N2	2.48	0.45
85:l5:746:A:H2'	85:l5:747:A:C8	2.51	0.45
85:l5:1194:G:H2'	85:l5:1195:G:C8	2.51	0.45
85:l5:1588:U:H2'	85:l5:1589:C:C6	2.51	0.45
85:l5:2022:C:H2'	85:l5:2023:C:O4'	2.16	0.45
85:l5:2480:G:H2'	85:l5:2481:G:H8	1.80	0.45
85:l5:2538:U:H2'	85:l5:2539:C:C6	2.51	0.45
85:l5:2659:A:N7	85:l5:2673:G:C5	2.85	0.45
85:l5:4151:G:H2'	85:l5:4152:G:C8	2.51	0.45
5:SX:4:CYS:HB3	79:S2:1161:U:OP2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:SX:68:LYS:HG3	5:SX:91:LEU:HD13	1.97	0.45
9:Se:12:VAL:O	9:Se:16:THR:HG23	2.16	0.45
10:SA:201:LEU:HD23	64:SR:85:VAL:HG21	1.97	0.45
17:SO:75:MET:HB2	17:SO:114:SER:OG	2.16	0.45
19:Sb:18:LYS:NZ	19:Sb:22:LYS:O	2.30	0.45
85:L5:137:G:H2'	85:L5:138:G:H8	1.80	0.45
85:L5:311:G:H2'	85:L5:312:G:H8	1.80	0.45
85:L5:705:G:H2'	85:L5:706:C:C6	2.51	0.45
85:L5:2011:C:H3'	85:L5:2012:A:H8	1.82	0.45
85:L5:2039:G:OP2	85:L5:2040:A:O2'	2.26	0.45
85:L5:3712:A:N7	85:L5:3713:U:H1'	2.31	0.45
85:L5:3723:A:H2'	85:L5:3724:A:H8	1.79	0.45
85:L5:4232:U:O4	60:Lo:8:ARG:NH2	2.49	0.45
85:L5:4741:C:H2'	85:L5:4950:U:H3	1.80	0.45
85:L5:5055:G:H2'	85:L5:5056:A:H8	1.82	0.45
23:LB:285:TYR:O	23:LB:363:ILE:HD11	2.16	0.45
25:LD:52:ILE:O	25:LD:62:CYS:HA	2.17	0.45
32:LL:55:ILE:HG23	32:LL:76:PHE:CE1	2.51	0.45
33:LM:131:GLN:NE2	35:LO:174:LEU:HG	2.31	0.45
41:LU:28:PRO:CA	41:LU:33:ILE:HD11	2.47	0.45
42:LV:75:LYS:HE3	42:LV:77:HIS:NE2	2.32	0.45
45:LZ:102:ARG:HD3	45:LZ:102:ARG:N	2.31	0.45
61:Lp:36:LYS:NZ	61:Lp:48:LYS:HE2	2.31	0.45
65:SD:163:PRO:HA	65:SD:166:TYR:CZ	2.51	0.45
76:SM:89:VAL:HG13	76:SM:91:LEU:H	1.81	0.45
79:S2:329:G:H2'	79:S2:330:G:H8	1.80	0.45
79:S2:1693:G:O2'	79:S2:1694:U:H3'	2.16	0.45
88:CF:281:ALA:HB2	88:CF:334:PRO:HB2	1.96	0.45
4:sL:111:VAL:HG23	4:sL:140:PHE:CB	2.47	0.45
10:sA:75:SER:OG	10:sA:119:PRO:HB3	2.16	0.45
11:sB:68:GLU:OE2	17:sO:96:LYS:CE	2.64	0.45
11:sB:171:ILE:HA	11:sB:174:ARG:HG2	1.97	0.45
17:sO:125:LYS:HA	17:sO:125:LYS:HD3	1.60	0.45
21:l8:6:C:H2'	21:l8:7:U:H6	1.81	0.45
21:l8:71:A:H2'	44:lY:50:ARG:NH1	2.32	0.45
21:l8:75:G:H2'	21:l8:76:C:H6	1.81	0.45
22:lA:83:HIS:O	22:lA:86:GLN:HG2	2.16	0.45
22:lA:181:LYS:NZ	85:l5:1577:G:O5'	2.40	0.45
24:lC:269:LYS:HB3	24:lC:269:LYS:HE3	1.75	0.45
26:lE:154:THR:HG21	26:lE:193:PHE:CD1	2.51	0.45
30:lI:8:CYS:SG	85:l5:1866:U:H1'	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:lI:116:ARG:HG2	85:l5:4195:G:OP1	2.17	0.45
35:lO:14:HIS:CE1	35:lO:119:VAL:HG23	2.52	0.45
39:lS:43:ARG:HD2	39:lS:43:ARG:HA	1.73	0.45
42:lV:21:PRO:HD2	85:l5:2847:G:H1'	1.97	0.45
43:lX:47:ARG:HD2	43:lX:47:ARG:HA	1.68	0.45
43:lX:128:ILE:HG22	57:ll:10:LYS:HE2	1.98	0.45
44:lY:25:ILE:HD12	44:lY:28:LYS:HB2	1.99	0.45
48:lc:21:VAL:O	48:lc:25:GLY:N	2.50	0.45
53:lh:57:VAL:O	53:lh:61:ILE:HG13	2.17	0.45
58:lm:79:GLU:OE2	58:lm:81:SER:OG	2.25	0.45
62:lr:6:GLN:HB2	62:lr:44:ILE:HG22	1.99	0.45
68:sP:67:ALA:HB2	68:sP:73:PRO:HB3	1.99	0.45
69:sQ:17:LYS:HA	69:sQ:126:ARG:NH1	2.31	0.45
75:sg:17:TRP:N	75:sg:36:ARG:HB2	2.30	0.45
75:sg:259:TRP:HA	75:sg:267:VAL:HG23	1.98	0.45
79:s2:464:A:OP1	80:cB:50:ARG:NH1	2.49	0.45
79:s2:1112:U:O2	79:s2:1121:G:O6	2.34	0.45
80:cB:296:PRO:O	80:cB:300:VAL:HG23	2.16	0.45
80:cB:858:LEU:HD23	80:cB:858:LEU:H	1.81	0.45
84:lt:104:ILE:HB	84:lt:106:PHE:CE2	2.51	0.45
85:l5:302:C:H2'	85:l5:303:C:H6	1.81	0.45
85:l5:690:C:H2'	85:l5:691:C:H6	1.81	0.45
85:l5:1273:G:O2'	85:l5:1274:A:H5'	2.16	0.45
85:l5:2715:G:H2'	85:l5:2716:C:C6	2.51	0.45
85:l5:2784:C:H2'	85:l5:2785:C:H6	1.81	0.45
85:l5:4177:C:H2'	85:l5:4178:A:H8	1.82	0.45
85:l5:4600:G:O2'	85:l5:4601:U:P	2.75	0.45
85:l5:4708:A:C2	85:l5:4709:U:H5'	2.52	0.45
86:LW:82:ILE:HD13	6:SG:131:ARG:HB2	1.98	0.45
3:SI:72:CYS:HG	3:SI:112:TRP:CG	2.34	0.45
4:SL:17:PHE:CE2	79:S2:222:U:H5"	2.52	0.45
6:SG:183:ARG:NH2	79:S2:317:C:OP2	2.46	0.45
7:SJ:52:LYS:HA	7:SJ:55:LYS:HG2	1.97	0.45
7:SJ:72:PHE:C	7:SJ:72:PHE:CD1	2.94	0.45
7:SJ:75:ASN:HA	7:SJ:78:LEU:HB2	1.98	0.45
10:SA:85:ARG:O	10:SA:89:LYS:HG3	2.15	0.45
10:SA:120:ARG:HD3	15:SC:266:TYR:HB3	1.99	0.45
12:SH:98:ARG:HG3	12:SH:125:VAL:HG13	1.97	0.45
13:SV:3:ASN:HA	15:SC:173:LYS:HG3	1.99	0.45
16:SN:20:ARG:HG2	16:SN:65:PHE:CE1	2.51	0.45
85:L5:272:U:H2'	85:L5:273:U:H6	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1687:U:H2'	85:L5:1688:G:C8	2.52	0.45
85:L5:1775:A:H3'	85:L5:1776:A:H8	1.81	0.45
85:L5:1876:U:O3'	27:LF:103:PRO:HD3	2.17	0.45
85:L5:2311:C:H2'	85:L5:2312:U:C6	2.52	0.45
85:L5:2691:U:H2'	85:L5:2692:U:C6	2.50	0.45
85:L5:2804:C:C2	85:L5:2805:C:C5	3.04	0.45
85:L5:2847:G:H3'	85:L5:2848:G:H8	1.79	0.45
85:L5:3606:U:H2'	85:L5:3607:U:H6	1.79	0.45
85:L5:3665:G:H2'	85:L5:3666:C:C6	2.51	0.45
85:L5:3946:G:H2'	85:L5:3947:A:H8	1.81	0.45
85:L5:4071:U:H2'	85:L5:4072:C:C6	2.51	0.45
85:L5:4093:G:N2	85:L5:4114:C:C4	2.85	0.45
85:L5:4974:C:H1'	85:L5:4985:U:O2	2.16	0.45
22:LA:54:ARG:HD3	22:LA:54:ARG:O	2.17	0.45
23:LB:396:ARG:NH1	23:LB:400:GLU:OE1	2.49	0.45
25:LD:52:ILE:HD13	25:LD:147:ASP:CG	2.40	0.45
26:LE:192:LYS:O	51:Lf:107:PRO:HA	2.16	0.45
27:LF:71:MET:HE2	27:LF:71:MET:HA	1.97	0.45
28:LG:46:GLN:OE1	28:LG:49:ARG:NH2	2.44	0.45
33:LM:10:GLY:HA2	33:LM:64:PHE:CE2	2.51	0.45
36:LP:112:LEU:HB3	36:LP:150:LEU:HD22	1.97	0.45
38:LR:92:LYS:HE3	38:LR:96:MET:HE1	1.97	0.45
38:LR:104:ARG:HA	38:LR:107:ARG:NH1	2.31	0.45
45:LZ:8:GLY:O	45:LZ:86:SER:OG	2.24	0.45
45:LZ:75:TYR:H	45:LZ:75:TYR:HD2	1.64	0.45
50:Le:85:LEU:HD12	50:Le:85:LEU:O	2.17	0.45
52:Lg:64:LEU:HD23	52:Lg:64:LEU:HA	1.80	0.45
57:Ll:26:TRP:H	57:Ll:26:TRP:CD1	2.34	0.45
65:SD:42:THR:HG22	65:SD:44:THR:HG22	1.97	0.45
67:SK:92:ALA:HA	67:SK:95:ARG:NH1	2.31	0.45
71:ST:41:LYS:HD2	79:S2:1627:C:H5"	1.98	0.45
72:SU:72:GLU:OE1	79:S2:1490:G:N2	2.49	0.45
79:S2:71:G:H3'	79:S2:72:C:H4'	1.99	0.45
79:S2:878:G:C2	79:S2:909:G:C2	3.04	0.45
79:S2:1386:A:H2'	79:S2:1387:G:O4'	2.15	0.45
79:S2:1685:U:C4	79:S2:1686:G:N7	2.84	0.45
88:CF:208:MET:SD	88:CF:210:TRP:CE2	3.10	0.45
89:Pt:27:U:H2'	89:Pt:28:U:C6	2.51	0.45
1:cH:108:ASP:O	1:cH:114:ALA:HB2	2.15	0.45
3:sI:71:CYS:SG	79:s2:222:U:H1'	2.57	0.45
3:sI:79:ILE:CD1	3:sI:170:LYS:HD2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:sI:130:THR:N	3:sI:131:PRO:HD2	2.32	0.45
3:sI:177:SER:HB3	3:sI:186:ASP:HB2	1.98	0.45
6:sG:44:GLU:HG2	6:sG:45:TRP:CD1	2.51	0.45
9:se:32:ALA:HB2	79:s2:525:A:H5"	1.97	0.45
11:sB:151:ARG:HE	64:sR:133:GLY:N	2.13	0.45
12:sH:72:PHE:O	12:sH:76:GLN:N	2.49	0.45
12:sH:133:LEU:CD2	12:sH:173:PHE:CD1	3.00	0.45
12:sH:133:LEU:HD23	12:sH:173:PHE:CD1	2.51	0.45
17:sO:34:PHE:CD1	17:sO:98:ARG:HG2	2.50	0.45
21:l8:64:U:C2	21:l8:65:A:C8	3.05	0.45
22:lA:30:ARG:HD2	22:lA:63:PHE:CE2	2.51	0.45
22:lA:30:ARG:HG3	22:lA:36:GLU:OE2	2.15	0.45
39:lS:51:LEU:HD23	39:lS:51:LEU:HA	1.81	0.45
41:lU:27:HIS:O	41:lU:30:GLU:OE2	2.34	0.45
49:ld:23:ARG:NH1	49:ld:57:MET:SD	2.89	0.45
64:sR:13:ALA:H	64:sR:14:ARG:HH12	1.62	0.45
64:sR:57:LEU:HD22	64:sR:66:VAL:HG11	1.98	0.45
68:sP:111:MET:CG	70:sS:117:ILE:HD11	2.46	0.45
75:sg:8:ARG:N	75:sg:309:VAL:O	2.49	0.45
79:s2:508:A:H3'	79:s2:509:G:C8	2.52	0.45
79:s2:647:U:H2'	79:s2:648:A:C8	2.47	0.45
79:s2:1373:C:C2'	79:s2:1374:C:H6	2.29	0.45
79:s2:1438:A:H2'	79:s2:1439:A:C8	2.51	0.45
79:s2:1706:G:H2'	79:s2:1707:U:H6	1.82	0.45
79:s2:1836:G:OP2	79:s2:1839:U:O2'	2.33	0.45
80:cB:744:ILE:HA	80:cB:789:PRO:HA	1.98	0.45
80:cB:778:GLY:O	80:cB:779:THR:OG1	2.28	0.45
82:pE:8:U:OP1	82:pE:49:C:H5'	2.17	0.45
83:ls:58:ASN:OD1	83:ls:62:ARG:NH2	2.50	0.45
85:l5:679:C:H2'	85:l5:680:G:C8	2.49	0.45
85:l5:980:U:H2'	85:l5:981:C:C6	2.52	0.45
85:l5:1095:A:H2'	85:l5:1096:C:H6	1.81	0.45
85:l5:2033:A:N3	85:l5:2034:G:C8	2.85	0.45
85:l5:2726:G:H2'	85:l5:2727:C:C6	2.52	0.45
85:l5:3967:G:H1	85:l5:4055:U:H3	0.65	0.45
85:l5:4406:U:C2	85:l5:4407:G:C8	3.04	0.45
85:l5:4460:U:H2'	85:l5:4461:C:C6	2.51	0.45
85:l5:4704:C:H2'	85:l5:4705:A:C8	2.51	0.45
11:SB:92:GLN:N	11:SB:92:GLN:CD	2.73	0.45
11:SB:229:MET:O	11:SB:233:GLY:N	2.32	0.45
13:SV:12:TYR:CB	15:SC:79:GLU:HB3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:Sb:73:LEU:HD23	19:Sb:74:THR:H	1.79	0.45
85:L5:1326:A:H2'	85:L5:1327:C:C6	2.52	0.45
85:L5:1624:G:C5	85:L5:1643:A:C8	3.04	0.45
85:L5:1673:U:H2'	85:L5:1674:C:C6	2.52	0.45
85:L5:1681:G:H2'	85:L5:1682:A:C8	2.51	0.45
85:L5:2476:G:H2'	85:L5:2477:A:C8	2.50	0.45
85:L5:2500:U:H2'	85:L5:2501:C:C6	2.51	0.45
85:L5:2590:G:N2	85:L5:2754:G:N3	2.65	0.45
85:L5:2750:G:C4	85:L5:2751:G:C8	3.04	0.45
85:L5:3835:C:H2'	85:L5:3836:A:H8	1.81	0.45
85:L5:4303:C:C2	85:L5:4305:G:C2	3.04	0.45
85:L5:4320:G:H2'	85:L5:4321:U:C6	2.52	0.45
21:L8:83:C:H42	44:LY:50:ARG:NH1	2.14	0.45
29:LH:2:LYS:HE3	29:LH:63:ASN:HB3	1.98	0.45
30:LI:48:LEU:CG	30:LI:142:LEU:HA	2.40	0.45
33:LM:108:ASP:HB3	35:LO:199:HIS:NE2	2.31	0.45
34:LN:42:PRO:HG3	34:LN:53:TYR:CE2	2.51	0.45
35:LO:157:GLU:OE1	35:LO:160:ARG:NH2	2.39	0.45
37:LQ:28:LEU:HA	37:LQ:31:LEU:HB3	1.97	0.45
38:LR:173:ARG:HD2	79:S2:909:G:C4	2.52	0.45
43:LX:141:ALA:HB3	43:LX:144:TYR:CE2	2.51	0.45
48:Lc:60:ILE:HA	48:Lc:63:TYR:HB2	1.98	0.45
50:Le:108:ARG:HH11	50:Le:128:ARG:HG2	1.82	0.45
66:SF:68:ILE:HA	66:SF:71:ARG:HB2	1.98	0.45
66:SF:143:PRO:HD3	73:Sc:56:LEU:CD1	2.47	0.45
67:SK:58:VAL:O	67:SK:59:LYS:HD2	2.17	0.45
72:SU:56:MET:HB2	72:SU:86:LYS:HB3	1.97	0.45
75:Sg:92:LEU:H	75:Sg:92:LEU:HD12	1.81	0.45
79:S2:28:U:H2'	79:S2:29:G:H8	1.80	0.45
79:S2:405:G:H2'	79:S2:406:U:C6	2.51	0.45
79:S2:746:C:H2'	79:S2:747:U:C6	2.51	0.45
79:S2:816:A:H2'	79:S2:817:G:O4'	2.16	0.45
79:S2:1311:C:H2'	79:S2:1312:G:O4'	2.17	0.45
79:S2:1726:G:C6	79:S2:1809:A:C6	3.04	0.45
6:sG:134:GLY:O	79:s2:65:C:N4	2.50	0.45
7:sJ:93:LYS:HD3	7:sJ:93:LYS:HA	1.78	0.45
10:sA:37:TYR:CD1	10:sA:162:PRO:HG3	2.51	0.45
10:sA:49:ILE:HG21	10:sA:162:PRO:O	2.17	0.45
10:sA:180:ARG:HB2	10:sA:195:TRP:CE3	2.52	0.45
12:sH:70:LYS:HZ3	12:sH:73:GLN:HB2	1.80	0.45
12:sH:138:GLU:CD	16:sN:19:ARG:HH21	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:sO:52:THR:CG2	79:s2:952:G:H21	2.30	0.45
17:sO:139:SER:HB3	79:s2:983:A:H2	1.81	0.45
20:l7:60:G:H2'	20:l7:61:G:H8	1.81	0.45
20:l7:75:G:N2	20:l7:100:A:OP2	2.37	0.45
21:l8:66:A:H2'	21:l8:67:U:C6	2.51	0.45
27:lF:53:LYS:HZ1	27:lF:189:ASP:CG	2.20	0.45
29:lH:41:ILE:HG22	29:lH:43:VAL:HG13	1.97	0.45
31:lJ:174:ILE:HG22	31:lJ:175:LEU:H	1.82	0.45
32:lL:146:LEU:HD11	53:lh:122:LYS:HG3	1.98	0.45
34:lN:21:PHE:O	34:lN:25:VAL:HG12	2.17	0.45
37:lQ:148:VAL:HG12	85:l5:1346:C:OP1	2.16	0.45
41:lU:82:TYR:CE2	85:l5:2631:U:C2	3.03	0.45
45:lZ:10:VAL:O	45:lZ:83:THR:HB	2.16	0.45
52:lg:50:PRO:HD3	61:lp:61:MET:SD	2.57	0.45
53:lh:103:LYS:HB3	53:lh:107:GLN:HG2	1.98	0.45
54:li:58:MET:HE3	54:li:94:LEU:HG	1.98	0.45
56:lk:3:ARG:NH2	85:l5:2643:G:O2'	2.49	0.45
59:ln:18:ARG:O	59:ln:22:GLN:HG3	2.17	0.45
68:sP:110:GLU:OE1	70:sS:116:LYS:NZ	2.38	0.45
71:sT:37:VAL:HG21	71:sT:52:TRP:CZ2	2.51	0.45
74:sd:12:ARG:O	79:s2:1556:A:N6	2.49	0.45
75:sg:152:SER:H	75:sg:169:GLY:HA2	1.81	0.45
78:sf:135:HIS:CE1	79:s2:1308:U:H1'	2.52	0.45
79:s2:692:G:H2'	79:s2:739:C:H1'	1.98	0.45
79:s2:929:G:N2	79:s2:1104:G:O2'	2.49	0.45
79:s2:1083:A:N7	79:s2:1841:C:O2'	2.48	0.45
79:s2:1189:A:H2'	79:s2:1190:A:H8	1.80	0.45
79:s2:1201:U:H2'	79:s2:1202:U:H6	1.82	0.45
79:s2:1240:A:H1'	79:s2:1267:C:O2'	2.17	0.45
79:s2:1461:G:H21	79:s2:1465:A:H62	1.64	0.45
81:aP:4:U:H2'	81:aP:5:C:C6	2.52	0.45
83:ls:38:LYS:HZ2	85:l5:1971:C:C3'	2.29	0.45
85:l5:37:U:H2'	85:l5:38:A:O4'	2.17	0.45
85:l5:180:C:H2'	85:l5:181:C:H4'	1.98	0.45
85:l5:324:A:H2'	85:l5:325:U:C6	2.52	0.45
85:l5:751:G:H2'	85:l5:752:G:O4'	2.16	0.45
85:l5:1048:G:H2'	85:l5:1049:C:C6	2.51	0.45
85:l5:2608:G:H2'	85:l5:2609:G:H8	1.82	0.45
85:l5:4629:U:C2	85:l5:4630:G:C8	3.05	0.45
8:SY:54:VAL:HG13	8:SY:76:TYR:HB2	1.98	0.45
10:SA:213:GLU:HB2	64:SR:84:TYR:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:SB:186:ASN:O	11:SB:190:PRO:HD3	2.16	0.45
12:SH:135:PHE:CD2	12:SH:135:PHE:C	2.93	0.45
14:Sa:26:CYS:SG	14:Sa:28:ARG:HB3	2.56	0.45
15:SC:60:TRP:HH2	15:SC:70:VAL:HG13	1.81	0.45
15:SC:81:ILE:HG13	15:SC:86:LEU:HB2	1.98	0.45
85:L5:27:C:C2	85:L5:56:A:N1	2.85	0.45
85:L5:358:C:H2'	85:L5:359:A:C8	2.52	0.45
85:L5:644:G:H2'	85:L5:645:G:O4'	2.16	0.45
85:L5:1291:G:H2'	85:L5:1292:C:H6	1.80	0.45
85:L5:1621:A:H2'	85:L5:1622:U:H6	1.82	0.45
85:L5:1866:U:H1'	30:LI:8:CYS:SG	2.56	0.45
85:L5:2273:G:H2'	85:L5:2274:C:H6	1.82	0.45
85:L5:2422:C:H2'	85:L5:2423:A:C8	2.52	0.45
85:L5:2676:A:OP2	85:L5:2676:A:H8	1.99	0.45
85:L5:3710:G:H21	85:L5:3713:U:H3	1.64	0.45
85:L5:4139:G:H1'	85:L5:4146:G:N1	2.32	0.45
85:L5:4945:G:N1	51:Lf:3:GLY:O	2.36	0.45
21:L8:52:A:OP1	57:Ll:21:ARG:NH1	2.46	0.45
21:L8:94:G:N2	55:Lj:83:THR:O	2.49	0.45
21:L8:132:G:C2	21:L8:133:G:C8	3.04	0.45
23:LB:166:THR:O	23:LB:168:MET:HE2	2.16	0.45
23:LB:315:ASN:HD22	23:LB:325:GLU:CB	2.29	0.45
24:LC:164:THR:O	24:LC:168:VAL:HG12	2.17	0.45
25:LD:91:GLY:O	25:LD:94:ASN:ND2	2.50	0.45
27:LF:180:GLY:HA2	27:LF:185:ILE:HG22	1.99	0.45
35:LO:197:LYS:NZ	35:LO:203:VAL:O	2.50	0.45
37:LQ:175:GLU:HA	46:La:51:GLY:O	2.17	0.45
40:LT:14:MET:HE3	40:LT:14:MET:HB2	1.82	0.45
41:LU:20:LYS:H	41:LU:73:THR:HG22	1.82	0.45
43:LX:82:THR:HA	43:LX:87:MET:HE2	1.93	0.45
52:Lg:85:LYS:HG3	52:Lg:88:ARG:NH2	2.32	0.45
68:SP:32:GLN:N	68:SP:32:GLN:OE1	2.45	0.45
68:SP:60:LEU:O	68:SP:64:LYS:HG3	2.17	0.45
68:SP:98:ASN:OD1	68:SP:101:THR:N	2.32	0.45
69:SQ:102:GLU:HA	69:SQ:105:LYS:HB3	1.99	0.45
70:SS:47:LYS:HA	70:SS:47:LYS:HD2	1.83	0.45
71:ST:56:ARG:NH2	79:S2:1541:G:OP2	2.48	0.45
78:Sf:125:GLU:OE2	78:Sf:143:LYS:NZ	2.48	0.45
79:S2:118:C:H1'	79:S2:445:A:C5	2.51	0.45
79:S2:673:G:H2'	79:S2:674:C:C6	2.52	0.45
79:S2:1671:G:H2'	79:S2:1672:U:H6	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1788:A:H2'	79:S2:1789:G:O4'	2.17	0.45
79:S2:1828:C:C2	79:S2:1829:G:C8	3.05	0.45
82:Et:65:G:O2'	82:Et:66:U:H5'	2.17	0.45
88:CF:188:VAL:HG13	88:CF:190:PHE:CE1	2.52	0.45
88:CF:272:LEU:HB3	88:CF:302:ALA:HB3	1.97	0.45
7:sJ:3:VAL:HG12	7:sJ:5:ARG:H	1.82	0.45
7:sJ:86:VAL:HG11	7:sJ:105:PHE:CD1	2.52	0.45
10:sA:27:GLY:HA3	10:sA:28:THR:HA	1.75	0.45
10:sA:112:ILE:HD11	79:s2:1350:U:H1'	1.98	0.45
11:sB:93:GLY:HA2	28:lG:264:LYS:HA	1.97	0.45
12:sH:143:ARG:HB3	12:sH:145:ARG:NH2	2.32	0.45
12:sH:163:GLN:O	12:sH:167:GLU:HB2	2.17	0.45
18:sW:53:ILE:C	18:sW:53:ILE:HD12	2.42	0.45
23:lB:285:TYR:CE1	23:lB:334:LYS:HB3	2.52	0.45
26:lE:176:THR:HB	26:lE:186:LEU:HD13	1.99	0.45
34:lN:36:LEU:HD21	34:lN:109:HIS:CG	2.51	0.45
39:lS:147:ASP:OD1	39:lS:147:ASP:C	2.59	0.45
45:lZ:103:ASP:OD1	45:lZ:103:ASP:C	2.60	0.45
46:la:78:LEU:HD11	46:la:124:VAL:HG11	1.99	0.45
56:lk:47:ILE:CD1	56:lk:53:ALA:HB2	2.41	0.45
62:lr:105:ASP:OD1	62:lr:105:ASP:C	2.58	0.45
64:sR:46:LEU:HD22	79:s2:1370:A:C6	2.52	0.45
68:sP:28:MET:HE1	68:sP:36:LEU:CD1	2.45	0.45
68:sP:93:MET:HE2	68:sP:93:MET:HA	1.99	0.45
68:sP:129:GLY:N	79:s2:1237:C:O2'	2.48	0.45
76:sM:68:LEU:C	76:sM:68:LEU:HD12	2.42	0.45
78:sf:125:GLU:OE2	78:sf:126:CYS:HB3	2.17	0.45
79:s2:1103:C:H2'	79:s2:1104:G:H8	1.81	0.45
79:s2:1358:U:C6	79:s2:1358:U:OP2	2.69	0.45
79:s2:1534:C:H5"	79:s2:1536:G:O4'	2.16	0.45
79:s2:1560:U:H2'	79:s2:1561:A:H8	1.81	0.45
79:s2:1617:G:N2	79:s2:1619:A:H3'	2.32	0.45
80:cB:336:LEU:O	80:cB:340:MET:HG2	2.16	0.45
80:cB:381:ALA:O	80:cB:385:ILE:HG12	2.16	0.45
80:cB:561:LEU:HD22	80:cB:570:ILE:HD13	1.98	0.45
85:l5:493:G:C6	85:l5:494:U:C4	3.04	0.45
85:l5:1725:U:H2'	85:l5:1726:U:H6	1.80	0.45
85:l5:1824:G:H2'	85:l5:1825:A:H8	1.80	0.45
85:l5:2637:U:HO2'	85:l5:2718:U:HO2'	1.63	0.45
85:l5:2683:C:H2'	85:l5:2684:C:H6	1.81	0.45
85:l5:4178:A:H2'	85:l5:4179:G:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4990:C:H5”	85:l5:4991:U:H5”	1.99	0.45
85:l5:4991:U:H2’	85:l5:4992:G:C8	2.52	0.45
86:LW:20:ARG:HG3	86:LW:21:TYR:H	1.80	0.45
86:LW:97:LYS:O	86:LW:99:GLU:N	2.48	0.45
3:SI:110:ARG:NE	3:SI:121:LEU:O	2.49	0.45
10:SA:155:ARG:O	13:SV:63:GLY:HA2	2.17	0.45
11:SB:184:VAL:O	11:SB:188:LEU:HB2	2.17	0.45
16:SN:57:SER:OG	16:SN:58:HIS:ND1	2.42	0.45
16:SN:129:TYR:HB3	16:SN:135:LEU:HD23	1.98	0.45
18:SW:20:ARG:NH2	79:S2:1096:G:OP1	2.42	0.45
85:L5:86:U:H2’	85:L5:87:A:C8	2.52	0.45
85:L5:130:C:N4	85:L5:139:G:O6	2.49	0.45
85:L5:152:U:O3’	34:LN:56:LYS:NZ	2.42	0.45
85:L5:300:A:H2’	85:L5:301:G:C8	2.46	0.45
85:L5:309:C:H5”	85:L5:310:G:H5’	1.98	0.45
85:L5:957:G:C2	85:L5:1283:G:H2’	2.52	0.45
85:L5:1398:A:OP1	46:La:136:LYS:NZ	2.50	0.45
85:L5:2526:C:OP2	38:LR:38:ARG:N	2.38	0.45
85:L5:3729:U:H2’	85:L5:3730:U:C6	2.51	0.45
85:L5:4286:C:H2’	85:L5:4287:G:H8	1.82	0.45
85:L5:4291:G:H4’	85:L5:4292:A:H5”	1.98	0.45
85:L5:4538:G:H2’	85:L5:4539:U:C6	2.51	0.45
85:L5:4759:C:OP2	35:LO:171:LYS:NZ	2.39	0.45
22:LA:28:ARG:HD2	22:LA:123:ARG:HG3	1.97	0.45
24:LC:335:MET:HE1	27:LF:58:HIS:CG	2.51	0.45
26:LE:254:ASP:HA	26:LE:257:ILE:HG22	1.99	0.45
28:LG:95:LEU:HD23	28:LG:95:LEU:O	2.16	0.45
28:LG:100:HIS:ND1	28:LG:103:ARG:HD2	2.32	0.45
30:LI:51:HIS:CD2	30:LI:168:SER:HB2	2.51	0.45
34:LN:159:ARG:HB3	34:LN:164:LEU:HB2	1.98	0.45
52:Lg:93:ARG:O	52:Lg:97:ILE:HG12	2.17	0.45
64:SR:26:ASN:HB2	64:SR:58:MET:HE1	1.98	0.45
64:SR:62:GLN:N	64:SR:62:GLN:OE1	2.46	0.45
65:SD:24:PHE:HE1	67:SK:68:TYR:CD1	2.34	0.45
66:SF:60:ARG:CD	79:S2:1679:A:H2’	2.47	0.45
68:SP:110:GLU:O	70:SS:117:ILE:HG21	2.17	0.45
69:SQ:26:LYS:HE3	69:SQ:26:LYS:HB3	1.70	0.45
70:SS:10:GLN:NE2	70:SS:13:LEU:HG	2.31	0.45
71:ST:27:LYS:HG3	71:ST:110:LEU:HD22	1.99	0.45
71:ST:105:GLN:HE22	79:S2:1564:C:P	2.40	0.45
72:SU:38:ASP:N	72:SU:41:ARG:NH2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:Sg:194:TYR:H	75:Sg:194:TYR:HD1	1.63	0.45
77:SZ:92:LEU:HD13	77:SZ:99:LEU:CD1	2.47	0.45
79:S2:300:U:O2'	79:S2:301:A:H5'	2.17	0.45
79:S2:806:U:H2'	79:S2:807:G:H8	1.81	0.45
79:S2:1657:G:H2'	79:S2:1658:G:H8	1.81	0.45
79:S2:1758:G:N2	79:S2:1773:C:O4'	2.50	0.45
79:S2:1806:A:H2'	79:S2:1807:C:H6	1.82	0.45
63:Lz:34:LEU:HD21	63:Lz:186:ALA:HB2	1.98	0.45
83:Ls:94:ASP:OD1	83:Ls:97:GLU:HB3	2.17	0.45
2:sE:85:GLY:O	2:sE:101:LEU:HD22	2.17	0.45
2:sE:114:ILE:HD12	2:sE:118:GLU:HG2	1.99	0.45
2:sE:159:THR:HG21	2:sE:227:VAL:O	2.17	0.45
3:sI:105:ASP:OD1	3:sI:105:ASP:C	2.59	0.45
8:sY:63:HIS:HE1	8:sY:70:THR:HG22	1.82	0.45
12:sH:116:ARG:NH1	12:sH:121:THR:HB	2.31	0.45
12:sH:125:VAL:O	12:sH:129:ILE:N	2.46	0.45
12:sH:153:LEU:C	12:sH:153:LEU:HD12	2.41	0.45
20:l7:64:G:H2'	20:l7:65:G:C8	2.52	0.45
21:l8:5:U:H2'	21:l8:6:C:C6	2.51	0.45
24:lC:289:LEU:HD11	37:lQ:31:LEU:HB2	1.98	0.45
26:lE:228:GLN:NE2	85:l5:453:G:OP1	2.49	0.45
30:lI:35:ASP:O	30:lI:36:LEU:HD23	2.17	0.45
31:lJ:66:GLU:HA	60:lo:103:VAL:HG22	1.99	0.45
33:lM:24:LEU:HD12	33:lM:24:LEU:HA	1.85	0.45
34:lN:28:TRP:NE1	34:lN:32:GLN:HE21	2.14	0.45
47:lb:102:PRO:HB2	85:l5:1707:C:N3	2.32	0.45
48:lc:50:ASN:HB3	48:lc:76:GLY:O	2.17	0.45
50:le:35:TRP:CZ2	50:le:56:PRO:HD2	2.51	0.45
55:lj:21:ARG:NH2	55:lj:38:GLY:O	2.50	0.45
59:ln:11:ARG:NH2	79:s2:1844:U:OP1	2.48	0.45
66:sF:188:TYR:CE1	66:sF:192:LYS:HE2	2.51	0.45
69:sQ:110:ASP:O	69:sQ:114:GLN:OE1	2.34	0.45
70:sS:44:VAL:O	70:sS:48:ALA:N	2.49	0.45
73:sc:20:ARG:HH21	79:s2:1679:A:H5"	1.80	0.45
74:sd:2:GLY:HA2	74:sd:3:HIS:HA	1.79	0.45
78:sf:107:LYS:O	78:sf:115:SER:OG	2.34	0.45
79:s2:160:U:O2'	79:s2:161:U:H3'	2.16	0.45
79:s2:198:U:H2'	79:s2:199:C:H2'	1.98	0.45
79:s2:1301:A:O2'	79:s2:1303:C:OP1	2.25	0.45
80:cB:81:LEU:HD23	80:cB:98:PHE:CD1	2.52	0.45
84:lt:138:SER:HA	84:lt:148:PRO:CG	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:426:A:H2'	85:l5:427:A:C8	2.52	0.45
85:l5:466:A:H2'	85:l5:467:U:C6	2.52	0.45
85:l5:742:G:H2'	85:l5:743:G:H8	1.82	0.45
85:l5:2500:U:H2'	85:l5:2501:C:H6	1.81	0.45
85:l5:3648:A:H1'	85:l5:3785:A:N6	2.32	0.45
86:LW:12:LYS:O	23:LB:378:ARG:NH2	2.49	0.45
86:LW:23:ARG:HH21	42:LV:99:GLU:HG2	1.82	0.45
2:SE:89:VAL:HG11	2:SE:119:ALA:HB1	1.99	0.45
4:SL:55:TYR:CD2	4:SL:115:PRO:HG2	2.51	0.45
5:SX:125:VAL:O	5:SX:126:ALA:C	2.59	0.45
85:L5:697:G:H2'	85:L5:698:G:C8	2.51	0.45
85:L5:1795:A:N3	20:L7:79:U:O2'	2.49	0.45
85:L5:2306:G:OP1	50:Le:128:ARG:NH1	2.50	0.45
85:L5:2610:G:H2'	85:L5:2611:A:C8	2.51	0.45
85:L5:2621:A:H2'	85:L5:2622:G:H8	1.80	0.45
85:L5:2638:G:H1	85:L5:2718:U:H2'	1.81	0.45
85:L5:2732:G:H2'	85:L5:2733:C:H6	1.82	0.45
85:L5:2779:C:H2'	85:L5:2780:C:C6	2.52	0.45
85:L5:3710:G:N2	85:L5:3713:U:H3	2.14	0.45
85:L5:4228:G:C2	85:L5:4373:G:C4	3.05	0.45
85:L5:4246:G:H2'	85:L5:4247:G:H8	1.81	0.45
85:L5:4300:U:H2'	85:L5:4301:U:C6	2.52	0.45
85:L5:4313:A:H4'	40:LT:71:ALA:HB3	1.98	0.45
85:L5:4314:C:C2	85:L5:4315:A:C8	3.04	0.45
20:L7:17:C:OP1	31:LJ:156:ARG:NH2	2.43	0.45
20:L7:43:U:C2	20:L7:44:C:C6	3.04	0.45
21:L8:155:C:OP1	28:LG:89:ARG:HD2	2.16	0.45
22:LA:83:HIS:HB3	61:Lp:64:VAL:HG22	1.97	0.45
27:LF:237:GLU:HB2	39:LS:38:VAL:HG22	1.99	0.45
30:LI:3:ARG:NH1	30:LI:63:GLU:OE2	2.49	0.45
32:LL:139:SER:OG	32:LL:142:GLU:HB3	2.17	0.45
33:LM:24:LEU:O	33:LM:43:THR:HG21	2.17	0.45
36:LP:4:TYR:CE2	36:LP:16:LYS:HB3	2.52	0.45
43:LX:52:LEU:H	43:LX:52:LEU:CD2	2.29	0.45
44:LY:69:LYS:H	44:LY:83:GLU:HG3	1.81	0.45
44:LY:77:LYS:HB2	44:LY:79:VAL:HG22	1.99	0.45
45:LZ:87:VAL:HG12	45:LZ:127:ASN:HD22	1.82	0.45
47:Lb:117:ARG:O	47:Lb:118:LEU:HG	2.17	0.45
61:Lp:76:ALA:HA	61:Lp:79:VAL:HG22	1.99	0.45
68:SP:56:LEU:HD23	68:SP:83:MET:HE1	1.98	0.45
68:SP:123:TYR:OH	70:SS:124:ARG:NE	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:SQ:102:GLU:O	69:SQ:106:LYS:N	2.44	0.45
69:SQ:138:ARG:O	69:SQ:140:ARG:NH1	2.50	0.45
70:SS:92:ASP:OD2	70:SS:92:ASP:C	2.60	0.45
71:ST:127:GLY:O	71:ST:131:LEU:HD23	2.17	0.45
74:Sd:22:ARG:HG2	74:Sd:38:MET:HE1	1.98	0.45
75:Sg:109:LEU:N	75:Sg:123:GLY:O	2.50	0.45
79:S2:354:U:H2'	79:S2:355:G:H8	1.82	0.45
79:S2:525:A:H2'	79:S2:526:A:H8	1.82	0.45
79:S2:1135:C:H2'	79:S2:1136:U:C6	2.52	0.45
79:S2:1284:A:H4'	79:S2:1285:G:H3'	1.97	0.45
79:S2:1320:G:H3'	79:S2:1321:G:H8	1.81	0.45
79:S2:1564:C:H2'	79:S2:1565:C:H6	1.81	0.45
79:S2:1752:C:N3	79:S2:1779:G:N1	2.50	0.45
82:Et:4:C:C2	82:Et:5:G:N7	2.85	0.45
88:CF:20:LYS:HD3	88:CF:20:LYS:H	1.82	0.45
83:Ls:174:LEU:O	83:Ls:178:LEU:HG	2.16	0.45
1:cH:77:VAL:HA	1:cH:80:VAL:HG23	1.99	0.45
3:sI:70:GLU:OE2	3:sI:112:TRP:NE1	2.50	0.45
4:sL:85:THR:HA	4:sL:112:HIS:HA	1.99	0.45
4:sL:124:ASP:OD1	4:sL:124:ASP:N	2.50	0.45
5:sX:48:LYS:HG3	79:s2:483:C:H5"	1.99	0.45
6:sG:188:LYS:HZ2	6:sG:191:ARG:HB2	1.81	0.45
7:sJ:6:SER:OG	79:s2:828:G:OP1	2.31	0.45
12:sH:39:GLN:N	12:sH:39:GLN:OE1	2.50	0.45
19:sb:22:LYS:HA	79:s2:921:G:C6	2.52	0.45
19:sb:56:CYS:HB2	19:sb:59:CYS:O	2.17	0.45
20:l7:24:C:H2'	20:l7:25:G:O4'	2.17	0.45
23:lB:201:LEU:HD23	23:lB:201:LEU:HA	1.84	0.45
24:lC:11:TYR:HE1	24:lC:149:GLU:HB3	1.82	0.45
25:lD:254:GLU:N	25:lD:254:GLU:OE1	2.50	0.45
30:lI:17:TYR:HE1	85:l5:1788:A:H61	1.65	0.45
30:lI:45:GLU:H	30:lI:45:GLU:CD	2.25	0.45
31:lJ:120:ASP:OD2	31:lJ:121:PRO:HD2	2.16	0.45
32:lL:19:GLN:OE1	85:l5:1518:A:N6	2.50	0.45
42:lV:22:VAL:HG23	42:lV:53:PRO:O	2.17	0.45
43:lX:147:LEU:HD12	43:lX:147:LEU:HA	1.81	0.45
46:la:134:GLU:O	46:la:138:LYS:HG2	2.17	0.45
50:le:84:GLU:O	50:le:87:VAL:HG12	2.17	0.45
56:lk:11:PHE:CD1	56:lk:11:PHE:C	2.94	0.45
56:lk:64:LEU:HD23	56:lk:65:ALA:C	2.41	0.45
60:lo:56:PHE:CE1	60:lo:58:LYS:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:lr:107:ARG:O	62:lr:111:ILE:HG13	2.17	0.45
64:sR:67:ARG:HB2	79:s2:1375:G:OP2	2.17	0.45
74:sd:36:LEU:CD1	74:sd:38:MET:HB3	2.46	0.45
79:s2:17:C:C2	79:s2:18:C:C5	3.04	0.45
79:s2:748:C:O2'	79:s2:749:U:O5'	2.35	0.45
79:s2:1236:G:H2'	79:s2:1237:C:C6	2.51	0.45
79:s2:1470:C:H2'	79:s2:1471:C:H6	1.81	0.45
80:cB:162:ARG:HB2	80:cB:166:GLU:OE1	2.16	0.45
80:cB:162:ARG:NH2	85:l5:4601:U:O3'	2.50	0.45
80:cB:186:ASN:O	80:cB:189:ILE:HG22	2.17	0.45
82:pE:6:G:H2'	82:pE:7:A:C8	2.52	0.45
85:l5:1191:C:H2'	85:l5:1192:C:H6	1.82	0.45
85:l5:1951:G:O6	85:l5:2033:A:N6	2.50	0.45
85:l5:4344:U:H2'	85:l5:4345:C:C6	2.52	0.45
85:l5:4399:U:H2'	85:l5:4400:G:O4'	2.17	0.45
85:l5:5037:U:H2'	85:l5:5038:A:H8	1.82	0.45
3:SI:69:SER:HG	3:SI:191:GLU:CD	2.25	0.45
4:SL:83:GLN:HE22	79:S2:373:G:H21	1.64	0.45
6:SG:43:GLU:N	6:SG:43:GLU:OE1	2.50	0.45
7:SJ:54:ARG:O	7:SJ:58:ARG:N	2.45	0.45
10:SA:22:GLY:O	10:SA:24:HIS:CE1	2.68	0.45
10:SA:123:VAL:HG11	10:SA:175:TRP:HH2	1.81	0.45
11:SB:40:ASN:OD1	11:SB:40:ASN:N	2.45	0.45
11:SB:162:ARG:HG2	79:S2:1004:U:OP1	2.16	0.45
18:SW:53:ILE:H	18:SW:53:ILE:HD12	1.82	0.45
85:L5:7:C:H2'	85:L5:8:U:H6	1.82	0.45
85:L5:195:C:H2'	85:L5:196:C:H6	1.82	0.45
85:L5:513:U:O2	85:L5:515:C:H3'	2.17	0.45
85:L5:751:G:H2'	85:L5:752:G:O4'	2.16	0.45
85:L5:1094:G:C6	85:L5:1095:A:C6	3.05	0.45
85:L5:1098:G:C2	85:L5:1198:G:C2	3.04	0.45
85:L5:1328:G:O2'	85:L5:2349:A:OP1	2.34	0.45
85:L5:1338:G:H4'	85:L5:1339:U:C6	2.52	0.45
85:L5:1344:C:H2'	85:L5:1345:A:C8	2.52	0.45
85:L5:1508:A:H2'	85:L5:1509:C:C6	2.52	0.45
85:L5:1672:U:H2'	85:L5:1673:U:H6	1.82	0.45
85:L5:1727:U:H2'	85:L5:1728:U:C6	2.52	0.45
85:L5:1787:A:N3	85:L5:4210:U:O2'	2.50	0.45
85:L5:1797:G:H2'	85:L5:1798:G:H8	1.80	0.45
85:L5:1816:C:C4	85:L5:1817:U:C4	3.05	0.45
85:L5:2034:G:H2'	85:L5:2035:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2523:G:H2'	85:L5:2524:U:C6	2.51	0.45
85:L5:2665:U:P	38:LR:110:ARG:HH12	2.40	0.45
85:L5:2676:A:C5	85:L5:2677:G:C8	3.05	0.45
85:L5:2823:G:OP2	38:LR:19:LYS:N	2.50	0.45
85:L5:3835:C:H2'	85:L5:3836:A:C8	2.52	0.45
85:L5:3917:A:H2'	85:L5:3918:G:C8	2.51	0.45
85:L5:3969:G:OP1	85:L5:3969:G:H4'	2.17	0.45
85:L5:4036:G:N9	63:Lz:27:LYS:HD2	2.32	0.45
85:L5:4704:C:H4'	29:LH:129:ARG:NH2	2.31	0.45
85:L5:4884:G:H2'	85:L5:4885:U:O4'	2.16	0.45
85:L5:5040:U:H4'	85:L5:5041:G:H5'	1.99	0.45
23:LB:99:LEU:HD23	23:LB:99:LEU:HA	1.87	0.45
23:LB:162:VAL:O	23:LB:182:GLU:HA	2.17	0.45
27:LF:187:MET:HE1	27:LF:190:LEU:HD23	1.98	0.45
28:LG:106:THR:HG22	28:LG:109:GLU:HG3	1.99	0.45
30:LI:52:MET:HB2	30:LI:152:LEU:HD22	1.99	0.45
31:LJ:121:PRO:HG3	70:SS:11:HIS:ND1	2.32	0.45
44:LY:27:ARG:HB2	44:LY:75:ARG:CZ	2.47	0.45
50:Le:98:GLU:HB3	50:Le:123:THR:HB	1.99	0.45
51:Lf:43:LEU:O	51:Lf:43:LEU:HD23	2.17	0.45
53:Lh:52:LYS:HD3	53:Lh:52:LYS:HA	1.70	0.45
53:Lh:89:ARG:O	53:Lh:93:ARG:HG2	2.17	0.45
64:SR:2:GLY:N	79:S2:1467:C:OP1	2.48	0.45
71:ST:60:THR:HA	71:ST:75:MET:HE1	1.99	0.45
79:S2:344:U:H2'	79:S2:345:U:C6	2.49	0.45
79:S2:480:G:H2'	79:S2:481:C:C6	2.51	0.45
79:S2:603:C:H1'	79:S2:604:A:N7	2.32	0.45
79:S2:1204:A:H2'	79:S2:1205:C:O4'	2.15	0.45
79:S2:1511:U:H2'	79:S2:1512:C:C6	2.51	0.45
89:Pt:10:G:N2	89:Pt:26:G:H1'	2.31	0.45
84:Lt:114:ARG:HH11	84:Lt:119:ARG:HE	1.62	0.45
63:Lz:103:LEU:HD21	63:Lz:106:LYS:HE2	1.98	0.45
83:Ls:83:ARG:HD3	83:Ls:83:ARG:HA	1.73	0.45
1:cH:77:VAL:O	1:cH:81:ILE:HG12	2.16	0.45
7:sJ:50:LEU:HD13	7:sJ:105:PHE:CE2	2.52	0.45
7:sJ:125:HIS:CE1	7:sJ:129:LEU:HD23	2.52	0.45
13:sV:16:LYS:HB3	13:sV:16:LYS:HE2	1.64	0.45
14:sa:18:VAL:HG23	14:sa:31:PRO:HB3	1.98	0.45
16:sN:46:THR:CG2	16:sN:86:GLU:HG2	2.47	0.45
16:sN:114:ARG:HD3	16:sN:114:ARG:HA	1.78	0.45
17:sO:98:ARG:HG3	17:sO:99:ALA:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:sb:60:SER:O	19:sb:60:SER:OG	2.33	0.45
22:lA:54:ARG:O	22:lA:56:ALA:N	2.50	0.45
23:lB:55:HIS:NE2	23:lB:369:ASP:OD2	2.50	0.45
32:lL:9:VAL:HG11	46:la:52:TYR:CE1	2.44	0.45
32:lL:90:VAL:O	32:lL:94:ILE:HG22	2.17	0.45
33:lM:3:PHE:CZ	39:lS:155:PRO:HA	2.52	0.45
35:lO:190:ASP:OD1	35:lO:190:ASP:C	2.60	0.45
50:le:37:LYS:HB3	50:le:39:ARG:HH21	1.81	0.45
57:ll:45:ARG:NH2	85:l5:2796:G:O4'	2.50	0.45
64:sR:7:LYS:O	79:s2:1373:C:N4	2.49	0.45
64:sR:52:GLY:HA2	79:s2:1454:A:N7	2.32	0.45
65:sD:26:THR:O	65:sD:30:ALA:HB2	2.17	0.45
67:sK:6:LYS:CD	67:sK:6:LYS:H	2.30	0.45
70:sS:74:PRO:HA	70:sS:77:TYR:HB3	1.99	0.45
70:sS:74:PRO:HB2	70:sS:79:ILE:HB	1.98	0.45
75:sg:189:ILE:HG13	75:sg:190:GLY:N	2.32	0.45
76:sM:33:ARG:HA	76:sM:109:VAL:HG12	1.98	0.45
79:s2:28:U:H2'	79:s2:29:G:C8	2.47	0.45
79:s2:610:G:H2'	79:s2:611:G:H8	1.81	0.45
79:s2:1204:A:H2'	79:s2:1205:C:C6	2.52	0.45
79:s2:1536:G:C2	79:s2:1537:A:C5	3.05	0.45
82:pE:8:U:O4	82:pE:14:A:N6	2.42	0.45
82:pE:37:A:C5	82:pE:38:A:C8	3.05	0.45
85:l5:272:U:H2'	85:l5:273:U:C6	2.52	0.45
85:l5:667:A:H5"	85:l5:668:C:H5"	1.99	0.45
85:l5:1382:G:H2'	85:l5:1383:G:H8	1.81	0.45
85:l5:4258:C:C2	85:l5:4259:C:C5	3.04	0.45
85:l5:4433:G:H2'	85:l5:4434:C:C6	2.51	0.45
85:l5:4868:G:O2'	85:l5:4872:G:OP1	2.35	0.45
85:l5:4888:U:H2'	85:l5:4889:G:C8	2.52	0.45
85:l5:5012:G:O3'	85:l5:5013:C:H3'	2.17	0.45
2:SE:29:PRO:HB3	2:SE:45:ILE:HG21	1.98	0.45
3:SI:75:LYS:HE3	79:S2:303:C:H5'	1.98	0.45
3:SI:165:GLN:NE2	3:SI:170:LYS:O	2.49	0.45
4:SL:85:THR:HG22	4:SL:112:HIS:HA	1.99	0.45
8:SY:12:PHE:HE1	8:SY:21:LYS:HB3	1.81	0.45
13:SV:41:LYS:HA	13:SV:41:LYS:HD2	1.65	0.45
16:SN:39:LYS:O	16:SN:39:LYS:HD2	2.17	0.45
18:SW:74:VAL:HG23	18:SW:126:LEU:O	2.17	0.45
85:L5:394:G:N2	85:L5:397:G:OP2	2.33	0.45
85:L5:937:U:P	33:LM:46:ARG:HE	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1092:G:H2'	85:L5:1093:C:C6	2.52	0.45
85:L5:1389:U:H2'	85:L5:1390:G:C8	2.52	0.45
85:L5:1601:A:N7	85:L5:3643:A:C4	2.85	0.45
85:L5:1628:C:OP2	22:LA:9:ARG:HD2	2.17	0.45
85:L5:2675:G:H4'	85:L5:2676:A:O5'	2.17	0.45
85:L5:2823:G:H2'	85:L5:2824:C:C6	2.51	0.45
85:L5:3965:A:N7	85:L5:4048:A:O2'	2.46	0.45
85:L5:3969:G:O6	85:L5:4051:C:N4	2.49	0.45
85:L5:4279:A:O2'	25:LD:19:LYS:NZ	2.37	0.45
85:L5:4761:G:H2'	85:L5:4762:A:C8	2.52	0.45
22:LA:108:PRO:HG2	61:Lp:86:LEU:HG	1.98	0.45
25:LD:272:SER:H	25:LD:275:GLN:HG3	1.82	0.45
26:LE:223:ARG:HA	26:LE:224:LYS:HA	1.67	0.45
28:LG:136:LEU:HD12	28:LG:136:LEU:HA	1.69	0.45
29:LH:137:SER:OG	29:LH:143:GLU:O	2.19	0.45
30:LI:207:ASP:O	30:LI:211:VAL:HG12	2.17	0.45
43:LX:150:ALA:CB	43:LX:156:ILE:HD11	2.47	0.45
47:Lb:13:SER:HA	47:Lb:16:TRP:NE1	2.32	0.45
68:SP:58:LYS:HA	68:SP:61:ARG:HD2	1.98	0.45
79:S2:482:G:N1	79:S2:485:A:OP2	2.48	0.45
79:S2:1811:C:H2'	79:S2:1812:U:H4'	1.99	0.45
87:AT:67:C:H2'	87:AT:68:G:H8	1.81	0.45
87:AT:68:G:H2'	87:AT:69:G:C8	2.52	0.45
88:CF:94:GLY:HA2	88:CF:102:MET:CE	2.47	0.45
88:CF:336:GLU:HB2	88:CF:444:LYS:HD2	1.98	0.45
89:Pt:62:C:H2'	89:Pt:63:G:H8	1.82	0.45
3:sI:69:SER:OG	3:sI:191:GLU:OE2	2.32	0.45
4:sL:105:ARG:HH22	79:s2:356:C:P	2.40	0.45
6:sG:197:GLN:CD	6:sG:197:GLN:C	2.85	0.45
9:se:53:LYS:HE2	9:se:57:ALA:HB1	1.99	0.45
15:sC:60:TRP:CH2	15:sC:93:ILE:HG22	2.52	0.45
22:lA:108:PRO:CG	61:lp:86:LEU:HD21	2.40	0.45
23:lB:297:LYS:HA	23:lB:297:LYS:HD2	1.80	0.45
27:lF:169:LEU:HB3	27:lF:187:MET:HE2	1.98	0.45
31:lJ:108:GLY:HA3	85:l5:4251:A:H5"	1.99	0.45
38:lR:144:LYS:HE3	38:lR:144:LYS:HB3	1.77	0.45
43:lX:37:LYS:HA	43:lX:38:LYS:HA	1.74	0.45
46:la:88:VAL:O	46:la:92:LYS:HG3	2.17	0.45
51:lf:7:SER:HB2	51:lf:103:VAL:HB	1.99	0.45
51:lf:18:LEU:HB2	85:l5:1916:G:O6	2.17	0.45
56:lk:37:ARG:HH12	85:l5:2536:A:H5"	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:lz:58:THR:O	63:lz:173:LYS:NZ	2.36	0.45
65:sD:167:TYR:OH	65:sD:203:PRO:HA	2.17	0.45
67:sK:60:GLU:OE1	67:sK:61:GLN:C	2.60	0.45
68:sP:16:THR:OG1	68:sP:17:TYR:N	2.50	0.45
73:sc:37:ASP:CG	73:sc:37:ASP:O	2.59	0.45
76:sM:42:LEU:HD11	76:sM:68:LEU:CD1	2.47	0.45
76:sM:58:GLU:HG3	76:sM:60:MET:SD	2.57	0.45
77:sZ:101:SER:HB3	77:sZ:108:ILE:CG2	2.47	0.45
79:s2:350:C:H1'	79:s2:383:G:H1	1.82	0.45
79:s2:508:A:H5'	79:s2:509:G:OP2	2.17	0.45
79:s2:525:A:H2'	79:s2:526:A:C8	2.51	0.45
80:cB:200:MET:HE3	80:cB:367:TYR:CD2	2.51	0.45
80:cB:755:VAL:HG22	80:cB:755:VAL:O	2.17	0.45
81:aP:27:U:H2'	81:aP:28:U:C6	2.52	0.45
84:lt:22:VAL:HA	84:lt:48:LYS:HG2	1.98	0.45
85:l5:50:C:C2	85:l5:51:A:C8	3.05	0.45
85:l5:750:U:H1'	85:l5:917:A:C8	2.52	0.45
85:l5:1079:C:H2'	85:l5:1080:C:H6	1.82	0.45
85:l5:2891:U:H2'	85:l5:2892:C:O4'	2.17	0.45
85:l5:3832:U:H2'	85:l5:3833:C:H6	1.81	0.45
85:l5:3928:A:H2'	85:l5:3929:G:O4'	2.17	0.45
85:l5:4348:A:N6	85:l5:4350:C:C4	2.85	0.45
85:l5:4492:U:O2'	85:l5:4512:U:O2	2.23	0.45
85:l5:5043:A:H2'	85:l5:5044:A:C8	2.51	0.45
86:LW:6:CYS:HA	86:LW:30:GLN:O	2.17	0.45
2:SE:37:LYS:O	2:SE:41:CYS:HB3	2.17	0.45
4:SL:7:GLU:OE2	79:S2:375:U:H1'	2.16	0.45
5:SX:18:ARG:HA	5:SX:21:LYS:HD3	1.98	0.45
6:SG:65:GLN:NE2	79:S2:1745:A:N3	2.65	0.45
6:SG:162:LEU:HD12	6:SG:162:LEU:N	2.32	0.45
13:SV:67:ASP:O	13:SV:71:ARG:HG2	2.16	0.45
14:Sa:50:VAL:HA	14:Sa:53:ILE:HD13	1.99	0.45
16:SN:25:TRP:HZ3	19:Sb:82:LYS:CG	2.27	0.45
18:SW:43:LYS:C	18:SW:43:LYS:HD3	2.42	0.45
18:SW:86:LEU:HD11	18:SW:117:ARG:HH22	1.82	0.45
19:Sb:22:LYS:HG2	79:S2:921:G:C2	2.51	0.45
85:L5:751:G:N2	85:L5:915:A:N3	2.65	0.45
85:L5:1211:G:H2'	85:L5:1212:G:C8	2.51	0.45
85:L5:2007:G:H21	85:L5:2012:A:H62	1.64	0.45
85:L5:2468:U:C2	85:L5:2506:G:C2	3.05	0.45
85:L5:2535:G:H2'	85:L5:2536:A:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2552:G:N2	85:L5:2767:U:C4	2.85	0.45
85:L5:2783:A:P	52:Lg:10:ARG:HH22	2.40	0.45
85:L5:4082:G:H2'	85:L5:4083:U:C6	2.52	0.45
85:L5:4879:C:H2'	85:L5:4880:C:C6	2.52	0.45
85:L5:4895:C:H3'	85:L5:4895:C:OP2	2.16	0.45
85:L5:4923:C:H2'	85:L5:4924:C:C2	2.52	0.45
21:L8:66:A:H2'	21:L8:67:U:C6	2.51	0.45
21:L8:142:U:H2'	21:L8:143:G:O4'	2.17	0.45
22:LA:24:LYS:HG3	22:LA:49:ILE:HD12	1.99	0.45
34:LN:80:THR:HG21	34:LN:86:HIS:O	2.18	0.45
35:LO:196:LEU:HD23	35:LO:202:LEU:HD12	1.99	0.45
36:LP:71:ALA:O	36:LP:74:LYS:HG3	2.17	0.45
38:LR:162:ARG:HH21	79:S2:873:G:N2	2.14	0.45
46:La:46:ASP:OD1	46:La:46:ASP:N	2.45	0.45
49:Ld:19:GLU:N	49:Ld:19:GLU:OE2	2.50	0.45
65:SD:194:PRO:HD2	65:SD:199:GLY:HA3	1.98	0.45
66:SF:32:ASP:OD1	66:SF:32:ASP:N	2.50	0.45
67:SK:16:PHE:C	67:SK:16:PHE:CD2	2.95	0.45
68:SP:130:ARG:HD2	68:SP:130:ARG:HA	1.83	0.45
71:ST:10:ASN:HB3	71:ST:13:GLU:OE1	2.17	0.45
71:ST:40:ALA:O	71:ST:42:HIS:N	2.50	0.45
76:SM:62:VAL:C	76:SM:66:GLU:OE2	2.59	0.45
79:S2:51:U:H2'	79:S2:52:G:H8	1.82	0.45
79:S2:437:G:C6	79:S2:438:G:C6	3.05	0.45
79:S2:693:A:H2'	79:S2:694:G:C8	2.52	0.45
79:S2:735:C:H5"	79:S2:736:C:C2	2.52	0.45
79:S2:1418:C:O3'	79:S2:1419:C:H2'	2.17	0.45
8:sY:83:LYS:NZ	8:sY:96:LEU:HB3	2.32	0.44
10:sA:148:CYS:SG	10:sA:160:ALA:HB1	2.57	0.44
12:sH:5:SER:OG	12:sH:25:GLN:NE2	2.50	0.44
14:sa:5:ARG:NH1	79:s2:1865:C:O5'	2.50	0.44
16:sN:91:LEU:HB3	16:sN:122:ILE:HG12	1.97	0.44
19:sb:12:PRO:HA	19:sb:15:GLU:OE1	2.17	0.44
23:lB:314:ILE:HD12	23:lB:330:PHE:CE1	2.51	0.44
24:lC:173:LYS:HA	24:lC:173:LYS:HD3	1.78	0.44
25:lD:22:ARG:HH22	25:lD:27:LYS:HE2	1.82	0.44
25:lD:61:ILE:HD12	25:lD:79:TYR:CE1	2.53	0.44
26:lE:136:HIS:CE1	85:l5:712:C:H1'	2.52	0.44
27:lF:40:LYS:HE3	27:lF:40:LYS:HB2	1.70	0.44
33:lM:11:ARG:NH1	33:lM:58:THR:O	2.49	0.44
34:lN:41:ARG:HH12	85:l5:8:U:P	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:lU:21:PHE:HZ	41:lU:80:LYS:HB2	1.82	0.44
50:le:83:LYS:NZ	85:l5:2300:A:OP1	2.47	0.44
63:lz:173:LYS:C	63:lz:174:MET:HE3	2.42	0.44
64:sR:4:VAL:CG1	79:s2:1212:G:H5"	2.47	0.44
66:sF:89:THR:O	66:sF:93:VAL:HG23	2.16	0.44
69:sQ:11:GLN:NE2	79:s2:1442:U:O2	2.50	0.44
69:sQ:28:GLY:HA3	69:sQ:67:ASP:OD2	2.17	0.44
71:sT:88:MET:HE2	79:s2:1665:G:C6	2.52	0.44
73:sc:24:GLN:HB2	73:sc:26:GLN:NE2	2.32	0.44
73:sc:44:ARG:NH2	73:sc:60:GLU:O	2.50	0.44
75:sg:100:ARG:NH1	79:s2:1399:C:H5"	2.31	0.44
77:sZ:81:GLY:HA2	77:sZ:84:ALA:HB3	2.00	0.44
79:s2:36:U:H2'	79:s2:37:C:O4'	2.17	0.44
79:s2:59:U:H5"	79:s2:503:C:H41	1.82	0.44
79:s2:64:A:N6	79:s2:83:A:OP2	2.50	0.44
79:s2:328:U:O2'	79:s2:329:G:H8	2.00	0.44
79:s2:940:U:H2'	79:s2:941:C:C6	2.52	0.44
79:s2:1255:G:OP1	79:s2:1256:G:O2'	2.18	0.44
79:s2:1311:C:H2'	79:s2:1312:G:C8	2.53	0.44
80:cB:3:ASN:HA	80:cB:46:ILE:HA	1.99	0.44
80:cB:653:GLY:N	80:cB:660:ASN:O	2.51	0.44
80:cB:741:MET:SD	80:cB:741:MET:N	2.90	0.44
81:aP:4:U:H2'	81:aP:5:C:H6	1.82	0.44
82:pE:7:A:H3'	82:pE:8:U:H5"	1.99	0.44
83:ls:21:LEU:HA	83:ls:90:PHE:CE1	2.52	0.44
83:ls:106:LYS:HA	83:ls:106:LYS:HD2	1.66	0.44
84:lt:123:ARG:NH1	84:lt:124:GLU:O	2.44	0.44
85:l5:302:C:H2'	85:l5:303:C:C6	2.52	0.44
85:l5:490:C:N4	85:l5:491:G:O6	2.50	0.44
85:l5:1184:A:H2'	85:l5:1185:G:C8	2.52	0.44
85:l5:2568:C:H2'	85:l5:2569:G:C8	2.52	0.44
85:l5:4345:C:H2'	85:l5:4346:U:C6	2.53	0.44
85:l5:4963:G:C2	85:l5:4964:C:C4	3.05	0.44
86:LW:59:HIS:CG	85:L5:5037:U:H4'	2.52	0.44
86:LW:101:ARG:NH2	6:SG:147:LEU:HA	2.24	0.44
2:SE:131:VAL:HG12	79:S2:297:A:H4'	1.98	0.44
6:SG:113:ILE:H	6:SG:113:ILE:HD12	1.82	0.44
6:SG:134:GLY:O	79:S2:65:C:N4	2.49	0.44
7:SJ:136:ARG:HE	7:SJ:160:SER:HA	1.82	0.44
11:SB:145:LYS:HB3	11:SB:145:LYS:HE3	1.71	0.44
12:SH:134:VAL:HG12	12:SH:173:PHE:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:SC:72:ASP:OD2	15:SC:74:LYS:HG2	2.17	0.44
15:SC:82:TYR:CE2	15:SC:164:PRO:HD3	2.52	0.44
15:SC:213:LEU:HD12	15:SC:213:LEU:HA	1.84	0.44
16:SN:25:TRP:CE3	19:Sb:82:LYS:CG	2.99	0.44
85:L5:208:A:N3	85:L5:232:G:O2'	2.46	0.44
85:L5:445:U:H2'	85:L5:446:C:O4'	2.17	0.44
85:L5:655:C:OP1	24:LC:268:ARG:NH1	2.50	0.44
85:L5:1081:C:N3	85:L5:1219:G:N1	2.64	0.44
85:L5:1352:C:OP2	37:LQ:104:ARG:NH1	2.50	0.44
85:L5:1460:C:C2	85:L5:1461:C:C5	3.05	0.44
85:L5:1632:A:O2'	85:L5:1634:A:OP1	2.32	0.44
85:L5:1893:C:H1'	85:L5:1937:C:O2	2.17	0.44
85:L5:1934:A:H2'	85:L5:2048:U:O2	2.17	0.44
85:L5:1995:G:C5	85:L5:1996:C:C4	3.05	0.44
85:L5:2275:G:H2'	85:L5:2276:A:C8	2.52	0.44
85:L5:3664:G:H2'	85:L5:3665:G:C8	2.52	0.44
85:L5:3667:C:H2'	85:L5:3668:C:H6	1.81	0.44
85:L5:3831:U:H2'	85:L5:3832:U:H6	1.81	0.44
85:L5:4336:A:H5"	85:L5:4337:C:H5'	1.98	0.44
85:L5:4584:A:OP1	35:LO:149:TYR:OH	2.32	0.44
85:L5:4589:A:N1	85:L5:4621:C:O2'	2.50	0.44
85:L5:4637:G:H2'	85:L5:4638:U:C6	2.52	0.44
85:L5:4685:U:O4	85:L5:4706:G:N2	2.50	0.44
20:L7:19:C:H2'	20:L7:20:U:H6	1.82	0.44
20:L7:65:G:C2	20:L7:66:G:H1'	2.52	0.44
21:L8:46:G:H2'	21:L8:47:C:C6	2.52	0.44
34:LN:51:LEU:CD2	34:LN:117:ASN:HD21	2.29	0.44
38:LR:163:ARG:NH2	38:LR:164:SER:HB2	2.32	0.44
45:LZ:68:ILE:O	45:LZ:115:LYS:NZ	2.32	0.44
47:Lb:43:MET:HE2	47:Lb:43:MET:HB2	1.76	0.44
52:Lg:33:LEU:HD13	52:Lg:33:LEU:HA	1.81	0.44
64:SR:100:PRO:O	64:SR:104:GLU:HG3	2.16	0.44
65:SD:162:ASP:N	65:SD:163:PRO:HD2	2.31	0.44
65:SD:224:SER:HB2	75:Sg:225:LYS:HD2	1.98	0.44
66:SF:28:VAL:HG21	66:SF:109:LEU:HB2	1.99	0.44
71:ST:43:LYS:NZ	79:S2:1540:G:OP2	2.31	0.44
73:Sc:15:THR:OG1	73:Sc:33:GLU:OE2	2.25	0.44
75:Sg:194:TYR:HE1	75:Sg:212:LYS:CE	2.28	0.44
77:SZ:80:ARG:HH12	79:S2:1598:G:P	2.40	0.44
79:S2:29:G:H2'	79:S2:30:C:H6	1.82	0.44
79:S2:321:C:H2'	79:S2:322:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:350:C:O2'	79:S2:383:G:N1	2.16	0.44
79:S2:886:A:H2'	79:S2:887:U:O4'	2.17	0.44
79:S2:940:U:H2'	79:S2:941:C:C6	2.52	0.44
79:S2:1171:G:H22	79:S2:1188:A:P	2.39	0.44
88:CF:152:VAL:HG12	88:CF:192:PRO:HA	1.98	0.44
8:sY:8:ARG:HB2	8:sY:26:ASP:OD1	2.17	0.44
10:sA:63:ARG:HD3	13:sV:37:ALA:O	2.16	0.44
10:sA:183:LEU:O	10:sA:188:THR:OG1	2.35	0.44
11:sB:180:ASP:OD1	11:sB:181:LEU:N	2.45	0.44
12:sH:11:PRO:O	12:sH:46:THR:HA	2.18	0.44
12:sH:145:ARG:O	12:sH:152:ARG:HA	2.16	0.44
19:sb:67:THR:HG23	19:sb:72:ARG:H	1.82	0.44
22:lA:179:ILE:HG21	22:lA:185:ALA:HB2	1.99	0.44
22:lA:180:LEU:HD21	61:lp:14:TYR:CE2	2.52	0.44
25:lD:292:GLU:HG2	25:lD:293:ARG:N	2.31	0.44
29:lH:15:ASN:N	29:lH:15:ASN:OD1	2.48	0.44
29:lH:134:CYS:HA	29:lH:146:LEU:HA	1.99	0.44
42:lV:115:SER:C	42:lV:135:ASN:HD21	2.25	0.44
44:lY:43:ASN:O	44:lY:126:ARG:HD2	2.17	0.44
68:sP:86:LEU:HB3	68:sP:88:GLU:OE1	2.17	0.44
71:sT:28:LEU:H	71:sT:28:LEU:HD12	1.82	0.44
71:sT:87:VAL:N	79:s2:1606:G:H5"	2.32	0.44
77:sZ:47:LEU:HD21	77:sZ:79:ILE:HA	2.00	0.44
79:s2:293:C:O2'	79:s2:294:U:H3'	2.17	0.44
79:s2:1189:A:H2'	79:s2:1190:A:C8	2.53	0.44
79:s2:1540:G:H2'	79:s2:1541:G:C8	2.52	0.44
79:s2:1639:G:N3	82:pE:41:U:O2'	2.50	0.44
83:ls:40:MET:HA	83:ls:43:ILE:HD11	1.99	0.44
85:l5:450:G:O6	85:l5:1297:U:O4	2.34	0.44
85:l5:1999:A:H2'	85:l5:2000:G:C5	2.52	0.44
85:l5:2448:G:H2'	85:l5:2449:A:C8	2.53	0.44
85:l5:2602:G:H2'	85:l5:2603:C:C6	2.52	0.44
85:l5:2845:A:N6	85:l5:3843:C:H42	2.14	0.44
85:l5:3964:U:O2'	85:l5:4048:A:N1	2.46	0.44
85:l5:4071:U:H2'	85:l5:4072:C:C6	2.52	0.44
85:l5:4242:U:N3	85:l5:4281:A:H2	2.16	0.44
85:l5:4578:G:H2'	85:l5:4579:U:H6	1.82	0.44
85:l5:4625:C:O2'	85:l5:4626:A:H5'	2.17	0.44
5:SX:2:GLY:N	79:S2:1089:G:O6	2.50	0.44
7:SJ:72:PHE:HD1	7:SJ:72:PHE:C	2.24	0.44
8:SY:34:THR:HG21	8:SY:62:THR:HG21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:SA:10:MET:SD	10:SA:55:TRP:CD2	3.11	0.44
11:SB:46:LYS:O	17:SO:47:LEU:HD23	2.17	0.44
11:SB:97:LEU:HD22	11:SB:232:HIS:ND1	2.32	0.44
15:SC:64:THR:HB	15:SC:67:GLY:H	1.83	0.44
15:SC:186:GLY:N	15:SC:193:VAL:O	2.48	0.44
85:L5:139:G:H2'	85:L5:140:G:C8	2.52	0.44
85:L5:189:G:C2	85:L5:253:G:C2	3.05	0.44
85:L5:500:G:N2	85:L5:504:G:HO2'	2.15	0.44
85:L5:1090:G:H2'	85:L5:1091:C:C6	2.52	0.44
85:L5:1354:A:OP1	37:LQ:88:ASP:HB3	2.17	0.44
85:L5:1541:C:H2'	85:L5:1542:U:C6	2.52	0.44
85:L5:1588:U:H2'	85:L5:1589:C:C6	2.52	0.44
85:L5:1608:G:H2'	85:L5:1609:U:C6	2.52	0.44
85:L5:1764:G:H4'	85:L5:1769:G:C6	2.52	0.44
85:L5:1810:G:C6	85:L5:1829:G:C6	3.05	0.44
85:L5:1914:C:N3	85:L5:2050:G:N1	2.64	0.44
85:L5:2812:A:OP1	38:LR:83:GLY:N	2.38	0.44
85:L5:4079:C:H2'	85:L5:4080:C:H6	1.82	0.44
85:L5:4093:G:C8	85:L5:4094:G:N7	2.84	0.44
85:L5:4711:C:O2'	35:LO:145:VAL:O	2.34	0.44
85:L5:4957:C:H2'	85:L5:4958:C:H6	1.82	0.44
23:LB:320:PHE:N	23:LB:324:GLY:O	2.48	0.44
24:LC:231:ASN:OD1	24:LC:233:SER:OG	2.35	0.44
28:LG:123:ALA:HA	28:LG:124:GLY:HA2	1.73	0.44
38:LR:105:LEU:HD23	38:LR:138:LEU:HD23	1.99	0.44
51:Lf:38:GLU:OE1	51:Lf:38:GLU:N	2.35	0.44
64:SR:62:GLN:HE22	64:SR:63:ARG:HE	1.64	0.44
75:Sg:34:ALA:HA	75:Sg:40:ILE:HD13	1.98	0.44
75:Sg:72:SER:OG	75:Sg:77:PHE:O	2.36	0.44
75:Sg:230:LEU:HD11	75:Sg:259:TRP:CD1	2.52	0.44
79:S2:1495:G:H2'	79:S2:1496:U:C6	2.52	0.44
79:S2:1564:C:H2'	79:S2:1565:C:C6	2.52	0.44
79:S2:1738:C:H2'	79:S2:1739:C:C6	2.52	0.44
82:Et:51:G:H2'	82:Et:52:G:C8	2.53	0.44
84:Lt:108:GLU:HG2	84:Lt:109:ILE:HD12	1.99	0.44
63:Lz:152:LYS:NZ	63:Lz:154:THR:OG1	2.42	0.44
3:sI:72:CYS:HG	3:sI:112:TRP:CD1	2.35	0.44
6:sG:133:LEU:HD12	79:s2:65:C:C5	2.52	0.44
7:sJ:129:LEU:HA	7:sJ:132:GLN:HB2	1.99	0.44
8:sY:68:LYS:HD3	8:sY:69:THR:N	2.33	0.44
10:sA:120:ARG:NH2	15:sC:267:GLN:HB3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:sA:199:PRO:HG2	10:sA:200:ASP:OD2	2.16	0.44
11:sB:146:ARG:CD	64:sR:135:VAL:HG22	2.48	0.44
12:sH:6:ALA:HB3	12:sH:25:GLN:HE22	1.82	0.44
12:sH:66:VAL:HG21	79:s2:913:A:C4	2.52	0.44
17:sO:55:ARG:HH21	79:s2:954:U:H1'	1.83	0.44
21:l8:17:A:H1'	85:l5:418:A:C2	2.52	0.44
21:l8:94:G:N3	55:lj:82:THR:OG1	2.51	0.44
24:lC:84:THR:HG23	24:lC:86:ARG:N	2.33	0.44
25:lD:53:VAL:HB	25:lD:159:VAL:HG23	1.99	0.44
25:lD:177:THR:HA	25:lD:180:PHE:CE2	2.53	0.44
26:lE:154:THR:HG21	26:lE:193:PHE:HD1	1.82	0.44
27:lF:196:THR:O	27:lF:196:THR:OG1	2.35	0.44
29:lH:92:MET:HG3	29:lH:181:VAL:CA	2.42	0.44
29:lH:114:ILE:HD12	29:lH:114:ILE:N	2.33	0.44
30:lI:137:SER:HB3	30:lI:173:PHE:CE1	2.52	0.44
31:lJ:169:LYS:HG2	31:lJ:170:TYR:CD2	2.52	0.44
35:lO:143:HIS:HA	35:lO:147:TRP:HB3	2.00	0.44
37:lQ:129:ASP:OD1	37:lQ:130:SER:N	2.50	0.44
50:le:5:ARG:NH2	85:l5:454:U:C1'	2.73	0.44
50:le:6:PRO:HG3	50:le:73:GLY:HA3	1.99	0.44
53:lh:27:GLU:OE2	53:lh:50:VAL:HG11	2.17	0.44
55:lj:67:LEU:HD22	55:lj:71:TYR:CZ	2.52	0.44
57:ll:16:LYS:HA	57:ll:16:LYS:HD2	1.77	0.44
63:lz:143:ASN:ND2	63:lz:150:GLU:OE1	2.51	0.44
64:sR:10:LYS:HB2	79:s2:1367:U:O2	2.18	0.44
64:sR:57:LEU:HD23	64:sR:57:LEU:HA	1.80	0.44
66:sF:184:SER:H	66:sF:190:ILE:HD11	1.82	0.44
69:sQ:112:LEU:HD23	69:sQ:120:LEU:HD21	1.98	0.44
69:sQ:125:ARG:HD2	79:s2:1648:G:C8	2.53	0.44
71:sT:42:HIS:NE2	71:sT:43:LYS:HG3	2.32	0.44
71:sT:129:ARG:CD	71:sT:133:ARG:NH1	2.81	0.44
72:sU:116:ILE:CG2	72:sU:117:ALA:H	2.29	0.44
75:sg:59:LEU:HG	75:sg:90:TRP:CD2	2.53	0.44
75:sg:294:ASP:OD1	75:sg:296:GLN:HG2	2.17	0.44
79:s2:118:C:H2'	79:s2:119:U:O4'	2.17	0.44
79:s2:157:U:O2'	79:s2:159:A:N7	2.36	0.44
79:s2:588:G:OP2	79:s2:588:G:N2	2.23	0.44
79:s2:838:G:H1'	79:s2:839:C:H3'	1.99	0.44
79:s2:978:G:H5'	79:s2:979:C:OP2	2.17	0.44
79:s2:1142:G:H21	79:s2:1145:A:H62	1.64	0.44
79:s2:1208:A:OP2	79:s2:1835:A:O2'	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:27:HIS:HB3	80:cB:30:HIS:CD2	2.52	0.44
80:cB:183:GLU:O	80:cB:187:VAL:HG13	2.18	0.44
80:cB:289:PHE:HA	80:cB:293:ILE:HD12	1.99	0.44
80:cB:682:GLY:HA2	80:cB:722:ILE:HG23	2.00	0.44
80:cB:693:CYS:SG	80:cB:835:VAL:HG13	2.57	0.44
80:cB:817:TRP:CD1	80:cB:817:TRP:N	2.85	0.44
81:aP:10:G:H2'	81:aP:11:U:C6	2.52	0.44
85:l5:713:C:H2'	85:l5:714:G:C8	2.51	0.44
85:l5:1578:U:OP1	85:l5:3637:U:O2'	2.19	0.44
85:l5:1727:U:H2'	85:l5:1728:U:C6	2.53	0.44
85:l5:1985:G:N2	85:l5:2003:G:O2'	2.51	0.44
85:l5:2015:U:H2'	85:l5:2016:C:C6	2.53	0.44
85:l5:3702:A:C6	85:l5:3703:G:C8	3.05	0.44
85:l5:4069:U:H2'	85:l5:4070:U:C6	2.52	0.44
85:l5:4089:G:H2'	85:l5:4090:G:H8	1.82	0.44
85:l5:4503:A:H2'	85:l5:4504:C:C6	2.52	0.44
85:l5:4571:A:H2'	85:l5:4572:U:H6	1.81	0.44
2:SE:151:ASP:CG	6:SG:216:ARG:HH21	2.25	0.44
3:SI:163:GLU:O	3:SI:167:GLN:HG3	2.18	0.44
6:SG:169:PRO:O	79:S2:72:C:N4	2.51	0.44
10:SA:120:ARG:NH1	15:SC:266:TYR:HB3	2.32	0.44
85:L5:173:C:O4'	53:Lh:112:ARG:NH1	2.50	0.44
85:L5:261:G:N1	85:L5:262:G:C6	2.84	0.44
85:L5:667:A:H5"	85:L5:668:C:H5"	1.99	0.44
85:L5:1864:G:C6	85:L5:1871:A:C6	3.05	0.44
85:L5:1973:G:H4'	84:Lt:118:HIS:HE2	1.82	0.44
85:L5:2036:C:H2'	85:L5:2037:C:C6	2.53	0.44
85:L5:2108:G:C2	85:L5:2109:G:C5	3.06	0.44
85:L5:2295:C:H2'	85:L5:2296:G:C8	2.51	0.44
85:L5:2414:G:C6	85:L5:2431:A:C6	3.05	0.44
85:L5:2847:G:O2'	42:LV:21:PRO:HD2	2.17	0.44
85:L5:3923:A:H2'	85:L5:3924:C:H6	1.83	0.44
85:L5:4378:A:O2'	85:L5:4379:A:H2'	2.16	0.44
85:L5:4645:C:H3'	38:LR:62:ARG:HH12	1.82	0.44
85:L5:4664:A:C4	85:L5:4665:A:C8	3.04	0.44
85:L5:4704:C:H2'	85:L5:4705:A:C8	2.53	0.44
85:L5:4981:G:O6	23:LB:21:ARG:NH2	2.49	0.44
27:LF:27:GLU:O	27:LF:30:ILE:HG22	2.17	0.44
27:LF:142:TRP:CE2	27:LF:235:ASN:HB2	2.53	0.44
31:LJ:90:ARG:HG3	31:LJ:107:PHE:CD2	2.51	0.44
36:LP:86:LYS:HA	36:LP:89:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:LS:43:ARG:HD2	39:LS:43:ARG:HA	1.60	0.44
45:LZ:12:LEU:CB	45:LZ:81:MET:HB3	2.47	0.44
53:Lh:77:LYS:O	53:Lh:77:LYS:HD2	2.17	0.44
66:SF:169:ILE:O	66:SF:173:LEU:N	2.50	0.44
69:SQ:97:GLN:HA	69:SQ:105:LYS:HD2	2.00	0.44
75:Sg:106:LYS:NZ	75:Sg:126:ASP:HA	2.33	0.44
75:Sg:194:TYR:CE1	75:Sg:212:LYS:HG2	2.53	0.44
79:S2:436:G:C6	79:S2:458:A:C6	3.05	0.44
79:S2:636:C:H2'	79:S2:637:U:C6	2.52	0.44
79:S2:833:C:C4	79:S2:834:C:N4	2.85	0.44
79:S2:1117:C:H2'	79:S2:1118:C:C6	2.52	0.44
79:S2:1139:C:H2'	79:S2:1140:G:O4'	2.17	0.44
79:S2:1225:U:H2'	79:S2:1226:G:C8	2.52	0.44
79:S2:1260:A:C2	79:S2:1620:A:C4	3.05	0.44
79:S2:1297:U:H1'	79:S2:1301:A:N1	2.32	0.44
79:S2:1469:A:H2'	79:S2:1470:C:C6	2.53	0.44
79:S2:1593:C:H2'	79:S2:1594:A:C8	2.52	0.44
79:S2:1638:G:H5"	79:S2:1639:G:OP1	2.17	0.44
87:AT:8:U:H5"	87:AT:50:C:H5'	1.98	0.44
88:CF:15:HIS:HE2	88:CF:132:GLN:H	1.65	0.44
88:CF:120:VAL:HG11	88:CF:159:GLU:OE2	2.17	0.44
1:cH:108:ASP:C	1:cH:114:ALA:HB2	2.42	0.44
6:sG:49:VAL:HG11	6:sG:115:LYS:NZ	2.33	0.44
8:sY:42:GLU:OE2	8:sY:42:GLU:N	2.40	0.44
8:sY:119:GLY:HA2	79:s2:85:A:H5'	2.00	0.44
9:se:22:GLN:HG2	9:se:24:LYS:CD	2.47	0.44
15:sC:179:THR:OG1	15:sC:180:VAL:N	2.49	0.44
21:l8:45:C:H2'	21:l8:46:G:H8	1.83	0.44
22:lA:75:LEU:HD23	22:lA:75:LEU:HA	1.81	0.44
22:lA:125:LYS:HA	22:lA:125:LYS:HD2	1.88	0.44
22:lA:207:VAL:HG11	85:l5:1633:G:C6	2.52	0.44
23:lB:116:ARG:HD2	23:lB:177:LYS:HA	1.98	0.44
24:lC:24:LEU:HD23	24:lC:24:LEU:HA	1.87	0.44
25:lD:131:ASN:OD1	25:lD:131:ASN:N	2.50	0.44
29:lH:171:ASP:OD2	29:lH:173:ARG:NH2	2.46	0.44
33:lM:44:GLN:NE2	85:l5:935:A:H4'	2.32	0.44
38:lR:38:ARG:C	38:lR:40:GLN:H	2.24	0.44
44:lY:54:GLU:HB2	44:lY:108:ARG:HB3	1.99	0.44
54:li:63:VAL:O	54:li:63:VAL:HG12	2.18	0.44
63:lz:91:LYS:O	63:lz:97:LYS:NZ	2.44	0.44
64:sR:58:MET:HA	64:sR:61:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:sD:194:PRO:HB2	65:sD:197:LYS:HG2	1.98	0.44
66:sF:152:TRP:HE3	66:sF:153:LEU:HD12	1.83	0.44
70:sS:40:TYR:HE2	70:sS:97:GLN:HG3	1.81	0.44
71:sT:33:TRP:HZ3	79:s2:1567:G:P	2.39	0.44
75:sg:5:MET:HE1	75:sg:291:TRP:HH2	1.82	0.44
75:sg:68:ASP:HB3	75:sg:111:VAL:HG22	1.98	0.44
77:sZ:62:VAL:HA	77:sZ:65:TYR:CE1	2.53	0.44
77:sZ:88:LEU:HD12	77:sZ:109:TYR:CD2	2.52	0.44
79:s2:185:G:H2'	79:s2:186:C:C6	2.51	0.44
79:s2:185:G:N2	79:s2:214:U:O2	2.48	0.44
79:s2:899:U:H3'	79:s2:900:C:H4'	2.00	0.44
79:s2:1238:U:O2	79:s2:1242:U:H5	2.01	0.44
80:cB:60:ARG:HH21	80:cB:70:ILE:HG21	1.82	0.44
80:cB:429:ILE:HD13	80:cB:475:VAL:HG13	1.99	0.44
80:cB:449:ARG:O	80:cB:473:VAL:HG22	2.17	0.44
80:cB:678:SER:HB2	80:cB:721:ILE:HG21	2.00	0.44
83:ls:101:MET:SD	83:ls:101:MET:C	3.01	0.44
85:l5:1086:C:H2'	85:l5:1087:A:C8	2.52	0.44
85:l5:1340:C:H2'	85:l5:1341:U:H6	1.82	0.44
85:l5:1590:C:H3'	85:l5:1591:U:H4'	1.98	0.44
85:l5:1964:A:H2'	85:l5:1965:G:C8	2.52	0.44
85:l5:2273:G:H2'	85:l5:2274:C:C6	2.53	0.44
85:l5:2285:A:H2'	85:l5:2286:G:H8	1.82	0.44
85:l5:2413:U:H2'	85:l5:2414:G:C8	2.52	0.44
85:l5:2416:G:N2	85:l5:2426:U:O4	2.50	0.44
85:l5:2480:G:H2'	85:l5:2481:G:C8	2.52	0.44
85:l5:2909:C:H1'	85:l5:3585:G:N1	2.32	0.44
3:SI:141:ARG:CZ	3:SI:141:ARG:HA	2.48	0.44
6:SG:56:ASN:HD21	79:S2:155:G:H21	1.66	0.44
8:SY:130:LYS:HG2	8:SY:131:PRO:HD3	2.00	0.44
10:SA:65:ILE:HD12	10:SA:65:ILE:N	2.32	0.44
10:SA:145:ILE:HG22	10:SA:159:ILE:HB	2.00	0.44
18:SW:111:MET:HE2	18:SW:115:GLU:C	2.42	0.44
18:SW:111:MET:CE	18:SW:116:ALA:N	2.73	0.44
85:L5:53:C:H2'	85:L5:54:G:H8	1.83	0.44
85:L5:257:C:H2'	85:L5:258:G:C8	2.53	0.44
85:L5:324:A:C6	85:L5:325:U:C4	3.05	0.44
85:L5:492:U:H2'	85:L5:493:G:C8	2.52	0.44
85:L5:920:C:H2'	85:L5:921:C:H6	1.82	0.44
85:L5:1691:G:C6	85:L5:1846:G:C6	3.06	0.44
85:L5:1867:A:H2'	85:L5:1868:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2514:G:C2	85:L5:2515:G:C8	3.05	0.44
85:L5:2557:G:H2'	85:L5:2558:C:C6	2.51	0.44
85:L5:4092:G:H2'	85:L5:4093:G:H1'	1.99	0.44
85:L5:4265:U:OP1	25:LD:12:TYR:OH	2.31	0.44
85:L5:5053:U:H3'	85:L5:5054:C:C6	2.52	0.44
21:L8:27:U:H2'	21:L8:28:C:H6	1.81	0.44
23:LB:226:LYS:HG2	23:LB:273:GLY:HA3	1.99	0.44
25:LD:53:VAL:HG23	25:LD:62:CYS:HB2	1.99	0.44
27:LF:60:GLU:CD	27:LF:192:HIS:HE2	2.26	0.44
28:LG:154:LEU:HB3	28:LG:204:PHE:CB	2.48	0.44
28:LG:258:ALA:HA	28:LG:261:LEU:HG	1.98	0.44
32:LL:126:LEU:CD2	32:LL:137:GLY:HA2	2.48	0.44
34:LN:181:HIS:HA	34:LN:184:ILE:HD11	1.98	0.44
38:LR:176:ARG:HE	79:S2:909:G:P	2.41	0.44
48:Lc:95:ALA:C	48:Lc:96:ILE:HD12	2.43	0.44
54:Li:51:ALA:HB3	54:Li:54:GLU:OE1	2.18	0.44
62:Lr:32:LEU:HD11	62:Lr:49:VAL:O	2.17	0.44
64:SR:17:ILE:O	64:SR:21:TYR:HD1	2.01	0.44
65:SD:150:MET:H	65:SD:150:MET:CE	2.31	0.44
69:SQ:33:LYS:NZ	79:S2:1425:G:O2'	2.50	0.44
70:SS:23:ARG:HD2	70:SS:23:ARG:HA	1.71	0.44
71:ST:28:LEU:HD23	71:ST:110:LEU:HD21	1.99	0.44
72:SU:21:ARG:HG3	72:SU:115:THR:HG23	2.00	0.44
72:SU:28:ASN:O	72:SU:31:SER:OG	2.23	0.44
72:SU:64:THR:HG22	72:SU:77:TRP:HE3	1.83	0.44
75:Sg:44:LYS:HD2	75:Sg:56:GLN:HB2	1.98	0.44
75:Sg:270:LEU:HD11	75:Sg:310:TRP:CG	2.53	0.44
79:S2:28:U:H2'	79:S2:29:G:C8	2.52	0.44
79:S2:930:C:H42	79:S2:1011:A:N6	2.14	0.44
79:S2:1320:G:H2'	79:S2:1321:G:O4'	2.17	0.44
82:Et:12:U:H2'	82:Et:13:C:C6	2.53	0.44
88:CF:160:PRO:HG2	88:CF:163:SEP:HB3	1.99	0.44
88:CF:208:MET:O	88:CF:208:MET:HG3	2.17	0.44
88:CF:341:THR:HG22	88:CF:440:ALA:HB3	1.99	0.44
63:Lz:198:TRP:CH2	63:Lz:202:ARG:HB3	2.49	0.44
83:Ls:39:GLN:O	83:Ls:43:ILE:N	2.47	0.44
6:sG:49:VAL:HG12	6:sG:115:LYS:HD2	1.99	0.44
7:sJ:124:HIS:CG	9:se:35:ARG:HE	2.35	0.44
10:sA:15:VAL:HA	10:sA:18:PHE:HB3	2.00	0.44
10:sA:32:PHE:CD1	79:s2:1097:G:H4'	2.52	0.44
12:sH:43:LEU:HB3	12:sH:72:PHE:HE2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:sV:1:MET:HE2	13:sV:1:MET:HB3	1.89	0.44
13:sV:21:ASN:O	13:sV:21:ASN:OD1	2.36	0.44
16:sN:38:TYR:CE1	16:sN:78:LYS:HE3	2.53	0.44
17:sO:64:ALA:HB3	17:sO:67:ASP:OD2	2.16	0.44
18:sW:100:GLY:HA2	18:sW:130:PHE:HB3	1.99	0.44
20:l7:7:G:OP2	25:lD:28:THR:OG1	2.24	0.44
25:lD:37:VAL:HG12	25:lD:38:ILE:HD13	1.99	0.44
27:lF:144:TYR:CE2	27:lF:237:GLU:HG3	2.52	0.44
35:lO:73:PHE:HB3	35:lO:78:ARG:HB3	1.98	0.44
35:lO:191:LYS:HE3	35:lO:192:TYR:CE1	2.52	0.44
37:lQ:42:THR:OG1	85:l5:1428:U:H5"	2.18	0.44
50:le:86:GLU:C	50:le:86:GLU:OE1	2.60	0.44
51:lf:28:LEU:HD22	51:lf:101:ILE:HD13	1.99	0.44
61:lp:4:ARG:NE	85:l5:1554:A:OP2	2.35	0.44
63:lz:116:LEU:O	63:lz:120:ILE:HG23	2.18	0.44
64:sR:60:ARG:HB2	79:s2:1464:C:P	2.58	0.44
65:sD:116:ARG:HG2	65:sD:152:PHE:CE1	2.53	0.44
65:sD:116:ARG:HG2	65:sD:152:PHE:HZ	1.82	0.44
68:sP:52:LYS:NZ	79:s2:1299:A:O4'	2.50	0.44
68:sP:58:LYS:CA	68:sP:61:ARG:HH21	2.30	0.44
70:sS:82:TRP:CG	79:s2:1567:G:C6	3.05	0.44
75:sg:121:VAL:HA	75:sg:130:LYS:O	2.17	0.44
79:s2:96:C:H1'	79:s2:474:G:H5'	1.99	0.44
79:s2:145:G:H2'	79:s2:146:G:H8	1.77	0.44
79:s2:155:G:C6	79:s2:164:A:C6	3.06	0.44
79:s2:207:G:H3'	79:s2:208:G:C8	2.51	0.44
79:s2:374:G:H2'	79:s2:375:U:H6	1.82	0.44
79:s2:1395:C:H2'	79:s2:1396:A:N3	2.31	0.44
79:s2:1466:G:C5	79:s2:1467:C:C5	3.05	0.44
79:s2:1706:G:H2'	79:s2:1707:U:C6	2.53	0.44
79:s2:1774:C:N4	79:s2:1775:U:O2	2.51	0.44
85:l5:920:C:H2'	85:l5:921:C:C6	2.52	0.44
85:l5:978:G:H2'	85:l5:979:C:C6	2.52	0.44
85:l5:2107:C:H2'	85:l5:2108:G:H8	1.82	0.44
85:l5:2811:G:N1	85:l5:2814:C:OP2	2.33	0.44
85:l5:5053:U:H3'	85:l5:5054:C:C6	2.53	0.44
2:SE:114:ILE:HB	2:SE:118:GLU:OE1	2.17	0.44
5:SX:48:LYS:HD3	5:SX:99:GLU:OE2	2.18	0.44
6:SG:200:LYS:HE3	6:SG:200:LYS:HB3	1.76	0.44
6:SG:231:ARG:HA	79:S2:786:G:H5"	1.99	0.44
7:SJ:144:ILE:HG22	7:SJ:147:PHE:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:SV:34:MET:SD	13:SV:53:TYR:HB2	2.57	0.44
17:SO:143:LYS:O	17:SO:143:LYS:HG3	2.17	0.44
85:L5:1:C:H4'	85:L5:2:G:O4'	2.16	0.44
85:L5:264:C:H2'	85:L5:265:C:C2	2.53	0.44
85:L5:431:G:C6	85:L5:3888:G:C6	3.05	0.44
85:L5:1090:G:H2'	85:L5:1091:C:H6	1.83	0.44
85:L5:1305:C:H2'	85:L5:1306:C:C6	2.52	0.44
85:L5:1341:U:H2'	85:L5:1342:A:C8	2.53	0.44
85:L5:1345:A:H2'	85:L5:1346:C:C6	2.52	0.44
85:L5:1539:G:H2'	85:L5:1540:C:H6	1.81	0.44
85:L5:1812:C:H1'	47:Lb:57:MET:CE	2.41	0.44
85:L5:1819:G:C6	85:L5:1820:C:C2	3.06	0.44
85:L5:2676:A:C4	85:L5:2677:G:C8	3.05	0.44
85:L5:2727:C:H2'	85:L5:2728:U:H6	1.81	0.44
85:L5:3773:U:C2	85:L5:3774:A:N7	2.85	0.44
85:L5:3927:U:H2'	85:L5:3928:A:C8	2.52	0.44
85:L5:4485:C:H2'	85:L5:4486:C:H6	1.81	0.44
85:L5:4910:G:N2	35:LO:106:ASP:O	2.50	0.44
85:L5:4975:G:O2'	85:L5:4977:A:N6	2.39	0.44
23:LB:149:ASP:O	23:LB:153:MET:HG2	2.17	0.44
24:LC:31:PRO:HG3	24:LC:282:HIS:CG	2.53	0.44
24:LC:135:ALA:O	24:LC:139:SER:OG	2.27	0.44
25:LD:153:THR:HB	25:LD:160:PHE:HZ	1.83	0.44
25:LD:211:LEU:O	25:LD:211:LEU:HD12	2.17	0.44
33:LM:92:ALA:HA	33:LM:95:ILE:HD12	1.99	0.44
40:LT:63:ARG:HH11	40:LT:63:ARG:CB	2.31	0.44
40:LT:106:LEU:HA	40:LT:109:VAL:HG12	2.00	0.44
41:LU:47:ILE:O	41:LU:53:ALA:HA	2.17	0.44
45:LZ:84:ARG:N	48:Lc:62:TYR:OH	2.40	0.44
45:LZ:114:ALA:O	45:LZ:118:PHE:CD2	2.70	0.44
62:Lr:96:MET:O	62:Lr:100:ASN:HB2	2.16	0.44
65:SD:105:LEU:HD12	65:SD:105:LEU:HA	1.81	0.44
65:SD:167:TYR:HH	65:SD:192:TRP:CD1	2.35	0.44
66:SF:127:ARG:HH12	73:Sc:66:ARG:NH2	2.15	0.44
67:SK:25:LYS:CD	67:SK:62:PHE:CZ	3.00	0.44
69:SQ:69:ARG:NH1	79:S2:1425:G:H5"	2.32	0.44
70:SS:133:GLY:HA2	79:S2:1622:U:H4'	1.99	0.44
71:ST:107:LEU:HD23	71:ST:107:LEU:HA	1.77	0.44
72:SU:64:THR:HG22	72:SU:77:TRP:CE3	2.52	0.44
72:SU:95:SER:HA	72:SU:98:VAL:HG22	1.98	0.44
77:SZ:43:LYS:HE3	77:SZ:45:ASN:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:520:A:O2'	79:S2:825:A:N3	2.47	0.44
79:S2:1171:G:O2'	79:S2:1187:G:O6	2.36	0.44
79:S2:1779:G:H2'	79:S2:1780:G:H8	1.81	0.44
63:Lz:17:VAL:HB	63:Lz:180:VAL:HG22	2.00	0.44
3:sI:113:TYR:CE1	3:sI:121:LEU:HD23	2.53	0.44
4:sL:49:GLU:HG2	4:sL:116:CYS:O	2.18	0.44
4:sL:119:ASP:OD2	4:sL:119:ASP:C	2.60	0.44
4:sL:133:PRO:O	79:s2:383:G:O2'	2.35	0.44
5:sX:12:LYS:HA	5:sX:12:LYS:HD2	1.76	0.44
13:sV:58:ALA:O	13:sV:62:MET:HG2	2.18	0.44
16:sN:56:ASP:O	19:sb:46:VAL:HA	2.18	0.44
20:l7:45:U:H2'	20:l7:46:C:C6	2.52	0.44
22:lA:225:ILE:HG21	22:lA:234:LYS:HA	2.00	0.44
23:lB:63:PRO:HA	23:lB:68:ASN:ND2	2.24	0.44
23:lB:154:LYS:HG3	23:lB:191:ALA:HA	1.98	0.44
25:lD:152:ARG:HD3	85:l5:4240:G:C5'	2.47	0.44
37:lQ:41:SER:HB2	37:lQ:132:LYS:HD2	1.99	0.44
41:lU:100:LEU:HD13	41:lU:112:LEU:HD21	1.99	0.44
45:lZ:135:ARG:HD2	45:lZ:135:ARG:HA	1.63	0.44
52:lg:52:ARG:H	52:lg:52:ARG:HG2	1.63	0.44
56:lk:25:ILE:HD13	56:lk:25:ILE:HA	1.88	0.44
63:lz:178:GLU:HA	63:lz:181:TYR:CZ	2.53	0.44
64:sR:67:ARG:HA	64:sR:68:GLY:HA3	1.65	0.44
65:sD:90:LYS:H	65:sD:90:LYS:HG3	1.59	0.44
68:sP:34:MET:HE1	68:sP:45:LEU:CB	2.47	0.44
74:sd:14:PHE:CD2	79:s2:1661:A:C8	3.06	0.44
75:sg:164:ILE:HD12	75:sg:177:TRP:O	2.18	0.44
75:sg:191:HIS:NE2	75:sg:195:LEU:HD11	2.32	0.44
75:sg:270:LEU:HD12	75:sg:310:TRP:CD2	2.53	0.44
77:sZ:68:ILE:O	77:sZ:108:ILE:HD12	2.18	0.44
79:s2:602:G:OP2	79:s2:603:C:O2'	2.29	0.44
79:s2:880:G:C8	79:s2:907:G:C2	3.05	0.44
79:s2:896:U:C4	79:s2:897:U:H5	2.35	0.44
79:s2:952:G:H2'	79:s2:953:C:O4'	2.18	0.44
79:s2:1005:G:H2'	79:s2:1006:C:H6	1.83	0.44
79:s2:1452:A:C2	79:s2:1476:A:C2	3.05	0.44
79:s2:1558:C:H2'	79:s2:1559:C:C6	2.53	0.44
80:cB:309:LYS:O	80:cB:312:THR:OG1	2.26	0.44
80:cB:442:LEU:HD12	80:cB:443:TYR:H	1.82	0.44
80:cB:651:CYS:SG	80:cB:680:VAL:HG22	2.57	0.44
80:cB:672:LEU:HD13	80:cB:675:ILE:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:507:G:C2	85:l5:652:G:C2	3.06	0.44
85:l5:676:C:H2'	85:l5:677:G:C8	2.52	0.44
85:l5:1403:G:H2'	85:l5:1404:G:C8	2.53	0.44
85:l5:1617:G:H1'	85:l5:2513:A:N6	2.32	0.44
85:l5:1664:U:H2'	85:l5:1665:C:C6	2.53	0.44
85:l5:1964:A:H2'	85:l5:1965:G:H8	1.82	0.44
85:l5:4433:G:H2'	85:l5:4434:C:H6	1.82	0.44
85:l5:4586:G:C6	85:l5:4717:A:C6	3.06	0.44
85:l5:4967:A:H2'	85:l5:4968:A:C8	2.52	0.44
85:l5:4991:U:H2'	85:l5:4992:G:H8	1.82	0.44
2:SE:21:ASP:OD1	2:SE:24:THR:OG1	2.19	0.44
2:SE:179:ASN:H	2:SE:195:ILE:HG22	1.82	0.44
4:SL:135:SER:OG	4:SL:136:LYS:N	2.50	0.44
6:SG:7:PHE:HD2	6:SG:113:ILE:HD13	1.81	0.44
85:L5:156:G:N2	85:L5:157:U:O4	2.50	0.44
85:L5:195:C:H2'	85:L5:196:C:C6	2.52	0.44
85:L5:318:A:O2'	85:L5:3727:A:H1'	2.17	0.44
85:L5:436:C:H2'	85:L5:437:G:H8	1.82	0.44
85:L5:1318:C:H2'	85:L5:1319:U:O4'	2.18	0.44
85:L5:1342:A:OP1	34:LN:204:ARG:HD2	2.17	0.44
85:L5:1481:C:C5	54:Li:4:ARG:HD3	2.48	0.44
85:L5:1800:U:H2'	85:L5:1801:A:C8	2.52	0.44
85:L5:2344:U:H2'	46:La:9:ARG:HH22	1.83	0.44
85:L5:2497:C:H2'	85:L5:2498:C:H6	1.83	0.44
85:L5:2503:G:H5'	85:L5:4084:G:N2	2.33	0.44
85:L5:3708:C:N4	85:L5:3742:G:O6	2.34	0.44
85:L5:4507:A:O2'	42:LV:41:SER:OG	2.31	0.44
85:L5:4636:U:OP1	49:Ld:34:HIS:HA	2.18	0.44
22:LA:116:LEU:HD12	22:LA:117:GLU:H	1.82	0.44
23:LB:163:ILE:HD13	23:LB:182:GLU:HB3	1.99	0.44
26:LE:112:MET:O	62:Lr:87:ARG:NE	2.49	0.44
27:LF:27:GLU:O	27:LF:31:LYS:HG2	2.17	0.44
34:LN:116:LEU:HD22	34:LN:135:ILE:HD11	2.00	0.44
34:LN:150:TRP:O	34:LN:153:LYS:HB2	2.17	0.44
36:LP:103:GLU:C	36:LP:103:GLU:CD	2.85	0.44
71:ST:112:MET:SD	71:ST:123:LEU:CD2	3.06	0.44
72:SU:112:VAL:O	72:SU:113:GLU:OE2	2.36	0.44
75:Sg:104:HIS:CE1	75:Sg:130:LYS:HD2	2.53	0.44
79:S2:29:G:C6	79:S2:646:G:C6	3.06	0.44
79:S2:155:G:C6	79:S2:164:A:C6	3.06	0.44
79:S2:456:C:H2'	79:S2:457:C:H6	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:659:G:H5'	79:S2:660:C:OP1	2.17	0.44
79:S2:824:C:H2'	79:S2:825:A:C8	2.53	0.44
79:S2:1548:G:C2	79:S2:1549:U:C4	3.05	0.44
88:CF:29:TYR:CD1	88:CF:39:ILE:HG13	2.53	0.44
88:CF:378:LYS:C	88:CF:379:ILE:HD13	2.43	0.44
63:Lz:1:MET:CG	63:Lz:2:SER:N	2.80	0.44
63:Lz:156:LYS:HD2	63:Lz:156:LYS:H	1.82	0.44
10:sA:77:ILE:HD11	10:sA:124:VAL:HB	1.99	0.44
10:sA:89:LYS:HD2	10:sA:201:LEU:CD2	2.48	0.44
15:sC:207:ALA:HB2	79:s2:4:C:H4'	1.99	0.44
18:sW:18:GLU:OE2	18:sW:67:GLY:HA2	2.17	0.44
22:lA:234:LYS:HD2	85:l5:3667:C:P	2.57	0.44
23:lB:256:ALA:HB1	85:l5:4520:G:H1'	1.99	0.44
23:lB:358:ARG:HH11	23:lB:358:ARG:HB2	1.83	0.44
25:lD:62:CYS:SG	25:lD:105:LEU:HD22	2.57	0.44
28:lG:73:ARG:NH1	85:l5:4162:C:H5	2.11	0.44
30:lI:22:PHE:CZ	85:l5:1788:A:H2'	2.51	0.44
31:lJ:20:LEU:HD22	31:lJ:79:ALA:CA	2.48	0.44
32:lL:50:PRO:HB3	32:lL:150:LEU:HB3	2.00	0.44
35:lO:78:ARG:HD2	35:lO:78:ARG:HA	1.68	0.44
38:lR:79:GLY:O	85:l5:3619:G:H4'	2.17	0.44
45:lZ:46:ILE:HG23	45:lZ:49:TYR:CE1	2.53	0.44
61:lp:9:GLY:HA3	61:lp:27:LYS:NZ	2.33	0.44
64:sR:67:ARG:HB2	79:s2:1375:G:P	2.57	0.44
66:sF:56:TYR:CD2	66:sF:66:CYS:HB2	2.52	0.44
70:sS:117:ILE:O	70:sS:117:ILE:HG13	2.17	0.44
78:sf:138:ARG:O	78:sf:139:HIS:HD2	2.00	0.44
79:s2:162:C:H2'	79:s2:163:U:O4'	2.18	0.44
79:s2:432:G:H2'	79:s2:433:A:C8	2.52	0.44
79:s2:1316:C:H2'	79:s2:1317:C:C6	2.53	0.44
79:s2:1386:A:H2'	79:s2:1387:G:C8	2.53	0.44
79:s2:1756:C:N4	79:s2:1775:U:O4	2.50	0.44
80:cB:260:LEU:HD21	80:cB:293:ILE:HD11	1.99	0.44
80:cB:489:GLU:OE2	80:cB:489:GLU:N	2.50	0.44
80:cB:517:LEU:HD23	80:cB:517:LEU:H	1.82	0.44
80:cB:580:ARG:HD2	80:cB:817:TRP:CZ2	2.52	0.44
82:pE:37:A:C4	82:pE:38:A:C8	3.05	0.44
83:ls:95:LEU:O	83:ls:99:ARG:N	2.43	0.44
84:lt:112:ILE:HG22	84:lt:115:GLN:OE1	2.16	0.44
85:l5:323:C:H2'	85:l5:324:A:H8	1.82	0.44
85:l5:518:G:H1	85:l5:643:C:H2'	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:923:C:H2'	85:l5:925:C:C5	2.53	0.44
85:l5:1564:A:H2'	85:l5:1565:A:C8	2.52	0.44
85:l5:2461:G:H2'	85:l5:2462:C:C6	2.53	0.44
85:l5:3851:U:H2'	85:l5:3852:A:O4'	2.18	0.44
85:l5:3911:C:H2'	85:l5:3912:U:C6	2.52	0.44
85:l5:4059:C:O2'	85:l5:4060:U:H5'	2.17	0.44
85:l5:4273:A:H2'	85:l5:4274:A:C8	2.53	0.44
85:l5:4748:U:H2'	85:l5:4749:C:C6	2.53	0.44
85:l5:4761:G:H2'	85:l5:4762:A:H8	1.82	0.44
85:l5:5019:A:H2'	85:l5:5020:G:C8	2.53	0.44
6:SG:13:GLN:NE2	79:S2:166:A:N3	2.66	0.44
7:SJ:32:ILE:O	7:SJ:36:GLY:N	2.50	0.44
8:SY:19:GLN:HG3	8:SY:81:TYR:CD1	2.52	0.44
8:SY:61:ARG:N	8:SY:70:THR:O	2.45	0.44
12:SH:62:ILE:HB	12:SH:94:PHE:CE1	2.53	0.44
16:SN:20:ARG:NE	79:S2:919:A:OP1	2.34	0.44
85:L5:940:C:H2'	85:L5:941:C:O4'	2.18	0.44
85:L5:1217:G:C6	85:L5:1218:G:C6	3.06	0.44
85:L5:1369:C:OP2	85:L5:1370:G:O2'	2.22	0.44
85:L5:2008:U:H2'	85:L5:2010:A:C8	2.53	0.44
85:L5:3758:U:H2'	85:L5:3765:G:H22	1.83	0.44
85:L5:3951:G:H8	85:L5:3951:G:OP2	2.01	0.44
21:L8:14:U:H2'	21:L8:15:G:C8	2.53	0.44
29:LH:66:GLU:O	29:LH:69:THR:HG22	2.17	0.44
31:LJ:86:GLY:HA3	31:LJ:130:PHE:HE2	1.83	0.44
34:LN:148:THR:O	34:LN:151:ILE:HG22	2.17	0.44
37:LQ:124:ASP:OD1	37:LQ:125:GLN:N	2.48	0.44
37:LQ:187:LYS:C	37:LQ:188:ASN:HD22	2.20	0.44
38:LR:98:ARG:HG2	38:LR:99:MET:CE	2.48	0.44
43:LX:89:LYS:NZ	43:LX:93:ASN:HD21	2.14	0.44
46:La:131:ARG:O	46:La:134:GLU:HB3	2.17	0.44
52:Lg:102:ILE:O	52:Lg:106:VAL:HG22	2.18	0.44
64:SR:45:LYS:HG3	64:SR:49:LYS:HE3	1.99	0.44
66:SF:82:ASN:OD1	79:S2:1535:U:O2'	2.26	0.44
66:SF:139:VAL:HG13	73:Sc:47:LYS:HD2	1.99	0.44
71:ST:84:ARG:NH2	79:S2:1531:A:OP1	2.50	0.44
75:Sg:225:LYS:HD2	75:Sg:225:LYS:HA	1.90	0.44
79:S2:59:U:H5"	79:S2:503:C:N4	2.33	0.44
79:S2:527:C:H2'	79:S2:528:A:C8	2.52	0.44
79:S2:559:G:O2'	79:S2:560:A:H5"	2.17	0.44
79:S2:669:A:H2'	79:S2:670:A:C4	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1058:A:H2'	79:S2:1059:G:C8	2.53	0.44
79:S2:1162:C:H2'	79:S2:1163:C:O4'	2.18	0.44
79:S2:1213:C:H2'	79:S2:1214:A:C8	2.50	0.44
79:S2:1296:U:H2'	79:S2:1297:U:O4'	2.17	0.44
79:S2:1413:G:H2'	79:S2:1414:A:C8	2.53	0.44
84:Lt:10:ILE:O	84:Lt:11:LYS:HD2	2.18	0.44
63:Lz:109:ALA:HB1	63:Lz:139:THR:HB	1.98	0.44
83:Ls:40:MET:HA	83:Ls:43:ILE:HG22	1.99	0.44
1:cH:93:LYS:HE3	1:cH:93:LYS:HB3	1.82	0.44
6:sG:64:LYS:HB3	6:sG:67:VAL:HG23	1.99	0.44
8:sY:99:LYS:NZ	8:sY:101:LYS:HE2	2.33	0.44
9:se:38:TYR:O	9:se:42:PHE:HB2	2.17	0.44
10:sA:214:GLU:CD	10:sA:214:GLU:H	2.26	0.44
12:sH:30:LEU:HD23	12:sH:33:ASN:ND2	2.33	0.44
15:sC:169:TYR:HB2	15:sC:173:LYS:HG2	1.98	0.44
15:sC:196:ILE:HB	15:sC:223:TYR:HB2	2.00	0.44
17:sO:44:VAL:HG12	17:sO:54:CYS:H	1.83	0.44
17:sO:131:ASP:OD1	17:sO:131:ASP:C	2.60	0.44
20:l7:112:U:H2'	20:l7:113:G:H8	1.83	0.44
23:lB:265:SER:OG	85:l5:4459:U:O2'	2.28	0.44
24:lC:223:ASN:HD22	85:l5:225:G:P	2.41	0.44
24:lC:348:LYS:O	24:lC:352:ASP:OD2	2.36	0.44
26:lE:216:TYR:C	26:lE:216:TYR:CD1	2.96	0.44
27:lF:25:PHE:CE1	27:lF:28:LEU:HD11	2.53	0.44
29:lH:24:THR:HA	29:lH:37:ASP:HA	1.99	0.44
32:lL:18:TRP:CD1	32:lL:18:TRP:H	2.36	0.44
33:lM:24:LEU:HB3	33:lM:43:THR:HG21	2.00	0.44
37:lQ:9:LYS:HD3	37:lQ:9:LYS:HA	1.70	0.44
41:lU:102:VAL:HG22	41:lU:110:TYR:HE1	1.79	0.44
49:ld:18:ASN:O	49:ld:90:ARG:NH2	2.51	0.44
49:ld:30:HIS:CG	49:ld:82:TYR:HD2	2.36	0.44
51:lf:9:ALA:HB2	51:lf:30:ILE:HG13	1.99	0.44
52:lg:63:VAL:HG23	52:lg:66:ARG:CZ	2.47	0.44
54:li:4:ARG:NH1	85:l5:1482:G:O6	2.49	0.44
54:li:33:LEU:HD11	54:li:38:LYS:CB	2.48	0.44
57:ll:51:LEU:HD23	57:ll:51:LEU:H	1.83	0.44
63:lz:18:LEU:O	63:lz:19:HIS:ND1	2.50	0.44
64:sR:5:ARG:CB	79:s2:1367:U:H2'	2.47	0.44
64:sR:100:PRO:HD2	64:sR:122:PRO:CD	2.46	0.44
64:sR:126:MET:HG2	64:sR:129:LYS:CG	2.48	0.44
65:sD:72:VAL:HG21	67:sK:68:TYR:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:sK:45:VAL:O	67:sK:49:MET:HG2	2.18	0.44
71:sT:101:ARG:NH2	79:s2:1565:C:H41	2.16	0.44
72:sU:22:ILE:CG2	72:sU:89:ILE:HB	2.47	0.44
74:sd:19:ARG:HD3	74:sd:32:ARG:HD3	2.00	0.44
75:sg:104:HIS:CE1	75:sg:130:LYS:HD2	2.52	0.44
77:sZ:98:LYS:NZ	77:sZ:110:THR:HG23	2.33	0.44
79:s2:511:U:H2'	79:s2:512:A:C8	2.53	0.44
79:s2:1491:G:H2'	79:s2:1492:U:C6	2.53	0.44
80:cB:10:ARG:HH21	80:cB:14:ASP:HB3	1.82	0.44
80:cB:155:LEU:CD1	80:cB:157:MET:HG3	2.47	0.44
80:cB:744:ILE:CD1	80:cB:818:GLN:HB2	2.47	0.44
80:cB:760:TYR:CE1	80:cB:770:VAL:HB	2.53	0.44
83:ls:84:GLY:HA2	85:l5:2022:C:H5'	1.99	0.44
84:lt:77:ALA:HB3	84:lt:80:LEU:HD12	1.99	0.44
85:l5:496:G:O6	85:l5:497:G:N2	2.50	0.44
85:l5:2072:C:C2	85:l5:2073:C:C5	3.05	0.44
85:l5:3700:C:H2'	85:l5:3746:A:H61	1.83	0.44
85:l5:4344:U:H2'	85:l5:4345:C:H6	1.81	0.44
86:LW:9:SER:CA	86:LW:52:THR:HA	2.40	0.44
6:SG:81:HIS:O	6:SG:82:SER:OG	2.29	0.44
7:SJ:65:GLU:OE1	7:SJ:66:LYS:CA	2.66	0.44
11:SB:98:THR:O	11:SB:232:HIS:NE2	2.44	0.44
11:SB:137:LEU:HD11	11:SB:176:VAL:HG21	2.00	0.44
14:Sa:58:VAL:HG13	17:SO:126:ILE:O	2.18	0.44
85:L5:125:C:H2'	85:L5:126:C:C6	2.53	0.44
85:L5:150:U:H3	28:LG:163:PRO:CD	2.31	0.44
85:L5:454:U:H2'	85:L5:455:C:O4'	2.17	0.44
85:L5:498:C:H42	85:L5:657:C:H42	1.64	0.44
85:L5:502:C:H3'	85:L5:503:C:H3'	1.99	0.44
85:L5:986:C:H2'	85:L5:987:C:H6	1.82	0.44
85:L5:1079:C:H2'	85:L5:1080:C:H6	1.83	0.44
85:L5:1291:G:OP1	26:LE:219:LYS:NZ	2.43	0.44
85:L5:1733:G:N3	85:L5:4214:A:H2'	2.33	0.44
85:L5:1896:A:OP1	27:LF:97:GLY:N	2.50	0.44
85:L5:2270:G:H2'	85:L5:2271:C:C6	2.53	0.44
21:L8:152:U:H2'	21:L8:153:C:O4'	2.17	0.44
23:LB:207:VAL:HG13	23:LB:287:ILE:CD1	2.48	0.44
25:LD:236:MET:SD	25:LD:236:MET:C	3.01	0.44
26:LE:174:LEU:HD11	26:LE:186:LEU:CD2	2.48	0.44
27:LF:85:ALA:H	40:LT:138:ALA:HB2	1.82	0.44
31:LJ:111:GLU:OE2	70:SS:14:ARG:NH1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:LS:69:GLU:CD	39:LS:101:THR:HA	2.43	0.44
46:La:3:SER:HA	46:La:6:ARG:HG3	2.00	0.44
46:La:75:LEU:O	46:La:78:LEU:HB3	2.18	0.44
46:La:93:ASN:ND2	46:La:95:THR:O	2.51	0.44
52:Lg:84:ALA:HA	52:Lg:87:VAL:HB	2.00	0.44
61:Lp:84:ARG:NE	61:Lp:85:ARG:HH21	2.16	0.44
65:SD:131:ALA:HA	65:SD:191:PRO:HG3	1.99	0.44
65:SD:157:MET:N	65:SD:189:MET:HE1	2.30	0.44
66:SF:48:TYR:CE1	69:SQ:56:LEU:HD13	2.52	0.44
68:SP:95:GLY:HA2	68:SP:103:ASN:O	2.18	0.44
71:ST:107:LEU:HD22	71:ST:112:MET:CG	2.48	0.44
74:Sd:10:HIS:CD2	79:S2:1261:C:HO2'	2.34	0.44
77:SZ:88:LEU:HB3	77:SZ:109:TYR:CE2	2.53	0.44
78:Sf:92:LYS:HA	78:Sf:92:LYS:HD2	1.61	0.44
78:Sf:105:TYR:HD2	78:Sf:131:PHE:HE2	1.63	0.44
79:S2:50:A:OP2	79:S2:472:C:N4	2.43	0.44
79:S2:483:C:H2'	79:S2:484:A:O4'	2.17	0.44
79:S2:677:G:H21	79:S2:1028:A:H62	1.66	0.44
79:S2:1588:A:H2'	79:S2:1589:A:H8	1.83	0.44
79:S2:1630:A:N3	79:S2:1630:A:H2'	2.32	0.44
79:S2:1772:C:O2	79:S2:1772:C:H2'	2.18	0.44
84:Lt:12:VAL:HG12	84:Lt:12:VAL:O	2.18	0.44
63:Lz:139:THR:HG23	63:Lz:141:ASN:H	1.83	0.44
1:cH:36:GLU:HG2	1:cH:37:ASP:CG	2.42	0.44
1:cH:46:ALA:CA	9:se:41:ARG:HE	2.25	0.44
2:sE:47:PHE:CZ	2:sE:90:ILE:HD11	2.53	0.44
3:sI:31:ARG:NH2	79:s2:381:C:OP2	2.51	0.44
4:sL:82:MET:HE2	79:s2:372:U:O2'	2.17	0.44
6:sG:115:LYS:HB3	6:sG:115:LYS:HE3	1.77	0.44
7:sJ:66:LYS:HE2	7:sJ:66:LYS:HB2	1.69	0.44
11:sB:134:LEU:CD2	11:sB:219:LYS:HG2	2.48	0.44
11:sB:141:GLY:HA2	11:sB:210:VAL:HG22	1.99	0.44
11:sB:153:THR:OG1	11:sB:155:TYR:CE2	2.71	0.44
13:sV:77:GLY:HA2	13:sV:81:LYS:NZ	2.32	0.44
18:sW:7:LEU:HD11	18:sW:37:PHE:HD2	1.80	0.44
18:sW:37:PHE:CE1	18:sW:103:VAL:HG11	2.53	0.44
22:lA:44:ILE:HD11	22:lA:46:LYS:HE2	2.00	0.44
22:lA:84:THR:HG22	61:lp:63:THR:H	1.82	0.44
23:lB:10:ARG:HH12	23:lB:265:SER:HB2	1.81	0.44
23:lB:181:MET:HE1	23:lB:346:THR:CG2	2.48	0.44
23:lB:294:LYS:HE2	23:lB:294:LYS:HB2	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:lC:195:LYS:HE3	85:l5:2333:G:H5"	1.99	0.44
25:lD:132:VAL:HG21	25:lD:170:GLY:HA2	2.00	0.44
28:lG:206:GLN:OE1	28:lG:206:GLN:N	2.50	0.44
30:lI:74:LYS:HE3	30:lI:74:LYS:HB3	1.83	0.44
32:lL:19:GLN:HE21	32:lL:19:GLN:HB3	1.62	0.44
34:lN:42:PRO:HG3	34:lN:53:TYR:CE2	2.52	0.44
38:lR:38:ARG:NH2	85:l5:2527:A:OP1	2.50	0.44
38:lR:133:LYS:HB3	38:lR:133:LYS:HE3	1.74	0.44
38:lR:157:ASP:OD2	38:lR:157:ASP:C	2.61	0.44
45:lZ:121:ARG:HD3	45:lZ:121:ARG:HA	1.73	0.44
46:la:119:LYS:HB3	46:la:119:LYS:HE3	1.86	0.44
51:lf:45:LYS:HD3	51:lf:106:TYR:O	2.17	0.44
54:li:40:VAL:O	54:li:43:MET:HG3	2.17	0.44
57:ll:28:ARG:O	57:ll:33:ASN:ND2	2.39	0.44
63:lz:30:GLU:OE2	63:lz:208:SER:HB3	2.18	0.44
63:lz:33:GLU:HG2	63:lz:168:ALA:HA	2.00	0.44
64:sR:10:LYS:HG3	79:s2:1465:A:O2'	2.18	0.44
66:sF:147:VAL:O	66:sF:151:ILE:HG22	2.18	0.44
68:sP:75:VAL:HG11	68:sP:104:GLN:OE1	2.17	0.44
79:s2:344:U:H2'	79:s2:345:U:H6	1.82	0.44
79:s2:806:U:C2	79:s2:807:G:C8	3.06	0.44
79:s2:1616:U:O2	79:s2:1661:A:H2	2.01	0.44
79:s2:1753:C:H5'	79:s2:1780:G:H1	1.83	0.44
84:lt:147:HIS:HE1	84:lt:149:HIS:HB3	1.83	0.44
85:l5:468:U:C6	85:l5:469:C:H5	2.36	0.44
85:l5:1365:C:H2'	85:l5:1366:G:C8	2.53	0.44
85:l5:1967:A:C6	85:l5:2021:G:C6	3.06	0.44
85:l5:1998:A:H1'	85:l5:2019:C:O2'	2.17	0.44
85:l5:2538:U:H2'	85:l5:2539:C:H6	1.81	0.44
85:l5:2588:C:OP1	85:l5:2768:C:O2'	2.28	0.44
85:l5:4094:G:H2'	85:l5:4095:G:H5'	1.99	0.44
85:l5:4263:C:H2'	85:l5:4264:G:O4'	2.18	0.44
2:SE:201:HIS:CE1	79:S2:857:U:H4'	2.53	0.44
3:SI:5:ARG:O	3:SI:5:ARG:HG3	2.18	0.44
4:SL:82:MET:HE3	4:SL:85:THR:CB	2.47	0.44
5:SX:48:LYS:HG3	79:S2:483:C:C5'	2.45	0.44
10:SA:12:GLU:HG3	64:SR:114:LEU:HD11	1.99	0.44
11:SB:30:TRP:CZ3	17:SO:19:PRO:HB3	2.53	0.44
11:SB:225:LEU:HD12	11:SB:228:LEU:HD23	2.00	0.44
12:SH:54:GLY:HA3	12:SH:57:ARG:NH2	2.33	0.44
15:SC:106:VAL:HG21	15:SC:151:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:SO:78:ALA:HB3	17:SO:118:ALA:HB3	1.99	0.44
85:L5:678:C:C2	85:L5:679:C:C5	3.05	0.44
85:L5:727:C:H2'	85:L5:728:U:C6	2.53	0.44
85:L5:754:U:H2'	85:L5:755:C:C6	2.52	0.44
85:L5:1175:A:H5"	25:LD:268:ARG:HH12	1.83	0.44
85:L5:1217:G:N1	85:L5:1218:G:C6	2.85	0.44
85:L5:1452:A:C2	85:L5:1453:G:H1'	2.53	0.44
85:L5:1536:U:H2'	85:L5:1537:A:H8	1.83	0.44
85:L5:1558:A:H2'	85:L5:1559:G:C8	2.53	0.44
85:L5:1646:A:H2'	85:L5:1647:U:H6	1.83	0.44
85:L5:1789:C:H2'	85:L5:1790:U:C6	2.52	0.44
85:L5:1951:G:H1	85:L5:2032:U:H3	1.66	0.44
85:L5:2608:G:P	38:LR:100:ARG:HH22	2.41	0.44
85:L5:2654:C:H2'	85:L5:2655:C:C6	2.53	0.44
85:L5:4156:G:H3'	85:L5:4157:A:H8	1.83	0.44
85:L5:4246:G:H2'	85:L5:4247:G:C8	2.52	0.44
85:L5:4342:C:O3'	60:Lo:37:GLY:HA3	2.17	0.44
85:L5:4400:G:C6	85:L5:4401:G:N7	2.86	0.44
85:L5:4891:G:H1	85:L5:4928:C:H5	1.65	0.44
85:L5:4959:U:H2'	85:L5:4960:G:C8	2.53	0.44
23:LB:378:ARG:HD3	23:LB:379:PHE:CZ	2.53	0.44
25:LD:212:MET:HB2	25:LD:213:GLU:OE2	2.18	0.44
26:LE:176:THR:HB	26:LE:186:LEU:HD23	2.00	0.44
29:LH:13:PRO:HB2	29:LH:15:ASN:OD1	2.17	0.44
29:LH:150:ASP:OD1	29:LH:153:LEU:N	2.34	0.44
31:LJ:19:LYS:HD2	31:LJ:75:ARG:HH22	1.83	0.44
33:LM:51:PRO:C	33:LM:55:MET:HE2	2.43	0.44
36:LP:39:MET:O	36:LP:114:ILE:HG22	2.18	0.44
37:LQ:159:PRO:HB3	37:LQ:188:ASN:OXT	2.18	0.44
47:Lb:55:LYS:CD	47:Lb:55:LYS:C	2.89	0.44
50:Le:44:ARG:NH1	50:Le:52:GLN:OE1	2.51	0.44
54:Li:35:LYS:HB3	54:Li:35:LYS:HE3	1.84	0.44
65:SD:7:LYS:HZ1	72:SU:25:THR:HG22	1.82	0.44
65:SD:46:THR:O	65:SD:84:VAL:HA	2.17	0.44
65:SD:222:PRO:HB3	75:Sg:190:GLY:HA3	2.00	0.44
68:SP:42:ARG:HH22	79:S2:1613:G:P	2.41	0.44
73:Sc:20:ARG:NE	73:Sc:25:GLY:O	2.51	0.44
73:Sc:31:ARG:NH1	73:Sc:31:ARG:HG2	2.33	0.44
79:S2:347:G:H2'	79:S2:348:A:C8	2.53	0.44
79:S2:543:C:H3'	79:S2:544:G:H8	1.82	0.44
79:S2:1172:U:H2'	79:S2:1173:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1260:A:C8	79:S2:1261:C:H5	2.36	0.44
79:S2:1607:A:C5	79:S2:1608:U:C4	3.06	0.44
88:CF:155:MET:HB2	88:CF:162:TYR:CD1	2.52	0.44
89:Pt:51:C:H2'	89:Pt:52:G:C8	2.52	0.44
84:Lt:56:LEU:O	84:Lt:57:ARG:NE	2.51	0.44
83:Ls:30:VAL:O	83:Ls:87:GLY:N	2.50	0.44
83:Ls:61:MET:O	83:Ls:65:ILE:HG23	2.17	0.44
1:cH:47:GLY:H	9:se:55:PRO:CD	2.31	0.43
2:sE:126:VAL:HA	2:sE:141:THR:HA	1.99	0.43
6:sG:49:VAL:CG1	6:sG:115:LYS:HG2	2.48	0.43
6:sG:196:LYS:HE3	79:s2:126:G:O6	2.17	0.43
8:sY:19:GLN:N	8:sY:19:GLN:OE1	2.51	0.43
10:sA:75:SER:O	10:sA:122:LEU:HD12	2.18	0.43
11:sB:86:LEU:HD23	11:sB:100:PHE:HA	2.00	0.43
11:sB:227:LYS:HB2	11:sB:227:LYS:HE2	1.83	0.43
13:sV:40:ASP:OD1	13:sV:45:ARG:N	2.51	0.43
14:sa:46:GLU:OE2	14:sa:48:ALA:HB3	2.18	0.43
20:l7:39:C:H1'	31:lJ:47:THR:O	2.17	0.43
26:lE:202:ASP:O	26:lE:260:LYS:HD3	2.18	0.43
28:lG:103:ARG:HG3	28:lG:193:LEU:O	2.18	0.43
29:lH:66:GLU:OE2	29:lH:66:GLU:N	2.51	0.43
31:lJ:112:HIS:ND1	31:lJ:126:TYR:O	2.47	0.43
34:lN:160:GLU:OE2	34:lN:161:MET:HE3	2.18	0.43
35:lO:165:LYS:HB3	35:lO:165:LYS:HE3	1.88	0.43
36:lP:122:ALA:HB3	36:lP:143:PRO:HG2	1.99	0.43
50:le:43:ASN:ND2	50:le:46:ARG:H	2.16	0.43
50:le:78:LEU:HD11	50:le:100:ALA:HB2	2.00	0.43
60:lo:12:CYS:HB2	60:lo:21:HIS:CE1	2.53	0.43
64:sR:107:LYS:NZ	64:sR:112:GLY:HA3	2.33	0.43
71:sT:62:ARG:HH22	79:s2:1543:U:P	2.40	0.43
75:sg:87:LEU:HD21	75:sg:108:VAL:HG21	1.98	0.43
75:sg:129:ILE:HG22	75:sg:142:VAL:HB	1.99	0.43
77:sZ:50:PHE:CE2	77:sZ:58:LEU:HD21	2.53	0.43
78:sf:89:LYS:C	78:sf:90:LYS:HD3	2.43	0.43
78:sf:89:LYS:O	78:sf:90:LYS:HE2	2.17	0.43
78:sf:103:LEU:HD13	78:sf:105:TYR:N	2.33	0.43
78:sf:103:LEU:CD1	78:sf:105:TYR:N	2.80	0.43
79:s2:109:U:H2'	79:s2:110:U:C6	2.53	0.43
79:s2:900:C:H5'	79:s2:901:G:N7	2.33	0.43
79:s2:1345:G:OP1	79:s2:1688:C:O2'	2.36	0.43
80:cB:155:LEU:HD11	80:cB:157:MET:HG3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:476:ASP:O	80:cB:529:LYS:NZ	2.51	0.43
80:cB:593:SER:OG	80:cB:602:LEU:HB2	2.18	0.43
81:aP:29:C:O2	81:aP:41:G:N1	2.49	0.43
82:pE:22:G:H2'	82:pE:23:A:H8	1.83	0.43
83:ls:10:LYS:NZ	85:l5:1960:A:O2'	2.34	0.43
83:ls:16:LYS:HB2	83:ls:16:LYS:HE3	1.85	0.43
83:ls:38:LYS:NZ	85:l5:1971:C:C4'	2.81	0.43
83:ls:63:LYS:HA	83:ls:66:ARG:HG2	2.00	0.43
85:l5:1205:G:H2'	85:l5:1206:C:C6	2.53	0.43
85:l5:1269:G:HO2'	85:l5:1440:U:HO2'	1.52	0.43
85:l5:1368:A:H2'	85:l5:1369:C:O4'	2.18	0.43
85:l5:1978:C:H2'	85:l5:1979:A:O4'	2.17	0.43
85:l5:2274:C:H2'	85:l5:2275:G:C8	2.53	0.43
85:l5:2710:C:N3	85:l5:2712:G:C8	2.86	0.43
85:l5:2816:G:H2'	85:l5:2817:C:H6	1.83	0.43
85:l5:4595:G:H2'	85:l5:4596:C:C6	2.53	0.43
2:SE:131:VAL:HA	2:SE:137:PRO:HA	2.01	0.43
8:SY:122:LYS:O	8:SY:122:LYS:NZ	2.46	0.43
11:SB:172:MET:H	11:SB:172:MET:HG2	1.54	0.43
16:SN:140:LYS:HA	16:SN:140:LYS:HD3	1.56	0.43
17:SO:61:LYS:N	17:SO:61:LYS:HD2	2.33	0.43
85:L5:919:C:C2	85:L5:920:C:C5	3.06	0.43
85:L5:1355:G:O5'	37:LQ:108:ARG:NH2	2.50	0.43
85:L5:1727:U:H2'	85:L5:1728:U:H6	1.83	0.43
85:L5:1875:C:H2'	85:L5:1876:U:C6	2.53	0.43
85:L5:1995:G:H2'	85:L5:1996:C:C6	2.53	0.43
85:L5:2821:U:C4	85:L5:2822:G:C5	3.05	0.43
85:L5:2838:G:H5"	23:LB:247:GLY:HA2	2.00	0.43
85:L5:3727:A:H2'	85:L5:3728:A:C8	2.53	0.43
85:L5:3835:C:C2	85:L5:3836:A:C8	3.05	0.43
85:L5:4262:C:H2'	85:L5:4263:C:C6	2.53	0.43
85:L5:4473:A:OP1	58:Lm:102:ARG:HD3	2.18	0.43
85:L5:4908:G:C6	85:L5:4912:G:C6	3.06	0.43
20:L7:59:G:C4	20:L7:60:G:C8	3.07	0.43
22:LA:28:ARG:HB2	22:LA:123:ARG:CB	2.47	0.43
22:LA:80:GLU:OE2	61:Lp:76:ALA:CB	2.66	0.43
24:LC:140:LYS:HE2	24:LC:242:PRO:HD2	2.00	0.43
25:LD:218:ALA:HA	25:LD:221:LYS:HB3	2.00	0.43
25:LD:235:MET:HE2	25:LD:235:MET:C	2.43	0.43
27:LF:216:PRO:HA	27:LF:247:MET:SD	2.58	0.43
27:LF:220:MET:HB2	27:LF:232:ASP:OD2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:LI:56:GLU:OE2	30:LI:57:TYR:N	2.51	0.43
30:LI:66:GLU:OE2	30:LI:69:ARG:NH2	2.44	0.43
31:LJ:105:PHE:C	31:LJ:105:PHE:CD1	2.96	0.43
33:LM:129:LYS:HA	33:LM:132:LYS:HE2	1.98	0.43
39:LS:30:MET:SD	39:LS:44:PHE:CD1	3.11	0.43
40:LT:150:LEU:HD12	40:LT:151:LEU:H	1.81	0.43
43:LX:151:ASN:HA	43:LX:156:ILE:CD1	2.47	0.43
44:LY:21:ALA:O	44:LY:26:ARG:NE	2.37	0.43
64:SR:26:ASN:HA	64:SR:58:MET:SD	2.58	0.43
65:SD:19:ALA:HA	74:Sd:49:ASP:OD2	2.18	0.43
65:SD:24:PHE:CE1	67:SK:68:TYR:CD1	3.06	0.43
65:SD:225:GLU:OE1	65:SD:227:LYS:HE2	2.18	0.43
67:SK:64:TRP:CD1	74:Sd:23:VAL:HG13	2.53	0.43
69:SQ:24:HIS:HE2	69:SQ:26:LYS:HG2	1.83	0.43
75:Sg:177:TRP:CE2	75:Sg:184:LEU:HD13	2.52	0.43
79:S2:35:C:H2'	79:S2:36:U:C6	2.53	0.43
79:S2:69:C:H2'	79:S2:70:G:O4'	2.17	0.43
79:S2:94:G:O2'	79:S2:508:A:O2'	2.13	0.43
79:S2:224:A:H2'	79:S2:225:G:C8	2.54	0.43
79:S2:1820:G:H2'	79:S2:1821:U:C6	2.53	0.43
82:Et:51:G:H2'	82:Et:52:G:H8	1.83	0.43
88:CF:37:ARG:O	88:CF:40:GLU:HG2	2.18	0.43
88:CF:357:TYR:CZ	88:CF:359:PRO:HB3	2.53	0.43
89:Pt:38:C:H2'	89:Pt:39:G:O4'	2.18	0.43
89:Pt:50:U:H2'	89:Pt:51:C:H6	1.81	0.43
63:Lz:55:LEU:HD21	63:Lz:169:VAL:HG13	1.99	0.43
83:Ls:18:ILE:HG13	83:Ls:68:HIS:ND1	2.33	0.43
83:Ls:119:CYS:HB2	83:Ls:183:PHE:HB3	1.99	0.43
2:sE:163:ASP:OD1	2:sE:166:THR:OG1	2.36	0.43
2:sE:189:LEU:HD12	2:sE:189:LEU:HA	1.88	0.43
3:sI:61:ASP:O	3:sI:78:ILE:N	2.42	0.43
3:sI:169:GLY:O	3:sI:170:LYS:HD3	2.18	0.43
4:sL:37:TYR:C	4:sL:37:TYR:CD1	2.96	0.43
4:sL:82:MET:HE1	79:s2:372:U:C2'	2.48	0.43
6:sG:84:TYR:OH	6:sG:91:GLU:O	2.27	0.43
6:sG:136:LYS:NZ	79:s2:170:A:O2'	2.48	0.43
6:sG:223:LYS:O	6:sG:223:LYS:NZ	2.47	0.43
8:sY:66:GLY:HA2	79:s2:581:U:H4'	2.00	0.43
10:sA:18:PHE:CE1	10:sA:23:THR:HG23	2.53	0.43
12:sH:137:SER:OG	12:sH:138:GLU:N	2.51	0.43
12:sH:145:ARG:N	12:sH:153:LEU:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:sC:264:SER:HB3	15:sC:267:GLN:OE1	2.18	0.43
22:lA:245:ARG:NE	85:l5:3747:A:N7	2.65	0.43
23:lB:132:LYS:NZ	85:l5:4728:U:OP1	2.49	0.43
23:lB:286:LYS:CB	23:lB:332:MET:HE2	2.39	0.43
24:lC:207:PRO:HB3	24:lC:249:PHE:CD2	2.53	0.43
25:lD:206:ASP:O	25:lD:210:TYR:N	2.51	0.43
26:lE:95:PRO:HB2	85:l5:687:U:C5	2.53	0.43
27:lF:136:VAL:CG2	27:lF:139:TYR:HB2	2.47	0.43
32:lL:62:PRO:HG3	85:l5:74:G:H1'	2.00	0.43
32:lL:103:ARG:O	32:lL:103:ARG:HD2	2.18	0.43
37:lQ:97:LYS:O	37:lQ:98:LEU:HD23	2.18	0.43
37:lQ:175:GLU:OE2	46:la:49:HIS:HB3	2.18	0.43
63:lz:66:CYS:HB3	63:lz:82:ILE:HD13	1.99	0.43
63:lz:113:SER:OG	63:lz:114:GLU:N	2.49	0.43
66:sF:17:ILE:C	66:sF:18:LYS:HG2	2.43	0.43
69:sQ:45:ARG:CA	69:sQ:48:GLN:HB3	2.43	0.43
69:sQ:146:ARG:NH2	82:pE:35:U:OP2	2.48	0.43
70:sS:38:ARG:HD2	71:sT:45:LEU:HD21	1.99	0.43
70:sS:86:ARG:NH1	70:sS:106:LYS:HB3	2.32	0.43
73:sc:16:LYS:HA	73:sc:52:GLU:HG3	1.99	0.43
75:sg:300:ALA:O	75:sg:307:VAL:HG13	2.18	0.43
79:s2:372:U:N3	79:s2:373:G:N7	2.66	0.43
79:s2:386:C:H2'	79:s2:387:C:C6	2.53	0.43
79:s2:653:A:H2'	79:s2:654:A:O4'	2.17	0.43
79:s2:924:G:H2'	79:s2:925:G:O4'	2.18	0.43
79:s2:1278:A:H2'	79:s2:1279:C:C6	2.53	0.43
79:s2:1464:C:H2'	79:s2:1465:A:C5	2.53	0.43
80:cB:434:TYR:CE1	80:cB:442:LEU:HD22	2.54	0.43
80:cB:519:LYS:HB2	80:cB:519:LYS:HE3	1.73	0.43
80:cB:635:LEU:HB2	80:cB:641:TRP:CD1	2.53	0.43
80:cB:671:TYR:HD1	80:cB:709:LEU:HD12	1.84	0.43
81:aP:37:A:H2'	81:aP:38:C:O4'	2.18	0.43
82:pE:37:A:C3'	82:pE:38:A:H5'	2.49	0.43
85:l5:750:U:C2	85:l5:751:G:C8	3.06	0.43
85:l5:1170:G:N1	85:l5:1192:C:N3	2.66	0.43
85:l5:1567:U:H2'	85:l5:1568:C:C6	2.53	0.43
85:l5:1700:G:N7	85:l5:2097:U:H1'	2.33	0.43
85:l5:1762:C:H5"	85:l5:1764:G:H22	1.83	0.43
85:l5:2415:U:H2'	85:l5:2416:G:C8	2.52	0.43
86:LW:94:ARG:C	86:LW:96:GLN:OE1	2.61	0.43
2:SE:125:LYS:O	2:SE:142:HIS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SE:165:GLU:N	2:SE:165:GLU:OE2	2.51	0.43
3:SI:12:ARG:HG3	3:SI:18:ARG:NH2	2.33	0.43
4:SL:85:THR:HA	4:SL:112:HIS:HA	2.00	0.43
5:SX:48:LYS:NZ	79:S2:483:C:H5"	2.34	0.43
6:SG:176:ILE:HG22	79:S2:77:A:N3	2.34	0.43
7:SJ:28:GLU:CD	7:SJ:40:LYS:HD3	2.43	0.43
10:SA:122:LEU:HD21	10:SA:133:PRO:HB2	2.00	0.43
11:SB:62:LEU:O	11:SB:88:THR:OG1	2.33	0.43
16:SN:78:LYS:O	16:SN:78:LYS:NZ	2.31	0.43
19:Sb:34:ASP:HA	19:Sb:44:THR:O	2.18	0.43
85:L5:105:A:H2'	85:L5:106:A:O4'	2.17	0.43
85:L5:713:C:H2'	85:L5:714:G:C8	2.53	0.43
85:L5:1263:A:H2'	85:L5:1264:C:C6	2.53	0.43
85:L5:1380:G:H4'	85:L5:1381:U:H6	1.83	0.43
85:L5:1819:G:N3	25:LD:113:PHE:CE2	2.83	0.43
85:L5:2823:G:P	38:LR:19:LYS:H	2.41	0.43
85:L5:2885:A:H2'	85:L5:2886:U:H6	1.81	0.43
85:L5:2886:U:H2'	85:L5:2887:U:C6	2.54	0.43
85:L5:3702:A:C6	85:L5:3703:G:C8	3.06	0.43
85:L5:3858:C:H3'	36:LP:25:HIS:HE2	1.83	0.43
85:L5:4092:G:C2	85:L5:4093:G:C4	3.07	0.43
85:L5:4685:U:H2'	85:L5:4686:G:C8	2.52	0.43
85:L5:4749:C:H2'	85:L5:4750:G:O4'	2.18	0.43
85:L5:4750:G:C2	85:L5:4751:G:C5	3.06	0.43
20:L7:11:A:O2'	20:L7:13:A:OP2	2.34	0.43
21:L8:13:G:C6	21:L8:14:U:C4	3.06	0.43
21:L8:155:C:OP2	28:LG:89:ARG:NH1	2.51	0.43
31:LJ:92:TYR:N	31:LJ:92:TYR:CD1	2.86	0.43
37:LQ:59:PRO:HG3	37:LQ:143:ARG:HA	2.00	0.43
37:LQ:66:MET:HE2	37:LQ:66:MET:HB2	1.90	0.43
42:LV:45:ILE:CD1	42:LV:53:PRO:HA	2.48	0.43
44:LY:67:ILE:HD12	44:LY:107:THR:HG21	2.00	0.43
45:LZ:105:ALA:HA	45:LZ:108:ARG:CZ	2.48	0.43
48:Lc:42:LYS:O	48:Lc:97:ILE:HG23	2.19	0.43
51:Lf:35:ALA:HB3	51:Lf:38:GLU:OE1	2.19	0.43
56:Lk:49:ASP:HB3	56:Lk:52:LYS:HD2	1.99	0.43
61:Lp:55:TRP:CD1	61:Lp:66:GLY:HA3	2.53	0.43
67:SK:96:ARG:HH11	67:SK:96:ARG:C	2.26	0.43
72:SU:24:LEU:CD2	72:SU:112:VAL:HA	2.46	0.43
72:SU:53:PRO:HA	72:SU:89:ILE:HD11	1.99	0.43
74:Sd:3:HIS:CE1	74:Sd:5:GLN:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:Sg:20:GLN:H	75:Sg:34:ALA:HB3	1.82	0.43
78:Sf:138:ARG:NE	79:S2:1293:A:O2'	2.50	0.43
79:S2:300:U:H2'	79:S2:301:A:C8	2.53	0.43
79:S2:1440:C:H2'	79:S2:1441:U:C6	2.53	0.43
79:S2:1827:U:C2	79:S2:1828:C:C5	3.06	0.43
88:CF:15:HIS:NE2	88:CF:126:GLY:O	2.49	0.43
2:sE:196:THR:HG21	2:sE:211:LYS:HG3	2.00	0.43
4:sL:130:GLU:HA	4:sL:140:PHE:CD2	2.53	0.43
7:sJ:127:ARG:HH21	79:s2:523:A:P	2.40	0.43
8:sY:42:GLU:O	8:sY:46:LYS:HG2	2.18	0.43
10:sA:73:ASP:C	10:sA:73:ASP:OD2	2.61	0.43
11:sB:71:LEU:HD12	11:sB:71:LEU:HA	1.77	0.43
11:sB:205:TYR:CE1	64:sR:135:VAL:HG12	2.53	0.43
12:sH:100:ILE:HD11	12:sH:121:THR:C	2.44	0.43
14:sa:13:LYS:HD3	14:sa:13:LYS:HA	1.73	0.43
15:sC:102:LEU:HD12	15:sC:132:ASP:N	2.32	0.43
16:sN:25:TRP:CE3	16:sN:26:LEU:HD22	2.53	0.43
17:sO:61:LYS:N	17:sO:61:LYS:HD2	2.33	0.43
24:lC:109:ARG:HD2	24:lC:111:TRP:CH2	2.53	0.43
24:lC:329:ASN:ND2	27:lF:188:GLU:OE2	2.51	0.43
25:lD:86:TYR:HE2	25:lD:247:ILE:HG13	1.83	0.43
27:lF:152:GLU:OE2	27:lF:248:ASN:HB3	2.18	0.43
28:lG:70:LEU:O	28:lG:74:LEU:HD12	2.19	0.43
29:lH:20:LEU:HD11	29:lH:45:LEU:HB2	1.99	0.43
29:lH:129:ARG:HD3	29:lH:129:ARG:HA	1.67	0.43
33:lM:44:GLN:OE1	85:l5:935:A:H1'	2.18	0.43
34:lN:142:ILE:HG13	34:lN:148:THR:HB	1.99	0.43
39:lS:90:THR:HG23	40:lT:156:TYR:CD2	2.54	0.43
41:lU:48:LYS:N	41:lU:82:TYR:OH	2.47	0.43
44:lY:1:MET:HE3	44:lY:2:LYS:N	2.33	0.43
45:lZ:99:ASP:CB	45:lZ:102:ARG:NH2	2.75	0.43
64:sR:31:ASN:HB2	79:s2:1455:A:OP2	2.18	0.43
64:sR:33:ARG:NH2	64:sR:36:GLU:OE1	2.41	0.43
64:sR:56:HIS:O	64:sR:59:LYS:HB2	2.17	0.43
66:sF:40:ALA:O	66:sF:45:TYR:HE1	1.90	0.43
71:sT:13:GLU:CD	71:sT:13:GLU:H	2.26	0.43
71:sT:39:LEU:HD23	79:s2:1540:G:OP1	2.17	0.43
73:sc:31:ARG:HA	73:sc:31:ARG:HE	1.83	0.43
75:sg:154:VAL:HG12	75:sg:167:SER:HA	2.00	0.43
76:sM:48:HIS:ND1	76:sM:112:LYS:HA	2.34	0.43
79:s2:452:G:H2'	79:s2:453:C:C6	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:536:A:N1	79:s2:537:C:O2'	2.50	0.43
79:s2:615:C:H2'	79:s2:616:A:O4'	2.18	0.43
80:cB:4:PHE:HB3	80:cB:8:GLN:CD	2.44	0.43
80:cB:26:ALA:HB2	80:cB:128:VAL:HB	2.00	0.43
82:pE:62:C:H2'	82:pE:63:C:H6	1.80	0.43
84:lt:114:ARG:HH21	84:lt:134:GLY:N	2.16	0.43
85:l5:1247:U:H2'	85:l5:1248:C:C6	2.53	0.43
85:l5:1956:A:H2'	85:l5:1957:U:H6	1.83	0.43
85:l5:2264:C:H2'	85:l5:2265:G:O4'	2.18	0.43
85:l5:2273:G:H2'	85:l5:2274:C:H6	1.83	0.43
85:l5:4072:C:C2	85:l5:4073:A:C8	3.06	0.43
85:l5:4242:U:H3	85:l5:4281:A:H2	1.63	0.43
2:SE:43:PRO:HA	2:SE:82:TYR:O	2.18	0.43
2:SE:182:MET:SD	2:SE:192:ILE:HG13	2.58	0.43
3:SI:139:LYS:O	3:SI:140:LYS:HG3	2.19	0.43
4:SL:29:GLY:HA3	4:SL:30:LYS:HA	1.56	0.43
6:SG:65:GLN:NE2	79:S2:1745:A:H2'	2.34	0.43
85:L5:282:C:H2'	85:L5:283:G:O4'	2.18	0.43
85:L5:423:G:H2'	85:L5:424:U:C6	2.53	0.43
85:L5:1213:G:C5	85:L5:1216:C:H5'	2.53	0.43
85:L5:1248:C:H2'	85:L5:1249:C:C6	2.54	0.43
85:L5:1468:C:H2'	85:L5:1469:C:H6	1.83	0.43
85:L5:1840:G:H2'	85:L5:1841:C:C6	2.53	0.43
85:L5:1849:U:H3'	32:LL:5:ARG:HH12	1.82	0.43
85:L5:2065:G:H21	51:Lf:80:ASN:HD22	1.66	0.43
85:L5:2082:G:H5"	37:LQ:12:LYS:HD2	2.00	0.43
85:L5:2362:U:H2'	85:L5:2363:A:C8	2.54	0.43
85:L5:2602:G:O4'	85:L5:2742:G:H2'	2.19	0.43
85:L5:2626:U:C6	41:LU:92:LYS:HG2	2.53	0.43
85:L5:2629:C:H2'	85:L5:2630:U:C6	2.54	0.43
85:L5:2641:A:H2'	85:L5:2642:A:O4'	2.18	0.43
85:L5:2652:G:N2	61:Lp:59:SER:O	2.51	0.43
85:L5:2709:C:OP1	38:LR:43:LYS:NZ	2.51	0.43
85:L5:2811:G:N1	85:L5:2814:C:OP2	2.43	0.43
85:L5:2897:G:H2'	85:L5:2898:G:C8	2.53	0.43
85:L5:3612:C:H2'	85:L5:3613:U:C6	2.53	0.43
85:L5:3666:C:OP1	22:LA:234:LYS:NZ	2.44	0.43
85:L5:3688:U:H2'	85:L5:3689:G:C8	2.53	0.43
85:L5:3834:C:H2'	85:L5:3835:C:C6	2.54	0.43
85:L5:4036:G:C5	85:L5:4037:C:H1'	2.53	0.43
85:L5:4209:G:C6	85:L5:4224:A:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:L7:54:A:O3'	31:LJ:154:LYS:NZ	2.32	0.43
21:L8:8:U:H2'	21:L8:9:A:H8	1.82	0.43
21:L8:41:A:O2'	55:Lj:59:THR:HG22	2.17	0.43
21:L8:81:C:O2'	21:L8:83:C:OP2	2.19	0.43
21:L8:132:G:O3'	43:LX:69:ASN:HB2	2.18	0.43
23:LB:216:MET:SD	23:LB:282:LYS:N	2.91	0.43
24:LC:25:PRO:HD2	24:LC:28:PHE:HE2	1.82	0.43
24:LC:143:ARG:HD3	24:LC:143:ARG:HA	1.89	0.43
26:LE:221:LYS:HA	26:LE:237:LYS:NZ	2.33	0.43
28:LG:30:PRO:HG2	45:LZ:124:THR:HA	1.99	0.43
28:LG:106:THR:N	28:LG:109:GLU:OE1	2.30	0.43
29:LH:19:THR:OG1	29:LH:26:ILE:HB	2.18	0.43
38:LR:23:TRP:HB2	38:LR:53:LYS:HG3	1.99	0.43
52:Lg:100:GLN:O	52:Lg:104:VAL:HG23	2.18	0.43
62:Lr:64:ILE:HG23	62:Lr:102:TYR:CZ	2.53	0.43
64:SR:73:LEU:HD12	64:SR:74:GLN:N	2.33	0.43
64:SR:86:PRO:HB2	64:SR:88:VAL:O	2.18	0.43
65:SD:38:GLU:OE1	65:SD:49:ILE:HB	2.18	0.43
67:SK:26:ASP:C	67:SK:28:HIS:H	2.24	0.43
67:SK:51:SER:OG	79:S2:1277:C:OP1	2.37	0.43
67:SK:54:SER:OG	79:S2:1277:C:O4'	2.31	0.43
79:S2:36:U:O2	79:S2:826:A:H2	2.01	0.43
79:S2:389:A:C4	79:S2:390:C:C5	3.06	0.43
79:S2:564:A:H2'	79:S2:565:G:O4'	2.19	0.43
79:S2:947:G:H2'	79:S2:948:C:C6	2.53	0.43
79:S2:1387:G:H2'	79:S2:1388:A:O4'	2.17	0.43
88:CF:94:GLY:CA	88:CF:102:MET:CE	2.96	0.43
88:CF:283:VAL:HG23	88:CF:285:VAL:HG12	2.01	0.43
89:Pt:18:G:H21	89:Pt:58:A:H5'	1.83	0.43
63:Lz:53:VAL:HG12	63:Lz:54:ARG:N	2.33	0.43
83:Ls:21:LEU:CD1	83:Ls:69:LEU:HD11	2.45	0.43
83:Ls:99:ARG:HG3	83:Ls:189:ILE:HD11	1.98	0.43
2:sE:185:GLY:C	2:sE:224:ASN:HD22	2.27	0.43
3:sI:133:GLU:O	3:sI:137:LEU:HD23	2.18	0.43
4:sL:76:VAL:HG22	4:sL:125:ILE:HG13	2.00	0.43
6:sG:64:LYS:HB3	6:sG:67:VAL:CG2	2.48	0.43
6:sG:183:ARG:NH1	79:s2:316:G:H5"	2.33	0.43
10:sA:54:THR:O	10:sA:58:LEU:HD12	2.19	0.43
11:sB:121:ILE:HD12	11:sB:164:ILE:CD1	2.33	0.43
13:sV:38:GLU:CD	13:sV:38:GLU:H	2.26	0.43
14:sa:21:ILE:HD12	14:sa:72:HIS:CG	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:sO:131:ASP:OD1	17:sO:131:ASP:O	2.37	0.43
21:l8:19:C:H2'	21:l8:20:A:C8	2.53	0.43
21:l8:109:C:C4	55:lj:20:ARG:NH2	2.87	0.43
23:lB:23:SER:OG	85:l5:4718:G:OP2	2.36	0.43
23:lB:254:ILE:O	23:lB:254:ILE:HG13	2.18	0.43
25:lD:208:MET:SD	25:lD:223:PHE:CD2	3.12	0.43
27:lF:83:VAL:HG22	39:lS:62:VAL:HA	2.00	0.43
27:lF:179:LEU:HB3	27:lF:184:ILE:HB	2.00	0.43
28:lG:148:GLU:OE1	34:lN:6:TYR:OH	2.19	0.43
34:lN:195:ARG:HE	34:lN:195:ARG:HB3	1.57	0.43
39:lS:92:ASN:ND2	40:lT:156:TYR:O	2.44	0.43
41:lU:23:LEU:HD23	41:lU:24:ASP:N	2.33	0.43
45:lZ:36:ARG:HH22	85:l5:2580:U:P	2.42	0.43
47:lb:102:PRO:HA	47:lb:109:ARG:HH22	1.82	0.43
49:ld:57:MET:CE	49:ld:90:ARG:HB2	2.48	0.43
57:ll:38:ASN:HB3	57:ll:41:ARG:HG2	2.00	0.43
58:lm:86:ALA:O	58:lm:90:ASN:HB2	2.17	0.43
65:sD:63:GLY:O	65:sD:67:ARG:HB2	2.17	0.43
65:sD:74:GLN:OE1	65:sD:79:PHE:HB2	2.19	0.43
65:sD:192:TRP:CD1	65:sD:192:TRP:C	2.97	0.43
66:sF:135:ARG:NH2	66:sF:136:ARG:HG3	2.33	0.43
71:sT:132:ASP:O	71:sT:136:GLY:N	2.51	0.43
74:sd:30:LEU:O	79:s2:1256:G:N2	2.30	0.43
75:sg:267:VAL:HG12	75:sg:268:ASP:OD1	2.18	0.43
75:sg:306:LEU:C	75:sg:306:LEU:CD1	2.91	0.43
77:sZ:58:LEU:CA	77:sZ:62:VAL:HG23	2.48	0.43
79:s2:44:U:OP1	79:s2:407:G:N2	2.52	0.43
79:s2:958:G:C6	79:s2:959:G:C6	3.06	0.43
79:s2:1317:C:C2	79:s2:1318:G:C8	3.06	0.43
79:s2:1456:G:H2'	79:s2:1457:U:H6	1.83	0.43
79:s2:1539:U:H2'	79:s2:1540:G:C8	2.53	0.43
80:cB:685:TRP:NE1	80:cB:726:ARG:HD3	2.34	0.43
81:aP:5:C:H2'	81:aP:6:C:C6	2.53	0.43
81:aP:25:C:C2'	81:aP:26:G:H5'	2.49	0.43
85:l5:1995:G:C5	85:l5:1996:C:C4	3.06	0.43
85:l5:4541:G:N2	85:l5:4544:A:OP2	2.44	0.43
85:l5:5038:A:H2'	85:l5:5039:U:C6	2.54	0.43
86:LW:19:ARG:NH1	86:LW:34:ALA:HB2	2.32	0.43
86:LW:37:GLU:O	86:LW:41:LEU:HD13	2.18	0.43
11:SB:72:ALA:HB3	17:SO:128:ARG:HH21	1.84	0.43
11:SB:107:ARG:HE	11:SB:107:ARG:HB2	1.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Sa:10:ARG:HD2	79:S2:1860:A:OP2	2.18	0.43
16:SN:12:SER:O	16:SN:12:SER:OG	2.25	0.43
18:SW:102:ILE:HG22	18:SW:113:HIS:CB	2.48	0.43
85:L5:369:G:N1	85:L5:373:G:C6	2.87	0.43
85:L5:516:C:N4	85:L5:646:G:C6	2.86	0.43
85:L5:1553:A:H8	85:L5:1553:A:O5'	2.01	0.43
85:L5:1557:C:H2'	85:L5:1558:A:H8	1.82	0.43
85:L5:1646:A:OP1	24:LC:63:SER:OG	2.36	0.43
85:L5:2517:A:H2'	85:L5:2518:G:C8	2.54	0.43
85:L5:2525:U:C2	85:L5:2528:G:C6	3.06	0.43
85:L5:4093:G:N7	85:L5:4095:G:C2	2.86	0.43
85:L5:4344:U:OP1	60:Lo:32:SER:HB3	2.19	0.43
85:L5:4345:C:H2'	85:L5:4346:U:H6	1.83	0.43
85:L5:4372:U:OP2	60:Lo:61:LYS:HG2	2.18	0.43
85:L5:4661:G:H2'	85:L5:4662:C:C6	2.53	0.43
85:L5:4977:A:OP1	23:LB:225:GLY:N	2.41	0.43
85:L5:5004:C:H2'	85:L5:5005:G:O4'	2.19	0.43
28:LG:223:ARG:O	28:LG:228:ASP:OD2	2.37	0.43
32:LL:162:LYS:HD2	32:LL:162:LYS:HA	1.93	0.43
36:LP:125:MET:HB2	36:LP:141:SER:OG	2.19	0.43
37:LQ:18:PRO:HD3	37:LQ:52:PHE:CE1	2.54	0.43
40:LT:114:GLN:HB3	40:LT:115:LYS:HE2	1.99	0.43
44:LY:100:HIS:CG	44:LY:101:PRO:HD2	2.53	0.43
47:Lb:90:SER:OG	47:Lb:91:ARG:N	2.51	0.43
62:Lr:97:ILE:HG23	62:Lr:102:TYR:O	2.17	0.43
64:SR:33:ARG:HD2	64:SR:33:ARG:HA	1.70	0.43
67:SK:15:LEU:CB	67:SK:21:MET:HE3	2.48	0.43
69:SQ:130:LYS:NZ	79:S2:1669:G:OP2	2.28	0.43
70:SS:47:LYS:NZ	70:SS:78:LYS:O	2.51	0.43
71:ST:126:GLN:O	71:ST:129:ARG:HB2	2.18	0.43
72:SU:46:LYS:CE	72:SU:101:ILE:HG21	2.43	0.43
72:SU:116:ILE:HG22	72:SU:117:ALA:H	1.82	0.43
73:Sc:36:ASP:OD1	73:Sc:37:ASP:N	2.46	0.43
75:Sg:5:MET:HE1	75:Sg:312:VAL:HG23	1.99	0.43
76:SM:117:GLU:HA	76:SM:120:ALA:HB3	2.00	0.43
79:S2:179:C:H3'	79:S2:180:G:H8	1.84	0.43
79:S2:195:C:H3'	79:S2:196:C:H5"	2.00	0.43
79:S2:1240:A:H2'	79:S2:1241:A:C8	2.53	0.43
87:AT:18:G:N2	87:AT:59:A:H5'	2.28	0.43
88:CF:349:HIS:H	88:CF:396:SER:HB2	1.83	0.43
89:Pt:36:C:H2'	89:Pt:37:A:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Lz:57:SER:HB3	63:Lz:182:ASN:ND2	2.34	0.43
83:Ls:174:LEU:HD21	83:Ls:178:LEU:HD11	2.01	0.43
3:sI:54:LYS:HE3	79:s2:381:C:H5"	1.99	0.43
3:sI:116:HIS:HB3	3:sI:117:TYR:CD1	2.53	0.43
7:sJ:171:GLY:N	79:s2:561:A:OP1	2.40	0.43
10:sA:36:GLN:H	10:sA:36:GLN:HG3	1.55	0.43
10:sA:200:ASP:OD2	10:sA:200:ASP:N	2.50	0.43
16:sN:70:LYS:HB2	16:sN:70:LYS:HE3	1.62	0.43
16:sN:75:LEU:HB3	16:sN:81:ALA:HB2	2.00	0.43
22:lA:113:VAL:HG23	22:lA:166:VAL:HA	2.01	0.43
22:lA:200:ARG:NH2	85:l5:3650:C:OP1	2.52	0.43
24:lC:76:ILE:HD13	24:lC:95:MET:HG3	2.00	0.43
29:lH:50:LYS:HD3	29:lH:50:LYS:H	1.83	0.43
29:lH:76:HIS:O	29:lH:80:MET:HG2	2.19	0.43
30:lI:36:LEU:HD11	30:lI:69:ARG:NH1	2.33	0.43
31:lJ:31:ASP:O	31:lJ:35:ARG:HG3	2.19	0.43
31:lJ:144:LYS:O	31:lJ:148:THR:OG1	2.24	0.43
33:lM:16:SER:HB3	33:lM:56:GLN:HG3	2.01	0.43
37:lQ:12:LYS:HG3	85:l5:2082:G:H5"	1.99	0.43
37:lQ:133:GLY:O	37:lQ:136:THR:HG22	2.18	0.43
37:lQ:178:ARG:NH1	46:la:46:ASP:OD1	2.51	0.43
39:lS:113:MET:HG2	39:lS:124:ILE:HD11	2.01	0.43
42:lV:112:MET:HE3	42:lV:112:MET:HB3	1.85	0.43
50:le:72:SER:O	50:le:72:SER:OG	2.30	0.43
51:lf:24:HIS:ND1	51:lf:25:THR:HG23	2.33	0.43
58:lm:87:GLN:HG2	58:lm:91:CYS:SG	2.59	0.43
64:sR:53:TYR:HB2	79:s2:1466:G:O5'	2.19	0.43
65:sD:132:LYS:HB2	65:sD:189:MET:HG2	2.00	0.43
66:sF:168:THR:OG1	66:sF:171:GLU:OE1	2.35	0.43
67:sK:5:LYS:O	67:sK:9:ILE:HG12	2.18	0.43
72:sU:74:SER:OG	79:s2:1338:G:O3'	2.26	0.43
73:sc:49:PRO:C	73:sc:51:ARG:HH11	2.25	0.43
75:sg:59:LEU:HG	75:sg:90:TRP:CE3	2.53	0.43
75:sg:306:LEU:HD12	75:sg:306:LEU:O	2.17	0.43
76:sM:89:VAL:HG21	76:sM:109:VAL:HG11	1.99	0.43
76:sM:126:GLU:OE2	76:sM:130:CYS:HB2	2.18	0.43
78:sf:95:ARG:NH2	79:s2:1306:U:OP2	2.51	0.43
79:s2:126:G:N3	79:s2:181:A:H1'	2.33	0.43
79:s2:179:C:H3'	79:s2:180:G:H8	1.83	0.43
79:s2:198:U:H1'	79:s2:202:G:H1	1.82	0.43
79:s2:530:U:H5"	79:s2:531:A:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:634:A:C2	79:s2:635:G:C5	3.06	0.43
79:s2:1019:C:H2'	79:s2:1020:A:O4'	2.18	0.43
79:s2:1781:A:H3'	79:s2:1783:C:C2	2.53	0.43
80:cB:55:ARG:O	80:cB:57:THR:N	2.52	0.43
80:cB:707:VAL:HB	80:cB:709:LEU:HD21	1.99	0.43
83:ls:62:ARG:NH2	83:ls:83:ARG:HH11	2.10	0.43
83:ls:173:THR:HA	83:ls:176:ASN:HB3	1.99	0.43
84:lt:54:LYS:HA	84:lt:54:LYS:HD2	1.69	0.43
84:lt:64:ILE:HB	84:lt:71:ILE:HG23	1.96	0.43
85:l5:246:G:H2'	85:l5:247:G:H8	1.83	0.43
85:l5:1348:U:H2'	85:l5:1349:G:H8	1.84	0.43
85:l5:1356:U:H2'	85:l5:1357:C:C6	2.54	0.43
85:l5:1442:C:H42	85:l5:2104:G:H2'	1.84	0.43
85:l5:1705:G:H3'	85:l5:1705:G:N3	2.34	0.43
85:l5:2569:G:H2'	85:l5:2570:U:C6	2.53	0.43
85:l5:3821:A:H2'	85:l5:3822:U:O4'	2.18	0.43
85:l5:4499:G:N2	85:l5:4529:G:H1'	2.34	0.43
85:l5:4992:G:H2'	85:l5:4993:G:H8	1.80	0.43
86:LW:119:LYS:O	86:LW:123:LYS:HG2	2.18	0.43
5:SX:11:ARG:NH1	79:S2:400:C:OP2	2.51	0.43
6:SG:221:LYS:O	6:SG:225:GLN:N	2.37	0.43
10:SA:75:SER:OG	10:SA:119:PRO:HB3	2.19	0.43
11:SB:137:LEU:HB2	11:SB:172:MET:CE	2.48	0.43
12:SH:6:ALA:N	12:SH:25:GLN:OE1	2.52	0.43
85:L5:14:C:H1'	43:LX:54:LEU:HD21	2.01	0.43
85:L5:154:G:H2'	85:L5:155:C:H6	1.84	0.43
85:L5:294:G:O6	85:L5:315:G:H1'	2.19	0.43
85:L5:371:A:H2'	85:L5:372:A:C8	2.54	0.43
85:L5:485:C:H2'	85:L5:485:C:O2	2.17	0.43
85:L5:731:G:C6	85:L5:932:A:C4	3.06	0.43
85:L5:1335:G:H2'	85:L5:1336:G:C8	2.54	0.43
85:L5:1535:C:H2'	85:L5:1536:U:O4'	2.18	0.43
85:L5:1819:G:C4	25:LD:113:PHE:CD2	3.06	0.43
85:L5:1905:U:P	51:Lf:76:ARG:HH12	2.41	0.43
85:L5:2020:U:O3'	83:Ls:57:LYS:HA	2.19	0.43
85:L5:2519:U:H1'	85:L5:2520:C:C6	2.53	0.43
85:L5:2674:A:OP1	48:Lc:92:CYS:N	2.44	0.43
85:L5:2761:U:H4'	85:L5:2762:G:O4'	2.18	0.43
85:L5:3704:U:C2	85:L5:3705:G:C8	3.07	0.43
85:L5:3710:G:H4'	85:L5:3711:A:H5'	2.00	0.43
85:L5:3857:G:H5"	36:LP:86:LYS:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:3943:A:H5'	85:L5:3944:G:OP2	2.17	0.43
85:L5:3956:G:H2'	85:L5:3960:A:OP2	2.17	0.43
85:L5:4064:C:H2'	85:L5:4065:G:C8	2.53	0.43
85:L5:4067:U:H3'	85:L5:4068:U:H6	1.83	0.43
85:L5:4241:C:H2'	85:L5:4242:U:C6	2.53	0.43
85:L5:4407:G:H1'	85:L5:4438:U:C2	2.54	0.43
85:L5:4598:C:O2'	29:LH:121:LYS:HE2	2.19	0.43
85:L5:4600:G:HO2'	85:L5:4601:U:P	2.41	0.43
25:LD:286:SER:HA	25:LD:289:ARG:NH1	2.34	0.43
28:LG:120:LYS:HD3	28:LG:120:LYS:HA	1.62	0.43
32:LL:194:ILE:HD11	32:LL:198:ARG:NH2	2.33	0.43
33:LM:70:GLN:HE21	33:LM:74:ARG:HB2	1.84	0.43
35:LO:129:LEU:HD23	35:LO:129:LEU:HA	1.83	0.43
38:LR:103:ARG:HG2	38:LR:124:TYR:CE2	2.52	0.43
41:LU:105:ASN:OD1	41:LU:105:ASN:N	2.49	0.43
46:La:119:LYS:NZ	46:La:140:VAL:HA	2.33	0.43
47:Lb:55:LYS:HE2	47:Lb:58:GLN:HE22	1.80	0.43
64:SR:80:ARG:O	64:SR:83:ASN:HB2	2.19	0.43
65:SD:140:GLY:HA2	79:S2:1334:G:H5'	2.00	0.43
66:SF:141:VAL:HA	73:Sc:47:LYS:HG2	2.00	0.43
71:ST:116:ASP:OD1	71:ST:122:LYS:HG3	2.19	0.43
75:Sg:59:LEU:HD21	75:Sg:90:TRP:NE1	2.33	0.43
75:Sg:235:ILE:O	75:Sg:235:ILE:HG13	2.17	0.43
79:S2:67:C:O2	79:S2:69:C:H5"	2.18	0.43
79:S2:121:U:H2'	79:S2:122:G:C8	2.53	0.43
79:S2:194:C:H2'	79:S2:195:C:H6	1.81	0.43
79:S2:1693:G:N2	79:S2:1696:C:N4	2.67	0.43
79:S2:1727:G:H2'	79:S2:1728:U:C6	2.53	0.43
84:Lt:142:ASN:HD22	84:Lt:148:PRO:HB3	1.83	0.43
63:Lz:124:LEU:HD23	63:Lz:124:LEU:H	1.84	0.43
83:Ls:99:ARG:NH1	83:Ls:200:ASN:O	2.51	0.43
83:Ls:100:ASP:O	83:Ls:104:ALA:N	2.43	0.43
2:sE:156:VAL:C	2:sE:157:ASN:OD1	2.62	0.43
6:sG:4:ASN:HB3	6:sG:110:ASN:HB3	2.01	0.43
8:sY:27:VAL:N	8:sY:68:LYS:HZ2	2.17	0.43
8:sY:101:LYS:HE2	8:sY:101:LYS:HB2	1.77	0.43
12:sH:144:ILE:O	18:sW:52:ILE:HG12	2.18	0.43
12:sH:145:ARG:HD2	18:sW:51:GLU:OE2	2.19	0.43
12:sH:166:VAL:O	12:sH:166:VAL:HG13	2.18	0.43
15:sC:204:ILE:HG21	15:sC:211:LYS:HG3	2.01	0.43
18:sW:106:THR:OG1	18:sW:111:MET:SD	2.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:l8:4:C:H2'	21:l8:5:U:H6	1.82	0.43
23:lB:250:LYS:HE2	85:l5:3897:G:OP1	2.18	0.43
26:lE:179:LEU:HD21	85:l5:4938:A:C5	2.53	0.43
28:lG:158:ALA:HB1	28:lG:187:LYS:HB3	2.01	0.43
28:lG:242:LEU:HD13	28:lG:242:LEU:HA	1.90	0.43
32:lL:8:MET:SD	37:lQ:168:ARG:HB3	2.58	0.43
35:lO:124:LEU:HA	35:lO:124:LEU:HD23	1.78	0.43
36:lP:30:ARG:HD2	36:lP:63:TYR:HE2	1.82	0.43
38:lR:173:ARG:NH2	79:s2:909:G:OP1	2.50	0.43
42:lV:105:ILE:HG23	42:lV:113:LYS:HB2	1.99	0.43
43:lX:89:LYS:HE3	85:l5:2437:C:N3	2.34	0.43
50:le:67:LYS:O	50:le:75:ARG:NH2	2.51	0.43
51:lf:5:LEU:HD12	51:lf:5:LEU:HA	1.87	0.43
52:lg:61:PRO:HB3	85:l5:2598:A:N3	2.33	0.43
64:sR:26:ASN:OD1	64:sR:58:MET:CE	2.67	0.43
64:sR:27:ASP:HA	79:s2:1455:A:O3'	2.18	0.43
64:sR:46:LEU:HD22	79:s2:1370:A:N6	2.33	0.43
65:sD:67:ARG:HD3	67:sK:96:ARG:HD3	2.00	0.43
66:sF:140:ASP:N	66:sF:140:ASP:OD1	2.48	0.43
67:sK:16:PHE:HZ	67:sK:80:ARG:HD3	1.83	0.43
69:sQ:5:GLY:HA2	69:sQ:6:PRO:HD3	1.87	0.43
70:sS:51:ASP:OD1	70:sS:53:THR:N	2.49	0.43
73:sc:13:ARG:HD3	73:sc:55:VAL:HB	2.01	0.43
77:sZ:47:LEU:HD21	77:sZ:79:ILE:CA	2.49	0.43
79:s2:165:G:H2'	79:s2:166:A:H8	1.83	0.43
79:s2:189:U:H2'	79:s2:190:G:O4'	2.19	0.43
79:s2:1123:C:C2'	79:s2:1124:C:H5'	2.48	0.43
79:s2:1134:G:H2'	79:s2:1135:C:H6	1.83	0.43
79:s2:1533:A:H2'	79:s2:1533:A:N3	2.32	0.43
80:cB:67:CYS:O	80:cB:67:CYS:SG	2.76	0.43
80:cB:111:PHE:HE2	80:cB:500:SER:N	2.15	0.43
80:cB:111:PHE:HD2	80:cB:501:VAL:HG13	1.84	0.43
83:ls:124:PRO:HA	83:ls:157:ASP:HB3	2.00	0.43
85:l5:210:C:O2'	85:l5:233:U:O2'	2.29	0.43
85:l5:1070:G:O2'	85:l5:1071:C:O5'	2.34	0.43
85:l5:1515:A:H2'	85:l5:1516:G:O4'	2.18	0.43
85:l5:1716:G:H2'	85:l5:1717:C:H6	1.82	0.43
85:l5:1739:G:H2'	85:l5:1740:C:C6	2.54	0.43
85:l5:4396:A:N6	85:l5:4447:C:O2	2.52	0.43
85:l5:4638:U:H3'	85:l5:4639:G:H21	1.83	0.43
3:SI:85:ALA:C	4:SL:8:ARG:HH21	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:SL:129:GLY:HA3	4:SL:143:LEU:HD11	2.00	0.43
5:SX:130:LEU:HD23	5:SX:131:LEU:N	2.33	0.43
6:SG:121:ILE:HD13	6:SG:121:ILE:N	2.33	0.43
7:SJ:39:ASN:HB2	79:S2:642:U:OP2	2.19	0.43
11:SB:110:MET:HE2	11:SB:110:MET:HA	2.00	0.43
11:SB:180:ASP:OD1	11:SB:180:ASP:N	2.44	0.43
15:SC:167:ARG:HG3	15:SC:219:ILE:HD13	1.99	0.43
17:SO:34:PHE:HD1	17:SO:98:ARG:HG2	1.84	0.43
19:Sb:34:ASP:OD1	19:Sb:82:LYS:NZ	2.50	0.43
85:L5:132:G:H3'	85:L5:133:C:H4'	2.00	0.43
85:L5:1396:G:C4	46:La:112:LEU:HD21	2.54	0.43
85:L5:2292:C:H2'	85:L5:2293:U:C6	2.54	0.43
85:L5:2691:U:H2'	85:L5:2692:U:H6	1.84	0.43
85:L5:2764:A:H2'	85:L5:2765:A:H8	1.81	0.43
85:L5:2803:U:H2'	85:L5:2804:C:C6	2.53	0.43
85:L5:4151:G:H2'	85:L5:4152:G:H8	1.83	0.43
85:L5:4154:G:H2'	85:L5:4155:C:C6	2.54	0.43
85:L5:4538:G:H2'	85:L5:4539:U:H6	1.84	0.43
85:L5:4683:U:H2'	85:L5:4684:A:C8	2.53	0.43
20:L7:35:U:H2'	20:L7:36:C:O4'	2.18	0.43
21:L8:71:A:N6	21:L8:83:C:O4'	2.52	0.43
21:L8:126:C:H1'	21:L8:127:U:O4'	2.19	0.43
23:LB:84:MET:HE2	23:LB:166:THR:CG2	2.47	0.43
25:LD:182:GLY:N	25:LD:195:HIS:HB2	2.34	0.43
27:LF:142:TRP:CZ2	27:LF:235:ASN:HB2	2.54	0.43
37:LQ:125:GLN:HG3	37:LQ:125:GLN:H	1.58	0.43
38:LR:167:LYS:HD3	38:LR:168:GLU:OE2	2.18	0.43
39:LS:28:TYR:CD1	40:LT:151:LEU:HD21	2.53	0.43
39:LS:83:ARG:HH21	40:LT:156:TYR:HB2	1.83	0.43
44:LY:59:ARG:HG3	44:LY:103:LYS:HD2	2.01	0.43
48:Lc:34:THR:O	48:Lc:38:ILE:HG22	2.18	0.43
54:Li:60:LEU:HA	54:Li:63:VAL:HG12	2.00	0.43
60:Lo:74:GLU:CD	60:Lo:76:ASN:H	2.25	0.43
62:Lr:85:ASN:O	62:Lr:89:THR:HG23	2.18	0.43
64:SR:4:VAL:HG23	79:S2:1466:G:O5'	2.19	0.43
65:SD:40:ARG:NH2	72:SU:106:ILE:HB	2.34	0.43
67:SK:1:MET:HG3	67:SK:3:MET:HB3	2.01	0.43
79:S2:191:A:H2'	79:S2:192:C:O4'	2.19	0.43
79:S2:198:U:H2'	79:S2:199:C:H2'	2.01	0.43
79:S2:441:C:H2'	79:S2:442:C:C6	2.53	0.43
87:AT:27:G:H2'	87:AT:28:U:H6	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
88:CF:349:HIS:CD2	88:CF:351:GLY:H	2.36	0.43
83:Ls:95:LEU:HD13	83:Ls:192:VAL:HG11	1.99	0.43
83:Ls:160:LEU:HG	83:Ls:161:ILE:HG22	2.00	0.43
3:sI:177:SER:OG	3:sI:184:ARG:O	2.31	0.43
6:sG:162:LEU:O	6:sG:169:PRO:HA	2.18	0.43
10:sA:125:THR:HA	10:sA:147:LEU:HB2	1.99	0.43
12:sH:98:ARG:HB3	79:s2:913:A:N6	2.34	0.43
16:sN:101:HIS:CE1	16:sN:105:ASN:OD1	2.72	0.43
22:lA:244:GLY:HA3	85:l5:3746:A:H5"	2.00	0.43
23:lB:93:VAL:HG13	23:lB:102:PHE:HB2	2.00	0.43
25:lD:66:TYR:CD2	25:lD:68:ARG:HD3	2.53	0.43
27:lF:25:PHE:O	27:lF:29:LYS:HG3	2.18	0.43
27:lF:25:PHE:CD1	27:lF:28:LEU:HD11	2.53	0.43
27:lF:154:ILE:HD11	27:lF:208:LEU:HD11	2.01	0.43
28:lG:100:HIS:HE1	28:lG:103:ARG:NH2	2.17	0.43
28:lG:154:LEU:HD13	28:lG:222:ILE:HD11	1.99	0.43
35:lO:54:TYR:OH	35:lO:73:PHE:O	2.35	0.43
39:lS:85:ASP:HA	39:lS:90:THR:HA	2.01	0.43
43:lX:56:ARG:HH21	85:l5:14:C:P	2.41	0.43
43:lX:106:LYS:HG2	85:l5:2779:C:P	2.58	0.43
56:lk:40:ARG:HD3	56:lk:41:TYR:CZ	2.53	0.43
61:lp:6:LYS:HE3	85:l5:2875:C:O2'	2.18	0.43
69:sQ:96:TYR:HA	69:sQ:100:VAL:CG1	2.49	0.43
69:sQ:145:TYR:HB2	79:s2:1248:U:O2'	2.18	0.43
71:sT:102:ARG:HD3	71:sT:102:ARG:HA	1.83	0.43
75:sg:11:LEU:HB2	75:sg:307:VAL:O	2.18	0.43
75:sg:37:ASP:C	75:sg:38:LYS:HG2	2.43	0.43
75:sg:129:ILE:HD11	75:sg:154:VAL:HG11	1.96	0.43
75:sg:164:ILE:HD11	75:sg:176:VAL:HG12	2.01	0.43
79:s2:76:U:O2'	79:s2:78:C:OP1	2.26	0.43
79:s2:323:C:H2'	79:s2:327:G:H1	1.83	0.43
79:s2:461:U:H2'	79:s2:462:C:C6	2.54	0.43
79:s2:502:C:O2'	79:s2:503:C:H5'	2.19	0.43
79:s2:925:G:O6	79:s2:1017:U:O4	2.36	0.43
79:s2:1259:A:N6	79:s2:1519:U:O5'	2.52	0.43
79:s2:1264:C:H4'	79:s2:1265:A:O4'	2.18	0.43
79:s2:1447:G:H2'	79:s2:1448:A:H8	1.84	0.43
80:cB:698:ARG:NH2	80:cB:817:TRP:HB2	2.33	0.43
85:l5:169:G:N2	85:l5:267:G:C4	2.86	0.43
85:l5:1443:A:C8	85:l5:1444:G:C6	3.06	0.43
85:l5:1719:A:H2'	85:l5:1720:C:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:2281:U:C2	85:l5:2282:A:C8	3.07	0.43
85:l5:2486:G:N7	85:l5:2493:G:C2	2.86	0.43
85:l5:4125:C:H2'	85:l5:4126:C:C6	2.53	0.43
85:l5:4154:G:H2'	85:l5:4155:C:C6	2.54	0.43
85:l5:4237:C:H2'	85:l5:4238:G:C8	2.53	0.43
85:l5:4350:C:C2	85:l5:4351:U:C5	3.07	0.43
85:l5:4548:A:H5'	85:l5:4549:G:C5'	2.48	0.43
85:l5:4642:U:H2'	85:l5:4643:G:H8	1.83	0.43
85:l5:4964:C:H2'	85:l5:4965:U:C6	2.54	0.43
86:LW:42:SER:OG	85:L5:3617:G:OP1	2.37	0.43
6:SG:133:LEU:HB2	79:S2:65:C:N3	2.33	0.43
6:SG:201:LYS:HE3	6:SG:201:LYS:HB3	1.74	0.43
8:SY:61:ARG:O	8:SY:70:THR:N	2.50	0.43
10:SA:49:ILE:HG21	10:SA:162:PRO:O	2.18	0.43
10:SA:53:ARG:HG3	13:SV:83:PHE:HD2	1.84	0.43
10:SA:123:VAL:HG22	10:SA:145:ILE:HG12	2.00	0.43
10:SA:181:GLU:OE2	10:SA:184:ARG:HD3	2.19	0.43
10:SA:181:GLU:O	10:SA:184:ARG:HG2	2.18	0.43
12:SH:119:SER:OG	12:SH:120:ARG:NH1	2.51	0.43
13:SV:11:LEU:HG	15:SC:79:GLU:CG	2.49	0.43
15:SC:66:LEU:HD11	15:SC:81:ILE:HD12	1.99	0.43
15:SC:161:SER:O	15:SC:161:SER:OG	2.32	0.43
15:SC:188:CYS:HA	79:S2:1355:C:N4	2.33	0.43
17:SO:130:GLU:OE2	17:SO:131:ASP:N	2.50	0.43
18:SW:82:GLN:NE2	79:S2:804:U:OP1	2.52	0.43
85:L5:1905:U:H4'	27:LF:217:ARG:HG3	2.00	0.43
85:L5:2642:A:C6	85:L5:2643:G:N7	2.87	0.43
85:L5:2700:G:C6	85:L5:2717:G:N1	2.87	0.43
85:L5:2714:G:H2'	85:L5:2715:G:H8	1.83	0.43
85:L5:3610:A:H2'	85:L5:3611:A:C8	2.53	0.43
85:L5:3968:U:OP2	85:L5:3970:G:N1	2.50	0.43
85:L5:4126:C:H5"	85:L5:4127:A:H5"	2.00	0.43
85:L5:4357:G:H2'	85:L5:4358:U:H6	1.83	0.43
85:L5:4513:A:H2'	85:L5:4514:G:C8	2.53	0.43
85:L5:4626:A:H5'	23:LB:53:MET:HE1	2.01	0.43
85:L5:4633:G:O3'	85:L5:4634:U:H3'	2.18	0.43
85:L5:4751:G:C5	85:L5:4752:U:C5	3.07	0.43
85:L5:4753:U:OP1	51:Lf:8:LYS:NZ	2.36	0.43
20:L7:60:G:H2'	20:L7:61:G:H8	1.82	0.43
22:LA:117:GLU:OE2	22:LA:163:ARG:NE	2.35	0.43
23:LB:83:PRO:O	23:LB:167:GLN:NE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:LB:297:LYS:HE2	23:LB:297:LYS:HB3	1.84	0.43
24:LC:8:ILE:HD11	24:LC:257:PHE:CE2	2.54	0.43
24:LC:9:SER:HA	24:LC:21:ASN:HA	1.99	0.43
26:LE:62:MET:HE3	26:LE:62:MET:HB3	1.73	0.43
26:LE:115:TYR:CD2	62:Lr:115:SER:HB2	2.53	0.43
31:LJ:49:VAL:HG23	31:LJ:71:HIS:CE1	2.53	0.43
33:LM:118:MET:O	33:LM:122:ILE:HG22	2.18	0.43
34:LN:49:ARG:HA	34:LN:53:TYR:O	2.18	0.43
34:LN:142:ILE:HG23	34:LN:148:THR:HG22	2.01	0.43
35:LO:8:VAL:HA	35:LO:34:VAL:O	2.19	0.43
39:LS:54:MET:HE2	39:LS:54:MET:HB2	1.85	0.43
42:LV:91:LYS:HA	42:LV:91:LYS:HD3	1.80	0.43
43:LX:82:THR:HA	43:LX:87:MET:HE1	1.96	0.43
62:Lr:59:GLY:N	62:Lr:121:GLN:HE22	2.17	0.43
64:SR:1:MET:HB3	79:S2:1468:C:OP2	2.19	0.43
64:SR:12:ALA:O	64:SR:16:ILE:HG12	2.19	0.43
68:SP:59:ARG:NH1	79:S2:1299:A:OP1	2.50	0.43
69:SQ:27:ARG:HH22	79:S2:1423:C:N4	2.17	0.43
71:ST:63:HIS:ND1	71:ST:78:ILE:HD12	2.33	0.43
76:SM:63:LYS:HG3	76:SM:64:LEU:N	2.33	0.43
76:SM:85:LEU:HD21	76:SM:109:VAL:HG23	2.01	0.43
78:Sf:89:LYS:HG3	78:Sf:92:LYS:HG2	2.01	0.43
79:S2:14:C:H2'	79:S2:15:U:C6	2.53	0.43
79:S2:458:A:H2'	79:S2:459:C:C6	2.53	0.43
79:S2:692:G:O2'	79:S2:739:C:O2	2.32	0.43
79:S2:801:U:H2'	79:S2:802:A:C8	2.53	0.43
79:S2:925:G:C2	79:S2:1018:U:C2	3.07	0.43
79:S2:1566:G:C2	79:S2:1570:G:C6	3.06	0.43
79:S2:1666:C:H2'	79:S2:1667:U:C6	2.53	0.43
88:CF:60:LEU:HD12	88:CF:91:ASP:HB2	2.01	0.43
63:Lz:193:LEU:HG	63:Lz:194:LEU:HD12	2.01	0.43
83:Ls:88:PHE:HB3	83:Ls:90:PHE:CE2	2.53	0.43
4:sL:27:GLU:C	4:sL:29:GLY:HA2	2.44	0.43
6:sG:64:LYS:HE3	6:sG:82:SER:HB3	2.00	0.43
10:sA:89:LYS:CE	10:sA:201:LEU:O	2.64	0.43
10:sA:220:LYS:HD3	10:sA:220:LYS:HA	1.71	0.43
13:sV:28:ASP:OD1	13:sV:28:ASP:C	2.62	0.43
17:sO:93:LEU:HD23	17:sO:93:LEU:HA	1.74	0.43
17:sO:143:LYS:HG2	17:sO:143:LYS:O	2.18	0.43
20:l7:22:A:H2'	20:l7:23:A:C8	2.53	0.43
22:lA:109:GLU:HG2	22:lA:138:SER:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:lC:11:TYR:CD2	24:lC:15:GLY:O	2.72	0.43
24:lC:189:MET:HE1	24:lC:200:ARG:CZ	2.48	0.43
26:lE:223:ARG:HA	26:lE:224:LYS:HA	1.76	0.43
27:lF:103:PRO:HD3	85:l5:1876:U:O3'	2.19	0.43
29:lH:65:LYS:HD2	29:lH:65:LYS:HA	1.87	0.43
29:lH:115:ARG:CZ	29:lH:123:ILE:HD12	2.48	0.43
34:lN:64:ILE:HD13	34:lN:64:ILE:HA	1.79	0.43
34:lN:123:GLU:HG3	34:lN:124:ASP:H	1.82	0.43
37:lQ:88:ASP:OD2	37:lQ:88:ASP:C	2.61	0.43
41:lU:40:GLU:OE2	41:lU:65:ARG:HD3	2.19	0.43
44:lY:131:GLU:HA	44:lY:131:GLU:OE1	2.18	0.43
48:lc:64:ALA:O	48:lc:68:LYS:N	2.51	0.43
49:ld:33:ILE:HD11	49:ld:45:ALA:HA	2.01	0.43
49:ld:40:LYS:HB2	49:ld:40:LYS:HE2	1.89	0.43
63:lz:59:PRO:HG2	63:lz:62:LYS:HD3	2.00	0.43
64:sR:72:LYS:NZ	64:sR:76:GLU:OE2	2.51	0.43
67:sK:55:ARG:HD3	79:s2:1277:C:H5"	2.01	0.43
68:sP:84:ILE:HD12	68:sP:114:HIS:O	2.19	0.43
75:sg:29:ASP:O	75:sg:29:ASP:CG	2.56	0.43
76:sM:11:VAL:HA	76:sM:14:VAL:HG12	1.99	0.43
79:s2:35:C:H2'	79:s2:36:U:C6	2.53	0.43
79:s2:926:A:H2'	79:s2:927:C:O4'	2.18	0.43
79:s2:1420:G:O2'	79:s2:1421:A:N3	2.51	0.43
79:s2:1683:C:C2	79:s2:1684:C:C5	3.06	0.43
79:s2:1806:A:H2'	79:s2:1807:C:C6	2.54	0.43
80:cB:13:MET:HE1	80:cB:464:VAL:CB	2.46	0.43
80:cB:264:ARG:NH2	80:cB:275:LYS:O	2.51	0.43
80:cB:324:ASP:H	80:cB:342:ARG:NH1	2.17	0.43
80:cB:413:PHE:CE1	80:cB:469:ILE:HD12	2.54	0.43
80:cB:744:ILE:HD13	80:cB:818:GLN:CB	2.48	0.43
80:cB:752:PRO:HA	80:cB:780:PRO:O	2.18	0.43
81:aP:49:C:H2'	81:aP:50:U:C6	2.52	0.43
83:ls:77:LYS:HB2	83:ls:193:PHE:CE2	2.53	0.43
83:ls:78:LEU:O	83:ls:82:ILE:HG12	2.19	0.43
84:lt:143:VAL:O	84:lt:146:ARG:HG2	2.18	0.43
85:l5:318:A:H2'	85:l5:319:A:H8	1.84	0.43
85:l5:663:G:N1	85:l5:664:G:C6	2.86	0.43
85:l5:1243:C:H2'	85:l5:1244:G:H8	1.84	0.43
85:l5:2625:U:H1'	85:l5:4647:G:N7	2.34	0.43
85:l5:2705:G:H1	85:l5:2710:C:H41	1.67	0.43
85:l5:3951:G:H8	85:l5:3951:G:OP2	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4957:C:H2'	85:l5:4958:C:H6	1.82	0.43
6:SG:37:ALA:HA	6:SG:49:VAL:HA	1.99	0.43
6:SG:159:ARG:HB3	6:SG:171:THR:OG1	2.19	0.43
7:SJ:85:GLY:HA3	7:SJ:151:LEU:HD21	2.01	0.43
10:SA:66:VAL:HG12	10:SA:182:VAL:HG23	2.01	0.43
10:SA:141:ASN:ND2	15:SC:85:SER:O	2.51	0.43
11:SB:109:LYS:O	11:SB:112:SER:OG	2.22	0.43
13:SV:73:ALA:HB1	13:SV:78:ILE:HG13	2.01	0.43
14:Sa:34:LYS:NZ	79:S2:1864:U:O4	2.36	0.43
15:SC:108:LYS:HB2	15:SC:108:LYS:HE2	1.87	0.43
17:SO:71:PRO:HB3	17:SO:114:SER:HB2	2.00	0.43
85:L5:395:A:C6	85:L5:396:A:C6	3.07	0.43
85:L5:513:U:O2	85:L5:516:C:H5	2.01	0.43
85:L5:739:G:C2	85:L5:926:G:C4	3.07	0.43
85:L5:751:G:C4	85:L5:752:G:C8	3.07	0.43
85:L5:1202:C:H3'	85:L5:1203:G:C5'	2.49	0.43
85:L5:1241:C:C4	85:L5:1242:G:C8	3.07	0.43
85:L5:1921:C:C5	39:LS:161:ARG:HD2	2.54	0.43
85:L5:1969:G:H4'	83:Ls:35:VAL:O	2.19	0.43
85:L5:2264:C:P	62:Lr:112:ARG:HH21	2.42	0.43
85:L5:2376:A:H2'	85:L5:2377:C:H6	1.83	0.43
85:L5:3611:A:H2'	85:L5:3612:C:H6	1.84	0.43
85:L5:3661:G:O6	22:LA:152:SER:HB3	2.19	0.43
85:L5:3708:C:H2'	85:L5:3709:U:C6	2.54	0.43
85:L5:3814:U:H2'	85:L5:3815:G:H8	1.84	0.43
85:L5:3845:A:H2'	85:L5:3846:C:C6	2.53	0.43
85:L5:4271:A:H3'	85:L5:4272:G:N2	2.34	0.43
85:L5:4577:U:H2'	85:L5:4578:G:H8	1.84	0.43
85:L5:4754:G:N1	85:L5:4880:C:N3	2.66	0.43
85:L5:4999:G:P	23:LB:394:LYS:HZ1	2.42	0.43
22:LA:104:VAL:HG13	22:LA:162:ASN:O	2.18	0.43
28:LG:107:LYS:O	28:LG:111:LYS:HG2	2.19	0.43
29:LH:174:LYS:C	29:LH:176:LEU:HD12	2.43	0.43
32:LL:154:VAL:O	32:LL:155:MET:C	2.61	0.43
33:LM:120:ASN:O	33:LM:124:LYS:HD3	2.19	0.43
36:LP:32:THR:HG21	36:LP:87:SER:HB3	2.00	0.43
38:LR:177:LEU:HD12	38:LR:180:LYS:CB	2.49	0.43
41:LU:24:ASP:HB2	41:LU:69:LYS:HZ2	1.84	0.43
41:LU:48:LYS:HB3	41:LU:51:GLY:C	2.44	0.43
41:LU:76:VAL:HG12	41:LU:78:PHE:H	1.83	0.43
43:LX:121:VAL:HA	43:LX:140:LEU:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:LY:28:LYS:O	44:LY:31:SER:OG	2.33	0.43
45:LZ:36:ARG:HB2	45:LZ:40:HIS:CE1	2.53	0.43
47:Lb:62:ALA:HA	47:Lb:65:MET:HB2	2.00	0.43
64:SR:19:LYS:HE3	65:SD:213:PRO:HD3	2.01	0.43
64:SR:61:ILE:HG22	64:SR:66:VAL:HB	2.01	0.43
67:SK:79:LEU:O	67:SK:83:LEU:HG	2.18	0.43
68:SP:35:GLN:H	68:SP:35:GLN:CD	2.14	0.43
69:SQ:134:GLY:N	69:SQ:140:ARG:HH21	2.17	0.43
75:Sg:110:SER:CB	75:Sg:153:CYS:HA	2.48	0.43
75:Sg:270:LEU:HD21	75:Sg:310:TRP:CE3	2.54	0.43
76:SM:63:LYS:NZ	78:Sf:108:VAL:HB	2.34	0.43
79:S2:19:A:H4'	79:S2:621:C:H5'	2.01	0.43
79:S2:51:U:H2'	79:S2:52:G:C8	2.54	0.43
79:S2:520:A:H1'	79:S2:826:A:N3	2.34	0.43
79:S2:958:G:H2'	79:S2:959:G:C8	2.53	0.43
79:S2:1018:U:H2'	79:S2:1019:C:H6	1.84	0.43
79:S2:1119:A:H3'	79:S2:1120:U:C6	2.53	0.43
79:S2:1446:A:O2'	79:S2:1447:G:H8	2.02	0.43
79:S2:1457:U:H2'	79:S2:1458:G:C8	2.54	0.43
79:S2:1714:U:H2'	79:S2:1715:A:C8	2.53	0.43
79:S2:1741:U:H2'	79:S2:1742:C:O4'	2.18	0.43
79:S2:1746:U:H2'	79:S2:1747:C:C6	2.54	0.43
87:AT:69:G:H2'	87:AT:70:A:C8	2.54	0.43
84:Lt:119:ARG:NH2	84:Lt:123:ARG:HE	2.16	0.43
2:sE:160:ILE:HB	2:sE:169:ILE:HG23	1.99	0.43
3:sI:65:PHE:HB2	3:sI:109:TYR:OH	2.18	0.43
4:sL:21:LYS:HD2	4:sL:21:LYS:HA	1.77	0.43
4:sL:81:LYS:HD2	79:s2:394:G:C5'	2.47	0.43
4:sL:128:VAL:CG1	4:sL:140:PHE:HB3	2.49	0.43
4:sL:136:LYS:NZ	79:s2:372:U:OP1	2.32	0.43
5:sX:60:LYS:HG2	5:sX:114:ASP:O	2.19	0.43
5:sX:77:ASN:O	5:sX:79:LYS:N	2.45	0.43
6:sG:78:SER:HG	6:sG:81:HIS:CD2	2.29	0.43
7:sJ:65:GLU:OE2	7:sJ:66:LYS:N	2.52	0.43
11:sB:107:ARG:HD2	17:sO:131:ASP:OD1	2.19	0.43
13:sV:61:ARG:HH11	13:sV:61:ARG:HG3	1.84	0.43
15:sC:184:VAL:O	15:sC:195:LEU:HD23	2.18	0.43
16:sN:13:GLN:O	19:sb:20:LYS:NZ	2.49	0.43
18:sW:24:GLN:HA	18:sW:63:VAL:O	2.18	0.43
23:lB:141:ASP:OD1	23:lB:141:ASP:N	2.51	0.43
25:lD:200:MET:HE2	25:lD:237:GLU:CD	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:lF:75:ALA:HB2	40:lT:140:PHE:CE2	2.54	0.43
28:lG:98:LEU:O	28:lG:101:LYS:HB2	2.18	0.43
29:lH:59:LYS:HA	29:lH:59:LYS:HD2	1.71	0.43
32:lL:56:ARG:NH1	32:lL:74:ARG:O	2.52	0.43
34:lN:46:ASP:OD1	34:lN:50:ARG:NH2	2.50	0.43
35:lO:44:SER:OG	85:l5:2054:U:OP2	2.29	0.43
35:lO:74:ARG:HG2	35:lO:146:GLY:HA3	2.01	0.43
35:lO:89:PRO:O	35:lO:95:GLY:HA3	2.19	0.43
37:lQ:177:ALA:O	46:la:51:GLY:HA2	2.18	0.43
40:lT:108:ARG:NH2	85:l5:1837:A:OP2	2.52	0.43
42:lV:112:MET:HG2	42:lV:114:GLY:H	1.84	0.43
44:lY:50:ARG:HH21	44:lY:112:ASP:CG	2.23	0.43
50:le:91:CYS:C	50:le:93:LYS:H	2.26	0.43
50:le:97:ALA:O	50:le:122:VAL:HA	2.19	0.43
55:lj:5:THR:HG23	85:l5:2793:G:O2'	2.19	0.43
64:sR:40:ILE:HG22	65:sD:206:ASP:CG	2.44	0.43
65:sD:176:LEU:HD12	65:sD:176:LEU:HA	1.73	0.43
66:sF:34:SER:HA	73:sc:55:VAL:HG13	2.01	0.43
69:sQ:121:VAL:HG23	79:s2:1474:A:H5"	2.00	0.43
75:sg:92:LEU:H	75:sg:92:LEU:HD22	1.84	0.43
75:sg:286:CYS:HA	75:sg:302:TYR:HA	2.01	0.43
76:sM:87:GLU:OE2	76:sM:100:PRO:HB2	2.19	0.43
79:s2:1260:A:C2	79:s2:1620:A:C4	3.07	0.43
80:cB:27:HIS:HE1	85:l5:4606:G:OP1	2.01	0.43
80:cB:377:PRO:HA	80:cB:382:ALA:HB1	2.01	0.43
80:cB:430:MET:HB3	80:cB:434:TYR:CG	2.54	0.43
80:cB:613:LEU:O	80:cB:617:ILE:HG13	2.19	0.43
83:ls:72:ASN:OD1	83:ls:75:LEU:HD23	2.18	0.43
85:l5:64:A:H1'	85:l5:76:A:H1'	2.00	0.43
85:l5:158:A:N1	85:l5:276:C:O2'	2.44	0.43
85:l5:743:G:N1	85:l5:922:C:N3	2.66	0.43
85:l5:1352:C:H2'	85:l5:1353:G:O4'	2.19	0.43
85:l5:1833:G:C2	85:l5:1835:G:C4	3.07	0.43
85:l5:1977:C:HO2'	85:l5:1978:C:P	2.40	0.43
85:l5:2514:G:C2	85:l5:2515:G:C8	3.07	0.43
85:l5:2654:C:H2'	85:l5:2655:C:C6	2.54	0.43
85:l5:2816:G:H2'	85:l5:2817:C:C6	2.54	0.43
85:l5:3652:A:H2'	85:l5:3653:A:C8	2.54	0.43
85:l5:3664:G:H2'	85:l5:3665:G:C8	2.51	0.43
85:l5:3967:G:N3	85:l5:3967:G:H2'	2.34	0.43
85:l5:4680:G:H2'	85:l5:4681:A:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:LW:52:THR:OG1	86:LW:55:TYR:HD1	1.95	0.43
86:LW:53:VAL:HG23	86:LW:57:ARG:CZ	2.49	0.43
2:SE:72:ILE:HA	2:SE:89:VAL:O	2.19	0.43
2:SE:232:ASN:OD1	2:SE:233:LYS:N	2.52	0.43
10:SA:39:TYR:CB	64:SR:105:MET:HE2	2.40	0.43
12:SH:39:GLN:O	12:SH:43:LEU:HD13	2.19	0.43
12:SH:87:PHE:HD2	12:SH:90:LYS:HG3	1.84	0.43
12:SH:91:HIS:CD2	12:SH:172:THR:HG21	2.54	0.43
13:SV:18:SER:OG	13:SV:54:ALA:N	2.35	0.43
14:Sa:36:ILE:HG21	14:Sa:78:ALA:HB2	2.01	0.43
15:SC:137:VAL:HG11	15:SC:217:ALA:CA	2.48	0.43
17:SO:42:VAL:O	17:SO:42:VAL:CG2	2.65	0.43
85:L5:122:U:H2'	85:L5:123:C:C6	2.53	0.43
85:L5:1589:C:H2'	85:L5:1590:C:C6	2.54	0.43
85:L5:1597:G:N3	85:L5:1599:A:N6	2.67	0.43
85:L5:1673:U:H2'	85:L5:1674:C:H6	1.83	0.43
85:L5:2412:A:H2'	85:L5:2413:U:C6	2.53	0.43
85:L5:2674:A:N6	48:Lc:51:ASN:OD1	2.46	0.43
85:L5:2692:U:H2'	85:L5:2693:G:O4'	2.19	0.43
85:L5:2698:G:H2'	85:L5:2699:C:C6	2.54	0.43
85:L5:2844:A:O2'	85:L5:4631:G:H4'	2.18	0.43
85:L5:2864:A:H2'	85:L5:2865:U:C6	2.53	0.43
85:L5:3647:A:O2'	85:L5:3648:A:H2'	2.18	0.43
85:L5:3764:U:H2'	85:L5:3765:G:C8	2.54	0.43
85:L5:3832:U:H2'	85:L5:3833:C:C6	2.53	0.43
85:L5:3946:G:H8	85:L5:3946:G:OP2	2.02	0.43
85:L5:4254:G:H2'	85:L5:4254:G:N3	2.33	0.43
85:L5:4440:G:C4	85:L5:4441:A:C8	3.07	0.43
85:L5:4525:C:C2	85:L5:4526:U:C5	3.07	0.43
85:L5:4625:C:H2'	85:L5:4626:A:N3	2.34	0.43
85:L5:4753:U:P	51:Lf:100:ARG:HE	2.42	0.43
85:L5:4928:C:H2'	33:LM:118:MET:HE2	2.01	0.43
85:L5:5023:C:H3'	85:L5:5024:C:H4'	2.00	0.43
21:L8:88:A:H2'	21:L8:89:U:O4'	2.19	0.43
23:LB:77:THR:HG21	23:LB:337:VAL:HG12	2.00	0.43
23:LB:113:GLU:OE1	23:LB:168:MET:N	2.52	0.43
23:LB:315:ASN:HD22	23:LB:325:GLU:CA	2.31	0.43
26:LE:261:ILE:HD12	26:LE:271:LEU:HD22	2.00	0.43
27:LF:87:PRO:HG3	27:LF:144:TYR:CD2	2.54	0.43
28:LG:112:GLN:O	28:LG:115:LEU:HD23	2.18	0.43
29:LH:94:SER:O	29:LH:94:SER:OG	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:LI:76:MET:HB2	30:LI:85:PHE:CE1	2.54	0.43
31:LJ:31:ASP:OD1	31:LJ:31:ASP:N	2.51	0.43
32:LL:9:VAL:HG11	46:La:52:TYR:CE1	2.54	0.43
34:LN:123:GLU:HB2	34:LN:127:TYR:O	2.19	0.43
36:LP:59:PRO:HD3	36:LP:76:TRP:CD1	2.53	0.43
37:LQ:88:ASP:OD2	37:LQ:108:ARG:HG2	2.19	0.43
38:LR:139:MET:SD	38:LR:143:HIS:CE1	3.12	0.43
41:LU:76:VAL:C	41:LU:78:PHE:H	2.27	0.43
43:LX:143:ASP:CG	43:LX:144:TYR:CD1	2.93	0.43
47:Lb:95:ARG:O	47:Lb:99:ILE:HG13	2.18	0.43
60:Lo:104:ILE:CD1	60:Lo:105:GLN:HB3	2.42	0.43
70:SS:5:ILE:H	70:SS:5:ILE:HD12	1.84	0.43
70:SS:75:ARG:HH11	70:SS:95:TYR:HB2	1.84	0.43
71:ST:37:VAL:C	71:ST:39:LEU:H	2.27	0.43
72:SU:83:ARG:NH2	79:S2:1392:U:OP1	2.52	0.43
75:Sg:44:LYS:HD3	75:Sg:54:ILE:O	2.19	0.43
77:SZ:90:GLU:O	77:SZ:93:SER:OG	2.34	0.43
79:S2:162:C:H2'	79:S2:163:U:O4'	2.18	0.43
79:S2:456:C:C2	79:S2:457:C:C5	3.07	0.43
79:S2:595:U:H2'	79:S2:596:U:C6	2.54	0.43
79:S2:1011:A:H2'	79:S2:1012:A:O4'	2.19	0.43
79:S2:1047:C:H3'	79:S2:1048:G:H8	1.84	0.43
79:S2:1634:A:H2'	79:S2:1635:C:O4'	2.19	0.43
1:cH:72:ARG:HG3	1:cH:73:VAL:H	1.84	0.43
3:sI:132:GLU:HA	3:sI:135:GLU:OE2	2.19	0.43
5:sX:67:ARG:NH2	5:sX:114:ASP:OD2	2.42	0.43
6:sG:49:VAL:HG11	6:sG:115:LYS:HZ3	1.83	0.43
6:sG:200:LYS:HB3	6:sG:200:LYS:HE2	1.82	0.43
10:sA:149:ASN:OD1	10:sA:150:THR:N	2.39	0.43
15:sC:252:THR:O	15:sC:256:TRP:HE3	2.02	0.43
22:lA:245:ARG:NH2	85:l5:3656:A:H4'	2.33	0.43
24:lC:13:GLU:OE2	24:lC:157:LYS:NZ	2.52	0.43
24:lC:349:LEU:HD23	24:lC:349:LEU:HA	1.81	0.43
27:lF:114:LEU:HD21	27:lF:121:THR:HG22	2.01	0.43
28:lG:150:LYS:HE2	28:lG:150:LYS:HB2	1.79	0.43
35:lO:176:ARG:NH1	85:l5:4769:G:OP1	2.50	0.43
38:lR:47:ASP:C	38:lR:47:ASP:OD2	2.61	0.43
42:lV:61:VAL:O	42:lV:79:ALA:N	2.46	0.43
43:lX:127:LEU:HD23	43:lX:135:LYS:O	2.19	0.43
53:lh:107:GLN:OE1	53:lh:111:GLU:OE2	2.36	0.43
55:lj:33:THR:HG23	55:lj:40:PRO:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:ll:28:ARG:C	57:ll:33:ASN:HD22	2.24	0.43
64:sR:43:SER:OG	79:s2:1387:G:OP1	2.37	0.43
64:sR:53:TYR:CB	79:s2:1465:A:H3'	2.49	0.43
65:sD:183:GLY:HA3	79:s2:1334:G:O3'	2.19	0.43
65:sD:186:VAL:HG12	65:sD:188:ILE:HD11	2.00	0.43
66:sF:28:VAL:HA	66:sF:110:GLN:OE1	2.19	0.43
74:sd:12:ARG:HA	74:sd:12:ARG:HD3	1.63	0.43
75:sg:188:HIS:CG	75:sg:219:TRP:CZ3	3.07	0.43
79:s2:35:C:H2'	79:s2:36:U:H6	1.83	0.43
79:s2:464:A:P	80:cB:50:ARG:HH12	2.42	0.43
79:s2:481:C:H2'	79:s2:482:G:C8	2.53	0.43
79:s2:551:U:H2'	79:s2:552:G:C8	2.54	0.43
79:s2:1351:G:C2	79:s2:1352:G:C8	3.07	0.43
79:s2:1741:U:H2'	79:s2:1742:C:O4'	2.19	0.43
80:cB:17:ALA:HA	80:cB:360:SER:OG	2.18	0.43
80:cB:202:ASN:OD1	80:cB:202:ASN:C	2.61	0.43
80:cB:365:GLN:O	80:cB:386:LYS:NZ	2.40	0.43
80:cB:396:MET:HB3	80:cB:485:ILE:HB	2.01	0.43
80:cB:442:LEU:HD12	80:cB:443:TYR:N	2.33	0.43
80:cB:838:THR:HG23	80:cB:841:ARG:NH1	2.33	0.43
82:pE:38:A:C5	82:pE:39:U:C5	3.07	0.43
85:l5:1185:G:H2'	85:l5:1186:U:C6	2.53	0.43
85:l5:1186:U:H2'	85:l5:1187:G:C4	2.54	0.43
85:l5:1217:G:C6	85:l5:1218:G:C6	3.07	0.43
85:l5:1367:C:O2'	85:l5:1369:C:OP2	2.31	0.43
85:l5:1825:A:H2'	85:l5:1826:G:C8	2.54	0.43
85:l5:2475:G:H4'	85:l5:2476:G:H5"	2.00	0.43
85:l5:2757:A:H2'	85:l5:2758:G:C8	2.54	0.43
85:l5:4061:G:HO2'	85:l5:4062:A:P	2.40	0.43
85:l5:4563:U:H2'	85:l5:4564:A:H8	1.83	0.43
85:l5:4885:U:H2'	85:l5:4886:C:H6	1.84	0.43
6:SG:23:LYS:NZ	6:SG:40:ALA:HB3	2.34	0.43
7:SJ:98:LEU:HB3	15:SC:200:ARG:O	2.18	0.43
10:SA:157:VAL:HG21	10:SA:160:ALA:HB2	2.01	0.43
11:SB:151:ARG:HD2	11:SB:153:THR:O	2.19	0.43
12:SH:134:VAL:HG11	12:SH:187:PHE:CE1	2.54	0.43
15:SC:191:VAL:HG11	15:SC:236:PHE:HA	2.00	0.43
18:SW:71:LYS:HB3	18:SW:130:PHE:CE1	2.54	0.43
18:SW:83:LEU:HA	18:SW:86:LEU:HD23	2.01	0.43
85:L5:107:G:OP1	32:LL:42:LYS:HE3	2.19	0.43
85:L5:518:G:C8	85:L5:644:G:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:713:C:H2'	85:L5:714:G:H8	1.84	0.43
85:L5:937:U:H2'	85:L5:938:C:C6	2.54	0.43
85:L5:1582:U:C2	85:L5:1583:A:C8	3.07	0.43
85:L5:1614:C:H2'	85:L5:1615:C:C6	2.53	0.43
85:L5:2387:G:H5'	38:LR:24:LEU:O	2.19	0.43
85:L5:2696:A:H62	56:Lk:35:LYS:HZ2	1.66	0.43
85:L5:2697:A:C4	85:L5:2698:G:C8	3.07	0.43
85:L5:2832:A:C4	85:L5:2833:A:C8	3.07	0.43
85:L5:4162:C:O4'	28:LG:69:ILE:HD11	2.19	0.43
85:L5:4369:A:H2'	85:L5:4370:G:H8	1.84	0.43
85:L5:4577:U:H2'	85:L5:4578:G:C8	2.53	0.43
85:L5:4660:G:H2'	85:L5:4661:G:H8	1.84	0.43
85:L5:4684:A:H2'	85:L5:4685:U:O4'	2.19	0.43
85:L5:4934:A:H2'	85:L5:4935:C:C6	2.54	0.43
20:L7:91:C:H2'	20:L7:92:C:C6	2.54	0.43
20:L7:98:G:C2	20:L7:99:G:H1'	2.54	0.43
24:LC:86:ARG:HD2	24:LC:89:GLN:OE1	2.19	0.43
25:LD:104:LEU:HD11	25:LD:108:ARG:NH2	2.34	0.43
25:LD:116:ASP:OD1	25:LD:116:ASP:N	2.51	0.43
26:LE:278:THR:O	51:Lf:4:ARG:NH2	2.51	0.43
28:LG:117:ARG:O	28:LG:121:LYS:HG3	2.18	0.43
30:LI:9:TYR:CD1	30:LI:97:ILE:HD12	2.53	0.43
31:LJ:167:GLN:OE1	31:LJ:167:GLN:HA	2.19	0.43
32:LL:204:GLU:O	32:LL:207:VAL:HG12	2.18	0.43
37:LQ:4:ASP:OD1	37:LQ:4:ASP:N	2.52	0.43
41:LU:107:LYS:HE2	41:LU:107:LYS:HB2	1.92	0.43
50:Le:107:ASN:O	50:Le:111:ILE:HG13	2.18	0.43
64:SR:49:LYS:HE2	64:SR:49:LYS:HB3	1.69	0.43
66:SF:74:ASN:O	79:S2:1675:A:O2'	2.37	0.43
67:SK:77:GLN:HA	67:SK:80:ARG:HB2	2.00	0.43
68:SP:17:TYR:CE2	68:SP:112:ILE:HB	2.54	0.43
72:SU:97:ILE:HG23	72:SU:98:VAL:HG13	2.00	0.43
75:Sg:31:ILE:C	75:Sg:31:ILE:HD12	2.43	0.43
75:Sg:219:TRP:CD1	75:Sg:226:HIS:ND1	2.77	0.43
77:SZ:79:ILE:HG21	77:SZ:84:ALA:HB2	2.01	0.43
78:Sf:104:LYS:O	78:Sf:104:LYS:HD2	2.19	0.43
78:Sf:109:ASP:O	78:Sf:110:GLU:HG3	2.18	0.43
78:Sf:117:LEU:HD23	78:Sf:118:ARG:HG2	2.00	0.43
88:CF:282:PRO:HA	88:CF:336:GLU:OE2	2.19	0.43
83:Ls:57:LYS:CB	83:Ls:60:MET:HB2	2.49	0.43
1:cH:66:GLU:HB3	65:sD:54:ARG:HH21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sE:11:ARG:NH1	2:sE:21:ASP:OD2	2.52	0.42
3:sI:193:LYS:HE2	3:sI:193:LYS:HB2	1.64	0.42
4:sL:29:GLY:HA3	4:sL:30:LYS:HA	1.39	0.42
4:sL:121:GLN:N	4:sL:121:GLN:OE1	2.52	0.42
5:sX:139:GLU:N	5:sX:139:GLU:OE1	2.52	0.42
6:sG:64:LYS:NZ	6:sG:82:SER:O	2.52	0.42
6:sG:231:ARG:NH1	79:s2:786:G:H8	2.17	0.42
10:sA:89:LYS:O	10:sA:93:ALA:N	2.45	0.42
11:sB:148:ASN:C	64:sR:131:PRO:HB3	2.44	0.42
12:sH:145:ARG:NH1	18:sW:52:ILE:N	2.67	0.42
20:l7:40:U:O2	31:lJ:75:ARG:NE	2.40	0.42
20:l7:45:U:H2'	20:l7:46:C:H6	1.83	0.42
22:lA:65:ASP:HB3	22:lA:68:ARG:O	2.18	0.42
24:lC:285:ILE:HG21	37:lQ:125:GLN:NE2	2.33	0.42
26:lE:67:ALA:HB2	85:l5:1071:C:C5	2.53	0.42
26:lE:173:LEU:HD11	26:lE:191:GLN:HA	2.00	0.42
28:lG:207:VAL:HG21	28:lG:215:LEU:HD11	2.01	0.42
29:lH:129:ARG:HH21	29:lH:160:LEU:HD11	1.83	0.42
29:lH:152:GLU:OE1	85:l5:4689:U:C1'	2.67	0.42
30:lI:86:HIS:HB3	30:lI:139:ARG:HG3	2.01	0.42
32:lL:13:HIS:NE2	85:l5:97:G:N7	2.59	0.42
32:lL:135:LYS:O	32:lL:136:LYS:HD3	2.19	0.42
33:lM:130:LEU:HD23	33:lM:130:LEU:HA	1.78	0.42
36:lP:31:GLU:OE1	36:lP:63:TYR:N	2.47	0.42
39:lS:175:PHE:CE2	85:l5:4765:G:C5	3.06	0.42
45:lZ:3:LYS:HB2	45:lZ:3:LYS:HE2	1.82	0.42
46:la:65:ARG:NH2	85:l5:86:U:O2'	2.52	0.42
46:la:100:ILE:HD13	46:la:100:ILE:HA	1.84	0.42
51:lf:70:ILE:HD11	85:l5:441:G:H5"	2.01	0.42
61:lp:85:ARG:CZ	61:lp:85:ARG:CB	2.97	0.42
63:lz:4:LYS:H	63:lz:4:LYS:HG2	1.56	0.42
63:lz:28:PHE:HB3	85:l5:3974:G:O3'	2.19	0.42
63:lz:198:TRP:CZ2	63:lz:202:ARG:HB2	2.53	0.42
64:sR:74:GLN:HG2	64:sR:75:GLU:N	2.34	0.42
65:sD:62:LYS:HB3	67:sK:95:ARG:HH12	1.84	0.42
66:sF:49:LEU:HD23	69:sQ:50:LYS:HB2	2.01	0.42
71:sT:31:PRO:HG2	71:sT:33:TRP:CD1	2.54	0.42
72:sU:26:SER:HB2	72:sU:110:VAL:HA	2.00	0.42
72:sU:104:ILE:HD12	72:sU:104:ILE:HA	1.81	0.42
72:sU:116:ILE:HG22	72:sU:117:ALA:H	1.84	0.42
75:sg:78:ALA:HB3	75:sg:92:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:sM:55:ASN:HB2	76:sM:81:ASP:HA	2.01	0.42
78:sf:95:ARG:HD3	79:s2:1305:C:OP2	2.19	0.42
79:s2:129:C:OP2	79:s2:214:U:H2'	2.19	0.42
79:s2:540:U:H5	79:s2:544:G:N1	2.16	0.42
79:s2:1388:A:N1	79:s2:1389:C:H1'	2.34	0.42
79:s2:1395:C:C2	79:s2:1474:A:C6	3.07	0.42
79:s2:1451:G:H1'	79:s2:1474:A:N6	2.34	0.42
80:cB:26:ALA:O	80:cB:107:GLY:HA3	2.19	0.42
80:cB:61:LYS:HG3	80:cB:62:ASP:N	2.34	0.42
80:cB:600:ASN:HA	80:cB:708:THR:O	2.19	0.42
85:l5:161:G:H2'	85:l5:162:A:C8	2.54	0.42
85:l5:920:C:H2'	85:l5:921:C:H6	1.83	0.42
85:l5:1980:U:H1'	85:l5:1982:G:OP2	2.18	0.42
85:l5:2038:U:H2'	85:l5:2039:G:O4'	2.19	0.42
85:l5:2848:G:O2'	85:l5:3838:U:O4	2.35	0.42
85:l5:3730:U:H2'	85:l5:3731:C:C6	2.54	0.42
85:l5:4248:A:H2'	85:l5:4249:G:O4'	2.19	0.42
86:LW:87:LEU:HD12	86:LW:90:ILE:HD11	2.01	0.42
4:SL:20:LYS:O	4:SL:22:ARG:HD2	2.19	0.42
4:SL:36:TYR:CE2	79:S2:294:U:H5	2.37	0.42
10:SA:23:THR:HA	10:SA:164:ASN:HB2	1.99	0.42
10:SA:46:ILE:HD12	10:SA:46:ILE:HA	1.84	0.42
10:SA:77:ILE:HD11	10:SA:124:VAL:HG23	2.00	0.42
10:SA:183:LEU:HD12	10:SA:195:TRP:CH2	2.54	0.42
12:SH:9:VAL:O	12:SH:10:LYS:HG2	2.19	0.42
15:SC:188:CYS:HA	79:S2:1355:C:H42	1.84	0.42
15:SC:202:THR:N	15:SC:221:ASP:OD2	2.52	0.42
85:L5:106:A:H2'	85:L5:107:G:O4'	2.18	0.42
85:L5:1243:C:C2	85:L5:1244:G:C8	3.07	0.42
85:L5:1293:G:OP2	85:L5:1293:G:N2	2.47	0.42
85:L5:1614:C:H2'	85:L5:1615:C:H6	1.84	0.42
85:L5:1698:C:H5"	85:L5:1699:A:O4'	2.18	0.42
85:L5:2635:U:H2'	85:L5:2636:U:H6	1.84	0.42
85:L5:2757:A:H2'	85:L5:2758:G:C8	2.54	0.42
85:L5:2870:A:H2'	85:L5:2871:A:H8	1.84	0.42
85:L5:3648:A:H1'	85:L5:3785:A:H61	1.84	0.42
85:L5:3706:C:H2'	85:L5:3707:U:C6	2.54	0.42
85:L5:3718:A:C4	85:L5:3719:A:C8	3.07	0.42
85:L5:3933:G:H2'	85:L5:3934:G:C8	2.54	0.42
85:L5:4052:C:C4	63:Lz:31:THR:HB	2.53	0.42
85:L5:4080:C:H2'	85:L5:4081:G:C8	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4348:A:N6	85:L5:4350:C:C4	2.87	0.42
85:L5:4967:A:H2'	85:L5:4968:A:H8	1.84	0.42
85:L5:4980:C:OP2	85:L5:4981:G:N2	2.51	0.42
21:L8:94:G:N7	55:Lj:79:ARG:NH2	2.67	0.42
21:L8:130:C:H2'	21:L8:131:G:C8	2.54	0.42
23:LB:290:GLY:O	23:LB:301:ASN:ND2	2.51	0.42
23:LB:302:ASN:ND2	23:LB:314:ILE:HG22	2.34	0.42
25:LD:193:GLU:O	25:LD:197:LYS:N	2.47	0.42
27:LF:94:ARG:NH2	27:LF:98:ILE:HG22	2.34	0.42
30:LI:48:LEU:HD21	30:LI:142:LEU:C	2.44	0.42
31:LJ:86:GLY:HA3	31:LJ:130:PHE:CE2	2.54	0.42
34:LN:68:ARG:HD3	34:LN:125:SER:O	2.19	0.42
38:LR:3:MET:SD	38:LR:5:ARG:NH1	2.92	0.42
45:LZ:12:LEU:HD11	45:LZ:134:LEU:HD22	2.02	0.42
47:Lb:99:ILE:O	47:Lb:109:ARG:NH1	2.52	0.42
55:Lj:60:GLY:N	55:Lj:64:MET:SD	2.91	0.42
62:Lr:32:LEU:HD12	62:Lr:32:LEU:N	2.34	0.42
65:SD:151:LYS:NZ	79:S2:1486:A:OP2	2.32	0.42
66:SF:33:ILE:HD12	66:SF:36:GLN:HG3	2.01	0.42
67:SK:27:VAL:HG13	67:SK:28:HIS:CD2	2.53	0.42
67:SK:31:LYS:NZ	67:SK:39:ASN:HA	2.34	0.42
67:SK:49:MET:CG	67:SK:69:TRP:CD1	3.02	0.42
69:SQ:74:GLY:N	79:S2:1545:A:OP1	2.35	0.42
75:Sg:109:LEU:HD23	75:Sg:124:SER:O	2.19	0.42
75:Sg:144:ASP:OD1	75:Sg:144:ASP:C	2.62	0.42
75:Sg:217:MET:HG2	75:Sg:226:HIS:CE1	2.54	0.42
75:Sg:306:LEU:HD23	75:Sg:308:ARG:HH21	1.83	0.42
76:SM:12:MET:O	76:SM:16:THR:OG1	2.33	0.42
76:SM:66:GLU:CD	76:SM:66:GLU:N	2.75	0.42
77:SZ:100:VAL:HG13	77:SZ:108:ILE:HG23	2.00	0.42
78:Sf:133:ALA:N	78:Sf:140:TYR:O	2.51	0.42
79:S2:322:C:H2'	79:S2:323:C:C1'	2.48	0.42
79:S2:339:A:H2'	79:S2:340:C:C5	2.53	0.42
79:S2:410:G:C6	79:S2:431:G:C6	3.07	0.42
79:S2:698:G:H2'	79:S2:733:C:N3	2.34	0.42
79:S2:830:A:C5	79:S2:831:G:H1'	2.54	0.42
79:S2:1337:C:H2'	79:S2:1338:G:C8	2.54	0.42
79:S2:1512:C:H2'	79:S2:1513:C:C6	2.54	0.42
79:S2:1528:G:H2'	79:S2:1529:C:C6	2.54	0.42
82:Et:9:A:H5'	82:Et:11:C:OP2	2.19	0.42
88:CF:58:TRP:CZ2	88:CF:67:ARG:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
89:Pt:3:C:H2'	89:Pt:4:U:C6	2.53	0.42
89:Pt:22:U:H2'	89:Pt:23:C:H6	1.84	0.42
63:Lz:159:MET:SD	63:Lz:159:MET:O	2.77	0.42
8:sY:24:VAL:HG23	8:sY:71:GLY:O	2.20	0.42
8:sY:32:LYS:HE3	8:sY:32:LYS:HB3	1.80	0.42
10:sA:85:ARG:HE	10:sA:89:LYS:CE	2.32	0.42
10:sA:143:PRO:CB	13:sV:34:MET:HE3	2.49	0.42
11:sB:68:GLU:CD	11:sB:83:LYS:HD3	2.42	0.42
14:sa:4:LYS:HE2	14:sa:92:ARG:CZ	2.49	0.42
14:sa:5:ARG:HG3	14:sa:7:ASN:O	2.19	0.42
15:sC:84:PHE:CZ	15:sC:264:SER:HA	2.54	0.42
15:sC:102:LEU:CD1	15:sC:132:ASP:N	2.83	0.42
24:lC:33:ARG:NH1	24:lC:35:ASP:OD2	2.52	0.42
24:lC:188:ARG:NH2	85:l5:2299:G:O6	2.52	0.42
24:lC:321:ASN:OD1	24:lC:324:ILE:HG12	2.19	0.42
27:lF:213:LEU:O	85:l5:2072:C:O2'	2.36	0.42
29:lH:187:VAL:C	29:lH:189:GLN:H	2.26	0.42
34:lN:83:LYS:O	34:lN:85:VAL:N	2.52	0.42
35:lO:99:LEU:HD23	35:lO:99:LEU:HA	1.85	0.42
43:lX:153:ILE:HD13	43:lX:153:ILE:HA	1.80	0.42
47:lb:48:LYS:NZ	85:l5:1815:G:O6	2.52	0.42
55:lj:67:LEU:HD22	55:lj:71:TYR:CE2	2.53	0.42
63:lz:148:VAL:HG23	63:lz:149:ASP:N	2.33	0.42
64:sR:53:TYR:CE2	79:s2:1465:A:N7	2.87	0.42
70:sS:91:LYS:HE2	70:sS:91:LYS:HB3	1.63	0.42
75:sg:186:THR:HG22	75:sg:188:HIS:HB2	2.01	0.42
79:s2:24:C:O2'	79:s2:25:A:O5'	2.37	0.42
79:s2:803:C:H2'	79:s2:804:U:C6	2.53	0.42
79:s2:816:A:H2'	79:s2:817:G:O4'	2.19	0.42
79:s2:1293:A:H3'	79:s2:1294:G:H8	1.84	0.42
79:s2:1512:C:H2'	79:s2:1513:C:C6	2.54	0.42
79:s2:1638:G:H5"	79:s2:1639:G:OP1	2.18	0.42
79:s2:1716:C:H2'	79:s2:1717:C:H6	1.82	0.42
80:cB:333:LYS:O	80:cB:337:LYS:NZ	2.52	0.42
80:cB:609:PHE:CD1	80:cB:699:GLY:HA2	2.54	0.42
80:cB:753:GLU:O	80:cB:756:VAL:HG23	2.18	0.42
81:aP:6:C:H2'	81:aP:7:G:C8	2.54	0.42
84:lt:14:TYR:HE2	84:lt:16:ARG:HH21	1.65	0.42
85:l5:454:U:C4	85:l5:703:G:C8	3.08	0.42
85:l5:970:G:H3'	85:l5:970:G:N3	2.33	0.42
85:l5:1697:G:O2'	85:l5:1698:C:O4'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:2293:U:H2'	85:l5:2294:G:H8	1.84	0.42
85:l5:2323:C:H2'	85:l5:2324:C:H6	1.84	0.42
85:l5:2323:C:H2'	85:l5:2324:C:C6	2.54	0.42
85:l5:2508:U:H2'	85:l5:2509:C:H6	1.84	0.42
85:l5:2570:U:H2'	85:l5:2571:C:H6	1.83	0.42
85:l5:4097:G:O6	85:l5:4098:A:N6	2.51	0.42
3:SI:80:ASP:OD1	3:SI:80:ASP:C	2.62	0.42
3:SI:81:VAL:HG12	3:SI:94:LYS:HG3	2.01	0.42
3:SI:124:LYS:HE2	3:SI:124:LYS:HB2	1.72	0.42
3:SI:170:LYS:HE2	85:L5:5027:C:H41	1.84	0.42
8:SY:129:LYS:HA	8:SY:129:LYS:HD3	1.78	0.42
10:SA:110:ASN:HB3	10:SA:113:GLN:HG2	2.01	0.42
11:SB:188:LEU:HD23	11:SB:188:LEU:HA	1.83	0.42
13:SV:47:ASN:OD1	13:SV:48:GLY:N	2.53	0.42
15:SC:64:THR:HG22	15:SC:66:LEU:N	2.34	0.42
15:SC:240:THR:O	15:SC:244:ILE:HD12	2.19	0.42
17:SO:12:GLU:HA	17:SO:13:GLN:HA	1.82	0.42
19:Sb:54:VAL:HG23	19:Sb:64:CYS:HB2	2.01	0.42
85:L5:39:A:O2'	85:L5:40:G:H5'	2.19	0.42
85:L5:226:G:N7	24:LC:184:TYR:OH	2.38	0.42
85:L5:276:C:OP1	54:Li:36:HIS:HB3	2.19	0.42
85:L5:279:A:H5"	34:LN:47:LYS:NZ	2.34	0.42
85:L5:393:U:H2'	85:L5:394:G:C8	2.54	0.42
85:L5:415:G:C5	85:L5:416:U:C5	3.07	0.42
85:L5:461:G:H2'	85:L5:462:G:H8	1.82	0.42
85:L5:469:C:N3	26:LE:105:ARG:NH2	2.59	0.42
85:L5:667:A:N6	24:LC:291:ARG:HH12	2.17	0.42
85:L5:1335:G:H2'	85:L5:1336:G:H8	1.83	0.42
85:L5:1555:G:N7	61:Lp:4:ARG:NH2	2.66	0.42
85:L5:1668:A:OP2	85:L5:2280:G:N2	2.48	0.42
85:L5:1759:G:O6	85:L5:1773:U:C2	2.72	0.42
85:L5:1912:G:H2'	85:L5:1913:C:C6	2.54	0.42
85:L5:1946:G:OP1	58:Lm:119:ASN:ND2	2.38	0.42
85:L5:1983:A:O2'	85:L5:2011:C:OP1	2.37	0.42
85:L5:3690:U:OP2	22:LA:200:ARG:HD2	2.20	0.42
85:L5:3721:U:H2'	85:L5:3722:G:C8	2.54	0.42
85:L5:3882:C:H2'	85:L5:3883:U:C6	2.54	0.42
85:L5:4232:U:H5"	60:Lo:3:ASN:O	2.19	0.42
85:L5:4635:A:H3'	85:L5:4636:U:H4'	2.01	0.42
85:L5:4736:C:H2'	85:L5:4737:G:H8	1.83	0.42
85:L5:4894:A:H3'	85:L5:4895:C:H5'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4945:G:H22	51:Lf:3:GLY:H	1.67	0.42
20:L7:27:G:P	25:LD:56:THR:HG23	2.59	0.42
20:L7:43:U:C4	20:L7:44:C:C4	3.07	0.42
21:L8:82:A:N7	21:L8:84:A:H3'	2.34	0.42
23:LB:257:TRP:C	23:LB:257:TRP:CD1	2.98	0.42
24:LC:334:THR:HG21	27:LF:51:TYR:OH	2.18	0.42
25:LD:177:THR:HB	25:LD:190:PHE:HD1	1.82	0.42
25:LD:253:TYR:CE2	25:LD:255:LYS:HG2	2.54	0.42
28:LG:106:THR:HG23	28:LG:108:GLN:H	1.83	0.42
29:LH:34:LEU:HD11	29:LH:149:ASN:HB3	2.01	0.42
32:LL:65:ARG:NH2	32:LL:66:TYR:OH	2.52	0.42
39:LS:126:ILE:HD12	39:LS:126:ILE:N	2.34	0.42
45:LZ:42:LEU:HD23	45:LZ:74:VAL:HG12	2.01	0.42
47:Lb:40:LEU:HD23	47:Lb:40:LEU:HA	1.81	0.42
48:Lc:18:LEU:HA	48:Lc:21:VAL:HG12	2.00	0.42
57:Ll:8:ARG:H	57:Ll:8:ARG:HG2	1.63	0.42
66:SF:77:MET:HB2	66:SF:83:ASN:O	2.19	0.42
69:SQ:78:VAL:HG12	79:S2:1673:U:H5"	2.00	0.42
70:SS:83:PHE:CD1	79:S2:1629:C:H4'	2.54	0.42
71:ST:56:ARG:HH21	79:S2:1541:G:P	2.42	0.42
71:ST:107:LEU:HD22	71:ST:112:MET:HG2	2.00	0.42
72:SU:37:ALA:O	72:SU:40:ILE:HG22	2.19	0.42
73:Sc:32:VAL:O	73:Sc:41:SER:OG	2.25	0.42
75:Sg:147:HIS:HB3	75:Sg:171:ASP:OD1	2.19	0.42
76:SM:19:GLN:NE2	76:SM:23:LYS:HE2	2.35	0.42
76:SM:116:LYS:HA	76:SM:116:LYS:HD3	1.77	0.42
79:S2:25:A:HO2'	79:S2:26:U:H6	1.66	0.42
79:S2:472:C:O2	79:S2:475:C:N4	2.51	0.42
79:S2:1135:C:H2'	79:S2:1136:U:H6	1.84	0.42
79:S2:1218:C:H2'	79:S2:1219:C:H6	1.84	0.42
79:S2:1365:G:H2'	79:S2:1366:G:H8	1.85	0.42
79:S2:1540:G:O6	79:S2:1594:A:N6	2.52	0.42
87:AT:2:U:H2'	87:AT:3:C:H6	1.84	0.42
82:Et:10:G:N2	82:Et:26:A:H1'	2.33	0.42
88:CF:16:VAL:HG23	88:CF:71:ILE:HD13	2.02	0.42
63:Lz:46:ASP:HA	63:Lz:161:LYS:HB3	2.01	0.42
63:Lz:107:TYR:HB2	63:Lz:110:PHE:HE1	1.83	0.42
83:Ls:103:LEU:HD11	83:Ls:189:ILE:HD11	2.01	0.42
83:Ls:120:GLU:HG2	83:Ls:162:LYS:HA	2.02	0.42
1:cH:72:ARG:HG3	1:cH:113:ARG:O	2.20	0.42
2:sE:31:PRO:HA	2:sE:81:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sE:178:GLY:O	2:sE:231:GLY:HA2	2.18	0.42
3:sI:199:LEU:HD12	3:sI:200:ARG:N	2.35	0.42
4:sL:46:THR:HG23	4:sL:62:PHE:CD1	2.55	0.42
9:se:28:LYS:O	9:se:33:LYS:HB2	2.20	0.42
10:sA:102:ARG:NH1	79:s2:1378:A:OP2	2.52	0.42
10:sA:191:ARG:CG	13:sV:45:ARG:NH1	2.82	0.42
11:sB:74:LEU:HA	11:sB:74:LEU:HD12	1.81	0.42
13:sV:55:ILE:CG2	13:sV:60:ARG:HB2	2.49	0.42
21:l8:14:U:H5"	36:lP:123:PRO:HG3	2.02	0.42
21:l8:83:C:H42	44:lY:50:ARG:HH12	1.67	0.42
22:lA:188:LYS:O	22:lA:192:LYS:HD3	2.19	0.42
23:lB:147:GLU:CD	23:lB:198:ARG:HH12	2.28	0.42
25:lD:67:ALA:HA	25:lD:72:ASP:HA	2.02	0.42
29:lH:129:ARG:NH2	29:lH:160:LEU:HD11	2.34	0.42
31:lJ:20:LEU:CD2	31:lJ:79:ALA:HA	2.49	0.42
32:lL:78:LEU:HD11	32:lL:88:LYS:HD3	2.01	0.42
33:lM:44:GLN:NE2	85:l5:935:A:C4'	2.83	0.42
42:lV:27:ASN:OD1	42:lV:27:ASN:C	2.62	0.42
53:lh:105:LYS:HD2	53:lh:105:LYS:HA	1.78	0.42
63:lz:15:ARG:HA	63:lz:15:ARG:HD2	1.75	0.42
63:lz:67:VAL:HA	63:lz:68:LEU:HA	1.57	0.42
64:sR:11:LYS:HA	79:s2:1373:C:C1'	2.50	0.42
64:sR:25:GLY:H	64:sR:55:THR:HG22	1.83	0.42
65:sD:194:PRO:CD	65:sD:195:THR:H	2.30	0.42
67:sK:3:MET:CE	67:sK:8:ARG:NH2	2.82	0.42
68:sP:121:ILE:HG12	68:sP:123:TYR:O	2.19	0.42
70:sS:46:ARG:NH1	71:sT:50:GLU:OE1	2.46	0.42
75:sg:252:THR:N	75:sg:255:SER:O	2.52	0.42
75:sg:271:LYS:NZ	75:sg:273:GLU:HA	2.35	0.42
75:sg:275:ILE:H	75:sg:275:ILE:HG12	1.65	0.42
76:sM:86:GLY:HA3	76:sM:91:LEU:HD23	2.01	0.42
77:sZ:47:LEU:HD21	77:sZ:79:ILE:CG2	2.50	0.42
79:s2:375:U:H2'	79:s2:376:A:C8	2.54	0.42
79:s2:811:A:H2'	79:s2:812:A:C8	2.55	0.42
79:s2:1713:C:H2'	79:s2:1714:U:H6	1.83	0.42
80:cB:21:ASN:O	80:cB:122:THR:OG1	2.37	0.42
80:cB:662:LEU:HA	80:cB:702:PHE:O	2.19	0.42
80:cB:722:ILE:H	80:cB:722:ILE:HD12	1.83	0.42
85:l5:135:G:N3	85:l5:135:G:H2'	2.34	0.42
85:l5:512:U:C4	85:l5:647:G:O6	2.72	0.42
85:l5:1490:G:H2'	85:l5:1491:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:1677:U:H4'	85:l5:1680:G:C2	2.55	0.42
85:l5:1697:G:H2'	85:l5:1698:C:C6	2.55	0.42
85:l5:2285:A:H2'	85:l5:2286:G:C8	2.54	0.42
85:l5:4111:U:H2'	85:l5:4112:C:C5	2.54	0.42
85:l5:4453:C:H2'	85:l5:4454:G:O4'	2.19	0.42
85:l5:4890:G:C4	85:l5:4891:G:C8	3.07	0.42
3:SI:176:ALA:HB3	3:SI:187:GLY:HA2	2.01	0.42
10:SA:164:ASN:OD1	10:SA:166:LYS:HG2	2.20	0.42
13:SV:20:SER:O	13:SV:21:ASN:OD1	2.37	0.42
19:Sb:34:ASP:HB3	19:Sb:43:ILE:HD11	2.01	0.42
85:L5:20:U:H3'	85:L5:21:G:H8	1.84	0.42
85:L5:40:G:N2	85:L5:4380:A:N7	2.68	0.42
85:L5:170:C:H4'	85:L5:171:U:O4'	2.20	0.42
85:L5:181:C:H3'	85:L5:182:G:N7	2.33	0.42
85:L5:376:A:C4	85:L5:377:A:C8	3.07	0.42
85:L5:408:A:O2'	85:L5:411:G:OP2	2.32	0.42
85:L5:1288:G:OP1	26:LE:132:PRO:HB2	2.19	0.42
85:L5:1308:C:C2	85:L5:1309:C:C5	3.08	0.42
85:L5:1383:G:C6	85:L5:1384:C:C4	3.08	0.42
85:L5:2655:C:H2'	85:L5:2656:U:C6	2.54	0.42
85:L5:2786:C:H4'	85:L5:2787:A:O5'	2.18	0.42
85:L5:4194:U:H5'	47:Lb:3:LYS:HG2	2.01	0.42
85:L5:4431:U:H2'	85:L5:4432:C:H6	1.84	0.42
85:L5:4435:U:H2'	85:L5:4436:U:C6	2.55	0.42
85:L5:4764:A:OP1	39:LS:156:HIS:ND1	2.47	0.42
85:L5:4945:G:H1'	26:LE:158:ARG:CZ	2.49	0.42
21:L8:123:U:H3	21:L8:125:C:H5"	1.84	0.42
22:LA:139:HIS:HA	22:LA:146:THR:HA	2.01	0.42
24:LC:207:PRO:HB3	24:LC:249:PHE:CD2	2.54	0.42
25:LD:122:GLN:O	25:LD:248:ARG:NH2	2.52	0.42
25:LD:208:MET:SD	25:LD:219:TYR:HE1	2.42	0.42
26:LE:45:SER:C	26:LE:47:ASN:H	2.27	0.42
26:LE:212:LEU:HD11	26:LE:249:ASP:OD2	2.20	0.42
26:LE:244:GLU:CD	26:LE:244:GLU:N	2.74	0.42
29:LH:8:GLN:OE1	29:LH:71:ARG:NE	2.46	0.42
29:LH:150:ASP:OD1	29:LH:153:LEU:HG	2.19	0.42
31:LJ:40:LEU:HD13	31:LJ:40:LEU:HA	1.90	0.42
31:LJ:139:PHE:HE1	31:LJ:155:HIS:CD2	2.35	0.42
32:LL:29:PRO:HD3	34:LN:202:ARG:CZ	2.49	0.42
34:LN:140:LYS:HA	34:LN:140:LYS:HD2	1.88	0.42
35:LO:32:LYS:HG2	35:LO:101:ARG:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:LP:38:GLY:N	36:LP:114:ILE:HG23	2.30	0.42
44:LY:4:ASN:OD1	44:LY:7:VAL:HG22	2.19	0.42
44:LY:18:HIS:O	44:LY:78:TYR:OH	2.37	0.42
49:Ld:96:GLU:N	49:Ld:96:GLU:OE1	2.53	0.42
58:Lm:103:LEU:CD2	58:Lm:110:CYS:HA	2.48	0.42
64:SR:75:GLU:O	64:SR:79:GLU:HB2	2.20	0.42
65:SD:215:ASP:OD1	65:SD:215:ASP:N	2.50	0.42
70:SS:61:GLU:HA	70:SS:61:GLU:OE1	2.19	0.42
72:SU:85:HIS:HD1	79:S2:1447:G:P	2.37	0.42
75:Sg:38:LYS:HG2	75:Sg:64:HIS:C	2.44	0.42
75:Sg:89:LEU:HB2	75:Sg:101:PHE:HZ	1.83	0.42
75:Sg:147:HIS:CE1	75:Sg:175:LYS:HB2	2.53	0.42
75:Sg:172:LYS:HG2	75:Sg:193:GLY:C	2.43	0.42
79:S2:2:A:OP2	79:S2:418:A:H5'	2.19	0.42
79:S2:53:C:O2'	79:S2:507:G:N7	2.42	0.42
79:S2:556:U:C6	79:S2:557:U:H4'	2.55	0.42
79:S2:1222:G:H2'	79:S2:1223:A:C8	2.54	0.42
79:S2:1738:C:H2'	79:S2:1739:C:H6	1.85	0.42
88:CF:111:CYS:SG	88:CF:148:LEU:HA	2.59	0.42
88:CF:155:MET:HB2	88:CF:162:TYR:HD1	1.84	0.42
88:CF:274:PRO:HA	88:CF:289:VAL:HG12	2.01	0.42
63:Lz:203:ALA:HB2	63:Lz:217:TYR:CE2	2.54	0.42
3:sI:128:LYS:HE3	3:sI:128:LYS:HB2	1.84	0.42
3:sI:133:GLU:O	3:sI:136:ILE:HG12	2.18	0.42
6:sG:202:ASN:HB3	6:sG:203:LYS:HE2	2.02	0.42
9:se:37:GLN:OE1	9:se:38:TYR:N	2.49	0.42
12:sH:116:ARG:HH12	79:s2:687:C:H1'	1.84	0.42
15:sC:75:ILE:HB	15:sC:80:GLU:OE2	2.19	0.42
15:sC:182:CYS:O	15:sC:184:VAL:HG23	2.18	0.42
20:l7:39:C:O2'	31:lJ:46:GLN:HG3	2.19	0.42
23:lB:194:LEU:HD23	23:lB:194:LEU:HA	1.90	0.42
24:lC:95:MET:HA	24:lC:95:MET:CE	2.38	0.42
24:lC:296:PRO:O	24:lC:300:ARG:HG3	2.19	0.42
26:lE:185:PRO:HA	26:lE:250:GLN:HE21	1.85	0.42
28:lG:215:LEU:O	28:lG:219:VAL:HG23	2.20	0.42
32:lL:96:ILE:HD13	32:lL:117:LEU:CD2	2.50	0.42
33:lM:37:LEU:HD12	39:lS:75:VAL:CG2	2.48	0.42
44:lY:109:LEU:HD21	44:lY:115:ARG:HD3	2.01	0.42
45:lZ:40:HIS:CD2	45:lZ:98:LYS:HZ3	2.38	0.42
46:la:36:GLY:HA3	46:la:40:HIS:CE1	2.54	0.42
50:le:5:ARG:HH22	85:l5:454:U:C1'	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:lz:142:GLU:H	63:lz:142:GLU:HG3	1.70	0.42
66:sF:56:TYR:HD2	66:sF:66:CYS:HB2	1.85	0.42
77:sZ:47:LEU:HD13	77:sZ:79:ILE:HA	1.91	0.42
79:s2:493:A:H1'	79:s2:574:A:H5'	2.01	0.42
79:s2:512:A:C2	79:s2:513:G:C8	3.08	0.42
79:s2:680:G:H2'	79:s2:681:U:C6	2.54	0.42
79:s2:1324:G:H1	79:s2:1504:U:H3	1.67	0.42
79:s2:1702:G:H2'	79:s2:1703:C:O4'	2.19	0.42
80:cB:16:LYS:CE	80:cB:388:CYS:HB3	2.49	0.42
80:cB:272:LYS:HA	80:cB:272:LYS:HD3	1.78	0.42
80:cB:765:ARG:NH2	80:cB:799:ASP:OD2	2.52	0.42
85:l5:664:G:N2	85:l5:666:G:O6	2.52	0.42
85:l5:693:C:H2'	85:l5:694:C:H6	1.85	0.42
85:l5:1094:G:C5	85:l5:1203:G:C2	3.07	0.42
85:l5:1435:G:O2'	85:l5:1708:G:OP2	2.36	0.42
85:l5:2864:A:H2'	85:l5:2865:U:H6	1.85	0.42
85:l5:2890:C:H2'	85:l5:2891:U:C6	2.55	0.42
85:l5:3585:G:H2'	85:l5:3586:G:H8	1.84	0.42
85:l5:3882:C:C2	85:l5:3883:U:C5	3.08	0.42
85:l5:4040:C:C5'	85:l5:4045:G:H1	2.32	0.42
85:l5:4099:G:H2'	85:l5:4101:C:H42	1.84	0.42
85:l5:4893:A:H8	85:l5:4893:A:OP2	2.02	0.42
85:l5:4922:C:N4	85:l5:4923:C:N4	2.68	0.42
2:SE:87:MET:SD	2:SE:87:MET:C	3.03	0.42
3:SI:100:CYS:SG	3:SI:175:ILE:HD12	2.60	0.42
3:SI:138:ASN:O	3:SI:139:LYS:HG2	2.19	0.42
4:SL:36:TYR:OH	4:SL:38:LYS:HE2	2.18	0.42
4:SL:137:THR:OG1	79:S2:373:G:OP1	2.29	0.42
10:SA:29:ASN:OD1	10:SA:29:ASN:C	2.61	0.42
10:SA:34:MET:SD	10:SA:34:MET:N	2.92	0.42
10:SA:123:VAL:CG1	10:SA:175:TRP:HH2	2.33	0.42
11:SB:30:TRP:HZ3	17:SO:19:PRO:CB	2.32	0.42
13:SV:12:TYR:HE1	15:SC:164:PRO:HG3	1.84	0.42
17:SO:54:CYS:SG	17:SO:55:ARG:N	2.93	0.42
18:SW:87:GLU:OE1	18:SW:87:GLU:N	2.36	0.42
85:L5:4:G:H2'	85:L5:5:A:H8	1.84	0.42
85:L5:396:A:OP2	85:L5:396:A:H8	2.01	0.42
85:L5:434:A:H3'	85:L5:435:A:H8	1.84	0.42
85:L5:1458:C:H2'	85:L5:1459:A:O4'	2.19	0.42
85:L5:1565:A:C5	85:L5:1566:C:H1'	2.55	0.42
85:L5:1962:A:H2	85:L5:2024:G:H21	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1978:C:H2'	85:L5:1979:A:O4'	2.19	0.42
85:L5:2258:C:N4	85:L5:2259:G:O6	2.53	0.42
85:L5:2412:A:H2'	85:L5:2413:U:H6	1.84	0.42
85:L5:2468:U:O2	85:L5:2506:G:N1	2.53	0.42
85:L5:2598:A:H2'	85:L5:2599:G:O4'	2.19	0.42
85:L5:2844:A:N6	85:L5:3839:G:O2'	2.53	0.42
85:L5:2856:C:H2'	85:L5:2857:A:O4'	2.19	0.42
85:L5:3967:G:H5'	85:L5:3968:U:OP2	2.19	0.42
85:L5:4773:C:N4	85:L5:4861:G:O6	2.28	0.42
85:L5:4870:G:H5"	33:LM:91:TRP:CE2	2.53	0.42
85:L5:4929:C:H2'	85:L5:4930:C:C6	2.54	0.42
85:L5:4977:A:H2'	85:L5:4978:G:O4'	2.20	0.42
23:LB:89:ILE:HD11	23:LB:201:LEU:HD21	2.00	0.42
28:LG:225:ASN:O	28:LG:229:ARG:NE	2.52	0.42
30:LI:209:TRP:O	30:LI:213:HIS:ND1	2.53	0.42
37:LQ:93:GLN:HG3	46:La:87:ARG:NH2	2.35	0.42
37:LQ:147:GLU:O	37:LQ:150:ARG:HB2	2.19	0.42
38:LR:66:ASN:O	38:LR:70:ARG:HG3	2.18	0.42
38:LR:173:ARG:NH1	79:S2:910:G:C4	2.88	0.42
42:LV:62:MET:HA	42:LV:62:MET:CE	2.34	0.42
43:LX:105:ASN:OD1	43:LX:108:GLN:HG3	2.20	0.42
45:LZ:4:PHE:CE1	48:Lc:67:ALA:HB2	2.52	0.42
49:Ld:57:MET:HG2	49:Ld:104:THR:CG2	2.49	0.42
53:Lh:50:VAL:HA	53:Lh:53:SER:HB2	2.02	0.42
55:Lj:27:TYR:HA	55:Lj:34:CYS:HA	2.02	0.42
66:SF:133:THR:HA	82:Et:39:U:O2	2.18	0.42
67:SK:53:LYS:HD2	67:SK:53:LYS:C	2.44	0.42
69:SQ:5:GLY:O	69:SQ:27:ARG:NH1	2.51	0.42
70:SS:7:GLU:OE1	70:SS:7:GLU:N	2.46	0.42
71:ST:88:MET:SD	79:S2:1665:G:C8	3.13	0.42
72:SU:62:ARG:HH11	72:SU:62:ARG:HG3	1.84	0.42
73:Sc:14:VAL:HB	73:Sc:30:VAL:HG11	2.00	0.42
79:S2:84:A:H2'	79:S2:85:A:C8	2.55	0.42
79:S2:193:C:H2'	79:S2:194:C:C6	2.53	0.42
79:S2:493:A:N1	79:S2:510:G:H1'	2.34	0.42
79:S2:812:A:H2'	79:S2:813:A:O4'	2.20	0.42
79:S2:1051:G:H2'	79:S2:1052:A:H8	1.84	0.42
79:S2:1444:U:H2'	79:S2:1445:U:C6	2.54	0.42
79:S2:1569:A:O2'	79:S2:1626:C:O2	2.37	0.42
82:Et:19:G:H4'	82:Et:20:U:OP2	2.17	0.42
82:Et:46:G:O2'	82:Et:48:C:OP2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
88:CF:79:LYS:HB3	88:CF:295:HIS:CD2	2.54	0.42
88:CF:212:LYS:HA	88:CF:212:LYS:HD2	1.91	0.42
88:CF:378:LYS:CG	88:CF:391:PRO:HB3	2.49	0.42
84:Lt:111:ASN:ND2	84:Lt:161:GLU:OE2	2.52	0.42
63:Lz:107:TYR:HB2	63:Lz:110:PHE:CE1	2.54	0.42
83:Ls:14:PHE:O	83:Ls:18:ILE:HG12	2.19	0.42
2:sE:19:MET:HG2	2:sE:19:MET:O	2.19	0.42
4:sL:133:PRO:HG2	79:s2:383:G:N3	2.34	0.42
5:sX:84:PHE:CD1	5:sX:115:ILE:CD1	3.02	0.42
6:sG:159:ARG:HD2	6:sG:171:THR:HG21	2.01	0.42
7:sJ:40:LYS:HD2	79:s2:641:A:OP1	2.19	0.42
7:sJ:162:ARG:NH1	79:s2:583:A:OP2	2.53	0.42
8:sY:105:LYS:HB3	8:sY:106:GLN:NE2	2.35	0.42
11:sB:103:MET:CB	11:sB:215:VAL:HG12	2.49	0.42
11:sB:116:LYS:HG2	79:s2:988:C:H5'	2.02	0.42
12:sH:49:LYS:HB2	12:sH:61:ILE:HG23	2.01	0.42
16:sN:29:THR:O	16:sN:33:VAL:HG12	2.19	0.42
16:sN:84:LEU:HD23	16:sN:84:LEU:HA	1.85	0.42
16:sN:127:ARG:O	16:sN:131:THR:HG23	2.19	0.42
18:sW:47:ILE:CD1	18:sW:63:VAL:HG11	2.49	0.42
22:lA:47:ASP:OD1	22:lA:48:ILE:N	2.53	0.42
24:lC:235:LEU:HD23	24:lC:235:LEU:HA	1.88	0.42
28:lG:170:LEU:HD23	28:lG:170:LEU:HA	1.78	0.42
34:lN:123:GLU:H	34:lN:123:GLU:HG2	1.55	0.42
37:lQ:35:LEU:HD23	37:lQ:35:LEU:HA	1.88	0.42
38:lR:76:MET:O	38:lR:80:LYS:HB2	2.19	0.42
46:la:100:ILE:HD13	46:la:123:ILE:HB	2.02	0.42
49:ld:50:ARG:HG2	49:ld:54:MET:HE3	2.01	0.42
50:le:118:LEU:HD23	50:le:118:LEU:HA	1.88	0.42
53:lh:33:VAL:O	53:lh:37:THR:HG23	2.19	0.42
56:lk:57:LYS:O	56:lk:60:LEU:HG	2.19	0.42
59:ln:13:LEU:HD21	59:ln:17:ARG:NH2	2.34	0.42
59:ln:19:LYS:HD3	59:ln:19:LYS:HA	1.71	0.42
63:lz:188:ASN:O	63:lz:192:SER:OG	2.27	0.42
65:sD:172:VAL:HG22	65:sD:185:LYS:HD3	2.00	0.42
66:sF:122:ARG:HB3	66:sF:146:ARG:HH21	1.84	0.42
68:sP:101:THR:OG1	68:sP:103:ASN:OD1	2.37	0.42
75:sg:20:GLN:OE1	75:sg:21:ILE:N	2.52	0.42
79:s2:197:U:H2'	79:s2:203:G:N2	2.34	0.42
79:s2:875:A:H2'	79:s2:876:C:C6	2.54	0.42
79:s2:1395:C:H2'	79:s2:1396:A:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1531:A:H2'	79:s2:1532:C:C6	2.54	0.42
79:s2:1564:C:H2'	79:s2:1565:C:H6	1.84	0.42
79:s2:1690:U:H2'	79:s2:1691:U:C6	2.53	0.42
80:cB:626:GLN:O	80:cB:631:ARG:NH2	2.32	0.42
85:l5:294:G:O6	85:l5:315:G:H1'	2.20	0.42
85:l5:705:G:H2'	85:l5:706:C:C6	2.54	0.42
85:l5:734:G:H22	85:l5:929:A:H2	1.65	0.42
85:l5:928:C:C2	85:l5:929:A:C8	3.08	0.42
85:l5:1197:C:H2'	85:l5:1198:G:C8	2.54	0.42
85:l5:1309:C:H2'	85:l5:1310:C:C6	2.54	0.42
85:l5:1402:C:C2	85:l5:1415:G:N2	2.78	0.42
85:l5:1567:U:H2'	85:l5:1568:C:H6	1.84	0.42
85:l5:2000:G:H5"	85:l5:2001:G:H5'	2.01	0.42
85:l5:2694:G:H5'	85:l5:2695:A:C2	2.55	0.42
85:l5:3707:U:H2'	85:l5:3708:C:C6	2.54	0.42
85:l5:4364:G:H2'	85:l5:4365:C:C6	2.55	0.42
85:l5:4704:C:H2'	85:l5:4705:A:H8	1.84	0.42
2:SE:126:VAL:HA	2:SE:141:THR:HA	2.01	0.42
4:SL:107:LYS:CE	79:S2:354:U:P	3.07	0.42
6:SG:22:ARG:HH12	6:SG:40:ALA:HB1	1.84	0.42
6:SG:71:GLY:H	6:SG:98:ARG:HH12	1.68	0.42
8:SY:41:ARG:HD2	8:SY:55:ILE:HG22	2.02	0.42
10:SA:195:TRP:C	10:SA:195:TRP:CD1	2.98	0.42
12:SH:60:ILE:N	12:SH:91:HIS:O	2.48	0.42
15:SC:202:THR:HG22	15:SC:221:ASP:HB3	2.01	0.42
18:SW:105:THR:OG1	79:S2:862:A:N3	2.35	0.42
85:L5:38:A:H61	85:L5:41:C:H3'	1.84	0.42
85:L5:125:C:P	34:LN:144:ARG:HH22	2.42	0.42
85:L5:965:G:H1'	85:L5:2093:A:N1	2.34	0.42
85:L5:1209:U:HO2'	85:L5:1211:G:H8	1.67	0.42
85:L5:1455:G:H2'	85:L5:1456:C:C6	2.54	0.42
85:L5:1512:G:H2'	85:L5:1513:U:C6	2.54	0.42
85:L5:1578:U:OP1	85:L5:3637:U:O2'	2.22	0.42
85:L5:1669:A:H4'	85:L5:1685:G:H22	1.83	0.42
85:L5:1922:G:C2	85:L5:2063:G:C5	3.08	0.42
85:L5:2249:C:H2'	85:L5:2250:C:C5	2.53	0.42
85:L5:2413:U:N3	85:L5:2414:G:N7	2.67	0.42
85:L5:2906:G:H1'	85:L5:2908:U:H1'	2.01	0.42
85:L5:3723:A:H2'	85:L5:3724:A:C8	2.54	0.42
85:L5:3784:A:HO2'	85:L5:3785:A:H3'	1.83	0.42
85:L5:4308:C:H2'	85:L5:4309:G:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4507:A:HO2'	42:LV:41:SER:HG	1.67	0.42
85:L5:4887:C:N4	85:L5:4932:U:H3	2.14	0.42
21:L8:9:A:H2'	21:L8:10:G:C8	2.51	0.42
21:L8:12:G:C6	21:L8:13:G:N7	2.87	0.42
21:L8:154:G:H4'	28:LG:189:ARG:NH2	2.35	0.42
23:LB:363:ILE:HD12	23:LB:363:ILE:O	2.20	0.42
25:LD:236:MET:CE	25:LD:240:TYR:HE2	2.33	0.42
25:LD:239:MET:O	25:LD:243:ALA:N	2.49	0.42
28:LG:180:PRO:HA	28:LG:227:ASN:ND2	2.34	0.42
28:LG:260:GLU:O	28:LG:263:THR:OG1	2.30	0.42
31:LJ:95:ARG:HD2	31:LJ:96:LYS:H	1.83	0.42
31:LJ:99:PHE:CD1	31:LJ:105:PHE:CB	3.01	0.42
32:LL:8:MET:HE1	37:LQ:167:VAL:C	2.44	0.42
35:LO:194:GLU:O	35:LO:198:THR:N	2.45	0.42
37:LQ:181:ARG:HD2	46:La:56:VAL:HG11	2.01	0.42
44:LY:5:PRO:HG2	44:LY:6:PHE:CD2	2.54	0.42
44:LY:110:LYS:H	44:LY:115:ARG:NH1	2.17	0.42
52:Lg:88:ARG:O	52:Lg:92:LYS:HG3	2.19	0.42
65:SD:55:THR:HB	65:SD:59:LEU:HD23	2.01	0.42
65:SD:132:LYS:HB2	65:SD:189:MET:HB2	2.00	0.42
67:SK:50:GLN:O	67:SK:53:LYS:HG3	2.20	0.42
69:SQ:21:ALA:HB2	69:SQ:72:VAL:HG23	2.02	0.42
73:Sc:18:LEU:HD12	73:Sc:43:ILE:HD12	2.01	0.42
74:Sd:30:LEU:HD12	74:Sd:30:LEU:HA	1.92	0.42
76:SM:49:LEU:HD23	76:SM:49:LEU:HA	1.91	0.42
78:Sf:141:CYS:SG	78:Sf:145:CYS:N	2.92	0.42
79:S2:788:G:H1'	79:S2:789:G:N7	2.35	0.42
79:S2:867:G:H2'	79:S2:868:G:C2	2.55	0.42
79:S2:955:A:N3	79:S2:956:G:H1'	2.34	0.42
79:S2:959:G:H1'	79:S2:964:A:N6	2.35	0.42
79:S2:1631:U:C4	79:S2:1632:G:C6	3.07	0.42
79:S2:1717:C:C2	79:S2:1817:G:N2	2.88	0.42
82:Et:23:A:H2'	82:Et:24:G:H8	1.84	0.42
4:sL:57:ASP:HB2	4:sL:84:ARG:NH2	2.34	0.42
10:sA:31:ASP:OD2	10:sA:31:ASP:C	2.63	0.42
13:sV:38:GLU:OE1	13:sV:49:GLN:OE1	2.38	0.42
15:sC:65:LYS:O	15:sC:69:LEU:HG	2.19	0.42
20:l7:54:A:C4	31:lJ:12:MET:SD	3.13	0.42
20:l7:79:U:O2'	85:l5:1795:A:N3	2.50	0.42
22:lA:5:ILE:HG12	22:lA:8:GLN:HG3	2.00	0.42
24:lC:39:PHE:O	24:lC:43:ASN:ND2	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:lC:240:LEU:HD23	24:lC:240:LEU:HA	1.90	0.42
25:lD:48:LYS:HD2	25:lD:145:TYR:HE2	1.84	0.42
25:lD:223:PHE:N	25:lD:223:PHE:CD1	2.86	0.42
28:lG:29:ASN:ND2	28:lG:31:LEU:HB2	2.30	0.42
28:lG:106:THR:OG1	28:lG:107:LYS:N	2.52	0.42
48:lc:47:ILE:O	48:lc:48:LEU:HD23	2.19	0.42
54:li:3:LEU:HG	54:li:4:ARG:HG2	2.02	0.42
64:sR:96:ILE:O	64:sR:96:ILE:CG2	2.67	0.42
65:sD:17:PHE:CD2	65:sD:77:PHE:CE2	3.07	0.42
66:sF:148:ASN:HD21	79:s2:1677:U:P	2.42	0.42
66:sF:165:ASN:OD1	66:sF:166:ILE:N	2.53	0.42
68:sP:51:ARG:NH2	79:s2:1299:A:O3'	2.47	0.42
68:sP:72:LYS:NZ	68:sP:106:GLU:OE2	2.48	0.42
75:sg:41:ILE:HG22	75:sg:43:TRP:CD1	2.55	0.42
75:sg:110:SER:CB	75:sg:153:CYS:HA	2.49	0.42
75:sg:152:SER:OG	75:sg:153:CYS:N	2.37	0.42
79:s2:464:A:H61	80:cB:49:ALA:H	1.68	0.42
79:s2:936:G:H2'	79:s2:937:C:H6	1.84	0.42
79:s2:966:U:H2'	79:s2:967:C:C6	2.54	0.42
79:s2:1058:A:OP1	82:pE:38:A:H4'	2.20	0.42
79:s2:1337:C:H2'	79:s2:1338:G:C8	2.54	0.42
79:s2:1415:C:H3'	79:s2:1416:C:C6	2.55	0.42
79:s2:1462:U:O2'	79:s2:1463:U:OP1	2.34	0.42
79:s2:1589:A:H2'	79:s2:1590:C:O4'	2.19	0.42
80:cB:103:ILE:HD11	80:cB:413:PHE:HZ	1.85	0.42
80:cB:361:PRO:HA	80:cB:364:ALA:HB3	2.02	0.42
80:cB:838:THR:O	80:cB:842:LYS:HG3	2.19	0.42
84:lt:11:LYS:HD3	84:lt:11:LYS:HA	1.81	0.42
84:lt:139:VAL:HG11	85:l5:1976:G:H21	1.84	0.42
85:l5:138:G:N1	85:l5:139:G:C6	2.87	0.42
85:l5:261:G:H2'	85:l5:262:G:H8	1.79	0.42
85:l5:705:G:H2'	85:l5:706:C:H6	1.85	0.42
85:l5:1590:C:H5"	85:l5:1591:U:O5'	2.20	0.42
85:l5:1666:C:O2'	85:l5:1688:G:OP1	2.29	0.42
85:l5:3871:A:H2'	85:l5:3872:A:C8	2.55	0.42
85:l5:4174:U:H2'	85:l5:4175:G:C8	2.49	0.42
7:SJ:46:VAL:HG11	7:SJ:106:LEU:HG	2.02	0.42
11:SB:62:LEU:HA	11:SB:65:ARG:HD2	2.00	0.42
13:SV:2:GLN:NE2	13:SV:6:GLY:O	2.52	0.42
15:SC:92:GLU:H	15:SC:92:GLU:CD	2.28	0.42
17:SO:98:ARG:HB2	17:SO:132:VAL:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:271:C:C2	85:L5:272:U:C5	3.08	0.42
85:L5:428:G:H2'	85:L5:429:A:C8	2.55	0.42
85:L5:500:G:H21	85:L5:504:G:HO2'	1.66	0.42
85:L5:1092:G:H2'	85:L5:1093:C:H6	1.83	0.42
85:L5:1213:G:OP1	27:LF:59:LYS:NZ	2.51	0.42
85:L5:1244:G:H2'	85:L5:1245:C:C6	2.53	0.42
85:L5:1316:G:P	50:Le:43:ASN:HD22	2.43	0.42
85:L5:1614:C:C2	85:L5:1615:C:C5	3.07	0.42
85:L5:2329:U:C4	85:L5:2330:G:C6	3.08	0.42
85:L5:2443:G:P	85:L5:2516:G:H1	2.42	0.42
85:L5:2578:G:C6	85:L5:2584:G:C6	3.08	0.42
85:L5:2891:U:H2'	85:L5:2892:C:O4'	2.20	0.42
85:L5:3614:G:H2'	85:L5:3617:G:H21	1.84	0.42
85:L5:3722:G:H2'	85:L5:3723:A:C8	2.52	0.42
85:L5:3779:A:C2	85:L5:3780:G:H1'	2.54	0.42
85:L5:3804:G:H2'	85:L5:3805:U:H6	1.85	0.42
85:L5:4052:C:H5'	63:Lz:210:MET:C	2.45	0.42
85:L5:4122:G:C6	85:L5:4123:C:C4	3.07	0.42
85:L5:4210:U:H2'	85:L5:4211:C:O4'	2.19	0.42
85:L5:4293:U:OP2	85:L5:4329:G:O2'	2.29	0.42
85:L5:4767:C:N3	85:L5:4868:G:N1	2.68	0.42
85:L5:4772:C:C2	85:L5:4773:C:C5	3.08	0.42
20:L7:1:G:H5"	25:LD:265:ARG:NH1	2.34	0.42
24:LC:214:ASP:OD1	24:LC:214:ASP:C	2.62	0.42
25:LD:51:MET:HE3	25:LD:51:MET:O	2.19	0.42
28:LG:101:LYS:NZ	28:LG:211:ASP:OD1	2.34	0.42
34:LN:51:LEU:HB3	34:LN:117:ASN:ND2	2.35	0.42
35:LO:197:LYS:HE2	35:LO:197:LYS:HB2	1.87	0.42
37:LQ:123:PHE:HA	37:LQ:126:LEU:HB3	2.00	0.42
54:Li:73:ILE:HG12	54:Li:73:ILE:H	1.66	0.42
56:Lk:54:GLU:OE1	56:Lk:55:LYS:N	2.52	0.42
64:SR:3:ARG:HD2	79:S2:1454:A:OP2	2.20	0.42
66:SF:187:SER:HB3	66:SF:190:ILE:HG12	2.02	0.42
66:SF:195:GLU:HA	66:SF:198:ARG:HG2	2.02	0.42
67:SK:31:LYS:HZ1	67:SK:39:ASN:HA	1.84	0.42
69:SQ:17:LYS:HA	69:SQ:126:ARG:NE	2.34	0.42
69:SQ:30:GLY:N	69:SQ:64:ALA:O	2.52	0.42
75:Sg:19:THR:HG21	75:Sg:67:SER:HA	2.00	0.42
75:Sg:71:ILE:C	75:Sg:113:PHE:HE1	2.28	0.42
75:Sg:89:LEU:HB2	75:Sg:101:PHE:CZ	2.54	0.42
79:S2:89:C:H2'	79:S2:90:G:C8	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:102:A:H4'	79:S2:104:A:N7	2.35	0.42
79:S2:460:A:H1'	79:S2:470:G:N2	2.34	0.42
79:S2:561:A:H2'	79:S2:562:U:O4'	2.19	0.42
79:S2:996:A:H2'	79:S2:997:A:H8	1.85	0.42
79:S2:1005:G:H2'	79:S2:1006:C:C6	2.55	0.42
79:S2:1040:G:C6	79:S2:1076:G:C6	3.08	0.42
79:S2:1468:C:H2'	79:S2:1469:A:C8	2.54	0.42
79:S2:1748:G:C6	79:S2:1787:G:C6	3.07	0.42
87:AT:51:U:H2'	87:AT:52:C:C6	2.54	0.42
82:Et:3:C:H2'	82:Et:4:C:O4'	2.18	0.42
82:Et:33:U:H2'	82:Et:35:U:H5"	2.00	0.42
6:sG:1:MET:HE1	6:sG:106:LEU:HB2	2.02	0.42
8:sY:19:GLN:CD	8:sY:81:TYR:CD1	2.97	0.42
9:se:37:GLN:O	9:se:41:ARG:HG2	2.19	0.42
10:sA:54:THR:HG22	10:sA:162:PRO:HG2	2.01	0.42
12:sH:20:GLU:OE1	12:sH:23:ILE:HD12	2.20	0.42
15:sC:166:ARG:NH1	15:sC:255:LEU:HD11	2.35	0.42
17:sO:31:CYS:HB2	17:sO:93:LEU:HD13	2.01	0.42
18:sW:26:LEU:HD22	18:sW:27:ILE:H	1.85	0.42
19:sb:3:LEU:HD12	19:sb:3:LEU:HA	1.87	0.42
23:lB:175:GLN:HG2	23:lB:177:LYS:H	1.83	0.42
23:lB:238:LYS:HB2	23:lB:238:LYS:HE2	1.86	0.42
23:lB:252:ALA:HB1	85:l5:4524:G:N3	2.35	0.42
26:lE:140:LEU:HD12	26:lE:141:ARG:N	2.35	0.42
27:lF:130:ILE:HD13	27:lF:130:ILE:HA	1.91	0.42
27:lF:144:TYR:HE2	27:lF:237:GLU:HG3	1.84	0.42
32:lL:8:MET:SD	37:lQ:168:ARG:HA	2.60	0.42
33:lM:36:ALA:HB3	33:lM:55:MET:HE1	2.02	0.42
34:lN:14:LYS:NZ	85:l5:280:G:H5"	2.35	0.42
34:lN:123:GLU:HB3	34:lN:128:LYS:HG2	2.02	0.42
34:lN:178:HIS:ND1	85:l5:68:U:OP1	2.48	0.42
34:lN:203:TYR:HB2	85:l5:1359:G:H4'	2.01	0.42
40:lT:150:LEU:HD23	40:lT:151:LEU:N	2.34	0.42
43:lX:80:PRO:HG2	43:lX:155:ILE:HG21	2.02	0.42
50:le:107:ASN:HD22	85:l5:2303:C:P	2.43	0.42
59:ln:16:LYS:NZ	79:s2:1818:A:O3'	2.50	0.42
65:sD:126:ILE:HD12	65:sD:188:ILE:HG12	2.00	0.42
67:sK:26:ASP:OD1	67:sK:26:ASP:C	2.62	0.42
67:sK:49:MET:HA	67:sK:52:LEU:HG	2.02	0.42
68:sP:37:TYR:O	70:sS:88:LYS:NZ	2.51	0.42
69:sQ:112:LEU:HD11	69:sQ:119:LEU:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:sS:46:ARG:HA	70:sS:46:ARG:HD3	1.85	0.42
70:sS:47:LYS:HA	70:sS:47:LYS:HD2	1.75	0.42
75:sg:27:PHE:HE1	75:sg:29:ASP:HB3	1.84	0.42
76:sM:79:VAL:HG22	76:sM:80:ASP:H	1.84	0.42
76:sM:91:LEU:CD1	76:sM:103:VAL:CG1	2.98	0.42
77:sZ:58:LEU:C	77:sZ:62:VAL:HG23	2.44	0.42
79:s2:801:U:C2	79:s2:802:A:C8	3.07	0.42
79:s2:1060:A:H1'	79:s2:1062:A:N7	2.34	0.42
79:s2:1343:U:H2'	79:s2:1344:A:O4'	2.20	0.42
79:s2:1373:C:O2'	79:s2:1374:C:O5'	2.33	0.42
80:cB:183:GLU:OE1	80:cB:183:GLU:HA	2.19	0.42
80:cB:296:PRO:HD2	80:cB:297:ILE:H	1.84	0.42
80:cB:443:TYR:HB3	80:cB:445:LYS:HE2	2.02	0.42
80:cB:479:LEU:HD23	80:cB:479:LEU:HA	1.86	0.42
80:cB:838:THR:HG22	80:cB:842:LYS:HE2	2.02	0.42
85:l5:132:G:H2'	85:l5:133:C:H4'	2.01	0.42
85:l5:407:A:O2'	85:l5:410:A:OP1	2.36	0.42
85:l5:683:C:H2'	85:l5:684:G:O4'	2.20	0.42
85:l5:689:U:H2'	85:l5:690:C:C6	2.55	0.42
85:l5:731:G:C6	85:l5:932:A:C4	3.08	0.42
85:l5:2015:U:H2'	85:l5:2016:C:H6	1.85	0.42
85:l5:2090:U:H4'	85:l5:2091:C:H3'	2.02	0.42
85:l5:2491:C:H2'	85:l5:2492:C:C6	2.55	0.42
85:l5:2638:G:N1	85:l5:2718:U:H2'	2.35	0.42
85:l5:2764:A:H2'	85:l5:2765:A:C8	2.55	0.42
85:l5:2780:C:H2'	85:l5:2781:G:C8	2.53	0.42
85:l5:2864:A:H2'	85:l5:2865:U:C6	2.55	0.42
85:l5:3600:G:H2'	85:l5:3601:C:C6	2.55	0.42
85:l5:4897:G:H21	85:l5:4926:C:N4	2.17	0.42
3:SI:173:ALA:CB	3:SI:189:VAL:HA	2.49	0.42
4:SL:4:ILE:HG21	4:SL:55:TYR:HA	2.01	0.42
4:SL:7:GLU:OE1	79:S2:375:U:O2'	2.26	0.42
5:SX:119:ARG:NH2	79:S2:1192:U:OP1	2.52	0.42
7:SJ:124:HIS:HD2	9:Se:31:ARG:HD2	1.83	0.42
10:SA:71:PRO:O	10:SA:96:ALA:HA	2.20	0.42
10:SA:143:PRO:HB3	13:SV:32:ILE:HD12	2.01	0.42
11:SB:76:ASN:OD1	11:SB:76:ASN:N	2.53	0.42
15:SC:117:ARG:NH2	79:S2:1204:A:OP1	2.45	0.42
17:SO:33:ILE:HG23	17:SO:97:LEU:HA	2.01	0.42
17:SO:147:ARG:NH1	79:S2:1855:G:OP2	2.36	0.42
18:SW:112:ASP:O	18:SW:116:ALA:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:12:A:H4'	43:LX:53:ARG:HG2	2.00	0.42
85:L5:67:C:N4	85:L5:325:U:O2'	2.45	0.42
85:L5:310:G:H5"	54:Li:85:ARG:CZ	2.50	0.42
85:L5:506:C:H2'	85:L5:507:G:H8	1.85	0.42
85:L5:1090:G:N1	85:L5:1207:C:N3	2.67	0.42
85:L5:2299:G:OP2	24:LC:204:ARG:HD2	2.19	0.42
85:L5:2406:G:H4'	57:Ll:48:LYS:HE3	2.02	0.42
85:L5:2695:A:N3	85:L5:2697:A:C8	2.88	0.42
85:L5:2705:G:H2'	85:L5:2706:G:C8	2.55	0.42
85:L5:2743:A:H2'	85:L5:2744:A:C8	2.55	0.42
85:L5:4132:C:H2'	85:L5:4133:C:O4'	2.19	0.42
85:L5:4350:C:C2	85:L5:4351:U:C5	3.08	0.42
85:L5:4361:U:H2'	85:L5:4362:A:H8	1.83	0.42
85:L5:4580:U:H2'	85:L5:4581:G:O4'	2.20	0.42
20:L7:98:G:OP2	39:LS:55:LYS:HD2	2.19	0.42
27:LF:227:PHE:HA	27:LF:231:GLY:O	2.20	0.42
30:LI:87:MET:HE2	30:LI:87:MET:CA	2.49	0.42
36:LP:101:ASN:O	36:LP:105:LYS:HG2	2.20	0.42
40:LT:157:GLU:OE1	40:LT:159:MET:CE	2.68	0.42
44:LY:24:HIS:NE2	44:LY:25:ILE:HG23	2.35	0.42
44:LY:42:TYR:CD2	44:LY:119:LEU:HD12	2.55	0.42
45:LZ:73:LYS:HA	45:LZ:101:PHE:CE1	2.54	0.42
58:Lm:79:GLU:OE1	58:Lm:82:LEU:HG	2.20	0.42
64:SR:45:LYS:HD3	79:S2:1453:C:OP2	2.19	0.42
64:SR:93:GLN:C	64:SR:95:ILE:H	2.27	0.42
67:SK:63:ALA:HB3	67:SK:68:TYR:HE2	1.84	0.42
68:SP:47:ARG:NH2	79:S2:1619:A:OP2	2.47	0.42
70:SS:106:LYS:O	70:SS:109:GLU:HG3	2.20	0.42
71:ST:29:LYS:H	71:ST:29:LYS:HG2	1.62	0.42
75:Sg:59:LEU:HD21	75:Sg:90:TRP:CE2	2.55	0.42
75:Sg:251:ALA:HB1	75:Sg:286:CYS:HB3	2.01	0.42
79:S2:196:C:C2	79:S2:204:G:C6	3.08	0.42
79:S2:570:C:H2'	79:S2:571:U:O4'	2.19	0.42
79:S2:1630:A:H5'	79:S2:1631:U:OP2	2.20	0.42
79:S2:1820:G:H2'	79:S2:1821:U:H6	1.84	0.42
88:CF:63:LEU:HB2	88:CF:66:GLU:HB2	2.02	0.42
88:CF:94:GLY:N	88:CF:102:MET:CE	2.77	0.42
88:CF:178:ILE:H	88:CF:178:ILE:HG13	1.69	0.42
83:Ls:81:HIS:CE1	83:Ls:191:GLN:NE2	2.88	0.42
83:Ls:130:LEU:HB2	83:Ls:152:ILE:HD11	2.02	0.42
83:Ls:192:VAL:CG1	83:Ls:194:ASP:OD1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:sE:16:LYS:N	2:sE:16:LYS:HD3	2.35	0.42
5:sX:73:GLN:OE1	5:sX:80:LYS:HB3	2.20	0.42
6:sG:195:LYS:O	6:sG:199:THR:HG22	2.20	0.42
7:sJ:149:VAL:HG21	7:sJ:154:GLN:HE22	1.85	0.42
7:sJ:159:PHE:CD2	7:sJ:165:TYR:HB2	2.54	0.42
11:sB:89:GLU:OE1	11:sB:99:ASN:OD1	2.38	0.42
12:sH:24:SER:O	12:sH:28:LEU:N	2.51	0.42
18:sW:14:ILE:HD11	18:sW:27:ILE:HD11	2.02	0.42
21:l8:90:C:O2'	44:lY:22:PRO:HB2	2.20	0.42
22:lA:183:GLY:CA	85:l5:1613:A:H5"	2.50	0.42
32:lL:184:MET:CE	85:l5:1479:G:H21	2.27	0.42
33:lM:52:PHE:CD1	33:lM:55:MET:CE	3.02	0.42
42:lV:31:ASN:HD21	42:lV:115:SER:HB2	1.83	0.42
43:lX:40:ILE:HD12	43:lX:40:ILE:HA	1.72	0.42
44:lY:34:LEU:HD11	44:lY:44:VAL:HG23	2.02	0.42
44:lY:127:GLN:OE1	44:lY:127:GLN:HA	2.19	0.42
53:lh:46:LYS:HB3	53:lh:46:LYS:HE3	1.65	0.42
58:lm:106:ARG:NH2	85:l5:4696:C:C4'	2.83	0.42
64:sR:38:ILE:HG22	65:sD:208:VAL:HG21	2.02	0.42
64:sR:56:HIS:HD1	79:s2:1465:A:P	2.43	0.42
66:sF:91:ARG:HD3	66:sF:95:HIS:HE1	1.85	0.42
69:sQ:15:ARG:N	69:sQ:86:GLN:HE21	2.17	0.42
73:sc:29:GLN:HA	73:sc:44:ARG:O	2.20	0.42
75:sg:164:ILE:HD12	75:sg:164:ILE:HA	1.84	0.42
75:sg:217:MET:CG	75:sg:229:THR:HG23	2.50	0.42
77:sZ:84:ALA:O	77:sZ:88:LEU:HD23	2.20	0.42
78:sf:118:ARG:NH1	79:s2:1309:C:OP1	2.53	0.42
79:s2:323:C:H5'	79:s2:324:C:OP1	2.20	0.42
79:s2:635:G:H2'	79:s2:636:C:C6	2.55	0.42
79:s2:696:G:H21	79:s2:737:G:N2	2.18	0.42
79:s2:917:U:H2'	79:s2:918:U:C6	2.55	0.42
79:s2:944:A:H2'	79:s2:945:U:H6	1.85	0.42
79:s2:976:G:H2'	79:s2:977:C:C6	2.55	0.42
79:s2:1291:A:OP2	79:s2:1302:G:O2'	2.28	0.42
79:s2:1370:A:H2	79:s2:1387:G:H1'	1.84	0.42
79:s2:1370:A:N3	79:s2:1386:A:O2'	2.51	0.42
79:s2:1449:G:C2	79:s2:1450:G:H1'	2.55	0.42
79:s2:1518:C:P	79:s2:1519:U:H2'	2.60	0.42
80:cB:66:ARG:HG3	80:cB:68:ILE:HG22	2.01	0.42
80:cB:259:LYS:HB3	80:cB:259:LYS:HE3	1.74	0.42
83:ls:100:ASP:OD1	83:ls:101:MET:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:ls:143:ILE:HG22	83:ls:145:THR:HG23	2.02	0.42
83:ls:154:ILE:H	83:ls:154:ILE:HD12	1.85	0.42
85:l5:753:C:H41	85:l5:910:G:H1	1.68	0.42
85:l5:1170:G:H2'	85:l5:1171:G:C8	2.54	0.42
85:l5:1202:C:H3'	85:l5:1203:G:H4'	2.01	0.42
85:l5:1298:C:C2	85:l5:1299:G:C8	3.07	0.42
85:l5:2732:G:H2'	85:l5:2733:C:C6	2.54	0.42
85:l5:3607:U:H2'	85:l5:3608:A:H8	1.84	0.42
85:l5:3946:G:C4	85:l5:3948:C:N4	2.88	0.42
85:l5:4092:G:C4	85:l5:4093:G:C2	3.08	0.42
85:l5:4113:U:H4'	85:l5:4115:G:C8	2.55	0.42
85:l5:4961:G:H2'	85:l5:4962:C:C6	2.55	0.42
2:SE:181:CYS:HA	2:SE:227:VAL:HA	2.01	0.42
2:SE:259:LYS:HE3	2:SE:259:LYS:HB2	1.93	0.42
3:SI:79:ILE:HD13	85:L5:5027:C:H41	1.85	0.42
8:SY:79:LEU:H	8:SY:79:LEU:HD23	1.85	0.42
10:SA:36:GLN:NE2	10:SA:37:TYR:CE1	2.88	0.42
10:SA:88:LEU:HD12	10:SA:98:PRO:HB2	2.00	0.42
11:SB:152:LYS:HB2	64:SR:132:ARG:O	2.20	0.42
16:SN:4:MET:SD	16:SN:124:ARG:NH1	2.93	0.42
19:Sb:17:ARG:O	79:S2:1128:C:H5'	2.20	0.42
85:L5:299:C:C2	85:L5:300:A:C8	3.07	0.42
85:L5:980:U:H2'	85:L5:981:C:C6	2.54	0.42
85:L5:1341:U:H2'	85:L5:1342:A:H8	1.85	0.42
85:L5:1513:U:H2'	85:L5:1514:U:C6	2.55	0.42
85:L5:1833:G:C2	85:L5:1835:G:C4	3.07	0.42
85:L5:1883:G:O6	85:L5:1896:A:H2	2.02	0.42
85:L5:1918:U:O2'	85:L5:1920:C:OP2	2.38	0.42
85:L5:2521:G:H2'	85:L5:2522:G:H8	1.84	0.42
85:L5:2652:G:N2	61:Lp:58:GLY:O	2.42	0.42
85:L5:2784:C:H2'	85:L5:2785:C:C6	2.48	0.42
85:L5:2861:C:C4	85:L5:2862:G:C5	3.08	0.42
85:L5:3933:G:H2'	85:L5:3934:G:H8	1.85	0.42
85:L5:4055:U:O5'	85:L5:4055:U:H6	2.03	0.42
85:L5:4689:U:H2'	85:L5:4690:G:O4'	2.20	0.42
85:L5:4741:C:H4'	85:L5:4742:G:H5'	2.02	0.42
85:L5:4995:U:H2'	85:L5:4996:C:C6	2.55	0.42
22:LA:219:ILE:H	22:LA:219:ILE:HG12	1.68	0.42
24:LC:115:VAL:HG23	24:LC:120:LYS:HG2	2.02	0.42
26:LE:43:HIS:CE1	26:LE:46:ARG:HD3	2.55	0.42
26:LE:131:LYS:HE2	26:LE:131:LYS:HB2	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:LF:71:MET:SD	27:LF:82:TYR:CD1	3.13	0.42
30:LI:188:LYS:NZ	30:LI:213:HIS:HA	2.34	0.42
31:LJ:167:GLN:HE22	31:LJ:173:ILE:HA	1.84	0.42
32:LL:205:GLN:N	32:LL:205:GLN:CD	2.77	0.42
33:LM:108:ASP:HA	33:LM:111:LYS:HE2	2.01	0.42
36:LP:137:ASN:HD22	36:LP:137:ASN:HA	1.59	0.42
37:LQ:151:HIS:ND1	37:LQ:164:LYS:HB3	2.35	0.42
38:LR:177:LEU:O	38:LR:181:LYS:N	2.52	0.42
39:LS:59:GLY:C	39:LS:60:GLU:OE2	2.62	0.42
39:LS:110:TYR:CZ	39:LS:126:ILE:HD11	2.55	0.42
40:LT:45:MET:HG2	40:LT:47:THR:H	1.85	0.42
42:LV:18:LEU:HD13	42:LV:54:ALA:HB3	2.01	0.42
42:LV:87:SER:HB3	42:LV:97:TYR:HD1	1.84	0.42
42:LV:87:SER:HA	42:LV:97:TYR:HB3	2.02	0.42
57:Ll:12:PHE:CD2	57:Ll:51:LEU:HD12	2.55	0.42
65:SD:7:LYS:NZ	65:SD:10:LYS:CE	2.80	0.42
67:SK:1:MET:H3	79:S2:1315:U:P	2.42	0.42
67:SK:30:PRO:O	67:SK:31:LYS:HD2	2.20	0.42
71:ST:13:GLU:O	71:ST:16:ARG:HG2	2.19	0.42
71:ST:39:LEU:HD12	71:ST:39:LEU:HA	1.81	0.42
72:SU:25:THR:OG1	72:SU:85:HIS:O	2.36	0.42
72:SU:74:SER:H	79:S2:1338:G:H4'	1.85	0.42
75:Sg:42:MET:CE	75:Sg:43:TRP:C	2.92	0.42
75:Sg:149:GLU:HG2	75:Sg:171:ASP:OD1	2.19	0.42
75:Sg:218:LEU:CD2	75:Sg:228:TYR:CE2	3.03	0.42
76:SM:69:CYS:SG	76:SM:70:ALA:N	2.93	0.42
77:SZ:47:LEU:HD23	77:SZ:79:ILE:HD13	2.00	0.42
79:S2:804:U:O2	79:S2:860:G:C2	2.73	0.42
79:S2:815:U:H2'	79:S2:816:A:H8	1.84	0.42
79:S2:1204:A:C6	79:S2:1693:G:N1	2.86	0.42
79:S2:1284:A:P	79:S2:1285:G:HO2'	2.43	0.42
79:S2:1755:C:N3	79:S2:1778:C:N4	2.68	0.42
79:S2:1794:C:C2	79:S2:1795:G:C8	3.08	0.42
82:Et:2:C:H2'	82:Et:3:C:H6	1.82	0.42
82:Et:22:G:C2	82:Et:23:A:C5	3.08	0.42
89:Pt:12:G:H2'	89:Pt:13:U:O4'	2.20	0.42
84:Lt:34:PRO:HA	84:Lt:37:LEU:HD12	2.01	0.42
63:Lz:195:LYS:O	63:Lz:195:LYS:NZ	2.29	0.42
83:Ls:187:LEU:HD23	83:Ls:187:LEU:HA	1.88	0.42
1:cH:44:TRP:CD1	9:se:53:LYS:H	2.37	0.42
2:sE:107:GLY:HA2	2:sE:189:LEU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:sI:26:LYS:HG2	79:s2:448:A:C4	2.54	0.42
3:sI:26:LYS:HD2	3:sI:29:LEU:HD22	2.00	0.42
11:sB:184:VAL:O	11:sB:188:LEU:HB2	2.20	0.42
12:sH:31:GLU:HG3	12:sH:37:LYS:HD2	2.02	0.42
14:sa:88:SER:O	14:sa:92:ARG:HB2	2.20	0.42
15:sC:169:TYR:CB	15:sC:173:LYS:HG2	2.50	0.42
15:sC:263:LYS:HB3	15:sC:268:GLU:OE1	2.20	0.42
16:sN:50:ILE:HB	16:sN:71:ILE:HD11	2.01	0.42
27:lF:220:MET:C	27:lF:222:LYS:H	2.28	0.42
28:lG:38:ASN:HD21	28:lG:43:GLN:NE2	2.18	0.42
31:lJ:27:GLY:HA3	85:l5:4257:A:C2	2.54	0.42
36:lP:96:LYS:HB2	36:lP:96:LYS:HE3	1.89	0.42
39:lS:81:TRP:O	39:lS:127:MET:HG2	2.20	0.42
41:lU:81:ARG:NH2	85:l5:2622:G:N7	2.68	0.42
52:lg:82:MET:HE2	52:lg:82:MET:HB2	1.85	0.42
54:li:33:LEU:HD11	54:li:38:LYS:CA	2.50	0.42
55:lj:6:SER:HB3	85:l5:2799:G:O2'	2.19	0.42
56:lk:27:LYS:HB3	56:lk:27:LYS:HE3	1.81	0.42
57:ll:28:ARG:HE	57:ll:28:ARG:HB3	1.75	0.42
64:sR:5:ARG:HB2	79:s2:1367:U:H2'	2.01	0.42
64:sR:13:ALA:HB1	64:sR:54:VAL:HG12	2.01	0.42
64:sR:49:LYS:HD3	79:s2:1467:C:P	2.60	0.42
65:sD:20:GLU:OE1	65:sD:76:ARG:NH2	2.52	0.42
65:sD:58:VAL:O	65:sD:65:ARG:HB3	2.20	0.42
65:sD:194:PRO:HB2	65:sD:197:LYS:CB	2.49	0.42
66:sF:82:ASN:OD1	66:sF:82:ASN:N	2.53	0.42
68:sP:100:LYS:HG2	68:sP:101:THR:HG23	2.01	0.42
69:sQ:17:LYS:HA	69:sQ:126:ARG:CZ	2.50	0.42
69:sQ:25:CYS:SG	69:sQ:68:ILE:HG13	2.60	0.42
71:sT:18:LEU:HB2	71:sT:134:ILE:HG12	2.02	0.42
76:sM:32:ALA:HB3	76:sM:110:VAL:HG12	2.01	0.42
79:s2:735:C:H5"	79:s2:736:C:C2	2.55	0.42
80:cB:119:LEU:HD23	80:cB:119:LEU:HA	1.80	0.42
80:cB:331:GLU:HA	80:cB:335:LEU:HD22	2.01	0.42
81:aP:30:G:H2'	81:aP:31:C:H6	1.84	0.42
83:ls:9:TRP:HZ2	85:l5:1998:A:H4'	1.84	0.42
83:ls:38:LYS:HZ1	85:l5:1971:C:H4'	1.81	0.42
85:l5:286:U:H2'	85:l5:287:U:H6	1.84	0.42
85:l5:426:A:H2'	85:l5:427:A:H8	1.84	0.42
85:l5:1262:G:H2'	85:l5:1263:A:H8	1.85	0.42
85:l5:1275:G:H2'	85:l5:1276:C:H6	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:1755:C:H42	85:l5:1776:A:H61	1.68	0.42
85:l5:1867:A:H2'	85:l5:1868:A:C8	2.55	0.42
85:l5:2083:C:H5"	85:l5:2084:C:OP2	2.20	0.42
85:l5:2870:A:H2'	85:l5:2871:A:C8	2.55	0.42
85:l5:3952:A:H8	85:l5:3952:A:O5'	2.02	0.42
85:l5:4348:A:H61	85:l5:4364:G:H1	1.68	0.42
85:l5:4420:U:H3'	85:l5:4421:C:C5	2.55	0.42
85:l5:4629:U:H2'	85:l5:4630:G:H8	1.85	0.42
6:SG:154:ARG:HG3	79:S2:77:A:C8	2.55	0.42
8:SY:37:LYS:HG2	8:SY:60:PHE:CE2	2.54	0.42
11:SB:137:LEU:HB2	11:SB:172:MET:HE3	2.02	0.42
11:SB:205:TYR:HA	11:SB:206:PRO:HD3	1.91	0.42
12:SH:14:GLU:HG2	12:SH:15:LYS:H	1.84	0.42
15:SC:104:ASP:OD1	15:SC:105:GLU:N	2.52	0.42
16:SN:12:SER:HB3	79:S2:1013:U:OP2	2.20	0.42
18:SW:93:LEU:HD23	18:SW:102:ILE:CD1	2.50	0.42
19:Sb:14:GLU:O	19:Sb:17:ARG:N	2.53	0.42
19:Sb:33:MET:HE1	19:Sb:47:PHE:O	2.19	0.42
85:L5:32:G:OP1	34:LN:73:ARG:NH1	2.52	0.42
85:L5:136:C:H5"	53:Lh:96:ASN:HD22	1.84	0.42
85:L5:302:C:OP1	34:LN:68:ARG:NE	2.40	0.42
85:L5:458:C:OP1	62:Lr:87:ARG:NH2	2.52	0.42
85:L5:1296:G:O2'	85:L5:1297:U:O5'	2.38	0.42
85:L5:1515:A:H2'	85:L5:1516:G:O4'	2.20	0.42
85:L5:1784:U:OP1	30:LI:90:ARG:NH2	2.49	0.42
85:L5:2460:A:OP1	85:L5:2460:A:H8	2.02	0.42
85:L5:2674:A:N6	61:Lp:41:PHE:O	2.53	0.42
85:L5:3605:C:H2'	85:L5:3606:U:H6	1.85	0.42
85:L5:3609:G:H2'	85:L5:3610:A:C8	2.53	0.42
85:L5:3874:G:H2'	85:L5:3875:G:C8	2.54	0.42
85:L5:4261:C:H2'	85:L5:4262:C:H6	1.84	0.42
85:L5:4661:G:H2'	85:L5:4662:C:H6	1.85	0.42
85:L5:5056:A:H2'	85:L5:5057:C:C6	2.55	0.42
20:L7:47:G:N2	25:LD:222:GLN:OE1	2.50	0.42
25:LD:234:ASP:C	25:LD:236:MET:H	2.27	0.42
27:LF:26:ALA:HA	27:LF:29:LYS:HE3	2.02	0.42
27:LF:96:ARG:HD2	27:LF:138:PRO:O	2.19	0.42
28:LG:38:ASN:ND2	28:LG:43:GLN:HG2	2.34	0.42
28:LG:117:ARG:NH2	28:LG:121:LYS:HD3	2.34	0.42
28:LG:234:ARG:NE	28:LG:235:ARG:HH12	2.17	0.42
30:LI:79:SER:OG	30:LI:80:CYS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:LM:130:LEU:HD21	35:LO:177:LEU:HG	2.02	0.42
36:LP:37:LYS:HB2	36:LP:117:ILE:HG22	2.02	0.42
37:LQ:16:LYS:HZ3	37:LQ:16:LYS:HG3	1.70	0.42
49:Ld:54:MET:HE1	49:Ld:60:PRO:N	2.34	0.42
52:Lg:102:ILE:HA	52:Lg:102:ILE:HD13	1.90	0.42
59:Ln:6:ARG:HH12	79:S2:1171:G:P	2.43	0.42
62:Lr:83:ASN:O	62:Lr:83:ASN:ND2	2.49	0.42
65:SD:7:LYS:HD2	65:SD:7:LYS:HA	1.89	0.42
65:SD:158:ILE:HD12	65:SD:158:ILE:O	2.19	0.42
66:SF:20:PHE:CD1	66:SF:94:LYS:HE2	2.55	0.42
66:SF:97:PHE:HZ	66:SF:109:LEU:HG	1.85	0.42
69:SQ:126:ARG:HA	69:SQ:126:ARG:HD2	1.82	0.42
70:SS:9:PHE:CE1	77:SZ:48:VAL:HG11	2.55	0.42
70:SS:59:LEU:CD1	70:SS:63:GLU:HB2	2.49	0.42
70:SS:70:ILE:HD11	70:SS:79:ILE:HD11	2.00	0.42
79:S2:66:G:OP1	79:S2:82:G:N2	2.48	0.42
79:S2:218:U:H2'	79:S2:219:U:C6	2.54	0.42
79:S2:428:U:P	79:S2:429:C:H41	2.42	0.42
79:S2:518:G:H2'	79:S2:519:A:H8	1.85	0.42
79:S2:525:A:H2'	79:S2:526:A:C8	2.55	0.42
79:S2:832:G:H2'	79:S2:833:C:C6	2.55	0.42
79:S2:845:G:H2'	79:S2:846:G:O4'	2.20	0.42
79:S2:912:C:H5"	79:S2:913:A:C5'	2.49	0.42
79:S2:1281:G:N1	79:S2:1317:C:N3	2.68	0.42
79:S2:1368:U:C2	79:S2:1372:U:C4	3.07	0.42
79:S2:1545:A:N3	79:S2:1671:G:O2'	2.32	0.42
79:S2:1657:G:H2'	79:S2:1658:G:C8	2.55	0.42
87:AT:5:C:H2'	87:AT:6:C:C6	2.55	0.42
87:AT:32:C:N3	87:AT:33:C:N4	2.68	0.42
88:CF:263:PRO:HB2	88:CF:310:PHE:CZ	2.55	0.42
88:CF:344:VAL:HG12	88:CF:424:PHE:HZ	1.84	0.42
89:Pt:24:A:H2'	89:Pt:25:C:H6	1.83	0.42
89:Pt:71:A:H2'	89:Pt:72:C:H6	1.85	0.42
84:Lt:35:LEU:HD23	84:Lt:35:LEU:HA	1.93	0.42
83:Ls:162:LYS:HD3	83:Ls:162:LYS:H	1.85	0.42
2:sE:60:GLU:OE1	8:sY:20:ARG:NH2	2.53	0.42
2:sE:206:ASP:HB2	2:sE:222:LEU:HB2	2.02	0.42
4:sL:52:GLU:OE2	4:sL:52:GLU:HA	2.18	0.42
8:sY:37:LYS:HG2	8:sY:60:PHE:CE2	2.54	0.42
8:sY:88:LYS:HB2	8:sY:97:TYR:CE2	2.55	0.42
10:sA:184:ARG:HD3	10:sA:191:ARG:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:sB:189:ILE:HB	11:sB:190:PRO:HD3	2.01	0.42
13:sV:9:VAL:HG12	13:sV:9:VAL:O	2.19	0.42
15:sC:204:ILE:HD12	15:sC:204:ILE:HA	1.83	0.42
18:sW:90:GLN:HE22	18:sW:113:HIS:CG	2.37	0.42
19:sb:17:ARG:NH1	79:s2:1127:C:O3'	2.53	0.42
21:l8:6:C:H2'	21:l8:7:U:C6	2.55	0.42
22:lA:132:ASN:O	22:lA:169:VAL:HG12	2.20	0.42
22:lA:199:VAL:HG21	85:l5:1631:A:N7	2.34	0.42
24:lC:209:ILE:HG22	24:lC:229:LEU:HD13	2.01	0.42
24:lC:353:LYS:HA	24:lC:356:ALA:HB3	2.01	0.42
27:lF:32:ARG:NH2	85:l5:1701:A:N1	2.67	0.42
38:lR:177:LEU:HG	38:lR:181:LYS:HZ1	1.84	0.42
39:lS:161:ARG:HD3	85:l5:1921:C:C6	2.55	0.42
41:lU:19:LEU:HB2	41:lU:73:THR:OG1	2.20	0.42
45:lZ:46:ILE:HD11	45:lZ:68:ILE:CG1	2.46	0.42
53:lh:88:THR:HB	53:lh:91:MET:HG2	2.01	0.42
64:sR:14:ARG:NH1	64:sR:14:ARG:H	2.18	0.42
65:sD:7:LYS:HE2	65:sD:7:LYS:HB3	1.97	0.42
65:sD:109:LEU:HD23	65:sD:109:LEU:HA	1.91	0.42
66:sF:77:MET:CE	66:sF:86:LYS:HB2	2.47	0.42
68:sP:126:VAL:HG12	79:s2:1238:U:O2'	2.19	0.42
71:sT:133:ARG:H	71:sT:133:ARG:HG2	1.66	0.42
74:sd:8:TRP:CZ3	74:sd:12:ARG:CZ	3.03	0.42
75:sg:218:LEU:C	75:sg:219:TRP:HD1	2.28	0.42
76:sM:33:ARG:O	79:s2:1284:A:H1'	2.20	0.42
76:sM:91:LEU:HD21	76:sM:105:GLY:HA2	2.02	0.42
77:sZ:58:LEU:HA	77:sZ:62:VAL:HG23	2.02	0.42
79:s2:185:G:O6	79:s2:214:U:C4	2.73	0.42
79:s2:818:A:H2'	79:s2:819:G:C8	2.55	0.42
79:s2:900:C:H3'	79:s2:901:G:C8	2.55	0.42
80:cB:8:GLN:O	80:cB:12:ILE:HD12	2.20	0.42
80:cB:764:ASN:OD1	85:l5:1982:G:N2	2.52	0.42
80:cB:769:HIS:ND1	85:l5:1981:G:O2'	2.51	0.42
83:ls:47:LEU:O	83:ls:51:ALA:N	2.37	0.42
83:ls:173:THR:O	83:ls:177:MET:HG2	2.20	0.42
84:lt:15:LEU:HB3	84:lt:62:LEU:HD12	2.02	0.42
84:lt:81:ILE:O	84:lt:85:LEU:HG	2.20	0.42
85:l5:92:C:OP2	85:l5:4341:C:O2'	2.31	0.42
85:l5:120:A:H2'	85:l5:149:A:N6	2.35	0.42
85:l5:179:G:H2'	85:l5:180:C:C6	2.55	0.42
85:l5:996:G:N2	85:l5:1048:G:OP1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:1812:C:H2’	85:l5:1813:U:C6	2.55	0.42
85:l5:1858:A:H2’	85:l5:1859:C:H6	1.85	0.42
85:l5:1882:U:C4	85:l5:2279:A:C2	3.08	0.42
85:l5:2858:A:H2’	85:l5:2859:G:H8	1.84	0.42
85:l5:3733:A:H2’	85:l5:3734:U:O4’	2.20	0.42
85:l5:4219:A:H2’	85:l5:4220:A:C8	2.55	0.42
85:l5:4458:C:H2’	85:l5:4459:U:H6	1.84	0.42
85:l5:4562:C:H2’	85:l5:4563:U:C6	2.55	0.42
85:l5:5008:C:H2’	85:l5:5009:G:O4’	2.20	0.42
2:SE:80:ILE:HG13	2:SE:81:THR:N	2.35	0.42
7:SJ:2:PRO:HD2	79:S2:428:U:O3’	2.19	0.42
10:SA:32:PHE:CG	79:S2:1097:G:H4’	2.54	0.42
12:SH:40:LEU:HA	12:SH:43:LEU:HB2	2.00	0.42
15:SC:146:GLU:N	15:SC:146:GLU:OE1	2.52	0.42
85:L5:31:U:H2’	85:L5:32:G:O4’	2.19	0.42
85:L5:282:C:H1’	85:L5:306:A:N6	2.35	0.42
85:L5:468:U:C2	85:L5:686:A:N1	2.88	0.42
85:L5:1385:G:H2’	85:L5:1386:C:C6	2.54	0.42
85:L5:1388:A:C6	85:L5:1396:G:C2	3.08	0.42
85:L5:1472:C:C2	85:L5:1473:U:C5	3.08	0.42
85:L5:1490:G:H2’	85:L5:1491:A:H8	1.84	0.42
85:L5:1641:G:C4	85:L5:4386:C:C2	3.08	0.42
85:L5:1817:U:H4’	25:LD:43:LYS:HE2	2.01	0.42
85:L5:2509:C:H2’	85:L5:2510:G:C8	2.54	0.42
85:L5:2509:C:H5’	21:L8:108:A:H4’	2.02	0.42
85:L5:2698:G:H2’	85:L5:2699:C:H6	1.85	0.42
85:L5:2778:G:N1	21:L8:113:C:OP1	2.53	0.42
85:L5:2793:G:C2	85:L5:2797:C:C2	3.08	0.42
85:L5:2876:G:OP1	61:Lp:5:THR:OG1	2.38	0.42
85:L5:3632:C:H2’	85:L5:3633:C:C6	2.55	0.42
85:L5:3895:G:H2’	85:L5:3896:C:C6	2.55	0.42
85:L5:4171:C:C2	85:L5:4172:A:C8	3.08	0.42
85:L5:4670:C:O2’	42:LV:15:ARG:NH2	2.53	0.42
85:L5:4740:G:C5	85:L5:4742:G:C8	3.07	0.42
22:LA:45:VAL:HG23	22:LA:84:THR:HA	2.01	0.42
25:LD:282:GLN:O	25:LD:286:SER:OG	2.34	0.42
26:LE:247:LYS:HG3	26:LE:247:LYS:H	1.64	0.42
26:LE:283:PRO:HB2	51:Lf:41:PHE:CZ	2.55	0.42
28:LG:78:PRO:HD3	28:LG:237:TRP:CD2	2.55	0.42
30:LI:91:LEU:HD11	30:LI:135:ILE:HA	2.02	0.42
30:LI:101:LYS:HD2	30:LI:102:MET:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:LI:191:ILE:HD12	30:LI:191:ILE:HA	1.82	0.42
39:LS:19:THR:C	39:LS:21:LYS:H	2.27	0.42
40:LT:110:LYS:HD2	40:LT:110:LYS:HA	1.85	0.42
41:LU:22:THR:HG22	41:LU:109:SER:HA	2.01	0.42
41:LU:28:PRO:HA	41:LU:33:ILE:HD11	2.02	0.42
50:Le:23:HIS:CE1	50:Le:24:GLN:HG3	2.55	0.42
53:Lh:122:LYS:HG2	53:Lh:122:LYS:H	1.65	0.42
66:SF:132:GLY:O	82:Et:39:U:H1'	2.20	0.42
67:SK:49:MET:CG	67:SK:69:TRP:NE1	2.82	0.42
68:SP:42:ARG:NH2	79:S2:1614:A:OP2	2.46	0.42
68:SP:50:ARG:H	68:SP:53:GLN:NE2	2.18	0.42
68:SP:124:LYS:H	68:SP:124:LYS:HG2	1.74	0.42
70:SS:44:VAL:CG2	70:SS:71:MET:HG2	2.37	0.42
70:SS:137:LYS:HE3	79:S2:1236:G:O6	2.20	0.42
76:SM:25:ALA:O	76:SM:29:ASP:HB3	2.20	0.42
76:SM:52:LEU:HD11	76:SM:65:VAL:HG21	2.01	0.42
79:S2:947:G:H2'	79:S2:948:C:H6	1.84	0.42
79:S2:1054:G:C6	79:S2:1065:G:C6	3.08	0.42
79:S2:1224:G:C4	79:S2:1225:U:C5	3.08	0.42
79:S2:1420:G:O2'	79:S2:1421:A:O5'	2.36	0.42
79:S2:1534:C:H4'	79:S2:1535:U:H5'	2.01	0.42
79:S2:1778:C:H3'	79:S2:1779:G:C8	2.54	0.42
79:S2:1797:U:H2'	79:S2:1798:C:H6	1.80	0.42
79:S2:1839:U:H2'	79:S2:1840:U:C6	2.55	0.42
82:Et:71:G:H2'	82:Et:72:C:O4'	2.20	0.42
88:CF:347:LEU:C	88:CF:396:SER:HG	2.26	0.42
84:Lt:107:ASP:OD1	84:Lt:143:VAL:HB	2.20	0.42
3:sI:3:ILE:O	3:sI:30:GLY:N	2.48	0.41
7:sJ:143:ASN:OD1	8:sY:64:PHE:HE2	2.03	0.41
11:sB:140:VAL:CG1	11:sB:213:ARG:HD3	2.49	0.41
11:sB:169:MET:HE2	11:sB:169:MET:HB3	1.94	0.41
15:sC:188:CYS:SG	79:s2:1356:G:N2	2.91	0.41
22:lA:158:ILE:HD13	22:lA:158:ILE:HA	1.87	0.41
24:lC:140:LYS:HZ1	24:lC:242:PRO:HD2	1.85	0.41
24:lC:315:LYS:HD2	27:lF:168:ALA:HB1	2.02	0.41
25:lD:43:LYS:O	85:l5:1823:G:O2'	2.38	0.41
25:lD:205:ALA:HB2	25:lD:236:MET:SD	2.60	0.41
25:lD:241:LYS:O	25:lD:245:ALA:N	2.42	0.41
26:lE:47:ASN:HB2	26:lE:62:MET:HE3	2.02	0.41
27:lF:136:VAL:HG22	27:lF:140:ILE:HG23	2.01	0.41
28:lG:73:ARG:HD3	28:lG:73:ARG:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:lI:194:GLY:HA2	85:l5:1751:A:H5'	2.02	0.41
36:lP:97:ASN:O	36:lP:101:ASN:HB2	2.20	0.41
36:lP:126:ARG:HA	36:lP:140:MET:SD	2.60	0.41
37:lQ:35:LEU:HB3	37:lQ:44:ASN:OD1	2.20	0.41
38:lR:119:MET:HA	38:lR:122:SER:OG	2.20	0.41
38:lR:173:ARG:O	38:lR:176:ARG:HG3	2.19	0.41
40:lT:44:GLY:HA2	40:lT:95:HIS:HB3	2.02	0.41
41:lU:76:VAL:HG23	41:lU:78:PHE:N	2.35	0.41
44:lY:1:MET:HE3	44:lY:2:LYS:H	1.84	0.41
44:lY:100:HIS:CD2	85:l5:231:U:H4'	2.54	0.41
45:lZ:93:LYS:HD3	45:lZ:93:LYS:N	2.35	0.41
45:lZ:97:ASN:O	45:lZ:100:VAL:HG12	2.20	0.41
46:la:79:TRP:CE3	46:la:87:ARG:HG2	2.55	0.41
54:li:45:ARG:HD2	54:li:50:PHE:CZ	2.54	0.41
54:li:58:MET:H	54:li:58:MET:HG2	1.67	0.41
62:lr:16:PHE:HB3	62:lr:27:THR:H	1.85	0.41
64:sR:25:GLY:HA3	64:sR:27:ASP:OD2	2.19	0.41
66:sF:50:PRO:O	66:sF:73:THR:HG21	2.20	0.41
66:sF:60:ARG:HD2	79:s2:1679:A:H2'	2.01	0.41
66:sF:152:TRP:CE3	66:sF:153:LEU:HD12	2.55	0.41
68:sP:27:ASP:OD1	68:sP:27:ASP:N	2.39	0.41
69:sQ:125:ARG:HG3	79:s2:1648:G:H5"	2.02	0.41
71:sT:64:LEU:HD23	71:sT:121:ARG:O	2.20	0.41
75:sg:201:SER:OG	75:sg:203:ASP:OD1	2.38	0.41
79:s2:126:G:C4	79:s2:181:A:H1'	2.55	0.41
79:s2:556:U:C6	79:s2:557:U:H4'	2.55	0.41
79:s2:809:A:H2'	79:s2:810:A:O4'	2.20	0.41
79:s2:1005:G:H2'	79:s2:1006:C:C6	2.55	0.41
79:s2:1310:U:C2	79:s2:1311:C:C5	3.07	0.41
79:s2:1608:U:H2'	79:s2:1609:C:O4'	2.19	0.41
79:s2:1616:U:H2'	79:s2:1617:G:O4'	2.20	0.41
79:s2:1839:U:H2'	79:s2:1840:U:C6	2.55	0.41
80:cB:156:MET:HE1	80:cB:214:PHE:C	2.45	0.41
80:cB:751:CYS:SG	80:cB:755:VAL:HG13	2.60	0.41
83:ls:77:LYS:N	83:ls:77:LYS:CD	2.74	0.41
85:l5:269:G:H2'	85:l5:270:U:C6	2.55	0.41
85:l5:1241:C:C4	85:l5:1242:G:C8	3.08	0.41
85:l5:2008:U:H1'	85:l5:2011:C:H5	1.85	0.41
85:l5:2413:U:C2	85:l5:2414:G:C8	3.08	0.41
85:l5:3967:G:N1	85:l5:4055:U:N3	2.25	0.41
85:l5:4195:G:O2'	85:l5:4442:U:OP1	2.15	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4244:A:H2'	85:l5:4245:G:O4'	2.21	0.41
85:l5:4500:U:H2'	85:l5:4501:U:C6	2.55	0.41
85:l5:4651:A:H2'	85:l5:4652:G:O4'	2.20	0.41
85:l5:4959:U:H2'	85:l5:4960:G:C8	2.55	0.41
3:SI:66:SER:HA	3:SI:73:THR:HG22	2.01	0.41
8:SY:23:MET:HE3	8:SY:23:MET:N	2.35	0.41
8:SY:29:HIS:HB2	8:SY:32:LYS:HG3	2.02	0.41
10:SA:42:LYS:CE	10:SA:43:SER:H	2.33	0.41
11:SB:103:MET:SD	11:SB:215:VAL:HG23	2.60	0.41
11:SB:118:GLN:O	79:S2:988:C:O2'	2.30	0.41
11:SB:150:ILE:HD12	79:S2:1124:C:O3'	2.19	0.41
12:SH:60:ILE:HG21	12:SH:83:LEU:HD21	2.02	0.41
15:SC:193:VAL:HG11	15:SC:240:THR:HB	2.01	0.41
16:SN:107:LYS:NZ	79:S2:1075:C:H5"	2.35	0.41
16:SN:130:LYS:NZ	16:SN:139:TRP:O	2.47	0.41
18:SW:28:ARG:HD2	79:S2:921:G:C6	2.54	0.41
18:SW:51:GLU:OE2	18:SW:52:ILE:N	2.53	0.41
85:L5:111:C:O2'	34:LN:147:ASP:OD2	2.37	0.41
85:L5:189:G:C2	85:L5:253:G:N1	2.89	0.41
85:L5:952:G:H2'	85:L5:953:C:H6	1.83	0.41
85:L5:1089:G:H2'	85:L5:1090:G:H8	1.85	0.41
85:L5:1314:C:C4	85:L5:3865:A:C5	3.08	0.41
85:L5:1323:A:H2'	85:L5:1324:A:O4'	2.20	0.41
85:L5:1973:G:H2'	85:L5:1974:U:C6	2.55	0.41
85:L5:2639:U:O2'	85:L5:2694:G:O6	2.38	0.41
85:L5:3650:C:H2'	85:L5:3651:A:C8	2.55	0.41
85:L5:3667:C:P	22:LA:234:LYS:HD2	2.60	0.41
85:L5:3856:A:H5"	36:LP:83:TRP:O	2.20	0.41
85:L5:3909:C:C4	85:L5:3910:C:C5	3.08	0.41
85:L5:4104:G:H3'	85:L5:4105:A:C8	2.54	0.41
85:L5:4284:C:C2	85:L5:4285:U:C5	3.08	0.41
85:L5:4371:G:O2'	85:L5:4372:U:OP2	2.34	0.41
85:L5:4621:C:H2'	85:L5:4622:A:H8	1.84	0.41
22:LA:83:HIS:CE1	22:LA:86:GLN:HB2	2.55	0.41
23:LB:50:LYS:HB2	23:LB:345:LEU:HD11	2.02	0.41
23:LB:238:LYS:HB2	23:LB:238:LYS:HE2	1.77	0.41
24:LC:190:ARG:HG2	24:LC:191:ALA:H	1.84	0.41
24:LC:281:MET:HG2	37:LQ:110:ARG:NH2	2.35	0.41
25:LD:208:MET:HB2	25:LD:233:PRO:HB3	2.02	0.41
25:LD:215:ASP:OD1	25:LD:218:ALA:N	2.44	0.41
27:LF:40:LYS:HA	27:LF:43:ARG:HH21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:LG:60:TYR:O	28:LG:64:GLN:HG3	2.20	0.41
28:LG:240:ASN:HD22	28:LG:240:ASN:C	2.25	0.41
30:LI:16:PRO:HG3	30:LI:128:ARG:CZ	2.50	0.41
31:LJ:18:ARG:HB2	31:LJ:133:VAL:HG13	2.01	0.41
33:LM:43:THR:O	33:LM:43:THR:OG1	2.35	0.41
33:LM:107:PHE:O	33:LM:111:LYS:HG3	2.20	0.41
38:LR:7:GLN:HG2	38:LR:32:ILE:HG22	2.02	0.41
38:LR:181:LYS:HA	38:LR:181:LYS:HD3	1.76	0.41
43:LX:105:ASN:O	43:LX:109:ILE:HD12	2.20	0.41
45:LZ:121:ARG:NE	45:LZ:121:ARG:HA	2.34	0.41
48:Lc:37:MET:HA	48:Lc:37:MET:HE2	2.02	0.41
51:Lf:5:LEU:HD23	51:Lf:5:LEU:HA	1.76	0.41
51:Lf:8:LYS:HE2	51:Lf:8:LYS:HB3	1.69	0.41
56:Lk:7:GLU:CD	56:Lk:10:ASP:H	2.23	0.41
61:Lp:56:HIS:HE2	61:Lp:61:MET:CE	2.33	0.41
62:Lr:54:ALA:HA	62:Lr:61:VAL:HG23	2.01	0.41
64:SR:39:ALA:HB2	65:SD:210:ILE:HG13	2.02	0.41
66:SF:130:ARG:N	66:SF:136:ARG:HE	2.18	0.41
68:SP:37:TYR:CE1	68:SP:113:GLY:HA2	2.52	0.41
68:SP:100:LYS:HG3	79:S2:1268:C:H4'	2.02	0.41
70:SS:39:ARG:HD3	79:S2:1629:C:OP1	2.20	0.41
75:Sg:41:ILE:HB	75:Sg:43:TRP:HE1	1.85	0.41
76:SM:50:CYS:SG	76:SM:51:VAL:N	2.93	0.41
79:S2:115:U:H2'	79:S2:116:U:C6	2.55	0.41
79:S2:386:C:H2'	79:S2:387:C:H6	1.85	0.41
79:S2:958:G:C6	79:S2:959:G:C6	3.08	0.41
79:S2:1310:U:C2	79:S2:1311:C:C5	3.08	0.41
87:AT:77:A:N3	88:CF:262:VAL:HG11	2.35	0.41
84:Lt:126:SER:O	84:Lt:130:LYS:HG3	2.20	0.41
2:sE:67:GLN:HB3	2:sE:69:PHE:CE1	2.55	0.41
2:sE:224:ASN:OD1	2:sE:224:ASN:N	2.52	0.41
4:sL:71:ARG:NH1	79:s2:855:G:O2'	2.53	0.41
5:sX:17:ARG:O	5:sX:21:LYS:HB2	2.20	0.41
9:se:36:MET:HE1	9:se:40:ARG:NE	2.35	0.41
9:se:44:ASN:OD1	9:se:44:ASN:N	2.52	0.41
10:sA:158:ASP:OD1	10:sA:158:ASP:N	2.53	0.41
10:sA:173:LEU:O	10:sA:176:TRP:HB3	2.20	0.41
11:sB:67:PHE:O	11:sB:69:VAL:HG23	2.20	0.41
11:sB:91:VAL:HG22	11:sB:96:CYS:HB2	2.01	0.41
16:sN:104:ARG:NH2	48:lc:80:GLU:CD	2.71	0.41
23:lB:14:LEU:HA	23:lB:17:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:lB:17:LEU:O	23:lB:17:LEU:HG	2.19	0.41
25:lD:75:VAL:O	25:lD:112:ARG:NH2	2.46	0.41
26:lE:72:LYS:HD2	47:lb:116:LEU:O	2.20	0.41
27:lF:32:ARG:NH2	85:l5:2095:A:H2'	2.34	0.41
27:lF:60:GLU:OE2	27:lF:192:HIS:NE2	2.51	0.41
27:lF:67:THR:HA	27:lF:70:ARG:HG2	2.02	0.41
28:lG:106:THR:HG22	28:lG:109:GLU:HG3	2.01	0.41
28:lG:133:PRO:HA	28:lG:134:PRO:HD3	1.93	0.41
28:lG:229:ARG:O	28:lG:232:GLU:OE1	2.38	0.41
30:lI:131:ILE:HD13	30:lI:131:ILE:HA	1.79	0.41
32:lL:8:MET:SD	37:lQ:168:ARG:CA	3.09	0.41
32:lL:175:ASN:OD1	32:lL:175:ASN:N	2.40	0.41
34:lN:103:GLU:OE1	34:lN:118:SER:OG	2.22	0.41
34:lN:140:LYS:HA	34:lN:140:LYS:HD2	1.81	0.41
36:lP:32:THR:HG21	36:lP:87:SER:HB3	2.01	0.41
36:lP:105:LYS:HB2	36:lP:105:LYS:HE3	1.81	0.41
46:la:13:GLY:O	50:le:39:ARG:NH1	2.54	0.41
46:la:132:ARG:HA	46:la:135:GLU:HG3	2.02	0.41
64:sR:10:LYS:O	64:sR:14:ARG:NH2	2.38	0.41
67:sK:28:HIS:CE1	74:sd:8:TRP:HZ2	2.37	0.41
70:sS:97:GLN:CD	70:sS:97:GLN:C	2.88	0.41
71:sT:143:LYS:HE2	71:sT:144:LYS:HE2	2.01	0.41
75:sg:218:LEU:HB2	75:sg:228:TYR:HB3	2.02	0.41
79:s2:378:U:H2'	79:s2:379:C:C6	2.55	0.41
79:s2:443:U:H2'	79:s2:444:G:O4'	2.20	0.41
79:s2:585:C:H3'	79:s2:586:G:H8	1.85	0.41
79:s2:610:G:C4	79:s2:611:G:C8	3.08	0.41
79:s2:685:A:C2	79:s2:918:U:O2	2.74	0.41
79:s2:1451:G:H2'	79:s2:1452:A:H5"	2.01	0.41
79:s2:1764:G:H5'	79:s2:1765:C:H5"	2.02	0.41
80:cB:22:MET:CE	80:cB:354:ILE:HG21	2.50	0.41
80:cB:43:ALA:CB	80:cB:79:TYR:CD1	3.00	0.41
80:cB:558:LEU:HD23	80:cB:572:LYS:CE	2.50	0.41
84:lt:124:GLU:HG2	85:l5:1996:C:H5"	2.00	0.41
84:lt:139:VAL:HG21	85:l5:1976:G:H21	1.85	0.41
85:l5:1190:C:H2'	85:l5:1191:C:C6	2.54	0.41
85:l5:1255:A:N6	85:l5:1257:A:O2'	2.52	0.41
85:l5:1538:U:H2'	85:l5:1539:G:H8	1.85	0.41
85:l5:2385:U:H2'	85:l5:2386:U:C6	2.55	0.41
85:l5:2714:G:H2'	85:l5:2715:G:H8	1.84	0.41
85:l5:2730:U:H2'	85:l5:2731:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:LW:49:ILE:HG12	86:LW:50:ASN:H	1.85	0.41
2:SE:28:ALA:O	79:S2:496:C:H4'	2.20	0.41
2:SE:242:LYS:HD3	2:SE:242:LYS:HA	1.72	0.41
3:SI:107:THR:OG1	3:SI:108:PRO:HD3	2.20	0.41
3:SI:197:PHE:CD2	4:SL:10:TYR:HD1	2.38	0.41
5:SX:101:LEU:HD12	5:SX:101:LEU:HA	1.88	0.41
6:SG:58:LYS:HB2	6:SG:59:GLN:OE1	2.21	0.41
11:SB:34:LYS:O	11:SB:98:THR:HG22	2.20	0.41
12:SH:184:ASP:OD1	12:SH:184:ASP:N	2.47	0.41
15:SC:94:ILE:HA	15:SC:97:PHE:HB2	2.02	0.41
85:L5:182:G:H8	85:L5:182:G:OP2	2.02	0.41
85:L5:187:U:O4	85:L5:1366:G:N1	2.53	0.41
85:L5:298:G:H2'	85:L5:299:C:C6	2.56	0.41
85:L5:306:A:H2'	85:L5:307:A:C8	2.55	0.41
85:L5:665:C:H1'	85:L5:666:G:C8	2.55	0.41
85:L5:670:G:C2	85:L5:671:G:C8	3.08	0.41
85:L5:725:G:C6	85:L5:942:G:C6	3.08	0.41
85:L5:1368:A:H2'	85:L5:1369:C:O4'	2.20	0.41
85:L5:1563:A:OP1	85:L5:1563:A:H8	2.02	0.41
85:L5:1677:U:H4'	85:L5:1680:G:C2	2.55	0.41
85:L5:2663:G:H2'	85:L5:2664:G:H8	1.84	0.41
85:L5:2675:G:O6	48:Lc:30:GLY:HA3	2.20	0.41
85:L5:2777:G:H5"	85:L5:2778:G:H5'	2.02	0.41
85:L5:2792:C:O2	55:Lj:9:GLY:HA2	2.20	0.41
85:L5:2804:C:H2'	85:L5:2805:C:C6	2.54	0.41
85:L5:3762:U:H2'	85:L5:3763:A:O4'	2.20	0.41
85:L5:3911:C:C2	85:L5:3912:U:C5	3.08	0.41
85:L5:3920:U:H2'	85:L5:3921:U:H6	1.86	0.41
85:L5:3930:U:H3	85:L5:4180:G:H1	1.68	0.41
85:L5:4079:C:H2'	85:L5:4080:C:C6	2.55	0.41
85:L5:4101:C:N4	85:L5:4107:G:O6	2.53	0.41
85:L5:4189:U:H2'	85:L5:4190:U:O4'	2.20	0.41
85:L5:4318:C:H4'	60:Lo:17:LYS:HA	2.02	0.41
85:L5:4477:A:C4	85:L5:4478:G:C8	3.08	0.41
85:L5:4494:G:OP1	42:LV:49:LEU:HD12	2.20	0.41
85:L5:4549:G:C2	85:L5:4550:G:C8	3.08	0.41
85:L5:4693:C:P	29:LH:64:ARG:HH22	2.43	0.41
20:L7:12:U:O3'	20:L7:109:U:O2'	2.30	0.41
20:L7:38:U:H2'	20:L7:40:U:C5	2.55	0.41
22:LA:80:GLU:HB3	22:LA:170:ALA:CA	2.49	0.41
23:LB:3:HIS:O	23:LB:3:HIS:CG	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:LC:128:LEU:O	24:LC:131:SER:OG	2.25	0.41
26:LE:190:HIS:HB3	26:LE:193:PHE:HD2	1.85	0.41
29:LH:118:LEU:HD23	29:LH:118:LEU:HA	1.91	0.41
30:LI:180:GLU:OE1	30:LI:180:GLU:N	2.47	0.41
31:LJ:46:GLN:NE2	31:LJ:73:THR:O	2.51	0.41
31:LJ:106:GLY:HA3	31:LJ:131:TYR:CD1	2.54	0.41
31:LJ:121:PRO:HG3	70:SS:11:HIS:CE1	2.55	0.41
32:LL:8:MET:HE1	37:LQ:167:VAL:O	2.21	0.41
32:LL:172:GLU:CD	54:Li:2:ALA:CA	2.88	0.41
33:LM:70:GLN:NE2	33:LM:74:ARG:HE	2.15	0.41
34:LN:83:LYS:O	34:LN:85:VAL:N	2.53	0.41
35:LO:194:GLU:O	35:LO:198:THR:HG23	2.20	0.41
36:LP:19:GLY:N	36:LP:146:ILE:O	2.39	0.41
38:LR:24:LEU:HD22	38:LR:50:ILE:HD12	2.01	0.41
41:LU:28:PRO:HB3	41:LU:33:ILE:CD1	2.41	0.41
47:Lb:54:LEU:HA	47:Lb:57:MET:HG2	2.02	0.41
48:Lc:47:ILE:HB	48:Lc:94:LEU:HG	2.03	0.41
56:Lk:25:ILE:HG12	56:Lk:34:PHE:CZ	2.55	0.41
56:Lk:37:ARG:NE	56:Lk:38:CYS:O	2.47	0.41
56:Lk:50:LYS:HE2	56:Lk:50:LYS:HB3	1.84	0.41
62:Lr:93:ILE:HA	62:Lr:96:MET:HG2	2.02	0.41
64:SR:70:SER:OG	64:SR:73:LEU:HG	2.19	0.41
69:SQ:8:GLN:OE1	69:SQ:27:ARG:HB2	2.19	0.41
74:Sd:2:GLY:HA3	74:Sd:3:HIS:HA	1.89	0.41
74:Sd:32:ARG:NH1	79:S2:1661:A:OP2	2.53	0.41
75:Sg:172:LYS:O	75:Sg:191:HIS:HB2	2.20	0.41
75:Sg:294:ASP:CG	75:Sg:296:GLN:HG2	2.45	0.41
76:SM:78:LYS:HD3	76:SM:78:LYS:HA	1.81	0.41
79:S2:107:A:H2'	79:S2:108:G:H8	1.83	0.41
79:S2:217:A:C5	79:S2:218:U:C5	3.09	0.41
79:S2:353:C:H2'	79:S2:354:U:H6	1.84	0.41
79:S2:1018:U:C2	79:S2:1019:C:C5	3.08	0.41
79:S2:1777:G:H8	79:S2:1777:G:OP2	2.03	0.41
82:Et:8:U:O2	82:Et:48:C:H1'	2.20	0.41
5:sX:48:LYS:NZ	79:s2:483:C:H5"	2.35	0.41
6:sG:170:ARG:CD	79:s2:67:C:H41	2.33	0.41
12:sH:171:GLU:OE1	12:sH:171:GLU:N	2.50	0.41
15:sC:139:LEU:HD23	15:sC:139:LEU:HA	1.80	0.41
15:sC:184:VAL:HG22	15:sC:250:TYR:CE1	2.54	0.41
16:sN:114:ARG:O	16:sN:118:ILE:HG12	2.20	0.41
18:sW:41:MET:HB3	18:sW:47:ILE:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:sb:31:TYR:CD2	19:sb:48:SER:HB3	2.54	0.41
19:sb:34:ASP:CG	19:sb:82:LYS:HE3	2.45	0.41
21:l8:88:A:H2'	21:l8:89:U:O4'	2.20	0.41
23:lB:156:TYR:CE2	85:l5:4909:A:H8	2.38	0.41
24:lC:42:THR:HG23	85:l5:2340:C:H4'	2.02	0.41
24:lC:63:SER:O	24:lC:63:SER:OG	2.37	0.41
24:lC:284:MET:HG3	37:lQ:28:LEU:HD21	2.01	0.41
24:lC:288:ASP:C	24:lC:288:ASP:OD2	2.63	0.41
29:lH:82:LYS:HE3	29:lH:82:LYS:HB2	1.90	0.41
36:lP:75:GLN:NE2	85:l5:4970:C:O4'	2.53	0.41
37:lQ:143:ARG:HH22	85:l5:1693:U:P	2.44	0.41
38:lR:99:MET:H	38:lR:99:MET:HG2	1.63	0.41
39:lS:19:THR:C	39:lS:21:LYS:H	2.27	0.41
39:lS:28:TYR:CE1	40:lT:149:GLU:OE1	2.71	0.41
43:lX:81:LEU:HG	43:lX:83:THR:HG23	2.02	0.41
44:lY:34:LEU:HD21	44:lY:47:MET:HB2	2.01	0.41
50:le:37:LYS:NZ	50:le:55:MET:CE	2.83	0.41
54:li:31:GLY:O	85:l5:308:G:O2'	2.38	0.41
56:lk:66:VAL:HG12	56:lk:66:VAL:O	2.20	0.41
63:lz:128:LEU:HD12	63:lz:128:LEU:HA	1.86	0.41
64:sR:11:LYS:HE3	79:s2:1373:C:OP2	2.21	0.41
64:sR:67:ARG:N	79:s2:1375:G:OP1	2.38	0.41
65:sD:224:SER:HG	75:sg:188:HIS:CE1	2.31	0.41
67:sK:49:MET:SD	67:sK:69:TRP:CD2	3.13	0.41
75:sg:106:LYS:HB2	75:sg:106:LYS:HE2	1.89	0.41
76:sM:73:GLN:OE1	76:sM:127:TYR:OH	2.31	0.41
79:s2:568:C:H2'	79:s2:569:A:O4'	2.19	0.41
79:s2:946:U:C2	79:s2:947:G:C8	3.08	0.41
79:s2:1533:A:C8	79:s2:1604:G:H1'	2.55	0.41
79:s2:1716:C:H2'	79:s2:1717:C:C6	2.56	0.41
79:s2:1826:G:O2'	85:l5:3759:A:O2'	2.31	0.41
80:cB:7:ASP:OD1	80:cB:462:GLU:OE1	2.39	0.41
80:cB:289:PHE:HE1	80:cB:293:ILE:HG21	1.84	0.41
80:cB:577:VAL:HG22	80:cB:790:VAL:CG1	2.50	0.41
82:pE:38:A:H2'	82:pE:39:U:O4'	2.20	0.41
85:l5:1098:G:H2'	85:l5:1099:C:C6	2.55	0.41
85:l5:1174:G:N2	85:l5:1187:G:N7	2.68	0.41
85:l5:1202:C:H3'	85:l5:1203:G:C5'	2.50	0.41
85:l5:1243:C:H2'	85:l5:1244:G:C8	2.55	0.41
85:l5:1338:G:H4'	85:l5:1339:U:H6	1.85	0.41
85:l5:1720:C:H2'	85:l5:1721:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:2021:G:C6	85:l5:2022:C:N4	2.88	0.41
85:l5:2033:A:O2'	85:l5:2034:G:O5'	2.30	0.41
85:l5:2108:G:H2'	85:l5:2109:G:H8	1.85	0.41
85:l5:2457:G:O2'	85:l5:3672:G:H1'	2.20	0.41
85:l5:4507:A:H2'	85:l5:4508:C:C6	2.55	0.41
85:l5:4593:C:H2'	85:l5:4594:U:H6	1.84	0.41
85:l5:4633:G:O3'	85:l5:4634:U:H3'	2.21	0.41
85:l5:5023:C:H3'	85:l5:5024:C:H4'	2.02	0.41
86:LW:56:ARG:HG3	86:LW:56:ARG:NH1	2.34	0.41
3:SI:139:LYS:HB3	3:SI:139:LYS:HE3	1.79	0.41
4:SL:22:ARG:HH22	4:SL:26:GLY:HA3	1.83	0.41
7:SJ:30:LYS:HB2	9:Se:42:PHE:HE2	1.85	0.41
10:SA:19:LEU:H	10:SA:19:LEU:HD12	1.85	0.41
10:SA:24:HIS:HB3	10:SA:51:LEU:HD21	2.03	0.41
12:SH:20:GLU:O	12:SH:24:SER:N	2.47	0.41
12:SH:49:LYS:HE3	12:SH:49:LYS:HB2	1.94	0.41
12:SH:113:LYS:HD2	12:SH:113:LYS:HA	1.88	0.41
17:SO:147:ARG:HH22	79:S2:1854:U:P	2.44	0.41
85:L5:60:G:C4	85:L5:61:A:C8	3.08	0.41
85:L5:169:G:O6	85:L5:170:C:N4	2.54	0.41
85:L5:181:C:H2'	85:L5:181:C:O2	2.20	0.41
85:L5:408:A:C6	85:L5:411:G:C6	3.09	0.41
85:L5:1196:G:H2'	85:L5:1197:C:H6	1.85	0.41
85:L5:1290:G:H2'	85:L5:1291:G:H8	1.85	0.41
85:L5:1328:G:C6	85:L5:1329:G:C6	3.09	0.41
85:L5:1399:G:H2'	85:L5:1400:G:H8	1.85	0.41
85:L5:1517:G:H22	24:LC:103:ALA:HA	1.84	0.41
85:L5:1974:U:OP1	84:Lt:77:ALA:HB2	2.20	0.41
85:L5:2088:A:OP2	37:LQ:37:ARG:NH2	2.53	0.41
85:L5:2357:G:H2'	85:L5:2358:G:C8	2.55	0.41
85:L5:2528:G:C5	85:L5:2529:A:C6	3.09	0.41
85:L5:2669:C:H2'	85:L5:2670:C:O4'	2.20	0.41
85:L5:2751:G:N3	85:L5:2752:G:C8	2.88	0.41
85:L5:2817:C:H2'	85:L5:2818:C:C6	2.56	0.41
85:L5:3694:U:H2'	85:L5:3695:U:H6	1.84	0.41
85:L5:3807:A:OP1	59:Ln:23:ARG:HD3	2.20	0.41
85:L5:3819:G:C2	85:L5:3820:G:N7	2.88	0.41
85:L5:3949:A:H2	85:L5:4065:G:N1	2.17	0.41
85:L5:4081:G:H2'	85:L5:4082:G:C8	2.55	0.41
85:L5:4273:A:H2'	85:L5:4274:A:C8	2.56	0.41
85:L5:4355:G:C2	85:L5:4356:G:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4466:C:H2'	85:L5:4467:A:C8	2.52	0.41
85:L5:4592:C:H2'	85:L5:4593:C:C6	2.55	0.41
85:L5:4600:G:O2'	85:L5:4601:U:P	2.78	0.41
85:L5:4712:C:OP1	35:LO:74:ARG:NH2	2.53	0.41
22:LA:3:ARG:HD2	22:LA:208:GLU:HG3	2.03	0.41
23:LB:315:ASN:HD22	23:LB:325:GLU:HA	1.84	0.41
24:LC:287:THR:HG21	37:LQ:24:TYR:HE2	1.85	0.41
26:LE:207:LYS:HD2	26:LE:207:LYS:HA	1.69	0.41
27:LF:46:ARG:O	27:LF:50:ILE:HG12	2.20	0.41
28:LG:148:GLU:OE2	54:Li:36:HIS:NE2	2.50	0.41
31:LJ:166:PHE:HD2	31:LJ:174:ILE:HD11	1.85	0.41
32:LL:172:GLU:OE1	54:Li:2:ALA:CA	2.67	0.41
33:LM:77:TRP:O	33:LM:81:ASP:HA	2.20	0.41
37:LQ:69:LYS:HA	37:LQ:69:LYS:HD3	1.91	0.41
41:LU:34:MET:HE3	41:LU:94:ASN:ND2	2.35	0.41
41:LU:100:LEU:HA	41:LU:100:LEU:HD13	1.84	0.41
59:Ln:1:MET:HB2	79:S2:1852:C:OP2	2.20	0.41
64:SR:40:ILE:O	64:SR:41:ILE:HD13	2.19	0.41
64:SR:103:LYS:NZ	64:SR:112:GLY:O	2.52	0.41
65:SD:28:GLU:CD	67:SK:70:TYR:HE2	2.29	0.41
66:SF:128:ILE:HG23	73:Sc:26:GLN:HE22	1.84	0.41
66:SF:144:LEU:HD23	73:Sc:49:PRO:HG2	2.02	0.41
68:SP:83:MET:O	68:SP:116:LEU:HD12	2.21	0.41
71:ST:20:ALA:HA	71:ST:23:LYS:HD2	2.01	0.41
77:SZ:66:LYS:O	77:SZ:68:ILE:HD12	2.19	0.41
79:S2:10:G:C4	79:S2:11:A:C8	3.08	0.41
79:S2:403:G:H2'	79:S2:404:G:C8	2.55	0.41
79:S2:680:G:H2'	79:S2:681:U:H6	1.84	0.41
79:S2:938:A:C6	79:S2:1005:G:C6	3.08	0.41
82:Et:26:A:N6	82:Et:44:G:N1	2.21	0.41
88:CF:303:LEU:HD23	88:CF:304:PRO:O	2.18	0.41
4:sL:18:GLN:OE1	4:sL:18:GLN:N	2.50	0.41
12:sH:45:ILE:HA	12:sH:45:ILE:HD12	1.69	0.41
12:sH:84:GLU:OE2	12:sH:89:GLY:N	2.52	0.41
12:sH:118:ARG:NH2	79:s2:687:C:N3	2.68	0.41
14:sa:21:ILE:HD12	14:sa:72:HIS:CD2	2.55	0.41
18:sW:101:PHE:CG	18:sW:112:ASP:OD1	2.73	0.41
20:l7:46:C:P	25:lD:158:LYS:HZ3	2.44	0.41
21:l8:28:C:H2'	21:l8:29:G:C8	2.54	0.41
21:l8:112:G:O2'	85:l5:2444:U:O3'	2.38	0.41
22:lA:83:HIS:HA	61:lp:64:VAL:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:lB:348:ARG:HH22	23:lB:351:LEU:HD22	1.84	0.41
29:lH:181:VAL:HG13	58:lm:89:TYR:OH	2.20	0.41
30:lI:34:PHE:HD1	30:lI:89:VAL:HG23	1.84	0.41
32:lL:31:ARG:HD2	85:l5:337:U:OP1	2.20	0.41
32:lL:165:LYS:HD2	85:l5:512:U:OP2	2.20	0.41
35:lO:8:VAL:HG23	35:lO:117:ARG:HA	2.02	0.41
36:lP:131:ARG:HG3	36:lP:137:ASN:ND2	2.35	0.41
40:lT:149:GLU:OE2	40:lT:149:GLU:N	2.53	0.41
43:lX:117:TYR:CE2	43:lX:153:ILE:HD11	2.55	0.41
56:lk:49:ASP:OD2	56:lk:50:LYS:N	2.53	0.41
64:sR:28:PHE:CE1	64:sR:29:HIS:CE1	3.08	0.41
64:sR:126:MET:SD	79:s2:1109:C:C2	3.13	0.41
70:sS:35:GLY:HA3	70:sS:99:LEU:HA	2.02	0.41
70:sS:137:LYS:HD2	79:s2:1521:C:N4	2.34	0.41
71:sT:76:THR:OG1	71:sT:95:GLY:O	2.30	0.41
76:sM:40:LYS:HB3	76:sM:40:LYS:HE3	1.88	0.41
79:s2:179:C:H3'	79:s2:180:G:C8	2.56	0.41
79:s2:636:C:H2'	79:s2:637:U:C6	2.56	0.41
79:s2:1025:U:H2'	79:s2:1026:C:O4'	2.21	0.41
79:s2:1240:A:H2'	79:s2:1241:A:C8	2.55	0.41
79:s2:1334:G:H2'	79:s2:1335:G:O4'	2.19	0.41
79:s2:1386:A:C6	79:s2:1387:G:C6	3.08	0.41
79:s2:1406:G:H2'	79:s2:1407:U:C6	2.55	0.41
79:s2:1777:G:H8	79:s2:1777:G:OP2	2.02	0.41
80:cB:294:LEU:O	80:cB:297:ILE:HG12	2.19	0.41
80:cB:386:LYS:HA	80:cB:386:LYS:HD2	1.84	0.41
85:l5:104:G:C2	85:l5:105:A:C8	3.09	0.41
85:l5:1601:A:N7	85:l5:3643:A:C4	2.88	0.41
85:l5:2092:G:O2'	85:l5:2262:G:N2	2.53	0.41
85:l5:2602:G:O4'	85:l5:2742:G:H2'	2.19	0.41
85:l5:2904:U:H5"	85:l5:2905:C:OP1	2.21	0.41
85:l5:4094:G:H2'	85:l5:4094:G:N3	2.36	0.41
85:l5:4171:C:C2	85:l5:4172:A:C8	3.08	0.41
85:l5:4439:U:H2'	85:l5:4440:G:O4'	2.20	0.41
85:l5:4647:G:C2	85:l5:4648:A:C8	3.08	0.41
86:LW:11:TYR:OH	86:LW:51:TRP:HB2	2.20	0.41
5:SX:12:LYS:NZ	79:S2:1161:U:H5'	2.35	0.41
6:SG:101:ILE:HG22	6:SG:103:ASP:OD2	2.20	0.41
6:SG:110:ASN:OD1	6:SG:110:ASN:N	2.50	0.41
7:SJ:50:LEU:HD22	7:SJ:102:ILE:HG23	2.00	0.41
7:SJ:83:ARG:HH21	7:SJ:150:ARG:CZ	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:SJ:137:VAL:HG22	7:SJ:138:ARG:H	1.86	0.41
10:SA:188:THR:O	10:SA:189:ILE:HD13	2.20	0.41
10:SA:197:VAL:CG1	10:SA:198:MET:N	2.83	0.41
11:SB:179:ASN:ND2	11:SB:183:GLU:HB3	2.35	0.41
12:SH:118:ARG:NH2	79:S2:686:U:O2	2.50	0.41
16:SN:142:GLU:HB2	16:SN:145:THR:HG23	2.01	0.41
19:Sb:14:GLU:O	19:Sb:14:GLU:OE2	2.38	0.41
19:Sb:37:CYS:HB3	19:Sb:63:LEU:HD11	2.02	0.41
85:L5:326:C:H2'	85:L5:327:U:C6	2.54	0.41
85:L5:341:G:C2	85:L5:342:G:C8	3.09	0.41
85:L5:423:G:C6	21:L8:12:G:N1	2.88	0.41
85:L5:693:C:OP1	62:Lr:125:MET:HE1	2.20	0.41
85:L5:745:G:H2'	85:L5:746:A:C8	2.55	0.41
85:L5:1097:C:H2'	85:L5:1098:G:H8	1.85	0.41
85:L5:1176:C:H2'	85:L5:1177:U:H6	1.85	0.41
85:L5:1414:C:H2'	85:L5:1415:G:C8	2.37	0.41
85:L5:2453:A:N1	85:L5:2507:A:C8	2.89	0.41
85:L5:2563:C:H2'	85:L5:2564:G:O4'	2.21	0.41
85:L5:2605:G:H2'	85:L5:2606:G:H8	1.85	0.41
85:L5:3792:G:C6	85:L5:3793:U:C4	3.09	0.41
85:L5:4092:G:C6	85:L5:4093:G:C2	3.08	0.41
85:L5:4525:C:H2'	85:L5:4526:U:C6	2.55	0.41
85:L5:4724:A:O2'	23:LB:104:THR:HG23	2.20	0.41
85:L5:4729:A:H5"	85:L5:4965:U:H1'	2.02	0.41
20:L7:24:C:H2'	20:L7:25:G:O4'	2.20	0.41
20:L7:80:U:C2	20:L7:81:G:C8	3.08	0.41
21:L8:120:G:C6	21:L8:131:G:C6	3.09	0.41
21:L8:141:C:H2'	21:L8:142:U:H6	1.80	0.41
23:LB:223:THR:HG23	23:LB:275:HIS:O	2.20	0.41
23:LB:332:MET:HE2	23:LB:332:MET:HB3	1.75	0.41
27:LF:124:LYS:HG2	27:LF:126:ASN:ND2	2.35	0.41
30:LI:48:LEU:HD11	30:LI:142:LEU:HA	2.02	0.41
30:LI:206:LEU:CD2	30:LI:210:ARG:CZ	2.97	0.41
31:LJ:62:ILE:C	31:LJ:62:ILE:HD12	2.45	0.41
33:LM:29:ASP:HB2	33:LM:37:LEU:HD23	2.02	0.41
34:LN:7:ILE:HA	34:LN:10:LEU:HB3	2.01	0.41
34:LN:60:VAL:C	34:LN:61:ILE:HD12	2.46	0.41
38:LR:99:MET:CA	38:LR:99:MET:CE	2.95	0.41
39:LS:45:TRP:CE2	39:LS:56:LYS:HA	2.56	0.41
41:LU:80:LYS:HZ2	41:LU:109:SER:H	1.68	0.41
43:LX:38:LYS:H	43:LX:38:LYS:HG2	1.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:LX:96:LEU:HB2	43:LX:138:VAL:HG23	2.02	0.41
48:Lc:78:ASN:OD1	48:Lc:78:ASN:N	2.53	0.41
49:Ld:27:ILE:O	49:Ld:29:ILE:HD12	2.20	0.41
53:Lh:53:SER:O	53:Lh:57:VAL:HG13	2.20	0.41
55:Lj:29:LEU:HD23	55:Lj:29:LEU:HA	1.82	0.41
65:SD:38:GLU:O	65:SD:49:ILE:N	2.50	0.41
66:SF:85:LYS:H	66:SF:85:LYS:HG2	1.69	0.41
69:SQ:137:ALA:N	79:S2:1650:A:OP1	2.54	0.41
70:SS:10:GLN:CD	70:SS:13:LEU:HG	2.46	0.41
70:SS:22:GLY:HA2	70:SS:56:ALA:HB3	2.03	0.41
79:S2:348:A:H2'	79:S2:349:A:C8	2.55	0.41
79:S2:1238:U:O2	79:S2:1242:U:H5	2.03	0.41
79:S2:1847:G:H2'	79:S2:1848:U:C6	2.55	0.41
79:S2:1854:U:H2'	79:S2:1855:G:C8	2.50	0.41
84:Lt:33:GLY:N	84:Lt:34:PRO:HD2	2.36	0.41
83:Ls:70:GLU:OE1	83:Ls:70:GLU:HA	2.21	0.41
1:cH:126:ARG:HA	1:cH:142:GLU:OE1	2.20	0.41
4:sL:15:THR:HG23	4:sL:16:ILE:HG23	2.02	0.41
7:sJ:174:LYS:HA	7:sJ:177:ASN:HD21	1.85	0.41
10:sA:8:LEU:HD12	10:sA:8:LEU:O	2.20	0.41
12:sH:143:ARG:CD	18:sW:53:ILE:HG22	2.50	0.41
21:l8:115:G:H2'	21:l8:116:C:H6	1.85	0.41
22:lA:24:LYS:HG3	22:lA:49:ILE:HD12	2.03	0.41
22:lA:152:SER:O	22:lA:152:SER:OG	2.38	0.41
23:lB:206:PRO:HG2	23:lB:209:GLN:HG3	2.02	0.41
25:lD:213:GLU:H	25:lD:213:GLU:HG3	1.70	0.41
25:lD:217:ASP:HA	25:lD:220:LYS:HB3	2.03	0.41
26:lE:208:ILE:HG23	26:lE:212:LEU:HD12	2.02	0.41
27:lF:67:THR:HG22	27:lF:70:ARG:HE	1.85	0.41
27:lF:88:LYS:HG3	27:lF:197:VAL:HG23	2.01	0.41
28:lG:109:GLU:O	28:lG:113:ARG:HG2	2.20	0.41
28:lG:123:ALA:HA	28:lG:124:GLY:HA2	1.83	0.41
36:lP:107:LEU:HB2	36:lP:152:GLU:OE2	2.21	0.41
37:lQ:67:ILE:HD13	37:lQ:98:LEU:HD11	2.03	0.41
38:lR:100:ARG:NE	85:l5:2667:C:OP1	2.49	0.41
38:lR:118:HIS:CE1	85:l5:2661:U:C4	3.08	0.41
38:lR:172:ARG:HA	38:lR:175:GLU:HG3	2.03	0.41
39:lS:51:LEU:CD1	40:lT:151:LEU:HB3	2.51	0.41
40:lT:89:ILE:HG22	85:l5:4300:U:H4'	2.02	0.41
52:lg:46:CYS:SG	52:lg:47:GLY:N	2.92	0.41
56:lk:64:LEU:O	56:lk:66:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:lo:17:LYS:HA	85:l5:4318:C:H4'	2.03	0.41
64:sR:105:MET:SD	64:sR:105:MET:O	2.78	0.41
65:sD:214:LYS:HB2	65:sD:214:LYS:HE2	1.71	0.41
67:sK:62:PHE:HE2	67:sK:65:ARG:C	2.28	0.41
69:sQ:44:PRO:O	69:sQ:45:ARG:HB2	2.19	0.41
70:sS:18:THR:OG1	70:sS:19:ASN:N	2.53	0.41
70:sS:21:ASP:OD1	70:sS:21:ASP:C	2.63	0.41
70:sS:39:ARG:HH12	71:sT:46:ALA:HB2	1.84	0.41
71:sT:28:LEU:HD13	71:sT:54:TYR:CE2	2.55	0.41
71:sT:31:PRO:HD2	71:sT:53:PHE:HE2	1.84	0.41
75:sg:9:GLY:HA3	75:sg:52:TYR:CE2	2.56	0.41
75:sg:31:ILE:HG13	75:sg:299:PHE:CE1	2.55	0.41
76:sM:22:LEU:HD11	76:sM:88:TRP:HB3	2.03	0.41
78:sf:134:SER:O	78:sf:134:SER:OG	2.31	0.41
79:s2:1049:A:OP2	79:s2:1068:G:N1	2.32	0.41
79:s2:1114:U:O2'	79:s2:1115:U:O5'	2.27	0.41
79:s2:1656:G:C2	79:s2:1657:G:C8	3.09	0.41
80:cB:27:HIS:CD2	80:cB:136:CYS:HB3	2.55	0.41
80:cB:140:GLU:O	80:cB:144:ARG:HB2	2.20	0.41
80:cB:156:MET:HE3	80:cB:157:MET:O	2.20	0.41
80:cB:528:ALA:HB2	80:cB:536:CYS:SG	2.61	0.41
80:cB:737:GLN:O	80:cB:739:ARG:NH2	2.54	0.41
82:pE:14:A:H2'	82:pE:15:G:O4'	2.20	0.41
84:lt:19:GLY:HA2	84:lt:48:LYS:HE2	2.03	0.41
84:lt:56:LEU:HD13	84:lt:84:ALA:HB1	2.03	0.41
84:lt:114:ARG:NE	84:lt:130:LYS:HA	2.35	0.41
85:l5:31:U:H2'	85:l5:32:G:O4'	2.20	0.41
85:l5:1080:C:C2	85:l5:1220:G:N2	2.88	0.41
85:l5:1296:G:H2'	85:l5:1297:U:O4'	2.20	0.41
85:l5:1504:G:H2'	85:l5:1505:C:C6	2.56	0.41
85:l5:1523:A:N3	85:l5:4389:C:O2'	2.50	0.41
85:l5:1820:C:O2'	85:l5:1821:G:N7	2.48	0.41
85:l5:1920:C:H3'	85:l5:1921:C:H5"	2.02	0.41
85:l5:1979:A:C6	85:l5:1980:U:H5	2.38	0.41
85:l5:2104:G:H3'	85:l5:2105:A:C8	2.56	0.41
85:l5:2561:C:C2	85:l5:2567:G:C2	3.08	0.41
85:l5:2747:U:H2'	85:l5:2748:C:H6	1.86	0.41
85:l5:3671:G:O2'	85:l5:3672:G:H5'	2.20	0.41
85:l5:4637:G:H2'	85:l5:4638:U:H6	1.86	0.41
85:l5:4740:G:O6	85:l5:4959:U:O2	2.39	0.41
85:l5:4922:C:C4	85:l5:4923:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:5014:A:H2'	85:l5:5015:G:O4'	2.20	0.41
86:LW:23:ARG:N	86:LW:27:LYS:O	2.47	0.41
2:SE:189:LEU:HD23	2:SE:189:LEU:HA	1.86	0.41
3:SI:177:SER:HB2	3:SI:182:CYS:SG	2.60	0.41
4:SL:13:GLN:NE2	4:SL:35:ARG:HD2	2.35	0.41
4:SL:51:ILE:HD13	4:SL:51:ILE:HA	1.97	0.41
10:SA:77:ILE:HA	10:SA:99:ILE:O	2.21	0.41
10:SA:111:GLN:NE2	15:SC:89:LYS:HD2	2.36	0.41
11:SB:117:TRP:HB3	11:SB:153:THR:HA	2.02	0.41
11:SB:123:ALA:CB	11:SB:168:MET:HE1	2.50	0.41
11:SB:162:ARG:NH1	79:S2:1005:G:OP2	2.51	0.41
12:SH:144:ILE:HG12	12:SH:154:ILE:HG23	2.01	0.41
14:Sa:87:ARG:HH21	79:S2:1865:C:H5"	1.86	0.41
14:Sa:93:LYS:HD3	79:S2:1865:C:N4	2.34	0.41
85:L5:270:U:C2	85:L5:271:C:C5	3.09	0.41
85:L5:295:A:OP2	60:Lo:39:ARG:NH2	2.37	0.41
85:L5:1520:C:H2'	85:L5:1521:C:C6	2.54	0.41
85:L5:1643:A:H2'	85:L5:1644:C:H6	1.84	0.41
85:L5:1822:U:C2	85:L5:1823:G:C8	3.09	0.41
85:L5:1951:G:C6	85:L5:2033:A:N1	2.88	0.41
85:L5:2081:C:H2'	85:L5:2082:G:C8	2.56	0.41
85:L5:2543:A:H2	85:L5:2773:G:H22	1.69	0.41
85:L5:2633:U:C2	85:L5:2634:C:C5	3.09	0.41
85:L5:3668:C:OP1	22:LA:8:GLN:NE2	2.52	0.41
85:L5:3670:C:H2'	85:L5:3671:G:C8	2.55	0.41
85:L5:3867:A:C2	85:L5:3880:G:C6	3.09	0.41
85:L5:4323:A:C2	25:LD:146:LEU:HD23	2.56	0.41
85:L5:4344:U:H2'	85:L5:4345:C:H6	1.85	0.41
85:L5:4356:G:N3	85:L5:4357:G:C8	2.88	0.41
85:L5:4884:G:C6	85:L5:4936:G:N1	2.89	0.41
21:L8:65:A:C4	21:L8:66:A:C8	3.09	0.41
21:L8:115:G:H2'	21:L8:116:C:C6	2.56	0.41
22:LA:92:LYS:HA	22:LA:103:PRO:HD2	2.02	0.41
23:LB:310:SER:OG	23:LB:311:ASP:N	2.52	0.41
24:LC:61:GLN:H	24:LC:61:GLN:HG2	1.62	0.41
27:LF:117:ILE:HG12	27:LF:118:PHE:CD2	2.55	0.41
28:LG:177:MET:HE2	28:LG:177:MET:N	2.35	0.41
28:LG:212:LYS:HE2	28:LG:212:LYS:HB3	1.87	0.41
30:LI:171:TRP:O	30:LI:174:THR:OG1	2.29	0.41
40:LT:119:ALA:HA	40:LT:122:LYS:NZ	2.35	0.41
45:LZ:81:MET:HA	45:LZ:81:MET:CE	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:Ld:25:TYR:CD1	49:Ld:88:LEU:HD13	2.54	0.41
50:Le:7:LEU:HG	50:Le:8:VAL:HG22	2.02	0.41
54:Li:46:GLU:H	54:Li:46:GLU:CD	2.29	0.41
54:Li:99:LYS:HA	54:Li:99:LYS:HD3	1.85	0.41
56:Lk:7:GLU:OE2	56:Lk:10:ASP:CB	2.68	0.41
62:Lr:118:LEU:HA	62:Lr:121:GLN:OE1	2.21	0.41
64:SR:129:LYS:HE3	79:S2:1125:C:OP1	2.21	0.41
66:SF:126:THR:OG1	73:Sc:26:GLN:OE1	2.37	0.41
66:SF:171:GLU:HA	66:SF:174:ALA:HB3	2.03	0.41
66:SF:182:LYS:HG3	66:SF:183:GLY:N	2.35	0.41
69:SQ:76:GLY:HA3	79:S2:1672:U:O3'	2.21	0.41
69:SQ:116:ASP:HB3	69:SQ:119:LEU:CD2	2.50	0.41
76:SM:77:ILE:HD11	76:SM:126:GLU:CD	2.46	0.41
79:S2:46:A:H4'	79:S2:47:G:H5"	2.02	0.41
79:S2:598:G:C2	79:S2:639:C:C2	3.08	0.41
79:S2:833:C:H2'	79:S2:834:C:C6	2.56	0.41
79:S2:1707:U:C2	79:S2:1708:C:C6	3.08	0.41
88:CF:96:ARG:HB2	88:CF:132:GLN:NE2	2.35	0.41
1:cH:44:TRP:CZ2	9:se:49:PHE:CD1	3.09	0.41
2:sE:100:ARG:HB3	2:sE:114:ILE:HG21	2.02	0.41
5:sX:84:PHE:CD2	5:sX:84:PHE:C	2.98	0.41
7:sJ:139:LYS:NZ	11:SB:234:GLU:HG2	2.35	0.41
10:sA:18:PHE:CE1	10:sA:51:LEU:HD12	2.55	0.41
11:sB:136:ARG:CZ	79:s2:941:C:H5"	2.51	0.41
12:sH:86:LYS:HG3	12:sH:87:PHE:CE1	2.56	0.41
21:l8:45:C:H2'	21:l8:46:G:C8	2.56	0.41
22:lA:15:VAL:HG21	85:l5:1628:C:H5"	2.02	0.41
24:lC:61:GLN:H	24:lC:61:GLN:HG2	1.64	0.41
24:lC:205:ARG:HD3	24:lC:205:ARG:HA	1.79	0.41
31:lJ:19:LYS:HG3	31:lJ:73:THR:HG23	2.01	0.41
31:lJ:39:VAL:HA	31:lJ:42:GLN:HG3	2.02	0.41
31:lJ:119:TYR:HD1	31:lJ:120:ASP:N	2.19	0.41
36:lP:40:HIS:CE1	36:lP:42:ARG:H	2.38	0.41
42:lV:13:LYS:HE3	42:lV:13:LYS:HB2	1.69	0.41
49:ld:46:LEU:CD1	85:l5:2372:U:O2'	2.69	0.41
51:lf:36:ARG:HG3	51:lf:80:ASN:H	1.85	0.41
55:lj:32:SER:O	55:lj:40:PRO:HG3	2.21	0.41
62:lr:19:LYS:HB2	85:l5:2337:C:H4'	2.02	0.41
64:sR:29:HIS:HB2	79:s2:1455:A:C8	2.56	0.41
67:sK:75:GLY:O	67:sK:79:LEU:HG	2.20	0.41
70:sS:9:PHE:CD1	70:sS:9:PHE:C	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:sU:51:LYS:HE2	72:sU:51:LYS:HB2	1.82	0.41
73:sc:54:ASP:OD2	73:sc:54:ASP:C	2.64	0.41
79:s2:149:A:C5	79:s2:150:A:C8	3.09	0.41
79:s2:746:C:H2'	79:s2:747:U:H6	1.86	0.41
79:s2:815:U:C2	79:s2:816:A:C8	3.09	0.41
79:s2:1272:C:H2'	79:s2:1273:C:C6	2.56	0.41
79:s2:1287:A:C5	79:s2:1288:U:H1'	2.55	0.41
79:s2:1358:U:H2'	79:s2:1359:U:O4'	2.20	0.41
79:s2:1854:U:O2	79:s2:1855:G:C8	2.73	0.41
80:cB:27:HIS:HB2	80:cB:139:THR:HG23	2.03	0.41
80:cB:228:PHE:HE2	80:cB:293:ILE:HG23	1.83	0.41
80:cB:231:MET:SD	80:cB:231:MET:C	3.03	0.41
80:cB:471:GLY:C	80:cB:472:LEU:HD22	2.45	0.41
82:pE:56:C:H2'	82:pE:57:A:O4'	2.21	0.41
83:ls:60:MET:HE2	83:ls:60:MET:HA	2.03	0.41
85:l5:727:C:H2'	85:l5:728:U:C6	2.55	0.41
85:l5:1519:C:H2'	85:l5:1520:C:H6	1.84	0.41
85:l5:1764:G:H4'	85:l5:1769:G:C6	2.56	0.41
85:l5:1875:C:H2'	85:l5:1876:U:C6	2.56	0.41
85:l5:2397:G:C8	85:l5:2399:G:C8	3.09	0.41
85:l5:2565:A:H2'	85:l5:2566:G:O4'	2.20	0.41
85:l5:2683:C:H2'	85:l5:2684:C:C6	2.56	0.41
85:l5:3729:U:H2'	85:l5:3730:U:C6	2.56	0.41
85:l5:4348:A:C6	85:l5:4350:C:N3	2.89	0.41
85:l5:4495:G:C2	85:l5:4496:A:N7	2.88	0.41
2:SE:30:ARG:HA	2:SE:30:ARG:HD2	1.79	0.41
2:SE:38:LEU:HD22	79:S2:346:C:H5"	2.02	0.41
3:SI:22:HIS:HB3	79:S2:433:A:H5"	2.02	0.41
5:SX:81:ILE:HD12	5:SX:81:ILE:HA	1.90	0.41
8:SY:37:LYS:HA	8:SY:40:ILE:HD12	2.02	0.41
8:SY:113:ARG:HH12	8:SY:131:PRO:HB2	1.85	0.41
9:Se:18:LYS:HE2	9:Se:18:LYS:HB2	1.72	0.41
15:SC:223:TYR:HD2	79:S2:2:A:H2'	1.85	0.41
85:L5:105:A:O2'	32:LL:35:ARG:NH1	2.54	0.41
85:L5:113:A:OP2	85:L5:156:G:N2	2.48	0.41
85:L5:500:G:N2	85:L5:504:G:O2'	2.42	0.41
85:L5:666:G:H2'	85:L5:668:C:OP1	2.21	0.41
85:L5:749:G:OP1	39:LS:148:SER:OG	2.34	0.41
85:L5:1088:C:H2'	85:L5:1089:G:C8	2.55	0.41
85:L5:1092:G:C6	85:L5:1205:G:C6	3.08	0.41
85:L5:1895:G:H2'	85:L5:1896:A:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2323:C:H2'	85:L5:2324:C:H6	1.85	0.41
85:L5:2694:G:H5'	85:L5:2695:A:C2	2.55	0.41
85:L5:3834:C:C2	85:L5:3835:C:C5	3.09	0.41
85:L5:4052:C:H3'	63:Lz:208:SER:N	2.29	0.41
85:L5:4688:C:H2'	85:L5:4689:U:C6	2.56	0.41
23:LB:90:VAL:HG22	23:LB:104:THR:HG22	2.02	0.41
25:LD:195:HIS:O	25:LD:199:ILE:HG13	2.21	0.41
25:LD:217:ASP:OD2	25:LD:217:ASP:C	2.64	0.41
26:LE:47:ASN:CB	26:LE:62:MET:HE1	2.45	0.41
26:LE:138:ARG:NE	26:LE:169:ALA:O	2.53	0.41
30:LI:52:MET:O	30:LI:135:ILE:N	2.46	0.41
33:LM:29:ASP:H	33:LM:37:LEU:HB3	1.86	0.41
35:LO:6:VAL:HG12	35:LO:32:LYS:HB2	2.02	0.41
35:LO:32:LYS:H	35:LO:32:LYS:HG3	1.68	0.41
39:LS:92:ASN:HD21	40:LT:156:TYR:C	2.27	0.41
39:LS:93:MET:CE	39:LS:95:ARG:HH11	2.28	0.41
44:LY:22:PRO:HD2	44:LY:25:ILE:HD11	2.02	0.41
45:LZ:99:ASP:HA	45:LZ:102:ARG:NE	2.36	0.41
46:La:71:PRO:HG2	46:La:108:TYR:HA	2.03	0.41
51:Lf:102:ARG:HB2	51:Lf:104:MET:HE1	2.03	0.41
56:Lk:49:ASP:OD2	56:Lk:52:LYS:HE3	2.21	0.41
61:Lp:56:HIS:CE1	61:Lp:61:MET:HE1	2.56	0.41
66:SF:122:ARG:HD3	66:SF:146:ARG:HH22	1.86	0.41
70:SS:123:LEU:CD1	70:SS:127:TRP:HE1	2.28	0.41
72:SU:44:LYS:HE2	72:SU:44:LYS:HB2	1.79	0.41
73:Sc:12:ALA:N	73:Sc:56:LEU:O	2.51	0.41
73:Sc:40:ARG:HD2	73:Sc:41:SER:N	2.36	0.41
79:S2:27:A:H2'	79:S2:28:U:C6	2.55	0.41
79:S2:609:U:H2'	79:S2:610:G:C8	2.51	0.41
79:S2:680:G:H2'	79:S2:681:U:C6	2.56	0.41
79:S2:1131:G:H2'	79:S2:1132:C:C6	2.55	0.41
79:S2:1540:G:H2'	79:S2:1541:G:H8	1.84	0.41
88:CF:218:ARG:NH1	88:CF:234:CYS:O	2.52	0.41
63:Lz:198:TRP:CZ3	63:Lz:199:GLN:HG3	2.56	0.41
2:sE:47:PHE:HE2	2:sE:52:LEU:HD11	1.86	0.41
3:sI:190:LEU:HB2	3:sI:195:LEU:HD23	2.02	0.41
6:sG:118:GLU:CD	6:sG:119:LYS:HG3	2.45	0.41
6:sG:137:ARG:HD2	6:sG:178:ARG:HD3	2.01	0.41
7:sJ:122:SER:OG	79:s2:527:C:H5"	2.20	0.41
12:sH:86:LYS:H	12:sH:86:LYS:HG2	1.70	0.41
12:sH:118:ARG:NH2	79:s2:686:U:O2	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:sC:256:TRP:CD1	18:sW:68:ARG:HD3	2.56	0.41
18:sW:87:GLU:OE2	18:sW:87:GLU:N	2.42	0.41
21:l8:11:C:O3'	36:lP:3:ARG:NH1	2.54	0.41
21:l8:58:G:O6	55:lj:63:ARG:NH2	2.54	0.41
21:l8:89:U:H2'	21:l8:90:C:C6	2.55	0.41
23:lB:113:GLU:H	23:lB:113:GLU:HG2	1.71	0.41
24:lC:211:TYR:CD1	24:lC:229:LEU:HD12	2.56	0.41
25:lD:152:ARG:HD2	25:lD:152:ARG:HA	1.95	0.41
25:lD:259:LYS:HA	25:lD:259:LYS:HD3	1.83	0.41
31:lJ:81:GLU:OE1	31:lJ:82:ILE:HG13	2.21	0.41
33:lM:6:PHE:H	33:lM:11:ARG:NH2	2.18	0.41
34:lN:44:ARG:NH1	85:l5:280:G:OP2	2.51	0.41
35:lO:106:ASP:O	85:l5:4910:G:N2	2.53	0.41
36:lP:48:LEU:HB3	36:lP:92:LEU:HG	2.02	0.41
36:lP:84:PRO:HB2	36:lP:87:SER:HB2	2.02	0.41
37:lQ:144:LYS:HE2	37:lQ:149:TYR:CE1	2.56	0.41
40:lT:151:LEU:HD23	40:lT:151:LEU:HA	1.88	0.41
43:lX:63:LYS:HE2	43:lX:63:LYS:HB3	1.67	0.41
45:lZ:42:LEU:HD12	45:lZ:43:VAL:H	1.86	0.41
46:la:74:ASN:HB2	46:la:76:ASP:OD1	2.21	0.41
46:la:146:LEU:HD23	46:la:146:LEU:HA	1.88	0.41
50:le:90:MET:HE1	62:lr:33:LYS:H	1.86	0.41
54:li:15:HIS:HB3	85:l5:72:C:O4'	2.20	0.41
55:lj:42:LYS:H	55:lj:42:LYS:HG2	1.61	0.41
63:lz:2:SER:OG	63:lz:207:LYS:HE2	2.20	0.41
64:sR:10:LYS:HE3	79:s2:1465:A:C2'	2.50	0.41
65:sD:14:ASP:OD2	65:sD:14:ASP:C	2.63	0.41
65:sD:68:GLU:O	65:sD:72:VAL:HG12	2.20	0.41
66:sF:60:ARG:HH11	79:s2:1679:A:H3'	1.85	0.41
66:sF:77:MET:HE1	66:sF:86:LYS:N	2.35	0.41
69:sQ:74:GLY:HA2	79:s2:1545:A:H5'	2.01	0.41
69:sQ:125:ARG:HD2	79:s2:1648:G:N9	2.34	0.41
75:sg:5:MET:HE1	75:sg:291:TRP:CH2	2.55	0.41
75:sg:163:PRO:C	75:sg:179:LEU:HD23	2.46	0.41
77:sZ:50:PHE:CE1	77:sZ:83:LEU:HD13	2.56	0.41
79:s2:14:C:H2'	79:s2:15:U:C6	2.55	0.41
79:s2:43:U:H2'	79:s2:44:U:C5	2.56	0.41
79:s2:463:C:H4'	80:cB:50:ARG:HH22	1.86	0.41
79:s2:482:G:N2	79:s2:484:A:H3'	2.36	0.41
79:s2:1860:A:O2'	79:s2:1862:G:H8	2.02	0.41
80:cB:208:VAL:HG12	80:cB:258:LYS:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:443:TYR:CG	80:cB:478:PHE:HB3	2.56	0.41
80:cB:593:SER:OG	80:cB:602:LEU:HD13	2.20	0.41
80:cB:745:TYR:CD1	80:cB:790:VAL:HG22	2.55	0.41
82:pE:37:A:C8	82:pE:38:A:C8	3.09	0.41
82:pE:52:G:H3'	82:pE:53:G:H8	1.85	0.41
83:ls:44:ARG:NH2	85:l5:1997:U:H4'	2.36	0.41
84:lt:82:ILE:O	84:lt:86:LYS:HG3	2.21	0.41
85:l5:1087:A:H2'	85:l5:1088:C:C6	2.55	0.41
85:l5:1095:A:H2'	85:l5:1096:C:C6	2.55	0.41
85:l5:1670:G:O2'	85:l5:1853:G:H4'	2.21	0.41
85:l5:1857:C:H2'	85:l5:1858:A:C8	2.52	0.41
85:l5:2381:A:H1'	85:l5:2383:C:OP2	2.21	0.41
85:l5:2843:U:O2'	85:l5:4632:U:OP1	2.38	0.41
85:l5:3949:A:O2'	85:l5:3950:U:O5'	2.33	0.41
86:LW:96:GLN:N	86:LW:96:GLN:OE1	2.53	0.41
3:SI:129:LEU:HD12	3:SI:129:LEU:HA	1.95	0.41
5:SX:117:GLY:HA2	5:SX:119:ARG:HH22	1.85	0.41
7:SJ:132:GLN:NE2	79:S2:562:U:H1'	2.36	0.41
10:SA:184:ARG:HG3	10:SA:191:ARG:CZ	2.51	0.41
17:SO:75:MET:HG2	17:SO:118:ALA:HB2	2.02	0.41
85:L5:261:G:C6	85:L5:262:G:C6	3.09	0.41
85:L5:943:A:N6	27:LF:188:GLU:OE2	2.31	0.41
85:L5:1554:A:OP1	61:Lp:5:THR:HG22	2.21	0.41
85:L5:1629:G:H1	22:LA:208:GLU:CD	2.29	0.41
85:L5:1977:C:HO2'	85:L5:1978:C:P	2.44	0.41
85:L5:2034:G:C4	85:L5:2035:C:C5	3.08	0.41
85:L5:2656:U:C4	85:L5:2657:G:C6	3.08	0.41
85:L5:2725:A:N6	38:LR:88:ARG:O	2.53	0.41
85:L5:2824:C:H2'	85:L5:2825:A:C8	2.56	0.41
85:L5:2872:C:N4	85:L5:2878:G:N2	2.68	0.41
85:L5:3719:A:C4	85:L5:3720:G:C8	3.08	0.41
85:L5:4284:C:H2'	85:L5:4285:U:H6	1.86	0.41
85:L5:4287:G:H2'	85:L5:4288:C:C6	2.56	0.41
85:L5:4478:G:H5"	29:LH:170:LYS:HD3	2.03	0.41
85:L5:4761:G:H2'	85:L5:4762:A:H8	1.85	0.41
85:L5:4870:G:H2'	33:LM:91:TRP:CZ2	2.56	0.41
20:L7:1:G:H4'	25:LD:265:ARG:HD3	2.03	0.41
21:L8:44:A:H2'	21:L8:45:C:H6	1.86	0.41
21:L8:145:C:H2'	21:L8:146:U:C6	2.55	0.41
22:LA:101:VAL:HB	22:LA:165:VAL:HG12	2.02	0.41
23:LB:46:PHE:N	23:LB:347:LEU:O	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:LB:168:MET:N	23:LB:168:MET:SD	2.93	0.41
23:LB:288:GLY:HA3	23:LB:330:PHE:CE2	2.56	0.41
25:LD:213:GLU:OE2	25:LD:213:GLU:N	2.54	0.41
26:LE:174:LEU:CD2	26:LE:217:PHE:CZ	3.03	0.41
28:LG:223:ARG:HA	28:LG:227:ASN:OD1	2.21	0.41
29:LH:92:MET:SD	29:LH:180:TYR:CA	3.08	0.41
31:LJ:108:GLY:O	31:LJ:109:ILE:HD13	2.21	0.41
33:LM:28:VAL:HG12	33:LM:29:ASP:OD1	2.21	0.41
34:LN:85:VAL:HA	60:Lo:49:GLY:HA2	2.03	0.41
35:LO:113:ASP:OD1	35:LO:113:ASP:N	2.51	0.41
39:LS:36:ASN:OD1	39:LS:38:VAL:N	2.54	0.41
39:LS:98:ARG:HD2	39:LS:142:VAL:HB	2.03	0.41
51:Lf:8:LYS:H	51:Lf:8:LYS:HG2	1.64	0.41
56:Lk:69:LEU:HD23	56:Lk:69:LEU:HA	1.91	0.41
65:SD:202:LYS:HB2	65:SD:202:LYS:HE3	1.84	0.41
66:SF:128:ILE:HD12	66:SF:129:GLY:N	2.36	0.41
66:SF:129:GLY:C	66:SF:135:ARG:HH22	2.28	0.41
68:SP:47:ARG:HH21	79:S2:1619:A:P	2.44	0.41
70:SS:10:GLN:OE1	70:SS:12:ILE:N	2.53	0.41
75:Sg:176:VAL:O	75:Sg:184:LEU:HD12	2.21	0.41
76:SM:33:ARG:HD3	76:SM:33:ARG:H	1.85	0.41
77:SZ:92:LEU:HD13	77:SZ:99:LEU:HD11	2.03	0.41
79:S2:113:G:N2	79:S2:292:A:H2'	2.36	0.41
79:S2:149:A:C2	79:S2:150:A:H1'	2.55	0.41
79:S2:192:C:H2'	79:S2:193:C:C6	2.55	0.41
79:S2:674:C:H42	79:S2:1031:A:H61	1.68	0.41
79:S2:942:G:H2'	79:S2:943:U:C6	2.55	0.41
79:S2:1049:A:OP2	79:S2:1068:G:N1	2.35	0.41
79:S2:1202:U:H2'	79:S2:1203:G:O4'	2.21	0.41
79:S2:1395:C:H1'	79:S2:1474:A:C5	2.56	0.41
79:S2:1533:A:C8	79:S2:1604:G:H1'	2.56	0.41
87:AT:18:G:N3	87:AT:58:G:N1	2.69	0.41
87:AT:37:C:C2	87:AT:38:A:C8	3.08	0.41
63:Lz:207:LYS:HZ3	63:Lz:214:GLN:H	1.69	0.41
83:Ls:6:ARG:CZ	83:Ls:10:LYS:HB3	2.51	0.41
1:cH:96:ALA:CA	1:cH:106:ILE:HD11	2.51	0.41
2:sE:42:LEU:HD13	2:sE:109:PHE:HB2	2.03	0.41
2:sE:159:THR:OG1	2:sE:227:VAL:HG13	2.21	0.41
2:sE:181:CYS:HB3	2:sE:195:ILE:HD11	2.03	0.41
2:sE:242:LYS:HA	2:sE:242:LYS:HD3	1.96	0.41
4:sL:13:GLN:OE1	4:sL:36:TYR:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:sY:23:MET:HE2	8:sY:23:MET:C	2.46	0.41
8:sY:42:GLU:HA	8:sY:45:ALA:HB3	2.03	0.41
8:sY:83:LYS:HZ1	8:sY:96:LEU:HB3	1.85	0.41
9:se:21:LYS:HD3	79:s2:636:C:OP1	2.20	0.41
10:sA:151:ASP:OD1	10:sA:151:ASP:C	2.63	0.41
11:sB:147:ASN:OD1	11:sB:147:ASN:N	2.39	0.41
12:sH:82:GLU:O	12:sH:86:LYS:HG2	2.21	0.41
14:sa:2:THR:HB	79:s2:1199:A:H5"	2.02	0.41
15:sC:91:SER:O	15:sC:94:ILE:HG12	2.20	0.41
20:l7:55:A:O2'	31:lJ:151:ILE:O	2.22	0.41
21:l8:55:U:C2	21:l8:56:G:C8	3.08	0.41
21:l8:74:U:O4	44:lY:72:GLN:NE2	2.54	0.41
23:lB:136:LYS:HA	23:lB:139:ASP:OD1	2.21	0.41
23:lB:329:ASP:OD1	23:lB:330:PHE:N	2.54	0.41
24:lC:350:ARG:HD2	85:l5:724:C:OP1	2.21	0.41
25:lD:76:CYS:SG	25:lD:108:ARG:HG2	2.61	0.41
28:lG:170:LEU:HD12	28:lG:201:THR:HG21	2.02	0.41
29:lH:95:VAL:HG12	58:lm:82:LEU:HD22	2.02	0.41
31:lJ:48:PRO:HB2	31:lJ:70:VAL:CG2	2.51	0.41
31:lJ:99:PHE:CD1	31:lJ:105:PHE:HB3	2.56	0.41
32:lL:58:ILE:HD11	32:lL:116:ARG:HD2	2.02	0.41
32:lL:181:SER:HB2	54:li:7:MET:HE1	2.03	0.41
37:lQ:183:SER:OG	37:lQ:184:ARG:NH1	2.53	0.41
38:lR:125:LEU:HD23	38:lR:125:LEU:HA	1.83	0.41
41:lU:24:ASP:N	41:lU:110:TYR:O	2.54	0.41
44:lY:35:SER:N	44:lY:106:ILE:O	2.53	0.41
45:lZ:103:ASP:CG	45:lZ:106:LEU:H	2.29	0.41
46:la:2:PRO:HD3	85:l5:1509:C:H5"	2.01	0.41
50:le:64:LYS:HE3	85:l5:2079:G:OP1	2.21	0.41
51:lf:105:LEU:HD23	51:lf:105:LEU:HA	1.91	0.41
52:lg:88:ARG:O	52:lg:92:LYS:HG3	2.21	0.41
65:sD:163:PRO:HD2	79:s2:1388:A:H61	1.85	0.41
66:sF:133:THR:HG23	66:sF:134:VAL:H	1.85	0.41
71:sT:3:GLY:HA2	79:s2:1424:G:H21	1.85	0.41
71:sT:31:PRO:HG2	71:sT:33:TRP:NE1	2.35	0.41
72:sU:94:PRO:HG2	72:sU:96:GLU:OE2	2.21	0.41
74:sd:32:ARG:NH2	79:s2:1661:A:OP2	2.54	0.41
75:sg:121:VAL:HG13	75:sg:131:LEU:HD13	2.01	0.41
75:sg:147:HIS:NE2	75:sg:175:LYS:HG2	2.35	0.41
75:sg:289:LEU:HD11	75:sg:298:LEU:HD11	2.01	0.41
79:s2:210:U:H2'	79:s2:211:G:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:402:C:C2	79:s2:403:G:C8	3.09	0.41
79:s2:570:C:H2'	79:s2:571:U:O4'	2.21	0.41
79:s2:629:A:C5	79:s2:632:C:C4	3.09	0.41
79:s2:832:G:C2	79:s2:843:C:C2	3.09	0.41
79:s2:1367:U:H6	79:s2:1367:U:O5'	2.04	0.41
79:s2:1541:G:N2	79:s2:1593:C:C2	2.89	0.41
79:s2:1566:G:C2	79:s2:1570:G:C6	3.08	0.41
79:s2:1685:U:H2'	79:s2:1686:G:O4'	2.21	0.41
80:cB:10:ARG:HD3	80:cB:463:ASP:O	2.21	0.41
80:cB:24:VAL:HG12	80:cB:126:LEU:HD23	2.02	0.41
80:cB:857:LYS:HD2	80:cB:857:LYS:HA	1.82	0.41
81:aP:42:A:H2'	81:aP:43:A:C8	2.55	0.41
83:ls:40:MET:O	83:ls:44:ARG:HB2	2.21	0.41
85:l5:112:C:C2	85:l5:113:A:C8	3.08	0.41
85:l5:163:A:H2'	85:l5:164:G:H8	1.86	0.41
85:l5:652:G:H2'	85:l5:653:U:O4'	2.21	0.41
85:l5:662:C:N4	85:l5:663:G:O6	2.53	0.41
85:l5:1100:U:H1'	85:l5:1167:C:H42	1.86	0.41
85:l5:1175:A:H2	85:l5:1185:G:N1	2.16	0.41
85:l5:1395:U:O2	85:l5:1469:C:H4'	2.21	0.41
85:l5:3827:G:O2'	85:l5:3829:G:OP2	2.35	0.41
85:l5:4189:U:H2'	85:l5:4190:U:O4'	2.20	0.41
85:l5:4192:A:H2'	85:l5:4193:C:H6	1.86	0.41
85:l5:4601:U:H2'	85:l5:4602:A:H8	1.86	0.41
2:SE:62:LYS:CD	2:SE:66:MET:HE1	2.48	0.41
4:SL:52:GLU:N	4:SL:52:GLU:OE1	2.54	0.41
4:SL:65:ASN:HB3	79:S2:294:U:C4	2.56	0.41
7:SJ:104:ASP:HA	7:SJ:107:GLU:HG3	2.02	0.41
8:SY:43:LYS:O	8:SY:46:LYS:HG3	2.21	0.41
11:SB:162:ARG:O	11:SB:166:LYS:HG2	2.21	0.41
12:SH:157:HIS:HA	12:SH:188:GLU:O	2.21	0.41
85:L5:109:G:H5'	32:LL:92:ARG:HE	1.86	0.41
85:L5:122:U:H2'	85:L5:123:C:H6	1.85	0.41
85:L5:735:G:H5"	33:LM:70:GLN:OE1	2.21	0.41
85:L5:939:G:H2'	85:L5:940:C:C6	2.55	0.41
85:L5:1407:C:O2'	85:L5:1408:G:H5'	2.21	0.41
85:L5:1450:C:H2'	85:L5:1451:G:O4'	2.21	0.41
85:L5:1634:A:C6	85:L5:1635:C:C4	3.08	0.41
85:L5:1870:C:C2	85:L5:1871:A:C8	3.09	0.41
85:L5:1902:G:H2'	85:L5:1903:G:H8	1.86	0.41
85:L5:1993:C:H2'	85:L5:1994:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1996:C:H2'	85:L5:1997:U:C1'	2.48	0.41
85:L5:2275:G:H1'	27:LF:165:LYS:HG2	2.03	0.41
85:L5:2529:A:H2'	85:L5:2532:C:H41	1.86	0.41
85:L5:2580:U:O2'	45:LZ:79:HIS:ND1	2.54	0.41
85:L5:2581:A:H1'	85:L5:2654:C:O2'	2.21	0.41
85:L5:2722:G:H2'	85:L5:2723:U:C6	2.56	0.41
85:L5:2862:G:N3	85:L5:3624:A:H2'	2.35	0.41
85:L5:3648:A:H1'	85:L5:3785:A:N6	2.36	0.41
85:L5:3766:A:H2	79:S2:1828:C:H4'	1.86	0.41
85:L5:3794:C:H2'	85:L5:3795:A:H8	1.85	0.41
85:L5:3795:A:C6	85:L5:3796:U:C4	3.08	0.41
85:L5:4045:G:O6	85:L5:4048:A:H3'	2.20	0.41
85:L5:4561:C:C2	85:L5:4562:C:C5	3.09	0.41
85:L5:4928:C:H6	33:LM:118:MET:HE1	1.86	0.41
20:L7:58:A:H2'	20:L7:59:G:H8	1.86	0.41
21:L8:96:C:H5"	53:Lh:66:LYS:HG2	2.03	0.41
25:LD:89:LYS:HD2	25:LD:229:ASN:ND2	2.36	0.41
27:LF:67:THR:HA	27:LF:70:ARG:HG2	2.02	0.41
27:LF:188:GLU:HA	27:LF:191:ILE:HD12	2.03	0.41
29:LH:4:ILE:HG12	39:LS:144:GLN:CD	2.45	0.41
29:LH:59:LYS:HE3	29:LH:66:GLU:HG3	2.03	0.41
30:LI:71:CYS:HB3	30:LI:158:LYS:HE2	2.02	0.41
35:LO:183:LYS:O	35:LO:186:GLU:OE1	2.39	0.41
46:La:89:ASN:OD1	46:La:89:ASN:N	2.53	0.41
48:Lc:48:LEU:HA	48:Lc:48:LEU:HD22	1.89	0.41
49:Ld:49:ILE:HD13	49:Ld:68:LEU:HD21	2.01	0.41
67:SK:16:PHE:HZ	67:SK:80:ARG:HH12	1.67	0.41
68:SP:41:GLN:HG3	68:SP:84:ILE:HG12	2.02	0.41
69:SQ:138:ARG:NH2	79:S2:1647:A:OP1	2.51	0.41
71:ST:41:LYS:HD2	79:S2:1627:C:H4'	2.03	0.41
71:ST:52:TRP:O	71:ST:55:THR:OG1	2.30	0.41
71:ST:77:LYS:NZ	79:S2:1587:G:H2'	2.36	0.41
71:ST:105:GLN:HG2	71:ST:105:GLN:H	1.65	0.41
76:SM:42:LEU:HD22	76:SM:74:ILE:HD13	2.02	0.41
79:S2:23:G:O2'	79:S2:416:U:OP1	2.36	0.41
79:S2:420:G:O2'	79:S2:421:G:OP1	2.39	0.41
79:S2:464:A:N7	88:CF:37:ARG:NH2	2.69	0.41
79:S2:529:A:H61	79:S2:555:A:H61	1.68	0.41
79:S2:550:C:H2'	79:S2:551:U:H6	1.84	0.41
79:S2:1144:A:H2	79:S2:1199:A:H4'	1.86	0.41
79:S2:1416:C:N4	79:S2:1417:C:H41	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1617:G:N2	79:S2:1619:A:H3'	2.36	0.41
79:S2:1658:G:OP2	79:S2:1660:C:N4	2.54	0.41
89:Pt:62:C:H2'	89:Pt:63:G:C8	2.56	0.41
1:cH:130:LEU:HD23	1:cH:130:LEU:N	2.36	0.41
2:sE:86:PHE:HA	2:sE:101:LEU:HD22	2.03	0.41
3:sI:86:SER:HB2	79:s2:376:A:N3	2.35	0.41
6:sG:191:ARG:CZ	79:s2:312:G:H2'	2.51	0.41
8:sY:6:THR:C	8:sY:7:ILE:HD13	2.46	0.41
10:sA:215:GLN:O	10:sA:219:GLU:HG2	2.20	0.41
11:sB:98:THR:OG1	11:sB:99:ASN:N	2.54	0.41
13:sV:60:ARG:HG3	13:sV:65:SER:CB	2.49	0.41
14:sa:52:ASP:HB2	17:sO:121:ARG:HH21	1.85	0.41
16:sN:138:ASN:OD1	16:sN:138:ASN:C	2.63	0.41
17:sO:135:ILE:HD13	17:sO:135:ILE:HA	1.81	0.41
20:l7:82:G:H2'	20:l7:83:A:C8	2.55	0.41
21:l8:7:U:H2'	21:l8:8:U:C6	2.56	0.41
21:l8:28:C:C2	21:l8:29:G:C8	3.09	0.41
22:lA:30:ARG:O	22:lA:163:ARG:NH1	2.38	0.41
22:lA:44:ILE:HG22	22:lA:87:PHE:CD1	2.55	0.41
22:lA:50:HIS:HD2	85:l5:2741:U:H2'	1.85	0.41
22:lA:58:LEU:HD23	22:lA:58:LEU:HA	1.74	0.41
22:lA:115:CYS:O	22:lA:164:ALA:HA	2.21	0.41
23:lB:99:LEU:HD13	23:lB:99:LEU:HA	1.97	0.41
23:lB:103:LYS:HD2	23:lB:103:LYS:HA	1.95	0.41
23:lB:333:LEU:HD23	23:lB:333:LEU:HA	1.88	0.41
25:lD:112:ARG:HD2	25:lD:112:ARG:O	2.20	0.41
26:lE:46:ARG:O	26:lE:65:ARG:NH2	2.39	0.41
27:lF:31:LYS:HE3	27:lF:31:LYS:HB2	1.91	0.41
27:lF:35:LYS:NZ	85:l5:2096:G:H21	2.18	0.41
27:lF:46:ARG:NE	85:l5:1705:G:H21	2.18	0.41
28:lG:147:VAL:HG13	28:lG:179:VAL:HG11	2.02	0.41
28:lG:229:ARG:CD	28:lG:232:GLU:OE2	2.69	0.41
29:lH:128:MET:H	29:lH:128:MET:HG2	1.64	0.41
30:lI:43:VAL:O	30:lI:171:TRP:NE1	2.28	0.41
30:lI:43:VAL:HG21	30:lI:192:PRO:HB3	2.03	0.41
31:lJ:44:THR:HG22	31:lJ:82:ILE:HD13	2.03	0.41
36:lP:139:TYR:CE2	85:l5:2421:G:H1'	2.56	0.41
37:lQ:22:ASP:OD2	37:lQ:25:LEU:N	2.36	0.41
38:lR:137:ILE:HD13	38:lR:137:ILE:HA	1.82	0.41
38:lR:142:ILE:O	38:lR:146:LYS:HG3	2.20	0.41
39:lS:139:ARG:NE	85:l5:1952:G:OP1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:lU:61:VAL:HG23	41:lU:74:SER:CB	2.37	0.41
43:lX:53:ARG:HD2	85:l5:2475:G:C2	2.55	0.41
44:lY:53:ASP:OD2	44:lY:115:ARG:NH1	2.53	0.41
45:lZ:17:ARG:HD3	52:lg:75:SER:HB3	2.02	0.41
46:la:23:GLY:N	85:l5:1852:U:OP1	2.44	0.41
49:ld:46:LEU:CD2	49:ld:64:ILE:HD13	2.50	0.41
49:ld:57:MET:HE2	49:ld:90:ARG:HB2	2.02	0.41
50:le:7:LEU:HD23	50:le:7:LEU:HA	1.79	0.41
51:lf:46:ARG:HD3	51:lf:71:TRP:CE3	2.55	0.41
55:lj:75:ARG:CZ	55:lj:75:ARG:HB2	2.50	0.41
60:lo:22:LYS:O	60:lo:22:LYS:HG3	2.20	0.41
63:lz:29:LEU:HB3	63:lz:171:HIS:ND1	2.36	0.41
63:lz:39:LYS:HD3	63:lz:39:LYS:HA	1.84	0.41
63:lz:45:LYS:HB3	63:lz:45:LYS:HE3	1.95	0.41
63:lz:55:LEU:HG	63:lz:182:ASN:HD21	1.86	0.41
64:sR:10:LYS:HG2	79:s2:1366:G:C2	2.56	0.41
64:sR:13:ALA:O	64:sR:17:ILE:HD12	2.21	0.41
64:sR:50:ILE:HD11	79:s2:1370:A:N1	2.36	0.41
65:sD:9:ARG:NH2	79:s2:1552:G:H4'	2.36	0.41
65:sD:37:VAL:HG22	65:sD:38:GLU:H	1.86	0.41
65:sD:122:VAL:O	65:sD:126:ILE:HG22	2.20	0.41
66:sF:17:ILE:HG21	66:sF:46:ALA:HB1	2.03	0.41
66:sF:42:LYS:HE3	66:sF:43:GLU:H	1.86	0.41
66:sF:72:LEU:HD23	66:sF:72:LEU:HA	1.93	0.41
66:sF:155:CYS:HG	66:sF:159:ARG:HH22	1.64	0.41
67:sK:32:HIS:CD2	67:sK:45:VAL:HG11	2.56	0.41
69:sQ:81:ILE:HA	69:sQ:84:ILE:HG12	2.03	0.41
72:sU:61:LEU:HD12	72:sU:82:MET:HG2	2.01	0.41
75:sg:5:MET:HB3	75:sg:270:LEU:HD11	2.02	0.41
75:sg:37:ASP:O	75:sg:39:THR:HG23	2.20	0.41
75:sg:218:LEU:HD23	75:sg:228:TYR:HB3	2.03	0.41
76:sM:61:TYR:OH	79:s2:1285:G:OP2	2.39	0.41
77:sZ:68:ILE:HG13	77:sZ:109:TYR:HB2	2.02	0.41
77:sZ:106:GLN:NE2	77:sZ:107:VAL:N	2.67	0.41
79:s2:492:C:N4	79:s2:507:G:OP2	2.45	0.41
79:s2:891:G:O2'	79:s2:892:U:O3'	2.31	0.41
79:s2:1035:A:H2'	79:s2:1036:A:O4'	2.21	0.41
79:s2:1036:A:H4'	79:s2:1855:G:H21	1.84	0.41
79:s2:1253:A:H4'	79:s2:1254:C:H5"	2.03	0.41
79:s2:1259:A:H3'	79:s2:1259:A:N3	2.36	0.41
79:s2:1281:G:C6	79:s2:1282:A:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:s2:1474:A:H2'	79:s2:1475:G:C8	2.56	0.41
79:s2:1630:A:C6	79:s2:1631:U:C5	3.08	0.41
79:s2:1802:C:C2	79:s2:1803:U:C5	3.08	0.41
79:s2:1802:C:H2'	79:s2:1803:U:H6	1.86	0.41
80:cB:143:LEU:HD21	80:cB:188:ILE:HD11	2.02	0.41
80:cB:439:LYS:HD2	80:cB:439:LYS:C	2.45	0.41
80:cB:451:ILE:HD11	80:cB:458:VAL:HB	2.02	0.41
80:cB:731:ALA:O	80:cB:735:THR:HG23	2.21	0.41
80:cB:776:VAL:HG22	80:cB:781:MET:O	2.21	0.41
83:ls:14:PHE:HE1	83:ls:60:MET:SD	2.44	0.41
84:lt:12:VAL:HG21	84:lt:65:GLN:HG3	2.01	0.41
84:lt:54:LYS:NZ	84:lt:81:ILE:HD13	2.36	0.41
85:l5:326:C:O2'	85:l5:327:U:H5'	2.21	0.41
85:l5:450:G:H2'	85:l5:451:C:C6	2.55	0.41
85:l5:650:C:H2'	85:l5:651:C:H6	1.86	0.41
85:l5:714:G:H2'	85:l5:715:G:H8	1.85	0.41
85:l5:1074:G:H3'	85:l5:1075:G:H8	1.86	0.41
85:l5:1080:C:C2	85:l5:1220:G:C2	3.09	0.41
85:l5:1352:C:O2'	85:l5:1356:U:OP1	2.36	0.41
85:l5:1468:C:H2'	85:l5:1469:C:H6	1.86	0.41
85:l5:1643:A:H2'	85:l5:1644:C:C6	2.54	0.41
85:l5:1727:U:H2'	85:l5:1728:U:H6	1.85	0.41
85:l5:2519:U:C2	85:l5:2520:C:C5	3.08	0.41
85:l5:3684:G:H2'	85:l5:3685:C:C6	2.56	0.41
85:l5:3970:G:H4'	85:l5:4052:C:N4	2.35	0.41
85:l5:4153:C:H2'	85:l5:4154:G:C8	2.55	0.41
85:l5:4924:C:H2'	85:l5:4925:U:C6	2.56	0.41
86:LW:19:ARG:O	86:LW:30:GLN:NE2	2.54	0.41
86:LW:71:ARG:H	86:LW:71:ARG:HG2	1.68	0.41
2:SE:57:THR:H	2:SE:60:GLU:HG2	1.85	0.41
2:SE:188:ASN:OD1	2:SE:188:ASN:N	2.53	0.41
3:SI:67:TRP:HD1	3:SI:189:VAL:HG11	1.85	0.41
3:SI:106:SER:HB2	3:SI:166:PHE:CE1	2.56	0.41
3:SI:158:ILE:HG22	3:SI:162:LEU:HB3	2.03	0.41
4:SL:85:THR:O	4:SL:86:ILE:HD13	2.20	0.41
7:SJ:114:VAL:HG12	7:SJ:157:ILE:HG21	2.02	0.41
10:SA:27:GLY:HA3	10:SA:28:THR:HA	1.80	0.41
10:SA:206:ASP:HB2	10:SA:209:GLU:HG2	2.02	0.41
10:SA:208:GLU:OE2	10:SA:208:GLU:N	2.54	0.41
12:SH:138:GLU:HB2	12:SH:159:ASP:OD1	2.21	0.41
14:Sa:28:ARG:HB2	17:SO:147:ARG:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:SC:242:ASP:O	15:SC:246:LYS:HG2	2.20	0.41
16:SN:50:ILE:HG13	16:SN:50:ILE:H	1.65	0.41
16:SN:71:ILE:O	16:SN:74:ILE:N	2.54	0.41
17:SO:29:GLY:N	17:SO:92:ALA:O	2.53	0.41
17:SO:63:LYS:HD2	17:SO:63:LYS:HA	1.80	0.41
17:SO:139:SER:HB3	79:S2:983:A:C2	2.53	0.41
18:SW:11:LEU:HD11	18:SW:37:PHE:CE1	2.56	0.41
19:Sb:42:LYS:HZ1	19:Sb:58:GLY:N	2.17	0.41
19:Sb:68:GLY:HA2	79:S2:928:G:H21	1.86	0.41
85:L5:25:A:H2'	85:L5:26:C:C6	2.51	0.41
85:L5:28:C:OP1	34:LN:190:ALA:HB2	2.21	0.41
85:L5:90:G:OP2	60:Lo:40:ARG:NH1	2.53	0.41
85:L5:99:A:H2'	85:L5:100:C:O2	2.21	0.41
85:L5:128:C:H2'	85:L5:129:C:C6	2.55	0.41
85:L5:135:G:H22	53:Lh:94:ARG:HG2	1.86	0.41
85:L5:361:C:N3	85:L5:378:A:H2'	2.35	0.41
85:L5:468:U:N3	85:L5:686:A:N1	2.68	0.41
85:L5:497:G:N2	85:L5:498:C:H41	2.19	0.41
85:L5:690:C:H2'	85:L5:691:C:H6	1.85	0.41
85:L5:725:G:H2'	85:L5:726:G:H8	1.85	0.41
85:L5:759:G:C2	85:L5:905:C:C2	3.09	0.41
85:L5:1278:C:H2'	85:L5:1279:A:O4'	2.20	0.41
85:L5:1308:C:H2'	85:L5:1309:C:H6	1.86	0.41
85:L5:1415:G:C4	85:L5:1416:G:C8	3.09	0.41
85:L5:1562:G:H5'	85:L5:1563:A:OP2	2.21	0.41
85:L5:1631:A:C2	22:LA:204:MET:CE	3.04	0.41
85:L5:1721:G:H2'	85:L5:1722:C:C6	2.56	0.41
85:L5:1778:C:C2	85:L5:1779:U:C5	3.09	0.41
85:L5:1808:C:C2	85:L5:1831:G:N2	2.89	0.41
85:L5:1954:U:H2'	85:L5:1955:G:O4'	2.21	0.41
85:L5:2073:C:H2'	85:L5:2074:C:C6	2.56	0.41
85:L5:2270:G:H2'	85:L5:2271:C:H6	1.85	0.41
85:L5:2417:A:C4	85:L5:2418:A:C8	3.08	0.41
85:L5:2458:C:H1'	85:L5:3671:G:H21	1.86	0.41
85:L5:2521:G:C6	85:L5:2535:G:N1	2.88	0.41
85:L5:2890:C:H2'	85:L5:2891:U:H6	1.85	0.41
85:L5:3688:U:H2'	85:L5:3689:G:H8	1.85	0.41
85:L5:3696:C:C4	85:L5:3697:U:C4	3.09	0.41
85:L5:3733:A:H2'	85:L5:3734:U:O4'	2.20	0.41
85:L5:3853:U:C2	85:L5:3854:C:C5	3.09	0.41
85:L5:3951:G:H1	85:L5:4060:U:H3	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4067:U:H3'	85:L5:4068:U:C6	2.54	0.41
85:L5:4146:G:H2'	85:L5:4147:G:C8	2.56	0.41
85:L5:4197:G:C4	85:L5:4198:G:C8	3.09	0.41
85:L5:4240:G:C6	85:L5:4241:C:C4	3.09	0.41
85:L5:4293:U:O4	85:L5:4329:G:H8	2.04	0.41
85:L5:4401:G:C4	85:L5:4402:C:C5	3.09	0.41
85:L5:4441:A:C6	85:L5:4442:U:C4	3.09	0.41
85:L5:4566:U:O2'	23:LB:269:ALA:O	2.36	0.41
85:L5:4658:G:C6	85:L5:4659:G:C5	3.09	0.41
21:L8:36:G:C5	53:Lh:89:ARG:HD3	2.56	0.41
21:L8:96:C:H2'	21:L8:97:A:C8	2.55	0.41
21:L8:141:C:C2	21:L8:142:U:C5	3.09	0.41
21:L8:144:U:H2'	21:L8:145:C:H6	1.86	0.41
23:LB:119:TYR:OH	23:LB:128:LYS:N	2.54	0.41
23:LB:294:LYS:HE2	23:LB:294:LYS:HB2	1.95	0.41
23:LB:315:ASN:ND2	23:LB:326:VAL:H	2.19	0.41
23:LB:371:THR:O	23:LB:373:LYS:NZ	2.54	0.41
24:LC:322:LEU:HD12	24:LC:322:LEU:HA	1.87	0.41
25:LD:54:ARG:HH22	25:LD:147:ASP:CG	2.27	0.41
25:LD:228:LYS:C	25:LD:230:SER:H	2.28	0.41
25:LD:247:ILE:HG13	25:LD:247:ILE:H	1.63	0.41
26:LE:74:SER:HA	47:Lb:117:ARG:HB3	2.03	0.41
27:LF:243:LEU:HD12	27:LF:243:LEU:HA	1.88	0.41
29:LH:53:LYS:HA	29:LH:53:LYS:HD2	1.76	0.41
30:LI:15:LYS:O	30:LI:16:PRO:C	2.63	0.41
31:LJ:87:LEU:H	31:LJ:87:LEU:HD23	1.86	0.41
32:LL:8:MET:CE	37:LQ:168:ARG:HA	2.42	0.41
32:LL:97:SER:O	32:LL:97:SER:OG	2.37	0.41
34:LN:51:LEU:CD1	34:LN:117:ASN:ND2	2.78	0.41
34:LN:146:PRO:C	34:LN:148:THR:N	2.79	0.41
34:LN:160:GLU:OE2	34:LN:161:MET:HG2	2.20	0.41
34:LN:185:GLY:H	34:LN:191:ALA:HB2	1.86	0.41
35:LO:99:LEU:HD12	35:LO:99:LEU:HA	1.92	0.41
37:LQ:35:LEU:HD23	37:LQ:35:LEU:HA	1.87	0.41
41:LU:56:LEU:C	41:LU:58:GLY:H	2.29	0.41
44:LY:44:VAL:HG11	44:LY:122:LYS:HD3	2.01	0.41
45:LZ:120:GLU:OE2	45:LZ:120:GLU:HA	2.21	0.41
46:La:95:THR:OG1	46:La:96:GLY:N	2.54	0.41
49:Ld:119:THR:O	49:Ld:119:THR:OG1	2.35	0.41
50:Le:88:LEU:HD11	50:Le:95:TYR:HB2	2.02	0.41
54:Li:34:THR:OG1	54:Li:37:THR:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Lr:30:ASN:O	62:Lr:30:ASN:CG	2.64	0.41
62:Lr:119:ARG:HD2	62:Lr:122:LYS:HD3	2.03	0.41
65:SD:69:LEU:O	65:SD:73:VAL:HG23	2.20	0.41
65:SD:97:CYS:O	65:SD:101:GLN:HG2	2.21	0.41
65:SD:217:ILE:HG13	65:SD:219:PRO:HD3	2.03	0.41
66:SF:108:PRO:HA	66:SF:111:VAL:HG22	2.02	0.41
67:SK:64:TRP:CE3	74:Sd:23:VAL:HG22	2.56	0.41
69:SQ:33:LYS:HG2	69:SQ:38:PRO:HA	2.03	0.41
70:SS:23:ARG:HH21	77:SZ:80:ARG:NE	2.13	0.41
70:SS:139:THR:HB	79:S2:1230:C:OP2	2.21	0.41
71:ST:3:GLY:HA3	71:ST:4:VAL:HA	1.81	0.41
71:ST:42:HIS:HB2	71:ST:83:GLN:HB2	2.02	0.41
72:SU:37:ALA:HB1	72:SU:41:ARG:CZ	2.49	0.41
75:Sg:42:MET:HE3	75:Sg:43:TRP:CA	2.51	0.41
75:Sg:45:LEU:HD13	75:Sg:52:TYR:CE2	2.56	0.41
76:SM:87:GLU:HA	76:SM:92:CYS:SG	2.61	0.41
78:Sf:97:LYS:O	78:Sf:99:LYS:HG2	2.20	0.41
78:Sf:135:HIS:HE2	78:Sf:140:TYR:HB3	1.86	0.41
79:S2:5:U:H2'	79:S2:6:G:H8	1.85	0.41
79:S2:146:G:H1	79:S2:173:A:N6	2.19	0.41
79:S2:187:G:C6	79:S2:188:C:C4	3.09	0.41
79:S2:420:G:O2'	79:S2:660:C:N3	2.52	0.41
79:S2:543:C:H3'	79:S2:544:G:C8	2.56	0.41
79:S2:694:G:H2'	79:S2:695:C:C4'	2.51	0.41
79:S2:695:C:H5"	79:S2:696:G:O4'	2.21	0.41
79:S2:845:G:H2'	79:S2:846:G:C8	2.56	0.41
79:S2:872:A:HO2'	79:S2:873:G:P	2.44	0.41
79:S2:1010:G:H2'	79:S2:1011:A:H8	1.83	0.41
79:S2:1041:G:N1	79:S2:1075:C:N3	2.68	0.41
79:S2:1172:U:H2'	79:S2:1173:A:H8	1.85	0.41
79:S2:1334:G:H2'	79:S2:1335:G:C8	2.56	0.41
79:S2:1374:C:O2'	79:S2:1464:C:O2	2.32	0.41
79:S2:1402:A:N6	79:S2:1441:U:O2'	2.54	0.41
79:S2:1418:C:H4'	79:S2:1420:G:H21	1.86	0.41
79:S2:1511:U:H2'	79:S2:1512:C:H6	1.86	0.41
79:S2:1549:U:H2'	79:S2:1550:G:C8	2.56	0.41
79:S2:1563:G:C6	79:S2:1573:G:C6	3.09	0.41
79:S2:1667:U:H2'	79:S2:1668:U:H6	1.85	0.41
79:S2:1785:C:H2'	79:S2:1786:U:O4'	2.21	0.41
79:S2:1825:A:H61	87:AT:37:C:H42	1.69	0.41
87:AT:2:U:H2'	87:AT:3:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
87:AT:51:U:O4	87:AT:65:G:O6	2.39	0.41
88:CF:387:LEU:HB2	88:CF:388:GLU:OE1	2.21	0.41
84:Lt:109:ILE:O	84:Lt:112:ILE:HG13	2.21	0.41
84:Lt:147:HIS:NE2	84:Lt:149:HIS:HB3	2.35	0.41
63:Lz:198:TRP:CG	63:Lz:199:GLN:H	2.39	0.41
83:Ls:98:ILE:HD12	83:Ls:98:ILE:HA	1.93	0.41
4:sL:147:LYS:HD3	4:sL:147:LYS:HA	1.89	0.41
6:sG:46:LYS:HD3	6:sG:47:GLY:N	2.36	0.41
7:sJ:26:ASP:OD1	7:sJ:26:ASP:N	2.52	0.41
8:sY:104:ARG:HE	8:sY:108:LYS:HE2	1.86	0.41
14:sa:71:LEU:HD23	14:sa:71:LEU:HA	1.77	0.41
22:lA:223:SER:OG	85:l5:3748:A:O2'	2.15	0.41
23:lB:276:HIS:ND1	85:l5:4716:C:OP1	2.53	0.41
24:lC:154:VAL:HG12	24:lC:155:GLU:N	2.36	0.41
24:lC:204:ARG:HD2	85:l5:2299:G:OP2	2.21	0.41
25:lD:180:PHE:HB2	25:lD:190:PHE:CE1	2.56	0.41
26:lE:199:THR:HG21	33:lM:107:PHE:HB2	2.03	0.41
27:lF:71:MET:HA	27:lF:74:MET:HE2	2.03	0.41
28:lG:106:THR:CG2	28:lG:109:GLU:HG3	2.51	0.41
29:lH:48:LEU:HD21	29:lH:56:ARG:HB2	2.02	0.41
29:lH:107:GLU:OE1	29:lH:107:GLU:N	2.54	0.41
30:lI:193:ASP:OD2	30:lI:193:ASP:O	2.38	0.41
32:lL:24:THR:HG21	32:lL:26:PHE:CE2	2.56	0.41
49:ld:36:VAL:HG21	49:ld:44:ARG:HG2	2.02	0.41
55:lj:72:ARG:HA	55:lj:75:ARG:NH1	2.36	0.41
64:sR:60:ARG:HD2	79:s2:1464:C:C5'	2.46	0.41
71:sT:67:ARG:HD2	79:s2:1587:G:C6	2.55	0.41
76:sM:42:LEU:CD1	76:sM:68:LEU:HD13	2.50	0.41
76:sM:91:LEU:HD11	76:sM:103:VAL:CG1	2.50	0.41
79:s2:649:U:H2'	79:s2:650:A:H8	1.85	0.41
79:s2:1244:U:H2'	79:s2:1245:G:H8	1.85	0.41
79:s2:1266:C:C2	79:s2:1517:G:N2	2.89	0.41
79:s2:1316:C:C2	79:s2:1317:C:C5	3.09	0.41
79:s2:1633:A:H2'	79:s2:1634:A:C8	2.56	0.41
79:s2:1666:C:H2'	79:s2:1667:U:C6	2.56	0.41
79:s2:1670:C:H2'	79:s2:1671:G:O4'	2.21	0.41
79:s2:1756:C:H3'	79:s2:1757:G:C5'	2.51	0.41
79:s2:1784:G:C2'	79:s2:1785:C:H5'	2.51	0.41
80:cB:187:VAL:O	80:cB:191:THR:HG23	2.21	0.41
80:cB:364:ALA:HA	80:cB:367:TYR:CE1	2.56	0.41
80:cB:672:LEU:HD13	80:cB:672:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:cB:674:GLU:OE1	80:cB:674:GLU:N	2.54	0.41
80:cB:686:ALA:CB	80:cB:726:ARG:HG3	2.49	0.41
80:cB:745:TYR:CB	80:cB:814:PHE:HA	2.46	0.41
84:lt:77:ALA:HB1	85:l5:1973:G:O3'	2.21	0.41
85:l5:492:U:H2'	85:l5:493:G:C8	2.56	0.41
85:l5:952:G:H2'	85:l5:953:C:C6	2.57	0.41
85:l5:1097:C:H2'	85:l5:1098:G:C8	2.56	0.41
85:l5:1415:G:H2'	85:l5:1416:G:H8	1.86	0.41
85:l5:2073:C:C2	85:l5:2074:C:C5	3.09	0.41
85:l5:4565:C:H2'	85:l5:4566:U:H6	1.86	0.41
86:LW:43:LYS:HE2	86:LW:43:LYS:HB3	1.89	0.41
86:LW:44:ARG:HG2	85:L5:3615:G:H1'	2.03	0.41
2:SE:16:LYS:NZ	79:S2:813:A:OP1	2.53	0.41
3:SI:155:ASN:HA	4:SL:23:VAL:HG21	2.03	0.41
5:SX:77:ASN:O	5:SX:79:LYS:N	2.48	0.41
7:SJ:131:ARG:HA	7:SJ:143:ASN:HB2	2.02	0.41
15:SC:223:TYR:CD2	79:S2:2:A:H2'	2.55	0.41
19:Sb:42:LYS:HE2	19:Sb:56:CYS:CB	2.48	0.41
19:Sb:51:GLN:NE2	79:S2:927:C:O2	2.54	0.41
85:L5:17:A:C6	85:L5:18:C:C4	3.09	0.41
85:L5:42:A:C6	85:L5:4380:A:C6	3.08	0.41
85:L5:73:A:H5'	85:L5:74:G:OP2	2.21	0.41
85:L5:231:U:H4'	44:LY:100:HIS:CD2	2.56	0.41
85:L5:268:G:H2'	85:L5:269:G:H8	1.86	0.41
85:L5:315:G:C2	46:La:62:HIS:CD2	3.09	0.41
85:L5:910:G:N3	85:L5:910:G:H2'	2.35	0.41
85:L5:918:G:C2	85:L5:919:C:C6	3.09	0.41
85:L5:1396:G:N3	46:La:112:LEU:HD21	2.35	0.41
85:L5:1431:C:H2'	85:L5:1432:G:O4'	2.21	0.41
85:L5:1448:G:C5	85:L5:2098:G:C6	3.09	0.41
85:L5:1740:C:N3	85:L5:1785:C:N4	2.69	0.41
85:L5:1748:U:O4	85:L5:1783:C:N4	2.54	0.41
85:L5:2288:G:C2	85:L5:2290:C:C5	3.09	0.41
85:L5:2461:G:H5'	34:LN:104:GLU:OE1	2.21	0.41
85:L5:2487:G:C4	85:L5:2489:C:H5"	2.56	0.41
85:L5:2811:G:N2	85:L5:2813:A:H3'	2.36	0.41
85:L5:2822:G:H5"	38:LR:18:GLY:HA3	2.03	0.41
85:L5:2904:U:O2	85:L5:3591:C:H2'	2.21	0.41
85:L5:3783:A:N7	85:L5:3792:G:C8	2.89	0.41
85:L5:3833:C:C2	85:L5:3834:C:C5	3.09	0.41
85:L5:4052:C:OP1	63:Lz:28:PHE:CZ	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4135:G:C6	85:L5:4150:G:C6	3.09	0.41
85:L5:4370:G:H3'	82:Et:76:A:H62	1.85	0.41
85:L5:4475:G:O6	58:Lm:125:LYS:NZ	2.54	0.41
85:L5:4491:G:H2'	85:L5:4492:U:C6	2.56	0.41
85:L5:4493:U:C2	85:L5:4512:U:C4	3.08	0.41
85:L5:4576:U:H2'	85:L5:4577:U:C6	2.56	0.41
85:L5:4724:A:H2'	85:L5:4725:C:O4'	2.21	0.41
20:L7:45:U:H2'	20:L7:46:C:C6	2.55	0.41
23:LB:235:TRP:CD1	23:LB:267:ALA:HB1	2.55	0.41
23:LB:305:THR:C	23:LB:307:TYR:H	2.29	0.41
23:LB:370:THR:O	23:LB:370:THR:OG1	2.38	0.41
27:LF:222:LYS:HB3	27:LF:231:GLY:HA2	2.03	0.41
32:LL:197:LYS:O	32:LL:201:GLU:HG2	2.21	0.41
33:LM:25:VAL:HG11	33:LM:38:VAL:CG1	2.49	0.41
36:LP:33:ALA:HA	36:LP:36:ILE:HG22	2.03	0.41
38:LR:116:ASP:OD2	38:LR:119:MET:N	2.53	0.41
39:LS:25:PRO:HA	39:LS:26:PRO:HD3	1.95	0.41
45:LZ:21:ARG:HA	45:LZ:21:ARG:HD3	1.92	0.41
45:LZ:99:ASP:O	45:LZ:102:ARG:HG2	2.21	0.41
47:Lb:58:GLN:OE1	47:Lb:58:GLN:N	2.36	0.41
48:Lc:31:TYR:O	48:Lc:34:THR:HG22	2.21	0.41
49:Ld:49:ILE:HD11	49:Ld:68:LEU:HD21	2.02	0.41
60:Lo:67:VAL:HG12	60:Lo:84:ALA:HB2	2.03	0.41
65:SD:162:ASP:HB3	79:S2:1389:C:O2'	2.19	0.41
65:SD:195:THR:C	65:SD:201:LYS:HG2	2.46	0.41
66:SF:124:ASP:CG	66:SF:196:LEU:HD11	2.45	0.41
74:Sd:6:LEU:HA	74:Sd:9:SER:HB3	2.03	0.41
75:Sg:31:ILE:HG12	75:Sg:299:PHE:HE2	1.85	0.41
75:Sg:195:LEU:HD12	75:Sg:195:LEU:HA	1.71	0.41
79:S2:166:A:C2	79:S2:167:G:C5	3.09	0.41
79:S2:310:C:H5"	79:S2:311:C:OP2	2.21	0.41
79:S2:479:C:H4'	88:CF:255:LYS:HD2	2.03	0.41
79:S2:493:A:C8	79:S2:574:A:C8	3.09	0.41
79:S2:696:G:H4'	79:S2:735:C:C6	2.56	0.41
79:S2:803:C:H2'	79:S2:804:U:O4'	2.21	0.41
79:S2:1078:C:C2	79:S2:1079:C:C5	3.09	0.41
79:S2:1233:G:C6	79:S2:1234:C:C4	3.09	0.41
79:S2:1390:U:H2'	79:S2:1391:C:C6	2.56	0.41
79:S2:1504:U:H2'	79:S2:1505:U:C6	2.56	0.41
82:Et:26:A:H61	82:Et:44:G:H1	0.58	0.41
89:Pt:34:A:H2'	89:Pt:35:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:Lt:81:ILE:HG12	84:Lt:85:LEU:HD23	2.03	0.41
63:Lz:179:LEU:HD23	63:Lz:179:LEU:O	2.21	0.41
83:Ls:79:LEU:HB3	83:Ls:80:PRO:HD2	2.01	0.41
2:sE:192:ILE:HG12	2:sE:243:GLY:HA3	2.03	0.40
3:sI:67:TRP:CD1	3:sI:70:GLU:H	2.37	0.40
4:sL:35:ARG:HH12	4:sL:54:THR:C	2.29	0.40
10:sA:180:ARG:HH12	10:sA:184:ARG:NE	2.19	0.40
15:sC:256:TRP:NE1	18:sW:68:ARG:HD3	2.36	0.40
22:lA:208:GLU:HG2	85:l5:1629:G:H1	1.86	0.40
24:lC:76:ILE:HG12	24:lC:96:CYS:SG	2.61	0.40
25:lD:153:THR:O	25:lD:153:THR:OG1	2.36	0.40
26:lE:183:ARG:HD2	85:l5:4936:G:C5	2.56	0.40
30:lI:15:LYS:HB2	85:l5:1863:U:OP1	2.21	0.40
32:lL:158:ARG:HH11	32:lL:158:ARG:HB3	1.87	0.40
37:lQ:175:GLU:HA	46:la:51:GLY:O	2.21	0.40
37:lQ:178:ARG:HB3	46:la:53:PHE:O	2.21	0.40
41:lU:93:LYS:NZ	85:l5:2628:U:OP1	2.44	0.40
52:lg:40:LYS:HB3	52:lg:40:LYS:HE3	1.87	0.40
64:sR:14:ARG:H	64:sR:14:ARG:HH11	1.69	0.40
66:sF:17:ILE:HG12	66:sF:46:ALA:O	2.20	0.40
68:sP:111:MET:HG2	70:sS:117:ILE:CD1	2.51	0.40
69:sQ:48:GLN:CG	69:sQ:49:TYR:N	2.84	0.40
75:sg:165:ILE:HG12	75:sg:179:LEU:HD21	2.02	0.40
75:sg:241:PHE:HE1	75:sg:261:LEU:HD11	1.86	0.40
77:sZ:47:LEU:HB2	77:sZ:80:ARG:HD2	2.03	0.40
78:sf:113:LYS:HB3	78:sf:113:LYS:HE3	1.87	0.40
79:s2:1424:G:H2'	79:s2:1425:G:C8	2.56	0.40
80:cB:13:MET:CE	80:cB:464:VAL:HA	2.51	0.40
80:cB:376:PRO:HB2	80:cB:378:ASP:OD1	2.20	0.40
80:cB:639:TYR:C	80:cB:640:GLU:HG3	2.46	0.40
85:l5:485:C:O2	85:l5:485:C:H2'	2.20	0.40
85:l5:497:G:H22	85:l5:658:C:N4	2.19	0.40
85:l5:920:C:C2	85:l5:921:C:C5	3.08	0.40
85:l5:1081:C:H2'	85:l5:1082:C:O4'	2.21	0.40
85:l5:1095:A:H2	85:l5:1200:G:N2	2.19	0.40
85:l5:1176:C:C2	85:l5:1185:G:N2	2.89	0.40
85:l5:1536:U:H2'	85:l5:1537:A:C8	2.52	0.40
85:l5:2394:G:O4'	85:l5:2397:G:N2	2.53	0.40
85:l5:4310:A:H2'	85:l5:4311:A:O4'	2.21	0.40
85:l5:4349:C:H5'	85:l5:4350:C:H5'	2.03	0.40
85:l5:4524:G:H2'	85:l5:4525:C:H6	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:l5:4771:C:H2’	85:l5:4772:C:C6	2.55	0.40
5:SX:71:ARG:HH11	5:SX:82:THR:HG23	1.86	0.40
6:SG:64:LYS:NZ	6:SG:81:HIS:HB3	2.35	0.40
6:SG:144:LEU:O	6:SG:144:LEU:HD12	2.21	0.40
10:SA:24:HIS:HD1	10:SA:24:HIS:N	2.18	0.40
10:SA:133:PRO:O	10:SA:137:ALA:N	2.49	0.40
11:SB:154:SER:O	11:SB:154:SER:OG	2.38	0.40
12:SH:101:LEU:HD23	12:SH:101:LEU:HA	1.85	0.40
12:SH:145:ARG:O	12:SH:153:LEU:N	2.38	0.40
13:SV:11:LEU:HD23	13:SV:12:TYR:N	2.34	0.40
14:Sa:29:CYS:SG	17:SO:146:ARG:NH1	2.95	0.40
15:SC:63:VAL:O	15:SC:64:THR:OG1	2.28	0.40
16:SN:86:GLU:OE1	79:S2:1018:U:O2’	2.24	0.40
16:SN:89:TYR:CZ	16:SN:150:VAL:HG23	2.56	0.40
16:SN:91:LEU:HD13	16:SN:91:LEU:HA	1.97	0.40
17:SO:97:LEU:HD11	17:SO:108:PRO:HB3	2.04	0.40
85:L5:40:G:C4	85:L5:4378:A:C6	3.09	0.40
85:L5:346:G:C6	21:L8:29:G:C6	3.09	0.40
85:L5:370:U:C4	85:L5:1637:A:C5	3.09	0.40
85:L5:431:G:H21	85:L5:3888:G:H3’	1.86	0.40
85:L5:440:U:C2	85:L5:441:G:C8	3.09	0.40
85:L5:493:G:O2’	85:L5:494:U:OP1	2.38	0.40
85:L5:497:G:O2’	85:L5:499:G:H8	2.04	0.40
85:L5:657:C:H2’	85:L5:658:C:C6	2.56	0.40
85:L5:908:G:H2’	85:L5:909:A:H8	1.83	0.40
85:L5:1178:G:H2’	85:L5:1178:G:N3	2.36	0.40
85:L5:1274:A:O2’	85:L5:1275:G:H8	2.04	0.40
85:L5:1383:G:C4	85:L5:1384:C:C5	3.09	0.40
85:L5:1402:C:N4	85:L5:1415:G:O6	2.45	0.40
85:L5:1418:C:H2’	85:L5:1419:G:O4’	2.21	0.40
85:L5:1566:C:H2’	85:L5:1567:U:C6	2.56	0.40
85:L5:1603:C:H2’	85:L5:1604:G:H8	1.86	0.40
85:L5:1684:A:C4	85:L5:1685:G:C8	3.08	0.40
85:L5:2099:G:OP2	85:L5:2099:G:H8	2.04	0.40
85:L5:2490:U:H3’	85:L5:2491:C:C6	2.56	0.40
85:L5:2533:C:H2’	85:L5:2534:C:C6	2.55	0.40
85:L5:2686:G:O2’	85:L5:2688:G:N7	2.46	0.40
85:L5:2706:G:H8	85:L5:2706:G:OP2	2.04	0.40
85:L5:2832:A:H2’	85:L5:2833:A:C8	2.54	0.40
85:L5:3632:C:H2’	85:L5:3633:C:H6	1.85	0.40
85:L5:3783:A:C2	85:L5:3787:G:C6	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4040:C:P	85:L5:4045:G:H22	2.44	0.40
85:L5:4044:U:H5”	85:L5:4045:G:O4’	2.22	0.40
85:L5:4358:U:H2’	85:L5:4359:U:C6	2.56	0.40
85:L5:4460:U:H2’	85:L5:4461:C:C6	2.56	0.40
85:L5:4592:C:H2’	85:L5:4593:C:H6	1.86	0.40
85:L5:5001:U:OP1	23:LB:382:MET:HE1	2.21	0.40
20:L7:18:C:H2’	20:L7:19:C:H6	1.86	0.40
22:LA:103:PRO:HA	22:LA:162:ASN:O	2.21	0.40
23:LB:56:ILE:O	23:LB:73:VAL:HA	2.21	0.40
23:LB:298:LEU:O	23:LB:299:ILE:HD13	2.21	0.40
24:LC:320:LYS:HB3	24:LC:320:LYS:HE2	1.95	0.40
27:LF:94:ARG:CZ	27:LF:109:LEU:HD13	2.51	0.40
27:LF:125:LEU:HD23	27:LF:125:LEU:HA	1.78	0.40
28:LG:250:ILE:O	28:LG:253:LEU:HG	2.22	0.40
34:LN:9:GLU:OE2	34:LN:9:GLU:HA	2.21	0.40
34:LN:149:GLN:O	34:LN:152:THR:OG1	2.31	0.40
37:LQ:50:ARG:HH21	37:LQ:140:SER:HB2	1.86	0.40
39:LS:122:HIS:CD2	39:LS:123:SER:HG	2.38	0.40
39:LS:157:ARG:HA	39:LS:157:ARG:HD2	1.79	0.40
41:LU:91:LEU:O	41:LU:95:ASN:N	2.54	0.40
43:LX:151:ASN:CA	43:LX:156:ILE:CD1	2.98	0.40
51:Lf:66:LYS:HZ2	51:Lf:66:LYS:HG2	1.79	0.40
54:Li:56:ARG:O	54:Li:60:LEU:HD12	2.21	0.40
56:Lk:23:VAL:HG13	56:Lk:66:VAL:HA	2.03	0.40
56:Lk:52:LYS:H	56:Lk:52:LYS:HG2	1.67	0.40
56:Lk:54:GLU:HA	56:Lk:57:LYS:HE2	2.03	0.40
62:Lr:47:LYS:HB3	62:Lr:102:TYR:CZ	2.55	0.40
65:SD:9:ARG:HG3	65:SD:9:ARG:NH1	2.36	0.40
65:SD:133:GLY:HA3	65:SD:156:LEU:O	2.21	0.40
66:SF:77:MET:HE1	66:SF:86:LYS:HG2	2.04	0.40
66:SF:83:ASN:HD22	66:SF:83:ASN:HA	1.74	0.40
70:SS:121:ARG:HH22	79:S2:1611:G:P	2.44	0.40
71:ST:54:TYR:N	71:ST:54:TYR:CD1	2.88	0.40
73:Sc:12:ALA:C	73:Sc:55:VAL:HG23	2.45	0.40
75:Sg:43:TRP:CH2	75:Sg:55:PRO:HG3	2.56	0.40
75:Sg:205:SER:O	75:Sg:206:LEU:HD23	2.21	0.40
79:S2:10:G:C6	79:S2:11:A:C5	3.09	0.40
79:S2:390:C:C2	79:S2:391:C:C6	3.09	0.40
79:S2:948:C:H2’	79:S2:949:G:C8	2.54	0.40
79:S2:1248:U:H2’	79:S2:1249:C:C6	2.55	0.40
79:S2:1567:G:H2’	79:S2:1568:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1677:U:O4	79:S2:1678:A:N6	2.48	0.40
79:S2:1685:U:H2'	79:S2:1686:G:O4'	2.22	0.40
79:S2:1776:G:OP2	79:S2:1776:G:N2	2.42	0.40
79:S2:1781:A:H5"	79:S2:1783:C:C4	2.56	0.40
87:AT:22:A:H2'	87:AT:23:U:C6	2.56	0.40
87:AT:49:C:H5"	87:AT:51:U:OP2	2.21	0.40
88:CF:26:HIS:CD2	88:CF:30:LYS:NZ	2.89	0.40
88:CF:191:VAL:HG12	88:CF:193:ILE:HG23	2.03	0.40
84:Lt:20:GLY:HA2	84:Lt:56:LEU:HA	2.03	0.40
83:Ls:43:ILE:HD11	83:Ls:102:LEU:HD12	2.03	0.40
83:Ls:99:ARG:NH1	83:Ls:199:TYR:CE1	2.89	0.40
2:sE:68:ARG:NH2	2:sE:76:VAL:HG11	2.36	0.40
2:sE:219:ALA:HB3	79:s2:807:G:O2'	2.21	0.40
7:sJ:63:LEU:O	7:sJ:70:ARG:NH1	2.50	0.40
12:sH:127:ASP:O	12:sH:130:LEU:HG	2.21	0.40
14:sa:44:ILE:H	14:sa:44:ILE:HG12	1.68	0.40
17:sO:104:ARG:HH12	17:sO:143:LYS:HB3	1.86	0.40
21:l8:36:G:OP2	53:lh:88:THR:HG23	2.22	0.40
21:l8:65:A:C6	21:l8:66:A:C5	3.09	0.40
21:l8:96:C:H5"	53:lh:66:LYS:HG2	2.04	0.40
22:lA:28:ARG:HB2	22:lA:123:ARG:HB2	2.03	0.40
22:lA:200:ARG:HD2	85:l5:3690:U:OP2	2.22	0.40
23:lB:92:TYR:HB2	23:lB:159:VAL:CG1	2.50	0.40
23:lB:393:LYS:HG3	23:lB:396:ARG:HH21	1.85	0.40
25:lD:214:GLU:C	25:lD:215:ASP:CG	2.89	0.40
25:lD:223:PHE:O	25:lD:227:ILE:HG12	2.22	0.40
28:lG:151:LYS:HB2	28:lG:151:LYS:HE3	1.94	0.40
29:lH:55:LEU:HD12	29:lH:56:ARG:H	1.86	0.40
29:lH:106:GLN:HB3	29:lH:107:GLU:OE1	2.21	0.40
29:lH:125:ARG:HG3	29:lH:125:ARG:HH11	1.86	0.40
31:lJ:97:ASN:OD1	31:lJ:97:ASN:C	2.64	0.40
32:lL:127:PHE:HA	32:lL:143:GLU:OE2	2.20	0.40
37:lQ:70:MET:SD	37:lQ:80:ALA:HB2	2.61	0.40
38:lR:77:GLY:HA3	85:l5:2888:G:OP1	2.21	0.40
39:lS:31:ARG:C	39:lS:32:ILE:HD12	2.46	0.40
44:lY:49:ILE:HD13	44:lY:106:ILE:HD11	2.02	0.40
48:lc:18:LEU:HD12	48:lc:18:LEU:HA	1.88	0.40
49:ld:33:ILE:HD11	49:ld:45:ALA:N	2.36	0.40
51:lf:48:ALA:HB2	51:lf:71:TRP:CZ3	2.57	0.40
63:lz:60:ARG:CZ	63:lz:61:PRO:HG3	2.50	0.40
64:sR:27:ASP:HB2	64:sR:55:THR:CG2	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:sR:53:TYR:CE2	79:s2:1466:G:C4	3.09	0.40
66:sF:18:LYS:O	66:sF:21:GLY:N	2.53	0.40
66:sF:19:LEU:HD12	66:sF:23:TRP:HE3	1.86	0.40
68:sP:114:HIS:ND1	68:sP:118:GLU:OE2	2.49	0.40
69:sQ:115:TYR:C	69:sQ:115:TYR:HD2	2.29	0.40
72:sU:86:LYS:O	72:sU:87:ARG:HG3	2.21	0.40
72:sU:111:GLU:OE1	72:sU:111:GLU:HA	2.20	0.40
79:s2:98:C:OP2	79:s2:426:A:O2'	2.27	0.40
79:s2:373:G:O6	79:s2:392:A:N6	2.54	0.40
79:s2:382:C:H2'	79:s2:383:G:C8	2.56	0.40
79:s2:944:A:H2'	79:s2:945:U:C6	2.57	0.40
79:s2:1222:G:H2'	79:s2:1223:A:C8	2.56	0.40
79:s2:1260:A:C8	79:s2:1261:C:H5	2.40	0.40
79:s2:1274:G:N3	79:s2:1274:G:H5'	2.37	0.40
79:s2:1774:C:C4	79:s2:1775:U:H1'	2.57	0.40
80:cB:61:LYS:HZ2	80:cB:62:ASP:H	1.68	0.40
80:cB:670:GLN:CD	80:cB:670:GLN:H	2.29	0.40
80:cB:693:CYS:HB2	80:cB:695:GLU:HG3	2.03	0.40
85:l5:1537:A:H2'	85:l5:1538:U:C6	2.56	0.40
85:l5:1624:G:C5	85:l5:1643:A:C8	3.09	0.40
85:l5:1709:C:N3	85:l5:1716:G:N1	2.68	0.40
85:l5:1984:A:H2'	85:l5:2011:C:OP1	2.22	0.40
85:l5:1985:G:H2'	85:l5:1986:U:C6	2.56	0.40
85:l5:4039:G:N2	85:l5:4050:A:HO2'	2.19	0.40
86:LW:111:ALA:O	86:LW:115:ALA:N	2.49	0.40
2:SE:178:GLY:O	2:SE:231:GLY:HA2	2.21	0.40
3:SI:172:LEU:HD12	3:SI:190:LEU:HD12	2.04	0.40
7:SJ:46:VAL:HG12	7:SJ:102:ILE:HG22	2.03	0.40
10:SA:24:HIS:ND1	10:SA:24:HIS:N	2.69	0.40
10:SA:149:ASN:HB3	10:SA:151:ASP:OD1	2.22	0.40
11:SB:187:LYS:HB2	11:SB:192:SER:OG	2.22	0.40
12:SH:122:LEU:HD11	79:S2:689:U:C4	2.56	0.40
15:SC:75:ILE:CD1	15:SC:265:PRO:HB3	2.51	0.40
18:SW:19:LYS:HA	18:SW:19:LYS:HD3	1.85	0.40
18:SW:105:THR:HB	18:SW:110:ILE:HD13	2.03	0.40
85:L5:74:G:H1'	32:LL:62:PRO:HG3	2.03	0.40
85:L5:151:G:N7	28:LG:141:ASN:HB2	2.36	0.40
85:L5:186:G:H1'	85:L5:1366:G:H21	1.85	0.40
85:L5:220:C:C2	85:L5:221:C:C5	3.09	0.40
85:L5:228:C:H2'	85:L5:229:G:C8	2.56	0.40
85:L5:306:A:N3	54:Li:82:ARG:NH1	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:1292:C:H2'	85:L5:1293:G:N3	2.35	0.40
85:L5:1328:G:H2'	85:L5:1329:G:C8	2.56	0.40
85:L5:1351:G:H2'	85:L5:1352:C:H6	1.86	0.40
85:L5:2073:C:H2'	85:L5:2074:C:H6	1.85	0.40
85:L5:2380:G:N1	85:L5:2425:U:OP1	2.54	0.40
85:L5:2508:U:H2'	85:L5:2509:C:H6	1.85	0.40
85:L5:2689:C:H2'	85:L5:2690:C:H6	1.85	0.40
85:L5:3711:A:O2'	85:L5:3712:A:H8	2.04	0.40
85:L5:3729:U:H2'	85:L5:3730:U:H6	1.86	0.40
85:L5:4053:A:C4'	63:Lz:207:LYS:HB3	2.38	0.40
85:L5:4579:U:OP1	23:LB:120:LYS:NZ	2.54	0.40
85:L5:4877:G:H2'	85:L5:4878:C:C6	2.56	0.40
85:L5:4963:G:C6	85:L5:4964:C:N4	2.90	0.40
22:LA:43:GLY:HA3	22:LA:63:PHE:CE1	2.57	0.40
23:LB:206:PRO:HB2	23:LB:208:ASN:OD1	2.22	0.40
24:LC:171:LEU:HA	24:LC:171:LEU:HD23	1.86	0.40
27:LF:238:ASP:O	27:LF:241:ASN:ND2	2.46	0.40
28:LG:173:LEU:HA	28:LG:173:LEU:HD12	1.91	0.40
28:LG:176:LYS:C	28:LG:177:MET:HE2	2.46	0.40
31:LJ:92:TYR:N	31:LJ:92:TYR:HD1	2.19	0.40
37:LQ:6:ARG:NH2	37:LQ:8:ASN:HD21	2.20	0.40
40:LT:127:GLN:NE2	40:LT:129:LYS:O	2.54	0.40
41:LU:38:ASN:O	41:LU:41:GLN:HG3	2.21	0.40
44:LY:29:ILE:HG21	44:LY:78:TYR:CE1	2.56	0.40
46:La:136:LYS:O	46:La:139:SER:OG	2.36	0.40
47:Lb:91:ARG:HB3	47:Lb:94:ASP:HB3	2.03	0.40
64:SR:2:GLY:H	79:S2:1467:C:P	2.43	0.40
64:SR:23:ARG:HH11	75:Sg:170:TRP:HE3	1.68	0.40
64:SR:77:GLU:HA	64:SR:80:ARG:HH21	1.85	0.40
64:SR:103:LYS:HG3	64:SR:107:LYS:HZ2	1.86	0.40
66:SF:195:GLU:HA	66:SF:198:ARG:NE	2.36	0.40
67:SK:80:ARG:NH2	67:SK:85:LEU:HD22	2.36	0.40
69:SQ:24:HIS:CD2	69:SQ:26:LYS:HG2	2.56	0.40
70:SS:24:ARG:HE	70:SS:29:ALA:HA	1.86	0.40
72:SU:64:THR:HA	72:SU:78:ASP:O	2.21	0.40
75:Sg:12:LYS:O	75:Sg:43:TRP:HH2	2.04	0.40
75:Sg:27:PHE:O	75:Sg:30:MET:HB2	2.21	0.40
75:Sg:30:MET:SD	75:Sg:42:MET:CE	3.09	0.40
76:SM:19:GLN:HE22	76:SM:23:LYS:HG3	1.85	0.40
79:S2:351:G:C2	79:S2:352:U:C6	3.09	0.40
79:S2:376:A:C6	79:S2:377:G:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:479:C:H4'	88:CF:255:LYS:NZ	2.36	0.40
79:S2:673:G:H2'	79:S2:674:C:H6	1.85	0.40
79:S2:867:G:H2'	79:S2:868:G:N3	2.36	0.40
79:S2:1185:C:H2'	79:S2:1186:U:H6	1.86	0.40
79:S2:1260:A:H61	79:S2:1617:G:H1'	1.86	0.40
87:AT:29:U:H2'	87:AT:30:C:O4'	2.21	0.40
82:Et:6:G:N2	82:Et:67:U:H3	2.18	0.40
82:Et:55:U:H2'	82:Et:57:A:N7	2.37	0.40
63:Lz:40:ASN:OD1	63:Lz:40:ASN:C	2.63	0.40
83:Ls:68:HIS:C	83:Ls:69:LEU:HD22	2.45	0.40
3:sI:25:ARG:NH2	79:s2:433:A:OP1	2.54	0.40
4:sL:11:GLN:HB3	4:sL:56:ILE:HG21	2.02	0.40
7:sJ:137:VAL:N	7:sJ:140:GLN:O	2.54	0.40
7:sJ:139:LYS:HZ2	11:SB:234:GLU:HG2	1.86	0.40
9:se:8:ARG:O	79:s2:616:A:H4'	2.21	0.40
10:sA:42:LYS:HZ3	10:sA:44:ASP:HB3	1.81	0.40
14:sa:85:ARG:HG3	14:sa:85:ARG:NH1	2.35	0.40
18:sW:55:ASP:C	18:sW:55:ASP:OD2	2.64	0.40
21:l8:154:G:H5'	28:lG:189:ARG:NH2	2.36	0.40
23:lB:285:TYR:HA	23:lB:363:ILE:HD11	2.03	0.40
26:lE:212:LEU:HA	26:lE:216:TYR:HD2	1.86	0.40
26:lE:286:LEU:HD22	33:lM:109:ARG:CZ	2.52	0.40
30:lI:70:ILE:HA	30:lI:73:ASN:ND2	2.37	0.40
32:lL:129:ARG:NH1	85:l5:173:C:H5"	2.35	0.40
34:lN:181:HIS:CD2	85:l5:99:A:H4'	2.56	0.40
35:lO:28:LEU:HA	35:lO:28:LEU:HD23	1.84	0.40
35:lO:189:ILE:CG2	35:lO:193:THR:HG23	2.52	0.40
37:lQ:94:GLU:H	37:lQ:94:GLU:CD	2.16	0.40
37:lQ:143:ARG:NH2	85:l5:1693:U:OP1	2.54	0.40
37:lQ:186:TYR:CD1	85:l5:4307:A:H4'	2.57	0.40
46:la:104:VAL:HG21	46:la:147:VAL:HG11	2.04	0.40
56:lk:3:ARG:CZ	85:l5:2643:G:O2'	2.70	0.40
63:lz:92:LYS:HE3	63:lz:93:LEU:HD23	2.04	0.40
64:sR:39:ALA:O	65:sD:205:PRO:HB2	2.22	0.40
64:sR:123:THR:HG21	64:sR:127:ASN:H	1.86	0.40
66:sF:48:TYR:O	69:sQ:49:TYR:HE2	2.04	0.40
66:sF:88:MET:HE1	79:s2:1535:U:H1'	2.01	0.40
66:sF:201:LYS:HA	66:sF:204:ARG:CD	2.51	0.40
67:sK:41:PRO:HD2	67:sK:44:HIS:CG	2.56	0.40
67:sK:52:LEU:O	67:sK:56:GLY:N	2.55	0.40
71:sT:112:MET:O	71:sT:124:THR:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:sU:70:CYS:SG	72:sU:72:GLU:N	2.94	0.40
78:sf:90:LYS:HA	79:s2:1507:G:C6	2.57	0.40
79:s2:548:C:H2'	79:s2:549:C:C6	2.56	0.40
79:s2:1781:A:O2'	79:s2:1782:G:N7	2.50	0.40
80:cB:123:ASP:C	80:cB:151:ILE:HG23	2.46	0.40
80:cB:595:SER:HA	80:cB:724:THR:HG21	2.04	0.40
84:lt:57:ARG:HE	84:lt:83:LYS:HD2	1.86	0.40
85:l5:1953:U:H2'	85:l5:1954:U:H6	1.87	0.40
85:l5:2391:G:H2'	85:l5:2392:C:C6	2.57	0.40
85:l5:2705:G:H1	85:l5:2710:C:N4	2.19	0.40
85:l5:3891:A:H2'	85:l5:3892:U:O4'	2.21	0.40
85:l5:4129:G:O6	85:l5:4156:G:N2	2.54	0.40
85:l5:4412:C:H2'	85:l5:4413:C:C6	2.56	0.40
86:LW:11:TYR:HH	86:LW:51:TRP:HB2	1.86	0.40
2:SE:19:MET:SD	79:S2:846:G:H2'	2.61	0.40
2:SE:104:ASP:HB3	2:SE:110:ALA:HB3	2.02	0.40
3:SI:67:TRP:HA	3:SI:189:VAL:CG1	2.52	0.40
4:SL:7:GLU:HG2	4:SL:8:ARG:N	2.31	0.40
7:SJ:119:LEU:HD23	7:SJ:119:LEU:HA	1.77	0.40
8:SY:76:TYR:OH	8:SY:85:ASN:O	2.30	0.40
15:SC:271:ASP:O	15:SC:275:LYS:HG3	2.21	0.40
17:SO:43:HIS:CG	17:SO:55:ARG:HB2	2.56	0.40
17:SO:66:ARG:HE	17:SO:66:ARG:HB3	1.76	0.40
85:L5:71:C:N3	85:L5:73:A:C4	2.89	0.40
85:L5:264:C:H5"	85:L5:265:C:OP2	2.22	0.40
85:L5:278:G:H5"	34:LN:8:GLN:OE1	2.22	0.40
85:L5:358:C:OP1	24:LC:59:GLY:N	2.45	0.40
85:L5:739:G:C2	85:L5:740:G:C2	3.09	0.40
85:L5:1069:G:H2'	85:L5:1070:G:O4'	2.21	0.40
85:L5:1196:G:H2'	85:L5:1197:C:C6	2.55	0.40
85:L5:1296:G:O2'	85:L5:1297:U:O4'	2.38	0.40
85:L5:1609:U:H2'	85:L5:1610:C:O4'	2.21	0.40
85:L5:1628:C:OP2	22:LA:9:ARG:NH1	2.47	0.40
85:L5:1643:A:C5	85:L5:1644:C:C5	3.09	0.40
85:L5:2060:G:H4'	39:LS:118:ARG:HG3	2.03	0.40
85:L5:2413:U:C2	85:L5:2414:G:C8	3.10	0.40
85:L5:2532:C:C2	85:L5:2533:C:C5	3.09	0.40
85:L5:2796:G:H5'	57:Ll:45:ARG:NH1	2.36	0.40
85:L5:2811:G:H1'	85:L5:2815:A:N6	2.35	0.40
85:L5:3715:U:H2'	85:L5:3716:C:O4'	2.21	0.40
85:L5:4244:A:C6	85:L5:4267:G:C6	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:4364:G:H2'	85:L5:4365:C:H6	1.86	0.40
20:L7:16:A:H2'	20:L7:17:C:C6	2.56	0.40
21:L8:70:G:C2	21:L8:87:G:N3	2.89	0.40
23:LB:55:HIS:NE2	23:LB:369:ASP:OD2	2.54	0.40
23:LB:312:LYS:HZ3	23:LB:367:PHE:HE1	1.68	0.40
24:LC:25:PRO:HD2	24:LC:28:PHE:CE2	2.56	0.40
24:LC:157:LYS:HE3	24:LC:157:LYS:HB3	1.80	0.40
24:LC:330:PRO:HB3	27:LF:47:ARG:NH2	2.36	0.40
25:LD:51:MET:SD	25:LD:51:MET:C	3.04	0.40
27:LF:30:ILE:HD12	27:LF:30:ILE:HA	1.85	0.40
29:LH:167:VAL:C	29:LH:168:LYS:HD2	2.46	0.40
31:LJ:114:ASP:HB3	70:SS:14:ARG:HG3	2.02	0.40
34:LN:99:GLN:HG2	34:LN:103:GLU:OE1	2.21	0.40
35:LO:25:LYS:O	35:LO:29:LEU:HD12	2.22	0.40
37:LQ:53:MET:HE2	37:LQ:57:ASN:HB3	2.02	0.40
37:LQ:155:ALA:HB3	37:LQ:158:THR:HG23	2.03	0.40
38:LR:114:LYS:H	38:LR:114:LYS:HG2	1.63	0.40
44:LY:54:GLU:OE1	44:LY:69:LYS:NZ	2.42	0.40
44:LY:112:ASP:O	44:LY:116:LYS:HG3	2.21	0.40
48:Lc:39:ARG:HE	48:Lc:39:ARG:HB3	1.77	0.40
50:Le:22:ARG:O	50:Le:25:SER:OG	2.36	0.40
62:Lr:90:LEU:HD12	62:Lr:90:LEU:H	1.87	0.40
65:SD:24:PHE:CE1	67:SK:68:TYR:CG	3.05	0.40
71:ST:24:LYS:HD2	71:ST:25:SER:N	2.35	0.40
72:SU:89:ILE:HD13	72:SU:89:ILE:HA	1.88	0.40
74:Sd:7:TYR:CE2	74:Sd:8:TRP:CE3	3.09	0.40
75:Sg:87:LEU:HD21	75:Sg:108:VAL:HG21	2.03	0.40
76:SM:36:ARG:HH22	76:SM:40:LYS:HD3	1.86	0.40
77:SZ:94:LYS:HB2	77:SZ:96:LEU:HD22	2.03	0.40
79:S2:2:A:O4'	79:S2:418:A:C8	2.75	0.40
79:S2:58:C:C4	79:S2:500:A:C6	3.09	0.40
79:S2:197:U:H2'	79:S2:203:G:N2	2.37	0.40
79:S2:508:A:H3'	79:S2:509:G:C8	2.47	0.40
79:S2:804:U:C2	79:S2:805:U:C5	3.09	0.40
79:S2:982:G:C4	79:S2:983:A:C8	3.09	0.40
79:S2:1232:U:H2'	79:S2:1233:G:H8	1.87	0.40
79:S2:1287:A:C5	79:S2:1288:U:H1'	2.56	0.40
79:S2:1501:C:C2	79:S2:1502:C:C5	3.09	0.40
79:S2:1615:U:H2'	79:S2:1616:U:C6	2.56	0.40
79:S2:1853:C:H2'	79:S2:1854:U:H6	1.85	0.40
87:AT:14:A:H2'	87:AT:15:G:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
88:CF:100:LYS:HA	88:CF:103:ILE:HD11	2.02	0.40
84:Lt:158:GLY:HA2	84:Lt:161:GLU:HB3	2.02	0.40
63:Lz:67:VAL:HA	63:Lz:68:LEU:HA	1.59	0.40
83:Ls:55:MET:HE2	83:Ls:55:MET:HB2	1.98	0.40
83:Ls:56:GLY:N	83:Ls:61:MET:HE1	2.37	0.40
2:sE:122:LYS:HZ3	2:sE:145:ARG:NH2	2.20	0.40
5:sX:97:ASN:HB3	80:cB:517:LEU:HD21	2.03	0.40
6:sG:44:GLU:H	6:sG:44:GLU:CD	2.30	0.40
7:sJ:37:LEU:HD13	7:sJ:42:GLU:HB2	2.02	0.40
8:sY:48:TYR:O	8:sY:50:THR:HG23	2.21	0.40
8:sY:57:VAL:HB	8:sY:60:PHE:HZ	1.86	0.40
10:sA:143:PRO:HB2	13:sV:34:MET:CE	2.52	0.40
11:sB:71:LEU:HD21	11:sB:189:ILE:HG23	2.02	0.40
11:sB:145:LYS:HA	64:sR:135:VAL:H	1.87	0.40
15:sC:214:LEU:HD23	15:sC:214:LEU:HA	1.85	0.40
17:sO:31:CYS:HB2	17:sO:44:VAL:HG23	2.03	0.40
18:sW:111:MET:SD	18:sW:111:MET:N	2.94	0.40
22:lA:177:LYS:HB2	61:lp:29:ILE:HD13	2.04	0.40
24:lC:67:TRP:HE1	24:lC:71:ARG:HD2	1.86	0.40
24:lC:316:LYS:NZ	85:l5:1282:G:OP1	2.51	0.40
27:lF:148:LYS:HD3	27:lF:245:ARG:HH21	1.85	0.40
30:lI:86:HIS:ND1	30:lI:139:ARG:HD3	2.36	0.40
36:lP:95:LEU:HD11	36:lP:114:ILE:HD11	2.02	0.40
38:lR:9:ARG:O	38:lR:12:SER:OG	2.35	0.40
46:la:27:LYS:NZ	85:l5:1653:A:OP2	2.50	0.40
46:la:75:LEU:HA	46:la:78:LEU:HB2	2.04	0.40
47:lb:107:ARG:NH2	85:l5:1270:A:OP1	2.55	0.40
47:lb:118:LEU:HD23	47:lb:119:CYS:N	2.37	0.40
49:ld:30:HIS:CG	49:ld:82:TYR:CD2	3.09	0.40
60:lo:104:ILE:HA	60:lo:105:GLN:HA	1.77	0.40
63:lz:105:LYS:HE2	63:lz:105:LYS:HB2	1.81	0.40
64:sR:7:LYS:H	64:sR:7:LYS:HG3	1.61	0.40
66:sF:131:ALA:HB2	66:sF:135:ARG:NH1	2.36	0.40
67:sK:21:MET:HE2	67:sK:21:MET:HB2	1.83	0.40
71:sT:36:THR:O	71:sT:36:THR:OG1	2.32	0.40
71:sT:42:HIS:HB3	71:sT:93:SER:HB3	2.04	0.40
71:sT:56:ARG:HH21	79:s2:1541:G:P	2.44	0.40
72:sU:48:LEU:HD11	72:sU:93:SER:HB2	1.97	0.40
72:sU:66:ARG:O	72:sU:67:LYS:HB3	2.21	0.40
73:sc:29:GLN:NE2	73:sc:45:ASN:HB3	2.36	0.40
75:sg:218:LEU:C	75:sg:219:TRP:CD1	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:sZ:79:ILE:CG2	77:sZ:84:ALA:HB2	2.46	0.40
79:s2:454:U:H2'	79:s2:455:A:C8	2.56	0.40
79:s2:651:U:H2'	79:s2:652:U:H6	1.86	0.40
79:s2:695:C:H5"	79:s2:696:G:C8	2.57	0.40
79:s2:799:U:C4	79:s2:800:U:C4	3.10	0.40
79:s2:1385:G:C6	79:s2:1386:A:C6	3.08	0.40
79:s2:1630:A:H2'	79:s2:1630:A:N3	2.37	0.40
80:cB:631:ARG:O	80:cB:635:LEU:HG	2.22	0.40
82:pE:37:A:H2'	82:pE:38:A:H5'	2.03	0.40
85:l5:379:G:O2'	85:l5:380:U:H5'	2.20	0.40
85:l5:1304:C:H2'	85:l5:1305:C:C6	2.56	0.40
85:l5:1541:C:H2'	85:l5:1542:U:C6	2.57	0.40
85:l5:1577:G:H5'	85:l5:1578:U:H5"	2.04	0.40
85:l5:2270:G:H2'	85:l5:2271:C:C6	2.56	0.40
85:l5:2402:G:C2	85:l5:2403:A:C8	3.09	0.40
85:l5:2455:G:N2	85:l5:2470:C:O2'	2.54	0.40
85:l5:2533:C:H2'	85:l5:2534:C:C6	2.57	0.40
85:l5:3723:A:H2'	85:l5:3724:A:C8	2.56	0.40
85:l5:4143:G:C4	85:l5:4145:C:H1'	2.57	0.40
85:l5:4278:C:HO2'	85:l5:4281:A:H8	1.63	0.40
85:l5:4508:C:N3	85:l5:4512:U:H5	2.18	0.40
85:l5:4892:A:H2'	85:l5:4893:A:O4'	2.22	0.40
2:SE:135:GLY:HA2	79:S2:297:A:O2'	2.21	0.40
3:SI:143:LYS:O	3:SI:147:LYS:HG2	2.21	0.40
6:SG:56:ASN:HD21	79:S2:155:G:N2	2.18	0.40
7:SJ:82:VAL:HG23	7:SJ:87:LEU:O	2.20	0.40
16:SN:101:HIS:NE2	16:SN:108:ASP:OD2	2.48	0.40
85:L5:56:A:O2'	85:L5:57:G:H5'	2.21	0.40
85:L5:58:G:H2'	21:L8:33:G:H3'	2.04	0.40
85:L5:124:C:H2'	85:L5:125:C:H6	1.86	0.40
85:L5:280:G:H5"	34:LN:14:LYS:HZ3	1.87	0.40
85:L5:347:A:H2'	85:L5:348:G:C8	2.57	0.40
85:L5:418:A:H2'	85:L5:419:A:H8	1.86	0.40
85:L5:488:G:O5'	85:L5:488:G:H8	2.04	0.40
85:L5:972:C:H2'	85:L5:973:G:H8	1.85	0.40
85:L5:1172:C:H6	85:L5:1172:C:H2'	1.64	0.40
85:L5:1176:C:H2'	85:L5:1177:U:C6	2.55	0.40
85:L5:1347:G:H2'	85:L5:1348:U:C6	2.56	0.40
85:L5:1434:G:N2	85:L5:1451:G:H1'	2.37	0.40
85:L5:2059:C:H2'	85:L5:2060:G:C8	2.49	0.40
85:L5:2608:G:H2'	85:L5:2609:G:C8	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:L5:2751:G:C2	85:L5:2752:G:N7	2.90	0.40
85:L5:3604:A:H5'	38:LR:71:ARG:HH12	1.86	0.40
85:L5:4063:U:H2'	85:L5:4064:C:C6	2.56	0.40
85:L5:4087:G:N1	28:LG:46:GLN:OE1	2.55	0.40
85:L5:4344:U:H2'	85:L5:4345:C:C6	2.56	0.40
20:L7:60:G:N3	20:L7:61:G:C8	2.89	0.40
20:L7:72:U:H2'	20:L7:73:U:C6	2.56	0.40
21:L8:24:G:H2'	21:L8:25:G:O4'	2.22	0.40
24:LC:234:LYS:HB3	24:LC:234:LYS:HE2	1.75	0.40
24:LC:329:ASN:ND2	27:LF:188:GLU:OE1	2.54	0.40
25:LD:199:ILE:HG22	25:LD:200:MET:SD	2.62	0.40
26:LE:131:LYS:O	26:LE:136:HIS:NE2	2.49	0.40
28:LG:57:TRP:O	28:LG:62:ARG:NH1	2.54	0.40
29:LH:90:TYR:HB2	29:LH:146:LEU:HD21	2.02	0.40
29:LH:106:GLN:HB2	29:LH:111:LEU:O	2.21	0.40
31:LJ:156:ARG:O	31:LJ:157:ILE:HD13	2.21	0.40
32:LL:57:PRO:HG3	32:LL:75:GLY:O	2.22	0.40
34:LN:146:PRO:HB2	53:Lh:104:THR:HG23	2.03	0.40
37:LQ:54:SER:O	37:LQ:58:ARG:HG3	2.22	0.40
38:LR:14:VAL:HG21	38:LR:41:ILE:HG21	2.02	0.40
41:LU:88:LYS:HE2	41:LU:97:ARG:NH2	2.37	0.40
43:LX:124:VAL:HG13	43:LX:138:VAL:HG12	2.03	0.40
45:LZ:101:PHE:CD2	45:LZ:101:PHE:N	2.89	0.40
48:Lc:18:LEU:HD21	48:Lc:85:CYS:HA	2.03	0.40
53:Lh:89:ARG:HG3	53:Lh:93:ARG:NH1	2.36	0.40
56:Lk:53:ALA:O	56:Lk:57:LYS:N	2.44	0.40
61:Lp:20:ALA:HA	61:Lp:23:ARG:CZ	2.51	0.40
62:Lr:26:SER:HB2	62:Lr:28:GLU:OE2	2.21	0.40
66:SF:30:ILE:HD13	66:SF:39:ILE:HB	2.03	0.40
67:SK:57:TYR:HB3	67:SK:75:GLY:CA	2.52	0.40
68:SP:82:ASP:HA	68:SP:115:TYR:HD2	1.87	0.40
68:SP:114:HIS:HB3	68:SP:118:GLU:OE1	2.22	0.40
72:SU:65:THR:HG22	72:SU:78:ASP:HB2	2.03	0.40
75:Sg:77:PHE:HB3	75:Sg:89:LEU:HD11	2.03	0.40
77:SZ:52:LYS:HA	77:SZ:52:LYS:HD3	1.98	0.40
79:S2:187:G:C6	79:S2:213:G:N1	2.90	0.40
79:S2:290:U:H5'	79:S2:291:G:OP2	2.21	0.40
79:S2:502:C:H3'	79:S2:503:C:C6	2.56	0.40
79:S2:588:G:OP2	79:S2:588:G:N2	2.45	0.40
79:S2:749:U:O4	79:S2:793:G:N2	2.55	0.40
79:S2:1013:U:OP1	79:S2:1129:G:O2'	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:S2:1046:U:H2'	79:S2:1047:C:H6	1.87	0.40
79:S2:1215:C:H6	79:S2:1215:C:H2'	1.76	0.40
79:S2:1227:G:C2	79:S2:1228:A:C8	3.08	0.40
88:CF:205:SER:HB3	88:CF:207:ASN:OD1	2.21	0.40
83:Ls:99:ARG:HG3	83:Ls:189:ILE:CD1	2.51	0.40
1:cH:76:GLU:O	1:cH:80:VAL:HG23	2.22	0.40
2:sE:98:ASN:O	2:sE:114:ILE:HG12	2.21	0.40
4:sL:96:ILE:HD13	4:sL:96:ILE:HA	1.95	0.40
4:sL:153:LYS:HA	4:sL:153:LYS:HD3	1.96	0.40
7:sJ:122:SER:O	7:sJ:124:HIS:N	2.54	0.40
7:sJ:140:GLN:NE2	8:sY:64:PHE:HB3	2.36	0.40
8:sY:104:ARG:HH22	79:s2:492:C:H5	1.68	0.40
10:sA:63:ARG:HD2	13:sV:78:ILE:HD11	2.04	0.40
11:sB:87:ILE:C	11:sB:98:THR:OG1	2.60	0.40
12:sH:8:ILE:HG13	12:sH:9:VAL:HG23	2.03	0.40
14:sa:5:ARG:NH2	79:s2:1864:U:OP2	2.54	0.40
19:sb:68:GLY:O	79:s2:928:G:N2	2.49	0.40
20:l7:113:G:H2'	20:l7:114:U:C6	2.56	0.40
21:l8:79:G:H2'	21:l8:80:A:N3	2.36	0.40
22:lA:2:GLY:C	85:l5:1642:A:H61	2.29	0.40
26:lE:88:VAL:HA	26:lE:89:LEU:HA	1.66	0.40
29:lH:44:GLU:CG	29:lH:58:ASP:HB2	2.51	0.40
30:lI:183:ASP:OD2	30:lI:183:ASP:C	2.64	0.40
34:lN:114:ARG:NH1	34:lN:151:ILE:O	2.54	0.40
34:lN:177:GLY:HA2	85:l5:67:C:O3'	2.21	0.40
35:lO:107:GLY:C	35:lO:108:ILE:HG13	2.46	0.40
36:lP:132:ALA:HB2	85:l5:1596:U:O3'	2.22	0.40
37:lQ:150:ARG:H	37:lQ:150:ARG:HG2	1.71	0.40
38:lR:86:ASN:HB3	85:l5:1550:G:OP1	2.22	0.40
38:lR:140:GLU:O	38:lR:144:LYS:HG3	2.21	0.40
40:lT:34:TYR:HE1	40:lT:93:ILE:HB	1.87	0.40
40:lT:102:ARG:HH12	40:lT:106:LEU:HD21	1.86	0.40
41:lU:74:SER:OG	41:lU:76:VAL:HG22	2.21	0.40
43:lX:64:SER:HB2	53:lh:69:LEU:HD13	2.04	0.40
43:lX:65:ALA:HB2	53:lh:69:LEU:HD11	2.02	0.40
45:lZ:5:MET:HG2	45:lZ:77:TYR:CZ	2.56	0.40
51:lf:81:SER:HB3	85:l5:1919:G:O2'	2.21	0.40
53:lh:88:THR:HG22	53:lh:90:ALA:H	1.86	0.40
53:lh:110:LYS:NZ	85:l5:111:C:OP1	2.35	0.40
64:sR:9:VAL:HG13	79:s2:1371:U:OP2	2.21	0.40
64:sR:29:HIS:H	79:s2:1455:A:C4'	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:sR:105:MET:O	64:sR:108:LEU:HG	2.22	0.40
72:sU:70:CYS:SG	72:sU:71:GLY:N	2.95	0.40
75:sg:89:LEU:HB2	75:sg:101:PHE:CZ	2.56	0.40
75:sg:220:ASP:HB3	75:sg:225:LYS:H	1.86	0.40
77:sZ:66:LYS:HB3	77:sZ:111:ARG:HD3	2.03	0.40
78:sf:132:MET:HG3	78:sf:140:TYR:O	2.21	0.40
79:s2:171:A:O2'	79:s2:172:U:H3'	2.22	0.40
79:s2:351:G:C2	79:s2:352:U:C6	3.09	0.40
79:s2:413:G:C2	79:s2:414:A:C8	3.09	0.40
79:s2:524:U:H1'	91:s2:1911:MG:MG	1.46	0.40
79:s2:736:C:H2'	79:s2:737:G:C8	2.56	0.40
79:s2:1119:A:H3'	79:s2:1120:U:C6	2.57	0.40
79:s2:1368:U:H2'	79:s2:1369:A:H5"	2.02	0.40
79:s2:1435:C:H4'	79:s2:1437:C:H41	1.85	0.40
79:s2:1499:U:H2'	79:s2:1500:G:C8	2.55	0.40
79:s2:1504:U:H5'	80:cB:712:ASP:OD1	2.21	0.40
79:s2:1671:G:C4	79:s2:1672:U:C5	3.10	0.40
79:s2:1823:A:H8	79:s2:1823:A:OP2	2.03	0.40
81:aP:52:G:C6	81:aP:63:G:C6	3.10	0.40
82:pE:9:A:H4'	82:pE:47:U:OP2	2.22	0.40
82:pE:31:A:C6	82:pE:32:C:C2	3.10	0.40
82:pE:56:C:H3'	82:pE:57:A:C8	2.56	0.40
84:lt:65:GLN:OE1	84:lt:66:ASN:N	2.55	0.40
85:l5:275:C:H2'	85:l5:276:C:C6	2.57	0.40
85:l5:1874:A:H2'	85:l5:1875:C:C6	2.57	0.40
85:l5:1879:C:O2'	85:l5:1891:A:N3	2.46	0.40
85:l5:1976:G:OP1	85:l5:1984:A:H4'	2.22	0.40
85:l5:2517:A:N3	85:l5:2539:C:O2'	2.54	0.40
85:l5:3656:A:H2'	85:l5:3657:U:H6	1.86	0.40
85:l5:4311:A:O2'	85:l5:4312:U:H5'	2.22	0.40
85:l5:4877:G:H2'	85:l5:4878:C:H6	1.87	0.40
86:LW:23:ARG:HA	86:LW:23:ARG:NE	2.36	0.40
2:SE:18:TRP:HB3	2:SE:20:LEU:HD13	2.04	0.40
2:SE:209:HIS:ND1	2:SE:219:ALA:HB2	2.37	0.40
3:SI:164:GLU:HA	3:SI:167:GLN:OE1	2.22	0.40
5:SX:107:ARG:CD	5:SX:112:VAL:HG22	2.52	0.40
6:SG:118:GLU:O	6:SG:119:LYS:HG3	2.22	0.40
6:SG:137:ARG:NH2	79:S2:146:G:N7	2.51	0.40
6:SG:175:LYS:HB3	79:S2:65:C:OP2	2.22	0.40
6:SG:190:ARG:HE	6:SG:194:LEU:HG	1.87	0.40
10:SA:11:LYS:O	10:SA:14:ASP:N	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:SA:76:VAL:HG12	10:SA:87:VAL:HB	2.03	0.40
10:SA:80:ARG:HG2	10:SA:80:ARG:NH1	2.36	0.40
10:SA:195:TRP:CD1	10:SA:197:VAL:H	2.39	0.40
12:SH:44:ASN:ND2	12:SH:65:PRO:HG3	2.29	0.40
12:SH:130:LEU:HB3	12:SH:177:TYR:CE1	2.56	0.40
14:Sa:5:ARG:HB3	79:S2:1865:C:C6	2.57	0.40
14:Sa:44:ILE:HG22	14:Sa:67:LEU:HB2	2.02	0.40
14:Sa:52:ASP:OD1	17:SO:117:ARG:NH2	2.55	0.40
14:Sa:100:ARG:NE	14:Sa:102:ARG:HE	2.15	0.40
16:SN:47:PRO:HG2	16:SN:72:LEU:HD13	2.03	0.40
16:SN:76:LYS:HB3	16:SN:76:LYS:HE3	1.72	0.40
17:SO:31:CYS:HB2	17:SO:93:LEU:HD12	2.02	0.40
18:SW:25:VAL:O	18:SW:62:VAL:HA	2.22	0.40
85:L5:217:C:H5”	85:L5:218:A:O4’	2.22	0.40
85:L5:1270:A:H2’	85:L5:2107:C:O2	2.21	0.40
85:L5:1294:A:H1’	85:L5:1296:G:N1	2.36	0.40
85:L5:1391:A:O2’	46:La:58:MET:CE	2.69	0.40
85:L5:1391:A:H1’	46:La:57:GLY:HA2	2.04	0.40
85:L5:1397:A:N7	46:La:114:LYS:HD2	2.36	0.40
85:L5:1592:G:O2’	85:L5:2840:A:OP1	2.34	0.40
85:L5:1802:A:N3	40:LT:130:ARG:NH2	2.41	0.40
85:L5:1866:U:H2’	85:L5:1867:A:O4’	2.20	0.40
85:L5:2474:G:H2’	85:L5:2502:G:N2	2.37	0.40
85:L5:2483:G:C6	85:L5:2496:G:C6	3.09	0.40
85:L5:2559:G:C6	85:L5:2569:G:C6	3.09	0.40
85:L5:2729:C:H2’	85:L5:2730:U:C6	2.57	0.40
85:L5:3650:C:H2’	85:L5:3651:A:H8	1.87	0.40
85:L5:3940:U:O3’	28:LG:75:LYS:NZ	2.55	0.40
85:L5:3971:G:C5	85:L5:4051:C:H1’	2.56	0.40
85:L5:4171:C:H2’	85:L5:4172:A:O4’	2.22	0.40
85:L5:4285:U:H2’	85:L5:4286:C:H6	1.86	0.40
85:L5:4489:G:C6	85:L5:4708:A:C5	3.09	0.40
85:L5:4879:C:C2	85:L5:4880:C:C5	3.09	0.40
85:L5:5043:A:H2’	85:L5:5044:A:C8	2.56	0.40
20:L7:18:C:H2’	20:L7:19:C:C6	2.57	0.40
20:L7:28:C:H1’	20:L7:54:A:H61	1.85	0.40
23:LB:286:LYS:HZ2	23:LB:288:GLY:HA2	1.87	0.40
23:LB:297:LYS:HD2	23:LB:299:ILE:HD11	2.03	0.40
23:LB:332:MET:HE1	23:LB:365:LEU:HD11	2.02	0.40
24:LC:150:LEU:HB3	24:LC:151:PRO:HD3	2.04	0.40
24:LC:304:ALA:HA	24:LC:305:PRO:HD3	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:LE:98:GLY:HA3	26:LE:99:ASP:HA	1.86	0.40
26:LE:224:LYS:HG2	26:LE:227:HIS:HB2	2.03	0.40
29:LH:51:LYS:HD2	29:LH:52:LYS:N	2.36	0.40
30:LI:46:PHE:CD1	30:LI:140:THR:HA	2.57	0.40
32:LL:7:GLY:O	46:La:49:HIS:NE2	2.46	0.40
35:LO:162:GLU:O	35:LO:166:ILE:HG23	2.22	0.40
36:LP:103:GLU:OE1	36:LP:104:LEU:N	2.55	0.40
38:LR:92:LYS:CG	38:LR:96:MET:HE1	2.33	0.40
40:LT:157:GLU:OE1	40:LT:159:MET:HE1	2.22	0.40
44:LY:69:LYS:HB3	44:LY:83:GLU:OE1	2.22	0.40
45:LZ:32:GLY:HA2	45:LZ:40:HIS:CE1	2.52	0.40
45:LZ:109:LYS:HB2	45:LZ:109:LYS:HE2	1.71	0.40
46:La:123:ILE:HD12	46:La:143:ALA:HB3	2.02	0.40
48:Lc:20:LEU:HD22	48:Lc:101:ASP:CB	2.30	0.40
48:Lc:80:GLU:O	48:Lc:84:ALA:N	2.38	0.40
60:Lo:14:LYS:HG2	60:Lo:77:CYS:HB2	2.03	0.40
66:SF:106:GLU:OE2	66:SF:107:ASN:N	2.54	0.40
67:SK:1:MET:O	79:S2:1314:U:O2'	2.34	0.40
67:SK:7:ASN:OD1	67:SK:7:ASN:N	2.54	0.40
69:SQ:101:ASP:OD2	69:SQ:102:GLU:N	2.55	0.40
70:SS:132:ARG:HG3	79:S2:1609:C:OP2	2.21	0.40
79:S2:24:C:O2'	79:S2:25:A:H8	2.03	0.40
79:S2:328:U:O2'	79:S2:329:G:O5'	2.35	0.40
79:S2:498:C:H2'	79:S2:499:G:C8	2.56	0.40
79:S2:1141:G:H2'	79:S2:1142:G:C8	2.56	0.40
79:S2:1380:C:H2'	79:S2:1381:G:H8	1.84	0.40
79:S2:1621:U:O2'	79:S2:1622:U:H2'	2.22	0.40
82:Et:22:G:H2'	82:Et:23:A:C8	2.55	0.40
88:CF:148:LEU:O	88:CF:188:VAL:HG23	2.21	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
1	cH	123/125 (98%)	106 (86%)	15 (12%)	2 (2%)	7 35
2	SE	260/262 (99%)	246 (95%)	14 (5%)	0	100 100
2	sE	260/262 (99%)	243 (94%)	17 (6%)	0	100 100
3	SI	204/206 (99%)	193 (95%)	11 (5%)	0	100 100
3	sI	204/206 (99%)	196 (96%)	8 (4%)	0	100 100
4	SL	151/153 (99%)	141 (93%)	10 (7%)	0	100 100
4	sL	151/153 (99%)	139 (92%)	12 (8%)	0	100 100
5	SX	139/141 (99%)	126 (91%)	13 (9%)	0	100 100
5	sX	139/141 (99%)	124 (89%)	14 (10%)	1 (1%)	18 51
6	SG	235/237 (99%)	222 (94%)	13 (6%)	0	100 100
6	sG	235/237 (99%)	224 (95%)	11 (5%)	0	100 100
7	SJ	183/185 (99%)	170 (93%)	13 (7%)	0	100 100
7	sJ	183/185 (99%)	175 (96%)	8 (4%)	0	100 100
8	SY	129/131 (98%)	121 (94%)	7 (5%)	1 (1%)	16 48
8	sY	129/131 (98%)	119 (92%)	10 (8%)	0	100 100
9	Se	56/58 (97%)	51 (91%)	5 (9%)	0	100 100
9	se	56/58 (97%)	46 (82%)	10 (18%)	0	100 100
10	SA	219/221 (99%)	200 (91%)	19 (9%)	0	100 100
10	sA	219/221 (99%)	186 (85%)	33 (15%)	0	100 100
11	SB	212/214 (99%)	198 (93%)	14 (7%)	0	100 100
11	sB	212/214 (99%)	200 (94%)	12 (6%)	0	100 100
12	SH	182/189 (96%)	162 (89%)	20 (11%)	0	100 100
12	sH	182/189 (96%)	158 (87%)	24 (13%)	0	100 100
13	SV	81/83 (98%)	73 (90%)	8 (10%)	0	100 100
13	sV	81/83 (98%)	73 (90%)	8 (10%)	0	100 100
14	Sa	100/102 (98%)	90 (90%)	10 (10%)	0	100 100
14	sa	100/102 (98%)	89 (89%)	11 (11%)	0	100 100
15	SC	220/222 (99%)	207 (94%)	13 (6%)	0	100 100
15	sC	220/222 (99%)	203 (92%)	17 (8%)	0	100 100
16	SN	148/150 (99%)	143 (97%)	5 (3%)	0	100 100
16	sN	148/150 (99%)	143 (97%)	5 (3%)	0	100 100
17	SO	138/140 (99%)	124 (90%)	14 (10%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
17	sO	138/140 (99%)	124 (90%)	14 (10%)	0	100	100
18	SW	127/129 (98%)	120 (94%)	7 (6%)	0	100	100
18	sW	127/129 (98%)	119 (94%)	8 (6%)	0	100	100
19	Sb	81/83 (98%)	69 (85%)	12 (15%)	0	100	100
19	sb	81/83 (98%)	72 (89%)	9 (11%)	0	100	100
22	LA	246/248 (99%)	221 (90%)	25 (10%)	0	100	100
22	lA	246/248 (99%)	222 (90%)	23 (9%)	1 (0%)	30	62
23	LB	400/402 (100%)	372 (93%)	28 (7%)	0	100	100
23	lB	400/402 (100%)	375 (94%)	25 (6%)	0	100	100
24	LC	366/368 (100%)	339 (93%)	27 (7%)	0	100	100
24	lC	366/368 (100%)	343 (94%)	23 (6%)	0	100	100
25	LD	291/293 (99%)	275 (94%)	16 (6%)	0	100	100
25	lD	291/293 (99%)	277 (95%)	14 (5%)	0	100	100
26	LE	232/247 (94%)	213 (92%)	19 (8%)	0	100	100
26	lE	232/247 (94%)	211 (91%)	21 (9%)	0	100	100
27	LF	223/225 (99%)	211 (95%)	12 (5%)	0	100	100
27	lF	223/225 (99%)	213 (96%)	10 (4%)	0	100	100
28	LG	239/241 (99%)	223 (93%)	16 (7%)	0	100	100
28	lG	239/241 (99%)	224 (94%)	15 (6%)	0	100	100
29	LH	188/190 (99%)	175 (93%)	13 (7%)	0	100	100
29	lH	188/190 (99%)	176 (94%)	12 (6%)	0	100	100
30	LI	198/213 (93%)	184 (93%)	14 (7%)	0	100	100
30	lI	198/213 (93%)	187 (94%)	11 (6%)	0	100	100
31	LJ	174/176 (99%)	154 (88%)	20 (12%)	0	100	100
31	lJ	174/176 (99%)	160 (92%)	14 (8%)	0	100	100
32	LL	208/210 (99%)	192 (92%)	16 (8%)	0	100	100
32	lL	208/210 (99%)	190 (91%)	18 (9%)	0	100	100
33	LM	137/139 (99%)	126 (92%)	10 (7%)	1 (1%)	18	51
33	lM	137/139 (99%)	125 (91%)	11 (8%)	1 (1%)	18	51
34	LN	201/203 (99%)	186 (92%)	14 (7%)	1 (0%)	24	57
34	lN	201/203 (99%)	191 (95%)	9 (4%)	1 (0%)	24	57

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
35	LO	199/201 (99%)	192 (96%)	7 (4%)	0	100	100
35	lO	199/201 (99%)	192 (96%)	7 (4%)	0	100	100
36	LP	151/153 (99%)	141 (93%)	10 (7%)	0	100	100
36	lP	151/153 (99%)	142 (94%)	9 (6%)	0	100	100
37	LQ	185/187 (99%)	178 (96%)	7 (4%)	0	100	100
37	lQ	185/187 (99%)	178 (96%)	7 (4%)	0	100	100
38	LR	185/187 (99%)	176 (95%)	9 (5%)	0	100	100
38	lR	185/187 (99%)	180 (97%)	5 (3%)	0	100	100
39	LS	173/175 (99%)	164 (95%)	9 (5%)	0	100	100
39	lS	173/175 (99%)	161 (93%)	12 (7%)	0	100	100
40	LT	157/159 (99%)	147 (94%)	10 (6%)	0	100	100
40	lT	157/159 (99%)	148 (94%)	9 (6%)	0	100	100
41	LU	99/101 (98%)	82 (83%)	17 (17%)	0	100	100
41	lU	99/101 (98%)	80 (81%)	19 (19%)	0	100	100
42	LV	129/131 (98%)	125 (97%)	4 (3%)	0	100	100
42	lV	129/131 (98%)	120 (93%)	9 (7%)	0	100	100
43	LX	118/120 (98%)	114 (97%)	4 (3%)	0	100	100
43	lX	118/120 (98%)	117 (99%)	1 (1%)	0	100	100
44	LY	132/134 (98%)	128 (97%)	4 (3%)	0	100	100
44	lY	132/134 (98%)	128 (97%)	4 (3%)	0	100	100
45	LZ	133/135 (98%)	123 (92%)	10 (8%)	0	100	100
45	lZ	133/135 (98%)	121 (91%)	12 (9%)	0	100	100
46	La	145/147 (99%)	137 (94%)	8 (6%)	0	100	100
46	la	145/147 (99%)	137 (94%)	8 (6%)	0	100	100
47	Lb	105/121 (87%)	95 (90%)	10 (10%)	0	100	100
47	lb	105/121 (87%)	96 (91%)	9 (9%)	0	100	100
48	Lc	96/98 (98%)	90 (94%)	6 (6%)	0	100	100
48	lc	96/98 (98%)	87 (91%)	9 (9%)	0	100	100
49	Ld	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
49	ld	105/107 (98%)	100 (95%)	5 (5%)	0	100	100
50	Le	126/128 (98%)	118 (94%)	8 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
50	le	126/128 (98%)	121 (96%)	5 (4%)	0	100	100
51	Lf	107/109 (98%)	98 (92%)	9 (8%)	0	100	100
51	lf	107/109 (98%)	98 (92%)	9 (8%)	0	100	100
52	Lg	112/114 (98%)	110 (98%)	2 (2%)	0	100	100
52	lg	112/114 (98%)	111 (99%)	1 (1%)	0	100	100
53	Lh	120/122 (98%)	117 (98%)	3 (2%)	0	100	100
53	lh	120/122 (98%)	116 (97%)	4 (3%)	0	100	100
54	Li	100/102 (98%)	98 (98%)	2 (2%)	0	100	100
54	li	100/102 (98%)	97 (97%)	3 (3%)	0	100	100
55	Lj	84/86 (98%)	72 (86%)	12 (14%)	0	100	100
55	lj	84/86 (98%)	77 (92%)	7 (8%)	0	100	100
56	Lk	67/69 (97%)	65 (97%)	2 (3%)	0	100	100
56	lk	67/69 (97%)	66 (98%)	1 (2%)	0	100	100
57	Ll	48/50 (96%)	45 (94%)	3 (6%)	0	100	100
57	ll	48/50 (96%)	46 (96%)	2 (4%)	0	100	100
58	Lm	50/52 (96%)	48 (96%)	2 (4%)	0	100	100
58	lm	50/52 (96%)	46 (92%)	4 (8%)	0	100	100
59	Ln	22/24 (92%)	22 (100%)	0	0	100	100
59	ln	22/24 (92%)	22 (100%)	0	0	100	100
60	Lo	103/105 (98%)	100 (97%)	3 (3%)	0	100	100
60	lo	103/105 (98%)	100 (97%)	3 (3%)	0	100	100
61	Lp	89/91 (98%)	83 (93%)	6 (7%)	0	100	100
61	lp	89/91 (98%)	86 (97%)	3 (3%)	0	100	100
62	Lr	123/125 (98%)	114 (93%)	9 (7%)	0	100	100
62	lr	123/125 (98%)	118 (96%)	5 (4%)	0	100	100
63	Lz	215/217 (99%)	172 (80%)	43 (20%)	0	100	100
63	lz	215/217 (99%)	170 (79%)	45 (21%)	0	100	100
64	SR	133/135 (98%)	120 (90%)	12 (9%)	1 (1%)	16	48
64	sR	133/135 (98%)	104 (78%)	26 (20%)	3 (2%)	5	30
65	SD	225/227 (99%)	205 (91%)	20 (9%)	0	100	100
65	sD	225/227 (99%)	207 (92%)	18 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
66	SF	187/189 (99%)	166 (89%)	21 (11%)	0	100	100
66	sF	187/189 (99%)	166 (89%)	21 (11%)	0	100	100
67	SK	96/98 (98%)	81 (84%)	12 (12%)	3 (3%)	3	25
67	sK	96/98 (98%)	84 (88%)	11 (12%)	1 (1%)	12	43
68	SP	119/121 (98%)	111 (93%)	8 (7%)	0	100	100
68	sP	119/121 (98%)	112 (94%)	7 (6%)	0	100	100
69	SQ	142/144 (99%)	123 (87%)	18 (13%)	1 (1%)	18	51
69	sQ	142/144 (99%)	123 (87%)	18 (13%)	1 (1%)	18	51
70	SS	143/145 (99%)	136 (95%)	7 (5%)	0	100	100
70	sS	143/145 (99%)	132 (92%)	11 (8%)	0	100	100
71	ST	141/143 (99%)	133 (94%)	7 (5%)	1 (1%)	18	51
71	sT	141/143 (99%)	128 (91%)	13 (9%)	0	100	100
72	SU	102/104 (98%)	94 (92%)	8 (8%)	0	100	100
72	sU	102/104 (98%)	95 (93%)	7 (7%)	0	100	100
73	Sc	62/64 (97%)	55 (89%)	7 (11%)	0	100	100
73	sc	62/64 (97%)	52 (84%)	10 (16%)	0	100	100
74	Sd	53/55 (96%)	47 (89%)	6 (11%)	0	100	100
74	sd	53/55 (96%)	48 (91%)	5 (9%)	0	100	100
75	Sg	311/313 (99%)	274 (88%)	37 (12%)	0	100	100
75	sg	311/313 (99%)	270 (87%)	41 (13%)	0	100	100
76	SM	120/122 (98%)	107 (89%)	13 (11%)	0	100	100
76	sM	120/122 (98%)	105 (88%)	14 (12%)	1 (1%)	16	48
77	SZ	73/75 (97%)	61 (84%)	12 (16%)	0	100	100
77	sZ	73/75 (97%)	58 (80%)	15 (20%)	0	100	100
78	Sf	65/67 (97%)	53 (82%)	12 (18%)	0	100	100
78	sf	65/67 (97%)	55 (85%)	10 (15%)	0	100	100
80	cB	842/846 (100%)	790 (94%)	49 (6%)	3 (0%)	30	62
83	Ls	194/196 (99%)	180 (93%)	14 (7%)	0	100	100
83	ls	194/196 (99%)	181 (93%)	12 (6%)	1 (0%)	24	57
84	Lt	137/141 (97%)	102 (74%)	33 (24%)	2 (2%)	8	36
84	lt	137/141 (97%)	108 (79%)	28 (20%)	1 (1%)	18	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
86	LW	114/124 (92%)	102 (90%)	11 (10%)	1 (1%)	14 45
88	CF	438/441 (99%)	420 (96%)	18 (4%)	0	100 100
All	All	25015/25436 (98%)	23064 (92%)	1922 (8%)	29 (0%)	49 79

All (29) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
67	sK	96	ARG
80	cB	407	LYS
80	cB	779	THR
83	ls	73	PRO
8	SY	52	PRO
64	SR	124	VAL
1	cH	38	VAL
5	sX	127	ASN
34	lN	124	ASP
64	sR	122	PRO
76	sM	96	ARG
84	lt	24	ALA
34	LN	124	ASP
67	SK	36	ALA
71	ST	41	LYS
84	Lt	144	ASP
84	Lt	148	PRO
33	lM	88	ALA
33	LM	88	ALA
67	SK	96	ARG
64	sR	124	VAL
64	sR	128	PHE
69	sQ	44	PRO
1	cH	45	ALA
80	cB	481	LYS
86	LW	53	VAL
67	SK	91	PRO
22	lA	55	GLY
69	SQ	43	GLU

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	
1	cH	100/100 (100%)	100 (100%)	0	100	100
2	SE	224/224 (100%)	224 (100%)	0	100	100
2	sE	224/224 (100%)	224 (100%)	0	100	100
3	SI	178/178 (100%)	178 (100%)	0	100	100
3	sI	178/178 (100%)	176 (99%)	2 (1%)	65	73
4	SL	137/137 (100%)	137 (100%)	0	100	100
4	sL	137/137 (100%)	136 (99%)	1 (1%)	76	77
5	SX	113/113 (100%)	113 (100%)	0	100	100
5	sX	113/113 (100%)	113 (100%)	0	100	100
6	SG	207/207 (100%)	206 (100%)	1 (0%)	81	81
6	sG	207/207 (100%)	205 (99%)	2 (1%)	68	74
7	SJ	161/161 (100%)	161 (100%)	0	100	100
7	sJ	161/161 (100%)	161 (100%)	0	100	100
8	SY	113/113 (100%)	113 (100%)	0	100	100
8	sY	113/113 (100%)	112 (99%)	1 (1%)	70	74
9	Se	47/47 (100%)	47 (100%)	0	100	100
9	se	47/47 (100%)	47 (100%)	0	100	100
10	SA	183/183 (100%)	181 (99%)	2 (1%)	65	73
10	sA	183/183 (100%)	182 (100%)	1 (0%)	81	81
11	SB	195/195 (100%)	194 (100%)	1 (0%)	81	81
11	sB	195/195 (100%)	194 (100%)	1 (0%)	81	81
12	SH	166/169 (98%)	165 (99%)	1 (1%)	78	79
12	sH	166/169 (98%)	166 (100%)	0	100	100
13	SV	67/67 (100%)	66 (98%)	1 (2%)	57	69
13	sV	67/67 (100%)	66 (98%)	1 (2%)	57	69
14	Sa	89/89 (100%)	88 (99%)	1 (1%)	65	73
14	sa	89/89 (100%)	89 (100%)	0	100	100
15	SC	188/188 (100%)	188 (100%)	0	100	100
15	sC	188/188 (100%)	187 (100%)	1 (0%)	81	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
16	SN	130/130 (100%)	128 (98%)	2 (2%)	57 69
16	sN	130/130 (100%)	130 (100%)	0	100 100
17	SO	110/110 (100%)	110 (100%)	0	100 100
17	sO	110/110 (100%)	108 (98%)	2 (2%)	51 67
18	SW	112/112 (100%)	111 (99%)	1 (1%)	70 74
18	sW	112/112 (100%)	111 (99%)	1 (1%)	70 74
19	Sb	75/75 (100%)	74 (99%)	1 (1%)	61 71
19	sb	75/75 (100%)	75 (100%)	0	100 100
22	LA	190/190 (100%)	190 (100%)	0	100 100
22	lA	190/190 (100%)	187 (98%)	3 (2%)	55 68
23	LB	348/348 (100%)	348 (100%)	0	100 100
23	lB	348/348 (100%)	348 (100%)	0	100 100
24	LC	306/306 (100%)	306 (100%)	0	100 100
24	lC	306/306 (100%)	306 (100%)	0	100 100
25	LD	246/247 (100%)	245 (100%)	1 (0%)	84 83
25	lD	246/247 (100%)	245 (100%)	1 (0%)	84 83
26	LE	209/220 (95%)	209 (100%)	0	100 100
26	lE	209/220 (95%)	206 (99%)	3 (1%)	59 70
27	LF	194/194 (100%)	193 (100%)	1 (0%)	81 81
27	lF	194/194 (100%)	194 (100%)	0	100 100
28	LG	203/205 (99%)	201 (99%)	2 (1%)	68 74
28	lG	203/205 (99%)	201 (99%)	2 (1%)	68 74
29	LH	169/169 (100%)	167 (99%)	2 (1%)	63 72
29	lH	169/169 (100%)	169 (100%)	0	100 100
30	LI	172/180 (96%)	172 (100%)	0	100 100
30	lI	172/180 (96%)	172 (100%)	0	100 100
31	LJ	148/148 (100%)	148 (100%)	0	100 100
31	lJ	148/148 (100%)	147 (99%)	1 (1%)	76 77
32	LL	176/176 (100%)	176 (100%)	0	100 100
32	lL	176/176 (100%)	175 (99%)	1 (1%)	78 79
33	LM	118/118 (100%)	118 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
33	lM	118/118 (100%)	116 (98%)	2 (2%)	53 67
34	LN	171/171 (100%)	169 (99%)	2 (1%)	63 72
34	lN	171/171 (100%)	171 (100%)	0	100 100
35	LO	173/173 (100%)	172 (99%)	1 (1%)	78 79
35	lO	173/173 (100%)	173 (100%)	0	100 100
36	LP	134/134 (100%)	133 (99%)	1 (1%)	76 77
36	lP	134/134 (100%)	134 (100%)	0	100 100
37	LQ	164/164 (100%)	164 (100%)	0	100 100
37	lQ	164/164 (100%)	162 (99%)	2 (1%)	63 72
38	LR	166/166 (100%)	166 (100%)	0	100 100
38	lR	166/166 (100%)	166 (100%)	0	100 100
39	LS	156/156 (100%)	156 (100%)	0	100 100
39	lS	156/156 (100%)	155 (99%)	1 (1%)	78 79
40	LT	139/139 (100%)	138 (99%)	1 (1%)	76 77
40	lT	139/139 (100%)	139 (100%)	0	100 100
41	LU	91/91 (100%)	91 (100%)	0	100 100
41	lU	91/91 (100%)	90 (99%)	1 (1%)	65 73
42	LV	101/101 (100%)	101 (100%)	0	100 100
42	lV	101/101 (100%)	101 (100%)	0	100 100
43	LX	108/108 (100%)	108 (100%)	0	100 100
43	lX	108/108 (100%)	105 (97%)	3 (3%)	38 58
44	LY	124/124 (100%)	124 (100%)	0	100 100
44	lY	124/124 (100%)	124 (100%)	0	100 100
45	LZ	117/117 (100%)	117 (100%)	0	100 100
45	lZ	117/117 (100%)	117 (100%)	0	100 100
46	La	120/120 (100%)	119 (99%)	1 (1%)	73 76
46	la	120/120 (100%)	120 (100%)	0	100 100
47	Lb	88/101 (87%)	88 (100%)	0	100 100
47	lb	88/101 (87%)	88 (100%)	0	100 100
48	Lc	83/83 (100%)	82 (99%)	1 (1%)	63 72
48	lc	83/83 (100%)	82 (99%)	1 (1%)	63 72

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
49	Ld	98/98 (100%)	98 (100%)	0	100	100
49	ld	98/98 (100%)	97 (99%)	1 (1%)	68	74
50	Le	114/114 (100%)	113 (99%)	1 (1%)	70	74
50	le	114/114 (100%)	114 (100%)	0	100	100
51	Lf	88/88 (100%)	88 (100%)	0	100	100
51	lf	88/88 (100%)	87 (99%)	1 (1%)	65	73
52	Lg	98/98 (100%)	98 (100%)	0	100	100
52	lg	98/98 (100%)	98 (100%)	0	100	100
53	Lh	109/109 (100%)	109 (100%)	0	100	100
53	lh	109/109 (100%)	109 (100%)	0	100	100
54	Li	86/86 (100%)	85 (99%)	1 (1%)	63	72
54	li	86/86 (100%)	86 (100%)	0	100	100
55	Lj	73/73 (100%)	73 (100%)	0	100	100
55	lj	73/73 (100%)	73 (100%)	0	100	100
56	Lk	64/64 (100%)	64 (100%)	0	100	100
56	lk	64/64 (100%)	64 (100%)	0	100	100
57	Ll	47/47 (100%)	47 (100%)	0	100	100
57	ll	47/47 (100%)	47 (100%)	0	100	100
58	Lm	48/48 (100%)	48 (100%)	0	100	100
58	lm	48/48 (100%)	47 (98%)	1 (2%)	47	64
59	Ln	23/23 (100%)	23 (100%)	0	100	100
59	ln	23/23 (100%)	23 (100%)	0	100	100
60	Lo	93/93 (100%)	93 (100%)	0	100	100
60	lo	93/93 (100%)	92 (99%)	1 (1%)	65	73
61	Lp	74/74 (100%)	74 (100%)	0	100	100
61	lp	74/74 (100%)	72 (97%)	2 (3%)	39	59
62	Lr	109/109 (100%)	109 (100%)	0	100	100
62	lr	109/109 (100%)	109 (100%)	0	100	100
63	Lz	195/196 (100%)	195 (100%)	0	100	100
63	lz	195/196 (100%)	194 (100%)	1 (0%)	81	81
64	SR	122/122 (100%)	120 (98%)	2 (2%)	55	68

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
64	sR	122/122 (100%)	121 (99%)	1 (1%)	73 76
65	SD	190/190 (100%)	190 (100%)	0	100 100
65	sD	190/190 (100%)	188 (99%)	2 (1%)	65 73
66	SF	159/159 (100%)	158 (99%)	1 (1%)	78 79
66	sF	159/159 (100%)	158 (99%)	1 (1%)	78 79
67	SK	89/89 (100%)	86 (97%)	3 (3%)	32 55
67	sK	89/89 (100%)	89 (100%)	0	100 100
68	SP	107/107 (100%)	106 (99%)	1 (1%)	70 74
68	sP	107/107 (100%)	105 (98%)	2 (2%)	50 66
69	SQ	119/119 (100%)	118 (99%)	1 (1%)	73 76
69	sQ	119/119 (100%)	119 (100%)	0	100 100
70	SS	126/126 (100%)	126 (100%)	0	100 100
70	sS	126/126 (100%)	126 (100%)	0	100 100
71	ST	113/113 (100%)	112 (99%)	1 (1%)	70 74
71	sT	113/113 (100%)	110 (97%)	3 (3%)	39 59
72	SU	94/94 (100%)	94 (100%)	0	100 100
72	sU	94/94 (100%)	91 (97%)	3 (3%)	34 56
73	Sc	57/57 (100%)	56 (98%)	1 (2%)	51 67
73	sc	57/57 (100%)	57 (100%)	0	100 100
74	Sd	48/48 (100%)	48 (100%)	0	100 100
74	sd	48/48 (100%)	48 (100%)	0	100 100
75	Sg	272/272 (100%)	271 (100%)	1 (0%)	84 83
75	sg	272/272 (100%)	270 (99%)	2 (1%)	76 77
76	SM	102/104 (98%)	102 (100%)	0	100 100
76	sM	102/104 (98%)	101 (99%)	1 (1%)	68 74
77	SZ	66/66 (100%)	64 (97%)	2 (3%)	36 57
77	sZ	66/66 (100%)	62 (94%)	4 (6%)	17 43
78	Sf	60/60 (100%)	60 (100%)	0	100 100
78	sf	60/60 (100%)	60 (100%)	0	100 100
80	cB	722/723 (100%)	718 (99%)	4 (1%)	78 79
83	Ls	162/164 (99%)	162 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
83	ls	162/164 (99%)	162 (100%)	0	100 100
84	Lt	112/115 (97%)	112 (100%)	0	100 100
84	lt	112/115 (97%)	112 (100%)	0	100 100
86	LW	97/103 (94%)	97 (100%)	0	100 100
88	CF	365/366 (100%)	364 (100%)	1 (0%)	86 84
All	All	21736/21836 (100%)	21632 (100%)	104 (0%)	78 81

All (104) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	sI	26	LYS
3	sI	107	THR
4	sL	40	ILE
6	sG	7	PHE
6	sG	27	PHE
8	sY	114	MET
10	sA	193	HIS
11	sB	151	ARG
13	sV	23	ILE
15	sC	65	LYS
17	sO	27	VAL
17	sO	83	GLN
18	sW	47	ILE
22	lA	175	ILE
22	lA	207	VAL
22	lA	217	GLN
25	lD	136	ASP
26	lE	135	GLN
26	lE	175	VAL
26	lE	205	ASN
28	lG	100	HIS
28	lG	210	GLU
31	lJ	100	SER
32	lL	98	VAL
33	lM	27	ILE
33	lM	69	HIS
37	lQ	66	MET
37	lQ	188	ASN
39	lS	173	ASN
41	lU	63	ILE

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Mol	Chain	Res	Type
43	lX	45	THR
43	lX	116	LEU
43	lX	149	VAL
48	lc	47	ILE
49	ld	59	THR
51	lf	57	THR
58	lm	91	CYS
60	lo	96	ASP
61	lp	25	MET
61	lp	41	PHE
63	lz	82	ILE
64	sR	34	VAL
65	sD	143	ARG
65	sD	150	MET
66	sF	102	LEU
68	sP	82	ASP
68	sP	84	ILE
71	sT	10	ASN
71	sT	88	MET
71	sT	133	ARG
72	sU	22	ILE
72	sU	32	LEU
72	sU	76	THR
75	sg	30	MET
75	sg	108	VAL
76	sM	60	MET
77	sZ	47	LEU
77	sZ	58	LEU
77	sZ	89	GLN
77	sZ	92	LEU
80	cB	9	ILE
80	cB	671	TYR
80	cB	697	MET
80	cB	704	VAL
6	SG	217	MET
10	SA	42	LYS
10	SA	145	ILE
11	SB	229	MET
12	SH	157	HIS
13	SV	69	ILE
14	Sa	3	LYS
16	SN	43	LYS

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Mol	Chain	Res	Type
16	SN	145	THR
18	SW	40	VAL
19	Sb	3	LEU
25	LD	173	ILE
27	LF	247	MET
28	LG	131	LYS
28	LG	240	ASN
29	LH	177	ASP
29	LH	180	TYR
34	LN	7	ILE
34	LN	25	VAL
35	LO	120	VAL
36	LP	152	GLU
40	LT	63	ARG
46	La	134	GLU
48	Lc	60	ILE
50	Le	54	LEU
54	Li	34	THR
64	SR	79	GLU
64	SR	106	LEU
66	SF	41	VAL
67	SK	7	ASN
67	SK	15	LEU
67	SK	21	MET
68	SP	37	TYR
69	SQ	113	ILE
71	ST	21	PHE
73	Sc	7	GLN
75	Sg	129	ILE
77	SZ	61	GLU
77	SZ	66	LYS
88	CF	417	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (192) such sidechains are listed below:

Mol	Chain	Res	Type
1	cH	48	GLN
2	sE	98	ASN
2	sE	142	HIS
4	sL	5	GLN
4	sL	13	GLN
4	sL	19	ASN

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Mol	Chain	Res	Type
5	sX	87	ASN
6	sG	146	ASN
6	sG	197	GLN
7	sJ	177	ASN
8	sY	15	ASN
8	sY	22	GLN
8	sY	63	HIS
11	sB	75	GLN
11	sB	101	HIS
12	sH	25	GLN
12	sH	76	GLN
12	sH	162	GLN
12	sH	163	GLN
12	sH	193	GLN
13	sV	29	HIS
14	sa	8	ASN
16	sN	58	HIS
16	sN	90	HIS
17	sO	32	HIS
18	sW	24	GLN
18	sW	90	GLN
19	sb	83	GLN
22	lA	50	HIS
22	lA	86	GLN
22	lA	217	GLN
23	lB	3	HIS
23	lB	145	GLN
23	lB	184	GLN
23	lB	213	GLN
23	lB	271	GLN
24	lC	236	ASN
24	lC	286	ASN
24	lC	310	HIS
26	lE	228	GLN
26	lE	250	GLN
27	lF	58	HIS
27	lF	119	ASN
27	lF	239	GLN
28	lG	43	GLN
28	lG	236	HIS
29	lH	163	GLN
29	lH	189	GLN

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Mol	Chain	Res	Type
30	lI	51	HIS
30	lI	133	GLN
30	lI	213	HIS
31	lJ	46	GLN
32	lL	111	GLN
32	lL	205	GLN
33	lM	33	GLN
33	lM	56	GLN
33	lM	131	GLN
34	lN	117	ASN
35	lO	96	GLN
36	lP	118	GLN
36	lP	133	HIS
37	lQ	44	ASN
37	lQ	188	ASN
38	lR	34	ASN
38	lR	118	HIS
39	lS	50	GLN
40	lT	90	ASN
40	lT	127	GLN
44	lY	72	GLN
46	la	62	HIS
46	la	66	ASN
48	lc	51	ASN
50	le	43	ASN
51	lf	91	ASN
51	lf	99	HIS
52	lg	114	GLN
55	lj	13	ASN
58	lm	90	ASN
60	lo	19	GLN
61	lp	92	GLN
63	lz	141	ASN
63	lz	171	HIS
65	sD	179	GLN
67	sK	28	HIS
67	sK	61	GLN
69	sQ	11	GLN
69	sQ	86	GLN
70	sS	101	ASN
71	sT	85	ASN
71	sT	126	GLN

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Mol	Chain	Res	Type
71	sT	128	GLN
75	sg	272	GLN
75	sg	285	GLN
76	sM	28	HIS
76	sM	119	GLN
77	sZ	106	GLN
78	sf	91	ASN
80	cB	3	ASN
80	cB	27	HIS
80	cB	468	ASN
80	cB	492	HIS
80	cB	588	ASN
80	cB	600	ASN
80	cB	705	HIS
80	cB	710	HIS
80	cB	769	HIS
83	ls	105	ASN
83	ls	191	GLN
2	SE	161	GLN
2	SE	179	ASN
4	SL	19	ASN
4	SL	106	HIS
6	SG	4	ASN
6	SG	56	ASN
6	SG	65	GLN
7	SJ	39	ASN
7	SJ	113	GLN
8	SY	19	GLN
8	SY	124	ASN
9	Se	15	GLN
10	SA	149	ASN
10	SA	165	ASN
10	SA	169	HIS
11	SB	92	GLN
12	SH	44	ASN
12	SH	157	HIS
13	SV	35	ASN
14	Sa	8	ASN
15	SC	134	ASN
15	SC	267	GLN
16	SN	49	GLN
17	SO	83	GLN

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Mol	Chain	Res	Type
23	LB	184	GLN
23	LB	302	ASN
23	LB	315	ASN
25	LD	39	GLN
25	LD	111	ASN
25	LD	131	ASN
25	LD	198	HIS
27	LF	99	ASN
28	LG	66	GLN
28	LG	112	GLN
29	LH	42	ASN
30	LI	143	GLN
30	LI	147	HIS
31	LJ	42	GLN
31	LJ	71	HIS
31	LJ	104	ASN
31	LJ	155	HIS
31	LJ	167	GLN
33	LM	69	HIS
33	LM	125	ASN
34	LN	145	ASN
36	LP	21	ASN
36	LP	133	HIS
36	LP	137	ASN
37	LQ	77	ASN
37	LQ	188	ASN
40	LT	112	ASN
40	LT	131	GLN
42	LV	84	GLN
43	LX	93	ASN
43	LX	151	ASN
44	LY	56	GLN
44	LY	72	GLN
44	LY	86	GLN
46	La	39	HIS
47	Lb	58	GLN
49	Ld	69	ASN
50	Le	80	HIS
50	Le	92	ASN
52	Lg	114	GLN
55	Lj	13	ASN
57	Ll	43	HIS

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Mol	Chain	Res	Type
62	Lr	36	ASN
62	Lr	70	GLN
65	SD	226	GLN
68	SP	46	ASN
69	SQ	114	GLN
70	SS	87	GLN
70	SS	101	ASN
70	SS	135	HIS
75	Sg	119	GLN
76	SM	19	GLN
76	SM	72	HIS
77	SZ	45	ASN
88	CF	147	GLN
88	CF	343	GLN
88	CF	349	HIS
84	Lt	111	ASN
84	Lt	115	GLN
83	Ls	42	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
20	L7	119/120 (99%)	12 (10%)	0
20	l7	119/120 (99%)	14 (11%)	0
21	L8	155/156 (99%)	32 (20%)	0
21	l8	155/156 (99%)	30 (19%)	0
79	S2	1714/1740 (98%)	431 (25%)	11 (0%)
79	s2	1713/1740 (98%)	496 (28%)	0
81	aP	69/71 (97%)	22 (31%)	0
82	Et	73/75 (97%)	30 (41%)	0
82	pE	73/75 (97%)	35 (47%)	0
85	L5	3703/3740 (99%)	881 (23%)	25 (0%)
85	l5	3704/3740 (99%)	876 (23%)	0
87	AT	74/77 (96%)	24 (32%)	0
89	Pt	72/74 (97%)	16 (22%)	0
All	All	11743/11884 (98%)	2899 (24%)	36 (0%)

All (2899) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
20	l7	2	U

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Mol	Chain	Res	Type
20	l7	7	G
20	l7	22	A
20	l7	24	C
20	l7	33	U
20	l7	38	U
20	l7	53	U
20	l7	54	A
20	l7	63	C
20	l7	64	G
20	l7	76	U
20	l7	97	G
20	l7	100	A
20	l7	111	C
21	l8	34	U
21	l8	35	C
21	l8	39	G
21	l8	46	G
21	l8	48	A
21	l8	59	A
21	l8	62	A
21	l8	63	U
21	l8	68	G
21	l8	80	A
21	l8	82	A
21	l8	83	C
21	l8	84	A
21	l8	85	U
21	l8	86	U
21	l8	87	G
21	l8	94	G
21	l8	103	A
21	l8	105	C
21	l8	110	U
21	l8	111	U
21	l8	112	G
21	l8	114	G
21	l8	123	U
21	l8	124	U
21	l8	125	C
21	l8	126	C
21	l8	127	U
21	l8	147	G

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Mol	Chain	Res	Type
21	l8	151	G
79	s2	4	C
79	s2	11	A
79	s2	13	C
79	s2	14	C
79	s2	17	C
79	s2	25	A
79	s2	33	G
79	s2	37	C
79	s2	41	G
79	s2	42	A
79	s2	45	A
79	s2	46	A
79	s2	56	G
79	s2	58	C
79	s2	62	G
79	s2	64	A
79	s2	66	G
79	s2	67	C
79	s2	68	A
79	s2	72	C
79	s2	73	C
79	s2	74	G
79	s2	76	U
79	s2	77	A
79	s2	92	A
79	s2	103	A
79	s2	113	G
79	s2	114	G
79	s2	115	U
79	s2	116	U
79	s2	126	G
79	s2	130	G
79	s2	143	U
79	s2	147	A
79	s2	149	A
79	s2	158	A
79	s2	160	U
79	s2	161	U
79	s2	162	C
79	s2	163	U
79	s2	168	C

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Mol	Chain	Res	Type
79	s2	170	A
79	s2	175	A
79	s2	179	C
79	s2	182	C
79	s2	190	G
79	s2	191	A
79	s2	196	C
79	s2	197	U
79	s2	198	U
79	s2	200	G
79	s2	202	G
79	s2	203	G
79	s2	204	G
79	s2	206	G
79	s2	207	G
79	s2	208	G
79	s2	209	A
79	s2	212	C
79	s2	214	U
79	s2	220	U
79	s2	291	G
79	s2	292	A
79	s2	294	U
79	s2	295	C
79	s2	303	C
79	s2	305	U
79	s2	306	C
79	s2	307	G
79	s2	308	G
79	s2	309	G
79	s2	310	C
79	s2	311	C
79	s2	312	G
79	s2	317	C
79	s2	318	A
79	s2	319	C
79	s2	323	C
79	s2	324	C
79	s2	325	C
79	s2	326	C
79	s2	327	G
79	s2	328	U

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Mol	Chain	Res	Type
79	s2	329	G
79	s2	332	G
79	s2	335	G
79	s2	338	G
79	s2	339	A
79	s2	340	C
79	s2	347	G
79	s2	351	G
79	s2	360	A
79	s2	361	U
79	s2	362	C
79	s2	363	A
79	s2	364	A
79	s2	368	U
79	s2	370	G
79	s2	374	G
79	s2	384	U
79	s2	385	G
79	s2	386	C
79	s2	407	G
79	s2	408	A
79	s2	409	C
79	s2	421	G
79	s2	437	G
79	s2	442	C
79	s2	448	A
79	s2	449	A
79	s2	450	C
79	s2	452	G
79	s2	464	A
79	s2	465	A
79	s2	471	G
79	s2	472	C
79	s2	473	A
79	s2	474	G
79	s2	476	A
79	s2	487	U
79	s2	488	U
79	s2	492	C
79	s2	493	A
79	s2	496	C
79	s2	502	C

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Mol	Chain	Res	Type
79	s2	503	C
79	s2	516	A
79	s2	517	C
79	s2	532	C
79	s2	533	A
79	s2	534	G
79	s2	536	A
79	s2	537	C
79	s2	540	U
79	s2	541	U
79	s2	542	U
79	s2	544	G
79	s2	546	G
79	s2	547	G
79	s2	551	U
79	s2	553	U
79	s2	555	A
79	s2	557	U
79	s2	558	G
79	s2	559	G
79	s2	563	G
79	s2	564	A
79	s2	576	A
79	s2	583	A
79	s2	585	C
79	s2	587	A
79	s2	589	G
79	s2	590	A
79	s2	591	U
79	s2	593	C
79	s2	594	A
79	s2	603	C
79	s2	608	C
79	s2	610	G
79	s2	614	C
79	s2	615	C
79	s2	616	A
79	s2	617	G
79	s2	623	G
79	s2	627	U
79	s2	628	A
79	s2	629	A

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Mol	Chain	Res	Type
79	s2	631	U
79	s2	638	C
79	s2	643	A
79	s2	644	G
79	s2	660	C
79	s2	664	A
79	s2	668	A
79	s2	669	A
79	s2	671	A
79	s2	672	A
79	s2	673	G
79	s2	684	G
79	s2	688	U
79	s2	689	U
79	s2	692	G
79	s2	693	A
79	s2	694	G
79	s2	695	C
79	s2	696	G
79	s2	697	G
79	s2	698	G
79	s2	731	G
79	s2	732	U
79	s2	734	C
79	s2	736	C
79	s2	738	C
79	s2	749	U
79	s2	750	C
79	s2	751	G
79	s2	752	G
79	s2	753	C
79	s2	788	G
79	s2	791	C
79	s2	792	C
79	s2	794	A
79	s2	797	C
79	s2	798	G
79	s2	799	U
79	s2	801	U
79	s2	812	A
79	s2	821	G
79	s2	822	U

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Mol	Chain	Res	Type
79	s2	823	U
79	s2	824	C
79	s2	827	A
79	s2	830	A
79	s2	833	C
79	s2	834	C
79	s2	835	C
79	s2	836	G
79	s2	837	A
79	s2	838	G
79	s2	839	C
79	s2	842	C
79	s2	844	U
79	s2	847	A
79	s2	869	A
79	s2	870	A
79	s2	871	U
79	s2	872	A
79	s2	873	G
79	s2	874	G
79	s2	877	C
79	s2	878	G
79	s2	882	U
79	s2	888	U
79	s2	889	U
79	s2	890	U
79	s2	891	G
79	s2	892	U
79	s2	893	U
79	s2	896	U
79	s2	898	U
79	s2	899	U
79	s2	900	C
79	s2	901	G
79	s2	903	A
79	s2	905	C
79	s2	913	A
79	s2	917	U
79	s2	919	A
79	s2	920	A
79	s2	925	G
79	s2	933	G

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Mol	Chain	Res	Type
79	s2	934	G
79	s2	943	U
79	s2	949	G
79	s2	954	U
79	s2	955	A
79	s2	963	A
79	s2	971	G
79	s2	972	A
79	s2	979	C
79	s2	988	C
79	s2	990	A
79	s2	992	A
79	s2	997	A
79	s2	999	G
79	s2	1001	A
79	s2	1002	U
79	s2	1008	A
79	s2	1017	U
79	s2	1023	A
79	s2	1027	A
79	s2	1042	A
79	s2	1045	U
79	s2	1047	C
79	s2	1058	A
79	s2	1061	U
79	s2	1062	A
79	s2	1067	C
79	s2	1083	A
79	s2	1085	C
79	s2	1088	U
79	s2	1100	A
79	s2	1109	C
79	s2	1110	G
79	s2	1113	A
79	s2	1114	U
79	s2	1115	U
79	s2	1116	C
79	s2	1117	C
79	s2	1118	C
79	s2	1119	A
79	s2	1121	G
79	s2	1124	C

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Mol	Chain	Res	Type
79	s2	1133	A
79	s2	1138	C
79	s2	1148	A
79	s2	1149	A
79	s2	1153	C
79	s2	1154	U
79	s2	1155	U
79	s2	1170	A
79	s2	1195	A
79	s2	1200	A
79	s2	1207	G
79	s2	1208	A
79	s2	1211	G
79	s2	1213	C
79	s2	1215	C
79	s2	1216	C
79	s2	1217	A
79	s2	1220	A
79	s2	1224	G
79	s2	1227	G
79	s2	1237	C
79	s2	1240	A
79	s2	1242	U
79	s2	1243	U
79	s2	1251	A
79	s2	1253	A
79	s2	1256	G
79	s2	1257	G
79	s2	1259	A
79	s2	1263	U
79	s2	1264	C
79	s2	1274	G
79	s2	1275	G
79	s2	1281	G
79	s2	1283	C
79	s2	1284	A
79	s2	1286	G
79	s2	1287	A
79	s2	1290	G
79	s2	1294	G
79	s2	1295	A
79	s2	1301	A

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Mol	Chain	Res	Type
79	s2	1302	G
79	s2	1303	C
79	s2	1306	U
79	s2	1308	U
79	s2	1342	U
79	s2	1354	G
79	s2	1355	C
79	s2	1356	G
79	s2	1357	A
79	s2	1358	U
79	s2	1369	A
79	s2	1370	A
79	s2	1371	U
79	s2	1372	U
79	s2	1373	C
79	s2	1375	G
79	s2	1376	A
79	s2	1378	A
79	s2	1388	A
79	s2	1389	C
79	s2	1393	G
79	s2	1401	A
79	s2	1402	A
79	s2	1406	G
79	s2	1407	U
79	s2	1408	U
79	s2	1411	G
79	s2	1413	G
79	s2	1415	C
79	s2	1419	C
79	s2	1420	G
79	s2	1421	A
79	s2	1422	G
79	s2	1423	C
79	s2	1424	G
79	s2	1425	G
79	s2	1428	G
79	s2	1433	C
79	s2	1434	C
79	s2	1435	C
79	s2	1436	C
79	s2	1438	A

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Mol	Chain	Res	Type
79	s2	1442	U
79	s2	1449	G
79	s2	1450	G
79	s2	1452	A
79	s2	1453	C
79	s2	1454	A
79	s2	1456	G
79	s2	1459	G
79	s2	1463	U
79	s2	1464	C
79	s2	1476	A
79	s2	1478	U
79	s2	1479	G
79	s2	1486	A
79	s2	1489	A
79	s2	1490	G
79	s2	1494	U
79	s2	1495	G
79	s2	1497	G
79	s2	1498	A
79	s2	1507	G
79	s2	1508	A
79	s2	1521	C
79	s2	1522	A
79	s2	1533	A
79	s2	1535	U
79	s2	1536	G
79	s2	1537	A
79	s2	1544	C
79	s2	1546	G
79	s2	1551	U
79	s2	1552	G
79	s2	1555	U
79	s2	1556	A
79	s2	1567	G
79	s2	1570	G
79	s2	1574	C
79	s2	1578	U
79	s2	1579	A
79	s2	1580	A
79	s2	1581	C
79	s2	1585	U

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Mol	Chain	Res	Type
79	s2	1586	U
79	s2	1587	G
79	s2	1588	A
79	s2	1594	A
79	s2	1599	U
79	s2	1600	G
79	s2	1601	A
79	s2	1603	G
79	s2	1604	G
79	s2	1606	G
79	s2	1621	U
79	s2	1623	A
79	s2	1629	C
79	s2	1630	A
79	s2	1633	A
79	s2	1637	A
79	s2	1638	G
79	s2	1639	G
79	s2	1640	A
79	s2	1646	C
79	s2	1648	G
79	s2	1649	U
79	s2	1654	G
79	s2	1663	A
79	s2	1664	A
79	s2	1665	G
79	s2	1671	G
79	s2	1680	G
79	s2	1694	U
79	s2	1695	A
79	s2	1696	C
79	s2	1699	A
79	s2	1712	A
79	s2	1715	A
79	s2	1722	G
79	s2	1729	U
79	s2	1743	G
79	s2	1744	G
79	s2	1745	A
79	s2	1752	C
79	s2	1753	C
79	s2	1754	G

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Mol	Chain	Res	Type
79	s2	1755	C
79	s2	1757	G
79	s2	1758	G
79	s2	1759	G
79	s2	1761	U
79	s2	1772	C
79	s2	1773	C
79	s2	1774	C
79	s2	1777	G
79	s2	1780	G
79	s2	1781	A
79	s2	1782	G
79	s2	1783	C
79	s2	1784	G
79	s2	1785	C
79	s2	1787	G
79	s2	1789	G
79	s2	1798	C
79	s2	1809	A
79	s2	1810	U
79	s2	1812	U
79	s2	1813	A
79	s2	1820	G
79	s2	1822	A
79	s2	1823	A
79	s2	1825	A
79	s2	1826	G
79	s2	1835	A
79	s2	1838	U
79	s2	1849	G
79	s2	1852	C
79	s2	1861	G
79	s2	1862	G
79	s2	1863	A
79	s2	1865	C
81	aP	8	U
81	aP	9	A
81	aP	10	G
81	aP	11	U
81	aP	13	U
81	aP	14	A
81	aP	19	G

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Mol	Chain	Res	Type
81	aP	20(A)	U
81	aP	21	A
81	aP	25	C
81	aP	26	G
81	aP	31	C
81	aP	47	U
81	aP	48	C
81	aP	49	C
81	aP	54	U
81	aP	55	U
81	aP	56	C
81	aP	58	A
81	aP	66	C
81	aP	67	G
81	aP	70	A
82	pE	4	C
82	pE	8	U
82	pE	9	A
82	pE	10	G
82	pE	11	C
82	pE	16	C
82	pE	19	G
82	pE	20	U
82	pE	21	A
82	pE	25	C
82	pE	26	A
82	pE	27	U
82	pE	31	A
82	pE	34	U
82	pE	35	U
82	pE	38	A
82	pE	39	U
82	pE	40	C
82	pE	46	G
82	pE	47	U
82	pE	48	C
82	pE	50	A
82	pE	52	G
82	pE	54	U
82	pE	55	U
82	pE	56	C
82	pE	58	A

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Mol	Chain	Res	Type
82	pE	61	C
82	pE	65	G
82	pE	67	U
82	pE	68	C
82	pE	69	G
82	pE	70	G
82	pE	71	G
82	pE	76	A
85	l5	2	G
85	l5	6	C
85	l5	17	A
85	l5	25	A
85	l5	26	C
85	l5	30	C
85	l5	39	A
85	l5	42	A
85	l5	48	G
85	l5	56	A
85	l5	59	A
85	l5	64	A
85	l5	65	A
85	l5	73	A
85	l5	74	G
85	l5	91	G
85	l5	104	G
85	l5	108	A
85	l5	109	G
85	l5	110	C
85	l5	119	G
85	l5	120	A
85	l5	132	G
85	l5	133	C
85	l5	134	G
85	l5	135	G
85	l5	136	C
85	l5	144	G
85	l5	152	U
85	l5	159	C
85	l5	165	A
85	l5	170	C
85	l5	171	U
85	l5	172	C

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Mol	Chain	Res	Type
85	l5	181	C
85	l5	183	C
85	l5	184	U
85	l5	185	C
85	l5	187	U
85	l5	188	G
85	l5	189	G
85	l5	200	U
85	l5	209	U
85	l5	216	C
85	l5	218	A
85	l5	220	C
85	l5	234	G
85	l5	235	A
85	l5	237	G
85	l5	255	C
85	l5	256	G
85	l5	261	G
85	l5	263	G
85	l5	264	C
85	l5	265	C
85	l5	266	C
85	l5	267	G
85	l5	269	G
85	l5	275	C
85	l5	276	C
85	l5	280	G
85	l5	297	U
85	l5	306	A
85	l5	315	G
85	l5	316	U
85	l5	340	C
85	l5	350	C
85	l5	373	G
85	l5	385	A
85	l5	387	G
85	l5	388	A
85	l5	396	A
85	l5	401	G
85	l5	407	A
85	l5	409	G
85	l5	410	A

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Mol	Chain	Res	Type
85	l5	411	G
85	l5	412	G
85	l5	413	G
85	l5	431	G
85	l5	432	U
85	l5	433	A
85	l5	438	G
85	l5	449	C
85	l5	450	G
85	l5	452	A
85	l5	453	G
85	l5	454	U
85	l5	456	C
85	l5	457	G
85	l5	465	G
85	l5	467	U
85	l5	468	U
85	l5	469	C
85	l5	472	C
85	l5	483	G
85	l5	485	C
85	l5	486	C
85	l5	489	C
85	l5	493	G
85	l5	494	U
85	l5	497	G
85	l5	498	C
85	l5	499	G
85	l5	500	G
85	l5	501	C
85	l5	502	C
85	l5	503	C
85	l5	504	G
85	l5	505	G
85	l5	506	C
85	l5	509	A
85	l5	510	U
85	l5	512	U
85	l5	513	U
85	l5	514	U
85	l5	518	G
85	l5	519	C

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Mol	Chain	Res	Type
85	l5	643	C
85	l5	644	G
85	l5	645	G
85	l5	646	G
85	l5	655	C
85	l5	656	C
85	l5	657	C
85	l5	658	C
85	l5	659	G
85	l5	666	G
85	l5	667	A
85	l5	668	C
85	l5	669	C
85	l5	672	C
85	l5	673	C
85	l5	682	G
85	l5	685	C
85	l5	686	A
85	l5	687	U
85	l5	696	C
85	l5	703	G
85	l5	704	C
85	l5	706	C
85	l5	708	G
85	l5	731	G
85	l5	738	C
85	l5	739	G
85	l5	742	G
85	l5	753	C
85	l5	754	U
85	l5	758	G
85	l5	759	G
85	l5	904	C
85	l5	905	C
85	l5	906	C
85	l5	907	C
85	l5	910	G
85	l5	911	U
85	l5	912	G
85	l5	913	U
85	l5	914	U
85	l5	915	A

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Mol	Chain	Res	Type
85	l5	917	A
85	l5	918	G
85	l5	923	C
85	l5	924	C
85	l5	926	G
85	l5	932	A
85	l5	933	G
85	l5	935	A
85	l5	936	C
85	l5	937	U
85	l5	943	A
85	l5	944	A
85	l5	945	U
85	l5	959	G
85	l5	960	A
85	l5	961	G
85	l5	962	C
85	l5	965	G
85	l5	966	A
85	l5	967	C
85	l5	968	C
85	l5	969	C
85	l5	970	G
85	l5	982	U
85	l5	985	C
85	l5	989	U
85	l5	990	C
85	l5	992	C
85	l5	993	G
85	l5	995	C
85	l5	1048	G
85	l5	1049	C
85	l5	1050	C
85	l5	1051	G
85	l5	1066	G
85	l5	1070	G
85	l5	1071	C
85	l5	1072	C
85	l5	1075	G
85	l5	1082	C
85	l5	1083	U
85	l5	1095	A

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Mol	Chain	Res	Type
85	l5	1168	G
85	l5	1171	G
85	l5	1172	C
85	l5	1173	G
85	l5	1179	U
85	l5	1180	C
85	l5	1182	C
85	l5	1183	C
85	l5	1193	C
85	l5	1202	C
85	l5	1203	G
85	l5	1210	C
85	l5	1211	G
85	l5	1215	C
85	l5	1216	C
85	l5	1217	G
85	l5	1218	G
85	l5	1219	G
85	l5	1221	G
85	l5	1222	A
85	l5	1235	G
85	l5	1241	C
85	l5	1245	C
85	l5	1246	G
85	l5	1253	G
85	l5	1254	A
85	l5	1257	A
85	l5	1258	G
85	l5	1266	G
85	l5	1267	C
85	l5	1269	G
85	l5	1270	A
85	l5	1271	G
85	l5	1272	C
85	l5	1273	G
85	l5	1274	A
85	l5	1275	G
85	l5	1280	C
85	l5	1284	G
85	l5	1287	G
85	l5	1293	G
85	l5	1294	A

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Mol	Chain	Res	Type
85	l5	1295	C
85	l5	1296	G
85	l5	1301	C
85	l5	1313	C
85	l5	1314	C
85	l5	1326	A
85	l5	1339	U
85	l5	1354	A
85	l5	1358	G
85	l5	1359	G
85	l5	1365	C
85	l5	1367	C
85	l5	1370	G
85	l5	1378	C
85	l5	1381	U
85	l5	1387	A
85	l5	1394	G
85	l5	1397	A
85	l5	1404	G
85	l5	1405	C
85	l5	1407	C
85	l5	1409	C
85	l5	1410	U
85	l5	1411	C
85	l5	1414	C
85	l5	1415	G
85	l5	1417	C
85	l5	1418	C
85	l5	1420	A
85	l5	1425	G
85	l5	1437	C
85	l5	1439	C
85	l5	1441	C
85	l5	1443	A
85	l5	1446	C
85	l5	1447	C
85	l5	1452	A
85	l5	1457	G
85	l5	1465	G
85	l5	1482	G
85	l5	1483	C
85	l5	1497	A

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Mol	Chain	Res	Type
85	l5	1498	G
85	l5	1516	G
85	l5	1517	G
85	l5	1518	A
85	l5	1534	A
85	l5	1547	A
85	l5	1562	G
85	l5	1564	A
85	l5	1566	C
85	l5	1578	U
85	l5	1582	U
85	l5	1591	U
85	l5	1596	U
85	l5	1612	G
85	l5	1624	G
85	l5	1625	G
85	l5	1631	A
85	l5	1633	G
85	l5	1634	A
85	l5	1641	G
85	l5	1654	G
85	l5	1661	C
85	l5	1676	C
85	l5	1677	U
85	l5	1678	C
85	l5	1691	G
85	l5	1698	C
85	l5	1699	A
85	l5	1700	G
85	l5	1701	A
85	l5	1703	C
85	l5	1704	C
85	l5	1705	G
85	l5	1707	C
85	l5	1718	C
85	l5	1741	G
85	l5	1742	A
85	l5	1750	G
85	l5	1753	G
85	l5	1754	U
85	l5	1757	U
85	l5	1758	G

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Mol	Chain	Res	Type
85	l5	1760	G
85	l5	1761	G
85	l5	1762	C
85	l5	1763	C
85	l5	1764	G
85	l5	1765	A
85	l5	1766	A
85	l5	1767	A
85	l5	1768	C
85	l5	1770	A
85	l5	1785	C
85	l5	1787	A
85	l5	1804	A
85	l5	1806	G
85	l5	1810	G
85	l5	1820	C
85	l5	1821	G
85	l5	1822	U
85	l5	1836	G
85	l5	1837	A
85	l5	1842	G
85	l5	1843	A
85	l5	1855	G
85	l5	1869	G
85	l5	1881	C
85	l5	1897	A
85	l5	1917	A
85	l5	1918	U
85	l5	1919	G
85	l5	1920	C
85	l5	1921	C
85	l5	1922	G
85	l5	1925	G
85	l5	1931	C
85	l5	1932	A
85	l5	1935	C
85	l5	1936	C
85	l5	1940	G
85	l5	1948	G
85	l5	1949	U
85	l5	1959	U
85	l5	1961	G

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Mol	Chain	Res	Type
85	l5	1962	A
85	l5	1965	G
85	l5	1974	U
85	l5	1975	G
85	l5	1978	C
85	l5	1980	U
85	l5	1981	G
85	l5	1982	G
85	l5	1984	A
85	l5	1985	G
85	l5	1986	U
85	l5	1989	G
85	l5	1991	A
85	l5	1992	U
85	l5	1993	C
85	l5	1997	U
85	l5	1998	A
85	l5	2001	G
85	l5	2002	A
85	l5	2004	U
85	l5	2005	G
85	l5	2011	C
85	l5	2014	C
85	l5	2017	A
85	l5	2018	C
85	l5	2024	G
85	l5	2026	A
85	l5	2033	A
85	l5	2034	G
85	l5	2046	G
85	l5	2048	U
85	l5	2055	G
85	l5	2056	G
85	l5	2069	A
85	l5	2084	C
85	l5	2085	G
85	l5	2092	G
85	l5	2093	A
85	l5	2094	G
85	l5	2095	A
85	l5	2096	G
85	l5	2097	U

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Mol	Chain	Res	Type
85	l5	2098	G
85	l5	2101	C
85	l5	2102	G
85	l5	2103	G
85	l5	2106	G
85	l5	2107	C
85	l5	2108	G
85	l5	2112	G
85	l5	2250	C
85	l5	2252	G
85	l5	2253	A
85	l5	2256	C
85	l5	2257	C
85	l5	2258	C
85	l5	2259	G
85	l5	2260	C
85	l5	2262	G
85	l5	2263	A
85	l5	2289	C
85	l5	2300	A
85	l5	2301	G
85	l5	2306	G
85	l5	2313	A
85	l5	2331	G
85	l5	2332	A
85	l5	2333	G
85	l5	2348	G
85	l5	2351	C
85	l5	2360	A
85	l5	2364	G
85	l5	2395	A
85	l5	2397	G
85	l5	2398	U
85	l5	2402	G
85	l5	2404	A
85	l5	2410	C
85	l5	2417	A
85	l5	2421	G
85	l5	2425	U
85	l5	2441	C
85	l5	2442	G
85	l5	2447	U

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Mol	Chain	Res	Type
85	l5	2450	G
85	l5	2453	A
85	l5	2465	C
85	l5	2470	C
85	l5	2471	G
85	l5	2474	G
85	l5	2475	G
85	l5	2478	C
85	l5	2483	G
85	l5	2484	A
85	l5	2485	U
85	l5	2487	G
85	l5	2488	C
85	l5	2489	C
85	l5	2490	U
85	l5	2491	C
85	l5	2494	U
85	l5	2503	G
85	l5	2504	C
85	l5	2505	C
85	l5	2506	G
85	l5	2513	A
85	l5	2518	G
85	l5	2519	U
85	l5	2520	C
85	l5	2529	A
85	l5	2537	A
85	l5	2544	G
85	l5	2546	G
85	l5	2547	G
85	l5	2554	U
85	l5	2557	G
85	l5	2560	C
85	l5	2565	A
85	l5	2567	G
85	l5	2568	C
85	l5	2583	C
85	l5	2587	A
85	l5	2588	C
85	l5	2589	C
85	l5	2600	A
85	l5	2601	A

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Mol	Chain	Res	Type
85	l5	2627	C
85	l5	2652	G
85	l5	2653	C
85	l5	2659	A
85	l5	2662	G
85	l5	2664	G
85	l5	2669	C
85	l5	2673	G
85	l5	2676	A
85	l5	2687	U
85	l5	2694	G
85	l5	2695	A
85	l5	2696	A
85	l5	2703	G
85	l5	2707	U
85	l5	2708	U
85	l5	2710	C
85	l5	2711	G
85	l5	2719	C
85	l5	2721	G
85	l5	2724	G
85	l5	2726	G
85	l5	2739	C
85	l5	2742	G
85	l5	2743	A
85	l5	2761	U
85	l5	2763	U
85	l5	2764	A
85	l5	2769	U
85	l5	2770	C
85	l5	2787	A
85	l5	2788	U
85	l5	2790	U
85	l5	2826	U
85	l5	2827	G
85	l5	2829	U
85	l5	2830	G
85	l5	2846	G
85	l5	2855	G
85	l5	2867	C
85	l5	2877	G
85	l5	2900	U

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Mol	Chain	Res	Type
85	l5	2902	G
85	l5	2903	G
85	l5	2904	U
85	l5	2905	C
85	l5	2906	G
85	l5	2908	U
85	l5	3586	G
85	l5	3590	G
85	l5	3591	C
85	l5	3594	C
85	l5	3595	U
85	l5	3596	A
85	l5	3597	G
85	l5	3598	C
85	l5	3599	A
85	l5	3605	C
85	l5	3615	G
85	l5	3618	C
85	l5	3626	G
85	l5	3630	A
85	l5	3635	A
85	l5	3644	U
85	l5	3646	A
85	l5	3648	A
85	l5	3662	A
85	l5	3664	G
85	l5	3670	C
85	l5	3673	C
85	l5	3674	G
85	l5	3685	C
85	l5	3691	G
85	l5	3692	A
85	l5	3694	U
85	l5	3710	G
85	l5	3711	A
85	l5	3713	U
85	l5	3727	A
85	l5	3748	A
85	l5	3750	G
85	l5	3756	A
85	l5	3759	A
85	l5	3761	C

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Mol	Chain	Res	Type
85	l5	3772	U
85	l5	3773	U
85	l5	3774	A
85	l5	3776	G
85	l5	3777	G
85	l5	3778	U
85	l5	3784	A
85	l5	3786	U
85	l5	3802	U
85	l5	3811	G
85	l5	3812	C
85	l5	3814	U
85	l5	3817	A
85	l5	3818	U
85	l5	3819	G
85	l5	3823	G
85	l5	3838	U
85	l5	3840	U
85	l5	3841	C
85	l5	3867	A
85	l5	3877	A
85	l5	3878	C
85	l5	3879	G
85	l5	3885	G
85	l5	3887	C
85	l5	3890	A
85	l5	3892	U
85	l5	3897	G
85	l5	3898	G
85	l5	3901	A
85	l5	3906	A
85	l5	3907	G
85	l5	3908	A
85	l5	3915	U
85	l5	3923	A
85	l5	3938	G
85	l5	3939	G
85	l5	3943	A
85	l5	3944	G
85	l5	3947	A
85	l5	3948	C
85	l5	3949	A

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Mol	Chain	Res	Type
85	l5	3950	U
85	l5	3953	G
85	l5	3955	G
85	l5	3956	G
85	l5	3957	U
85	l5	3959	U
85	l5	3960	A
85	l5	3961	G
85	l5	3962	A
85	l5	3963	A
85	l5	3964	U
85	l5	3965	A
85	l5	3966	A
85	l5	3967	G
85	l5	3968	U
85	l5	3969	G
85	l5	3970	G
85	l5	3972	A
85	l5	3973	G
85	l5	3974	G
85	l5	3977	C
85	l5	4038	C
85	l5	4039	G
85	l5	4041	C
85	l5	4042	G
85	l5	4043	G
85	l5	4044	U
85	l5	4046	A
85	l5	4047	A
85	l5	4048	A
85	l5	4049	U
85	l5	4050	A
85	l5	4051	C
85	l5	4052	C
85	l5	4053	A
85	l5	4054	C
85	l5	4055	U
85	l5	4056	A
85	l5	4057	C
85	l5	4058	U
85	l5	4059	C
85	l5	4060	U

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Mol	Chain	Res	Type
85	l5	4061	G
85	l5	4062	A
85	l5	4063	U
85	l5	4064	C
85	l5	4065	G
85	l5	4067	U
85	l5	4068	U
85	l5	4069	U
85	l5	4076	G
85	l5	4084	G
85	l5	4093	G
85	l5	4096	C
85	l5	4097	G
85	l5	4099	G
85	l5	4101	C
85	l5	4102	C
85	l5	4103	C
85	l5	4104	G
85	l5	4108	G
85	l5	4111	U
85	l5	4114	C
85	l5	4115	G
85	l5	4116	C
85	l5	4117	U
85	l5	4119	C
85	l5	4121	G
85	l5	4127	A
85	l5	4133	C
85	l5	4134	C
85	l5	4140	C
85	l5	4141	G
85	l5	4142	C
85	l5	4143	G
85	l5	4144	C
85	l5	4146	G
85	l5	4149	C
85	l5	4150	G
85	l5	4156	G
85	l5	4160	C
85	l5	4162	C
85	l5	4163	U
85	l5	4168	G

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Mol	Chain	Res	Type
85	l5	4170	A
85	l5	4183	G
85	l5	4184	G
85	l5	4191	G
85	l5	4196	G
85	l5	4197	G
85	l5	4201	G
85	l5	4203	A
85	l5	4212	A
85	l5	4225	G
85	l5	4229	U
85	l5	4233	A
85	l5	4237	C
85	l5	4241	C
85	l5	4242	U
85	l5	4251	A
85	l5	4254	G
85	l5	4255	A
85	l5	4256	A
85	l5	4257	A
85	l5	4265	U
85	l5	4268	A
85	l5	4273	A
85	l5	4281	A
85	l5	4291	G
85	l5	4304	A
85	l5	4305	G
85	l5	4306	U
85	l5	4312	U
85	l5	4313	A
85	l5	4314	C
85	l5	4319	C
85	l5	4330	G
85	l5	4332	C
85	l5	4339	A
85	l5	4349	C
85	l5	4354	U
85	l5	4373	G
85	l5	4377	G
85	l5	4378	A
85	l5	4380	A
85	l5	4387	C

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Mol	Chain	Res	Type
85	l5	4394	A
85	l5	4421	C
85	l5	4422	A
85	l5	4438	U
85	l5	4448	G
85	l5	4449	A
85	l5	4453	C
85	l5	4464	A
85	l5	4466	C
85	l5	4488	A
85	l5	4500	U
85	l5	4512	U
85	l5	4513	A
85	l5	4518	A
85	l5	4524	G
85	l5	4545	G
85	l5	4548	A
85	l5	4549	G
85	l5	4557	U
85	l5	4560	C
85	l5	4567	G
85	l5	4572	U
85	l5	4573	G
85	l5	4575	G
85	l5	4584	A
85	l5	4589	A
85	l5	4590	A
85	l5	4599	A
85	l5	4600	G
85	l5	4601	U
85	l5	4617	G
85	l5	4636	U
85	l5	4637	G
85	l5	4648	A
85	l5	4652	G
85	l5	4656	A
85	l5	4659	G
85	l5	4670	C
85	l5	4672	A
85	l5	4687	A
85	l5	4694	G
85	l5	4695	C

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Mol	Chain	Res	Type
85	l5	4700	A
85	l5	4707	A
85	l5	4708	A
85	l5	4709	U
85	l5	4719	G
85	l5	4732	G
85	l5	4733	C
85	l5	4734	A
85	l5	4740	G
85	l5	4741	C
85	l5	4742	G
85	l5	4745	G
85	l5	4747	C
85	l5	4750	G
85	l5	4754	G
85	l5	4757	C
85	l5	4759	C
85	l5	4761	G
85	l5	4764	A
85	l5	4765	G
85	l5	4771	C
85	l5	4772	C
85	l5	4773	C
85	l5	4775	C
85	l5	4776	G
85	l5	4859	C
85	l5	4864	U
85	l5	4870	G
85	l5	4871	C
85	l5	4874	A
85	l5	4875	G
85	l5	4880	C
85	l5	4882	U
85	l5	4883	C
85	l5	4889	G
85	l5	4893	A
85	l5	4895	C
85	l5	4896	G
85	l5	4898	G
85	l5	4900	C
85	l5	4901	G
85	l5	4902	C

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Mol	Chain	Res	Type
85	l5	4910	G
85	l5	4912	G
85	l5	4914	C
85	l5	4918	C
85	l5	4922	C
85	l5	4923	C
85	l5	4924	C
85	l5	4925	U
85	l5	4926	C
85	l5	4927	G
85	l5	4928	C
85	l5	4934	A
85	l5	4941	G
85	l5	4943	A
85	l5	4944	C
85	l5	4951	G
85	l5	4960	G
85	l5	4963	G
85	l5	4976	U
85	l5	4979	A
85	l5	4985	U
85	l5	4988	U
85	l5	4989	U
85	l5	4990	C
85	l5	4991	U
85	l5	5006	U
85	l5	5007	A
85	l5	5014	A
85	l5	5017	G
85	l5	5020	G
85	l5	5024	C
85	l5	5026	U
85	l5	5027	C
85	l5	5028	G
85	l5	5029	C
85	l5	5030	U
85	l5	5034	A
85	l5	5041	G
85	l5	5050	C
85	l5	5054	C
85	l5	5055	G
85	l5	5060	A

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Mol	Chain	Res	Type
85	l5	5061	A
85	l5	5069	U
85	L5	2	G
85	L5	5	A
85	L5	13	U
85	L5	17	A
85	L5	25	A
85	L5	26	C
85	L5	30	C
85	L5	39	A
85	L5	42	A
85	L5	48	G
85	L5	59	A
85	L5	64	A
85	L5	65	A
85	L5	73	A
85	L5	74	G
85	L5	84	A
85	L5	91	G
85	L5	104	G
85	L5	109	G
85	L5	110	C
85	L5	119	G
85	L5	120	A
85	L5	132	G
85	L5	133	C
85	L5	134	G
85	L5	135	G
85	L5	144	G
85	L5	152	U
85	L5	159	C
85	L5	164	G
85	L5	165	A
85	L5	170	C
85	L5	182	G
85	L5	183	C
85	L5	184	U
85	L5	185	C
85	L5	188	G
85	L5	189	G
85	L5	197	A
85	L5	200	U

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Mol	Chain	Res	Type
85	L5	209	U
85	L5	216	C
85	L5	217	C
85	L5	218	A
85	L5	220	C
85	L5	233	U
85	L5	234	G
85	L5	235	A
85	L5	237	G
85	L5	250	C
85	L5	255	C
85	L5	256	G
85	L5	261	G
85	L5	264	C
85	L5	265	C
85	L5	266	C
85	L5	267	G
85	L5	275	C
85	L5	276	C
85	L5	280	G
85	L5	297	U
85	L5	306	A
85	L5	315	G
85	L5	316	U
85	L5	340	C
85	L5	350	C
85	L5	357	U
85	L5	363	A
85	L5	373	G
85	L5	385	A
85	L5	387	G
85	L5	388	A
85	L5	396	A
85	L5	399	G
85	L5	407	A
85	L5	409	G
85	L5	410	A
85	L5	412	G
85	L5	413	G
85	L5	431	G
85	L5	432	U
85	L5	440	U

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Mol	Chain	Res	Type
85	L5	449	C
85	L5	450	G
85	L5	452	A
85	L5	453	G
85	L5	454	U
85	L5	456	C
85	L5	457	G
85	L5	465	G
85	L5	467	U
85	L5	468	U
85	L5	480	C
85	L5	485	C
85	L5	486	C
85	L5	489	C
85	L5	493	G
85	L5	494	U
85	L5	497	G
85	L5	498	C
85	L5	499	G
85	L5	500	G
85	L5	501	C
85	L5	502	C
85	L5	503	C
85	L5	504	G
85	L5	505	G
85	L5	509	A
85	L5	510	U
85	L5	511	C
85	L5	512	U
85	L5	513	U
85	L5	514	U
85	L5	517	C
85	L5	518	G
85	L5	643	C
85	L5	644	G
85	L5	646	G
85	L5	654	C
85	L5	655	C
85	L5	656	C
85	L5	657	C
85	L5	659	G
85	L5	663	G

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Mol	Chain	Res	Type
85	L5	666	G
85	L5	667	A
85	L5	668	C
85	L5	669	C
85	L5	672	C
85	L5	673	C
85	L5	685	C
85	L5	686	A
85	L5	687	U
85	L5	696	C
85	L5	697	G
85	L5	703	G
85	L5	704	C
85	L5	706	C
85	L5	708	G
85	L5	730	G
85	L5	731	G
85	L5	733	A
85	L5	738	C
85	L5	739	G
85	L5	742	G
85	L5	744	G
85	L5	750	U
85	L5	753	C
85	L5	754	U
85	L5	759	G
85	L5	904	C
85	L5	905	C
85	L5	906	C
85	L5	911	U
85	L5	912	G
85	L5	913	U
85	L5	914	U
85	L5	915	A
85	L5	917	A
85	L5	918	G
85	L5	923	C
85	L5	924	C
85	L5	926	G
85	L5	932	A
85	L5	933	G
85	L5	935	A

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Mol	Chain	Res	Type
85	L5	936	C
85	L5	941	C
85	L5	944	A
85	L5	945	U
85	L5	959	G
85	L5	960	A
85	L5	961	G
85	L5	962	C
85	L5	965	G
85	L5	966	A
85	L5	967	C
85	L5	969	C
85	L5	970	G
85	L5	982	U
85	L5	985	C
85	L5	989	U
85	L5	990	C
85	L5	992	C
85	L5	993	G
85	L5	995	C
85	L5	1048	G
85	L5	1049	C
85	L5	1050	C
85	L5	1051	G
85	L5	1066	G
85	L5	1070	G
85	L5	1071	C
85	L5	1072	C
85	L5	1075	G
85	L5	1076	C
85	L5	1082	C
85	L5	1083	U
85	L5	1095	A
85	L5	1168	G
85	L5	1169	G
85	L5	1170	G
85	L5	1171	G
85	L5	1172	C
85	L5	1173	G
85	L5	1174	G
85	L5	1179	U
85	L5	1180	C

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Mol	Chain	Res	Type
85	L5	1182	C
85	L5	1183	C
85	L5	1184	A
85	L5	1202	C
85	L5	1203	G
85	L5	1205	G
85	L5	1210	C
85	L5	1211	G
85	L5	1214	C
85	L5	1215	C
85	L5	1216	C
85	L5	1217	G
85	L5	1218	G
85	L5	1219	G
85	L5	1221	G
85	L5	1222	A
85	L5	1235	G
85	L5	1241	C
85	L5	1242	G
85	L5	1246	G
85	L5	1253	G
85	L5	1254	A
85	L5	1257	A
85	L5	1258	G
85	L5	1261	G
85	L5	1266	G
85	L5	1267	C
85	L5	1269	G
85	L5	1270	A
85	L5	1271	G
85	L5	1272	C
85	L5	1273	G
85	L5	1275	G
85	L5	1277	G
85	L5	1280	C
85	L5	1284	G
85	L5	1285	U
85	L5	1293	G
85	L5	1294	A
85	L5	1295	C
85	L5	1296	G
85	L5	1301	C

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Mol	Chain	Res	Type
85	L5	1302	U
85	L5	1314	C
85	L5	1326	A
85	L5	1337	A
85	L5	1344	C
85	L5	1354	A
85	L5	1358	G
85	L5	1359	G
85	L5	1365	C
85	L5	1367	C
85	L5	1381	U
85	L5	1387	A
85	L5	1394	G
85	L5	1397	A
85	L5	1405	C
85	L5	1407	C
85	L5	1408	G
85	L5	1409	C
85	L5	1410	U
85	L5	1411	C
85	L5	1414	C
85	L5	1415	G
85	L5	1417	C
85	L5	1420	A
85	L5	1435	G
85	L5	1437	C
85	L5	1439	C
85	L5	1443	A
85	L5	1444	G
85	L5	1446	C
85	L5	1447	C
85	L5	1453	G
85	L5	1457	G
85	L5	1465	G
85	L5	1482	G
85	L5	1483	C
85	L5	1497	A
85	L5	1498	G
85	L5	1502	G
85	L5	1517	G
85	L5	1518	A
85	L5	1523	A

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Mol	Chain	Res	Type
85	L5	1525	A
85	L5	1534	A
85	L5	1547	A
85	L5	1562	G
85	L5	1564	A
85	L5	1566	C
85	L5	1574	G
85	L5	1578	U
85	L5	1591	U
85	L5	1596	U
85	L5	1624	G
85	L5	1625	G
85	L5	1631	A
85	L5	1633	G
85	L5	1634	A
85	L5	1641	G
85	L5	1649	U
85	L5	1654	G
85	L5	1661	C
85	L5	1676	C
85	L5	1677	U
85	L5	1678	C
85	L5	1681	G
85	L5	1691	G
85	L5	1698	C
85	L5	1699	A
85	L5	1700	G
85	L5	1703	C
85	L5	1704	C
85	L5	1705	G
85	L5	1707	C
85	L5	1718	C
85	L5	1719	A
85	L5	1731	C
85	L5	1741	G
85	L5	1742	A
85	L5	1750	G
85	L5	1753	G
85	L5	1754	U
85	L5	1757	U
85	L5	1758	G
85	L5	1760	G

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Mol	Chain	Res	Type
85	L5	1761	G
85	L5	1762	C
85	L5	1763	C
85	L5	1764	G
85	L5	1765	A
85	L5	1766	A
85	L5	1767	A
85	L5	1768	C
85	L5	1769	G
85	L5	1770	A
85	L5	1775	A
85	L5	1776	A
85	L5	1787	A
85	L5	1804	A
85	L5	1806	G
85	L5	1810	G
85	L5	1820	C
85	L5	1821	G
85	L5	1822	U
85	L5	1831	G
85	L5	1834	U
85	L5	1836	G
85	L5	1837	A
85	L5	1842	G
85	L5	1843	A
85	L5	1855	G
85	L5	1869	G
85	L5	1897	A
85	L5	1917	A
85	L5	1918	U
85	L5	1919	G
85	L5	1920	C
85	L5	1921	C
85	L5	1922	G
85	L5	1925	G
85	L5	1931	C
85	L5	1932	A
85	L5	1938	C
85	L5	1940	G
85	L5	1941	A
85	L5	1948	G
85	L5	1949	U

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Mol	Chain	Res	Type
85	L5	1961	G
85	L5	1962	A
85	L5	1965	G
85	L5	1972	G
85	L5	1974	U
85	L5	1975	G
85	L5	1978	C
85	L5	1980	U
85	L5	1981	G
85	L5	1982	G
85	L5	1983	A
85	L5	1984	A
85	L5	1985	G
85	L5	1986	U
85	L5	1991	A
85	L5	1992	U
85	L5	1993	C
85	L5	1997	U
85	L5	1998	A
85	L5	1999	A
85	L5	2001	G
85	L5	2002	A
85	L5	2003	G
85	L5	2004	U
85	L5	2011	C
85	L5	2017	A
85	L5	2018	C
85	L5	2024	G
85	L5	2026	A
85	L5	2033	A
85	L5	2034	G
85	L5	2046	G
85	L5	2048	U
85	L5	2052	G
85	L5	2055	G
85	L5	2069	A
85	L5	2084	C
85	L5	2085	G
85	L5	2092	G
85	L5	2093	A
85	L5	2095	A
85	L5	2097	U

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Mol	Chain	Res	Type
85	L5	2098	G
85	L5	2099	G
85	L5	2101	C
85	L5	2102	G
85	L5	2103	G
85	L5	2105	A
85	L5	2107	C
85	L5	2108	G
85	L5	2110	C
85	L5	2112	G
85	L5	2250	C
85	L5	2252	G
85	L5	2253	A
85	L5	2255	C
85	L5	2256	C
85	L5	2257	C
85	L5	2258	C
85	L5	2260	C
85	L5	2261	G
85	L5	2289	C
85	L5	2300	A
85	L5	2301	G
85	L5	2313	A
85	L5	2316	G
85	L5	2322	G
85	L5	2331	G
85	L5	2333	G
85	L5	2348	G
85	L5	2351	C
85	L5	2360	A
85	L5	2382	A
85	L5	2395	A
85	L5	2397	G
85	L5	2402	G
85	L5	2411	C
85	L5	2417	A
85	L5	2421	G
85	L5	2425	U
85	L5	2441	C
85	L5	2442	G
85	L5	2450	G
85	L5	2453	A

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Mol	Chain	Res	Type
85	L5	2463	G
85	L5	2464	C
85	L5	2465	C
85	L5	2469	C
85	L5	2474	G
85	L5	2475	G
85	L5	2478	C
85	L5	2479	G
85	L5	2483	G
85	L5	2484	A
85	L5	2485	U
85	L5	2486	G
85	L5	2487	G
85	L5	2488	C
85	L5	2489	C
85	L5	2490	U
85	L5	2491	C
85	L5	2494	U
85	L5	2503	G
85	L5	2504	C
85	L5	2505	C
85	L5	2506	G
85	L5	2511	A
85	L5	2513	A
85	L5	2519	U
85	L5	2520	C
85	L5	2529	A
85	L5	2537	A
85	L5	2544	G
85	L5	2546	G
85	L5	2547	G
85	L5	2554	U
85	L5	2555	G
85	L5	2559	G
85	L5	2560	C
85	L5	2565	A
85	L5	2573	A
85	L5	2583	C
85	L5	2587	A
85	L5	2589	C
85	L5	2601	A
85	L5	2627	C

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Mol	Chain	Res	Type
85	L5	2638	G
85	L5	2652	G
85	L5	2653	C
85	L5	2662	G
85	L5	2669	C
85	L5	2673	G
85	L5	2676	A
85	L5	2686	G
85	L5	2687	U
85	L5	2694	G
85	L5	2695	A
85	L5	2696	A
85	L5	2703	G
85	L5	2707	U
85	L5	2708	U
85	L5	2709	C
85	L5	2710	C
85	L5	2711	G
85	L5	2719	C
85	L5	2721	G
85	L5	2724	G
85	L5	2726	G
85	L5	2729	C
85	L5	2739	C
85	L5	2742	G
85	L5	2743	A
85	L5	2746	A
85	L5	2761	U
85	L5	2763	U
85	L5	2764	A
85	L5	2769	U
85	L5	2770	C
85	L5	2787	A
85	L5	2788	U
85	L5	2789	A
85	L5	2790	U
85	L5	2826	U
85	L5	2827	G
85	L5	2829	U
85	L5	2835	A
85	L5	2846	G
85	L5	2855	G

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Mol	Chain	Res	Type
85	L5	2867	C
85	L5	2877	G
85	L5	2895	A
85	L5	2899	C
85	L5	2900	U
85	L5	2902	G
85	L5	2903	G
85	L5	2904	U
85	L5	2905	C
85	L5	2906	G
85	L5	2907	G
85	L5	2908	U
85	L5	3588	C
85	L5	3590	G
85	L5	3591	C
85	L5	3594	C
85	L5	3595	U
85	L5	3596	A
85	L5	3597	G
85	L5	3605	C
85	L5	3615	G
85	L5	3616	U
85	L5	3626	G
85	L5	3630	A
85	L5	3635	A
85	L5	3644	U
85	L5	3646	A
85	L5	3648	A
85	L5	3652	A
85	L5	3662	A
85	L5	3664	G
85	L5	3673	C
85	L5	3674	G
85	L5	3692	A
85	L5	3698	G
85	L5	3711	A
85	L5	3713	U
85	L5	3714	G
85	L5	3727	A
85	L5	3748	A
85	L5	3750	G
85	L5	3753	G

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Mol	Chain	Res	Type
85	L5	3756	A
85	L5	3757	G
85	L5	3759	A
85	L5	3760	A
85	L5	3761	C
85	L5	3766	A
85	L5	3767	C
85	L5	3772	U
85	L5	3773	U
85	L5	3774	A
85	L5	3776	G
85	L5	3777	G
85	L5	3778	U
85	L5	3784	A
85	L5	3786	U
85	L5	3802	U
85	L5	3811	G
85	L5	3812	C
85	L5	3813	A
85	L5	3814	U
85	L5	3817	A
85	L5	3818	U
85	L5	3819	G
85	L5	3823	G
85	L5	3839	G
85	L5	3840	U
85	L5	3841	C
85	L5	3867	A
85	L5	3869	C
85	L5	3876	A
85	L5	3877	A
85	L5	3878	C
85	L5	3879	G
85	L5	3885	G
85	L5	3887	C
85	L5	3890	A
85	L5	3892	U
85	L5	3897	G
85	L5	3901	A
85	L5	3906	A
85	L5	3907	G
85	L5	3908	A

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Mol	Chain	Res	Type
85	L5	3915	U
85	L5	3938	G
85	L5	3939	G
85	L5	3943	A
85	L5	3944	G
85	L5	3947	A
85	L5	3949	A
85	L5	3953	G
85	L5	3955	G
85	L5	3956	G
85	L5	3957	U
85	L5	3958	G
85	L5	3959	U
85	L5	3960	A
85	L5	3961	G
85	L5	3962	A
85	L5	3963	A
85	L5	3964	U
85	L5	3965	A
85	L5	3966	A
85	L5	3968	U
85	L5	3969	G
85	L5	3973	G
85	L5	3974	G
85	L5	3975	C
85	L5	3977	C
85	L5	4037	C
85	L5	4038	C
85	L5	4039	G
85	L5	4041	C
85	L5	4042	G
85	L5	4043	G
85	L5	4044	U
85	L5	4046	A
85	L5	4047	A
85	L5	4048	A
85	L5	4049	U
85	L5	4051	C
85	L5	4052	C
85	L5	4053	A
85	L5	4054	C
85	L5	4055	U

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Mol	Chain	Res	Type
85	L5	4057	C
85	L5	4058	U
85	L5	4059	C
85	L5	4060	U
85	L5	4061	G
85	L5	4062	A
85	L5	4063	U
85	L5	4065	G
85	L5	4067	U
85	L5	4068	U
85	L5	4069	U
85	L5	4076	G
85	L5	4092	G
85	L5	4093	G
85	L5	4095	G
85	L5	4097	G
85	L5	4098	A
85	L5	4099	G
85	L5	4100	C
85	L5	4102	C
85	L5	4103	C
85	L5	4104	G
85	L5	4108	G
85	L5	4111	U
85	L5	4114	C
85	L5	4115	G
85	L5	4116	C
85	L5	4119	C
85	L5	4127	A
85	L5	4133	C
85	L5	4134	C
85	L5	4138	C
85	L5	4140	C
85	L5	4141	G
85	L5	4142	C
85	L5	4143	G
85	L5	4144	C
85	L5	4146	G
85	L5	4149	C
85	L5	4160	C
85	L5	4162	C
85	L5	4163	U

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Mol	Chain	Res	Type
85	L5	4164	C
85	L5	4170	A
85	L5	4183	G
85	L5	4184	G
85	L5	4191	G
85	L5	4196	G
85	L5	4203	A
85	L5	4213	A
85	L5	4222	G
85	L5	4225	G
85	L5	4229	U
85	L5	4233	A
85	L5	4234	A
85	L5	4241	C
85	L5	4251	A
85	L5	4254	G
85	L5	4255	A
85	L5	4257	A
85	L5	4258	C
85	L5	4265	U
85	L5	4268	A
85	L5	4273	A
85	L5	4279	A
85	L5	4281	A
85	L5	4286	C
85	L5	4291	G
85	L5	4304	A
85	L5	4305	G
85	L5	4306	U
85	L5	4313	A
85	L5	4314	C
85	L5	4330	G
85	L5	4332	C
85	L5	4339	A
85	L5	4349	C
85	L5	4354	U
85	L5	4373	G
85	L5	4377	G
85	L5	4378	A
85	L5	4380	A
85	L5	4387	C
85	L5	4391	G

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Mol	Chain	Res	Type
85	L5	4393	G
85	L5	4394	A
85	L5	4421	C
85	L5	4422	A
85	L5	4426	C
85	L5	4438	U
85	L5	4444	C
85	L5	4448	G
85	L5	4449	A
85	L5	4453	C
85	L5	4464	A
85	L5	4466	C
85	L5	4488	A
85	L5	4500	U
85	L5	4512	U
85	L5	4513	A
85	L5	4518	A
85	L5	4519	C
85	L5	4522	G
85	L5	4524	G
85	L5	4545	G
85	L5	4548	A
85	L5	4549	G
85	L5	4557	U
85	L5	4560	C
85	L5	4567	G
85	L5	4570	G
85	L5	4573	G
85	L5	4575	G
85	L5	4581	G
85	L5	4584	A
85	L5	4589	A
85	L5	4590	A
85	L5	4594	U
85	L5	4600	G
85	L5	4601	U
85	L5	4608	G
85	L5	4617	G
85	L5	4635	A
85	L5	4636	U
85	L5	4637	G
85	L5	4648	A

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Mol	Chain	Res	Type
85	L5	4652	G
85	L5	4656	A
85	L5	4670	C
85	L5	4672	A
85	L5	4687	A
85	L5	4694	G
85	L5	4695	C
85	L5	4700	A
85	L5	4708	A
85	L5	4709	U
85	L5	4719	G
85	L5	4734	A
85	L5	4740	G
85	L5	4741	C
85	L5	4742	G
85	L5	4745	G
85	L5	4747	C
85	L5	4750	G
85	L5	4754	G
85	L5	4757	C
85	L5	4759	C
85	L5	4761	G
85	L5	4765	G
85	L5	4771	C
85	L5	4772	C
85	L5	4775	C
85	L5	4859	C
85	L5	4862	G
85	L5	4870	G
85	L5	4871	C
85	L5	4875	G
85	L5	4880	C
85	L5	4882	U
85	L5	4883	C
85	L5	4886	C
85	L5	4889	G
85	L5	4895	C
85	L5	4896	G
85	L5	4897	G
85	L5	4900	C
85	L5	4901	G
85	L5	4902	C

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Mol	Chain	Res	Type
85	L5	4910	G
85	L5	4912	G
85	L5	4914	C
85	L5	4918	C
85	L5	4922	C
85	L5	4923	C
85	L5	4924	C
85	L5	4925	U
85	L5	4926	C
85	L5	4927	G
85	L5	4928	C
85	L5	4934	A
85	L5	4937	C
85	L5	4940	C
85	L5	4941	G
85	L5	4943	A
85	L5	4951	G
85	L5	4960	G
85	L5	4976	U
85	L5	4979	A
85	L5	4988	U
85	L5	4989	U
85	L5	4990	C
85	L5	4991	U
85	L5	4995	U
85	L5	5006	U
85	L5	5009	G
85	L5	5013	C
85	L5	5014	A
85	L5	5017	G
85	L5	5022	U
85	L5	5024	C
85	L5	5027	C
85	L5	5028	G
85	L5	5030	U
85	L5	5034	A
85	L5	5041	G
85	L5	5048	A
85	L5	5050	C
85	L5	5054	C
85	L5	5055	G
85	L5	5061	A

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Mol	Chain	Res	Type
85	L5	5069	U
20	L7	5	A
20	L7	7	G
20	L7	22	A
20	L7	24	C
20	L7	33	U
20	L7	38	U
20	L7	53	U
20	L7	54	A
20	L7	63	C
20	L7	64	G
20	L7	100	A
20	L7	110	G
21	L8	2	G
21	L8	34	U
21	L8	35	C
21	L8	39	G
21	L8	47	C
21	L8	48	A
21	L8	49	G
21	L8	59	A
21	L8	62	A
21	L8	63	U
21	L8	68	G
21	L8	70	G
21	L8	80	A
21	L8	82	A
21	L8	84	A
21	L8	85	U
21	L8	86	U
21	L8	87	G
21	L8	94	G
21	L8	103	A
21	L8	105	C
21	L8	110	U
21	L8	111	U
21	L8	112	G
21	L8	114	G
21	L8	123	U
21	L8	124	U
21	L8	125	C
21	L8	126	C

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Mol	Chain	Res	Type
21	L8	127	U
21	L8	150	C
21	L8	151	G
79	S2	13	C
79	S2	25	A
79	S2	33	G
79	S2	37	C
79	S2	41	G
79	S2	42	A
79	S2	44	U
79	S2	45	A
79	S2	46	A
79	S2	56	G
79	S2	58	C
79	S2	62	G
79	S2	64	A
79	S2	67	C
79	S2	68	A
79	S2	72	C
79	S2	73	C
79	S2	74	G
79	S2	76	U
79	S2	83	A
79	S2	92	A
79	S2	103	A
79	S2	113	G
79	S2	115	U
79	S2	116	U
79	S2	126	G
79	S2	130	G
79	S2	142	C
79	S2	143	U
79	S2	144	U
79	S2	147	A
79	S2	149	A
79	S2	158	A
79	S2	160	U
79	S2	162	C
79	S2	168	C
79	S2	170	A
79	S2	171	A
79	S2	175	A

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Mol	Chain	Res	Type
79	S2	179	C
79	S2	182	C
79	S2	184	G
79	S2	190	G
79	S2	196	C
79	S2	197	U
79	S2	198	U
79	S2	200	G
79	S2	202	G
79	S2	203	G
79	S2	204	G
79	S2	206	G
79	S2	207	G
79	S2	208	G
79	S2	214	U
79	S2	291	G
79	S2	292	A
79	S2	295	C
79	S2	301	A
79	S2	305	U
79	S2	306	C
79	S2	307	G
79	S2	308	G
79	S2	309	G
79	S2	310	C
79	S2	311	C
79	S2	312	G
79	S2	318	A
79	S2	319	C
79	S2	322	C
79	S2	323	C
79	S2	324	C
79	S2	325	C
79	S2	326	C
79	S2	328	U
79	S2	329	G
79	S2	332	G
79	S2	338	G
79	S2	339	A
79	S2	340	C
79	S2	347	G
79	S2	351	G

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Mol	Chain	Res	Type
79	S2	360	A
79	S2	362	C
79	S2	364	A
79	S2	368	U
79	S2	369	C
79	S2	370	G
79	S2	372	U
79	S2	383	G
79	S2	385	G
79	S2	386	C
79	S2	407	G
79	S2	408	A
79	S2	409	C
79	S2	421	G
79	S2	426	A
79	S2	438	G
79	S2	448	A
79	S2	449	A
79	S2	450	C
79	S2	452	G
79	S2	464	A
79	S2	465	A
79	S2	471	G
79	S2	472	C
79	S2	473	A
79	S2	474	G
79	S2	476	A
79	S2	482	G
79	S2	485	A
79	S2	487	U
79	S2	488	U
79	S2	492	C
79	S2	493	A
79	S2	502	C
79	S2	516	A
79	S2	530	U
79	S2	531	A
79	S2	532	C
79	S2	536	A
79	S2	537	C
79	S2	540	U
79	S2	542	U

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Mol	Chain	Res	Type
79	S2	544	G
79	S2	546	G
79	S2	547	G
79	S2	557	U
79	S2	558	G
79	S2	560	A
79	S2	563	G
79	S2	564	A
79	S2	576	A
79	S2	583	A
79	S2	587	A
79	S2	589	G
79	S2	591	U
79	S2	593	C
79	S2	594	A
79	S2	603	C
79	S2	604	A
79	S2	607	U
79	S2	614	C
79	S2	617	G
79	S2	623	G
79	S2	628	A
79	S2	631	U
79	S2	643	A
79	S2	644	G
79	S2	660	C
79	S2	664	A
79	S2	668	A
79	S2	669	A
79	S2	671	A
79	S2	672	A
79	S2	673	G
79	S2	688	U
79	S2	689	U
79	S2	692	G
79	S2	693	A
79	S2	695	C
79	S2	696	G
79	S2	697	G
79	S2	698	G
79	S2	732	U
79	S2	733	C

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Mol	Chain	Res	Type
79	S2	734	C
79	S2	736	C
79	S2	738	C
79	S2	749	U
79	S2	751	G
79	S2	752	G
79	S2	753	C
79	S2	788	G
79	S2	791	C
79	S2	792	C
79	S2	798	G
79	S2	799	U
79	S2	801	U
79	S2	821	G
79	S2	822	U
79	S2	823	U
79	S2	824	C
79	S2	827	A
79	S2	830	A
79	S2	833	C
79	S2	834	C
79	S2	835	C
79	S2	836	G
79	S2	837	A
79	S2	838	G
79	S2	839	C
79	S2	844	U
79	S2	847	A
79	S2	869	A
79	S2	870	A
79	S2	873	G
79	S2	874	G
79	S2	878	G
79	S2	880	G
79	S2	882	U
79	S2	888	U
79	S2	889	U
79	S2	891	G
79	S2	893	U
79	S2	896	U
79	S2	897	U
79	S2	898	U

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Mol	Chain	Res	Type
79	S2	899	U
79	S2	900	C
79	S2	901	G
79	S2	903	A
79	S2	907	G
79	S2	908	A
79	S2	909	G
79	S2	913	A
79	S2	919	A
79	S2	920	A
79	S2	933	G
79	S2	934	G
79	S2	954	U
79	S2	963	A
79	S2	970	G
79	S2	971	G
79	S2	972	A
79	S2	978	G
79	S2	990	A
79	S2	992	A
79	S2	999	G
79	S2	1001	A
79	S2	1002	U
79	S2	1008	A
79	S2	1017	U
79	S2	1023	A
79	S2	1027	A
79	S2	1033	G
79	S2	1045	U
79	S2	1060	A
79	S2	1061	U
79	S2	1062	A
79	S2	1083	A
79	S2	1085	C
79	S2	1088	U
79	S2	1099	G
79	S2	1108	G
79	S2	1109	C
79	S2	1110	G
79	S2	1113	A
79	S2	1114	U
79	S2	1115	U

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Mol	Chain	Res	Type
79	S2	1116	C
79	S2	1121	G
79	S2	1133	A
79	S2	1138	C
79	S2	1148	A
79	S2	1150	A
79	S2	1153	C
79	S2	1154	U
79	S2	1161	U
79	S2	1195	A
79	S2	1207	G
79	S2	1208	A
79	S2	1215	C
79	S2	1216	C
79	S2	1217	A
79	S2	1220	A
79	S2	1224	G
79	S2	1227	G
79	S2	1237	C
79	S2	1240	A
79	S2	1242	U
79	S2	1243	U
79	S2	1251	A
79	S2	1253	A
79	S2	1256	G
79	S2	1257	G
79	S2	1259	A
79	S2	1264	C
79	S2	1274	G
79	S2	1275	G
79	S2	1282	A
79	S2	1283	C
79	S2	1284	A
79	S2	1286	G
79	S2	1287	A
79	S2	1294	G
79	S2	1295	A
79	S2	1301	A
79	S2	1302	G
79	S2	1303	C
79	S2	1304	U
79	S2	1306	U

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Mol	Chain	Res	Type
79	S2	1308	U
79	S2	1320	G
79	S2	1333	U
79	S2	1342	U
79	S2	1354	G
79	S2	1355	C
79	S2	1356	G
79	S2	1358	U
79	S2	1371	U
79	S2	1372	U
79	S2	1376	A
79	S2	1378	A
79	S2	1396	A
79	S2	1401	A
79	S2	1402	A
79	S2	1406	G
79	S2	1408	U
79	S2	1411	G
79	S2	1413	G
79	S2	1415	C
79	S2	1417	C
79	S2	1419	C
79	S2	1420	G
79	S2	1421	A
79	S2	1422	G
79	S2	1423	C
79	S2	1424	G
79	S2	1429	G
79	S2	1434	C
79	S2	1435	C
79	S2	1436	C
79	S2	1437	C
79	S2	1438	A
79	S2	1442	U
79	S2	1449	G
79	S2	1454	A
79	S2	1463	U
79	S2	1468	C
79	S2	1480	A
79	S2	1489	A
79	S2	1490	G
79	S2	1494	U

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Mol	Chain	Res	Type
79	S2	1495	G
79	S2	1497	G
79	S2	1498	A
79	S2	1507	G
79	S2	1508	A
79	S2	1520	G
79	S2	1521	C
79	S2	1522	A
79	S2	1531	A
79	S2	1533	A
79	S2	1535	U
79	S2	1537	A
79	S2	1544	C
79	S2	1552	G
79	S2	1553	C
79	S2	1556	A
79	S2	1570	G
79	S2	1574	C
79	S2	1575	G
79	S2	1579	A
79	S2	1580	A
79	S2	1581	C
79	S2	1582	C
79	S2	1584	G
79	S2	1585	U
79	S2	1586	U
79	S2	1587	G
79	S2	1588	A
79	S2	1599	U
79	S2	1600	G
79	S2	1601	A
79	S2	1604	G
79	S2	1606	G
79	S2	1621	U
79	S2	1623	A
79	S2	1629	C
79	S2	1630	A
79	S2	1633	A
79	S2	1634	A
79	S2	1637	A
79	S2	1638	G
79	S2	1639	G

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Mol	Chain	Res	Type
79	S2	1640	A
79	S2	1646	C
79	S2	1648	G
79	S2	1654	G
79	S2	1663	A
79	S2	1665	G
79	S2	1683	C
79	S2	1686	G
79	S2	1693	G
79	S2	1696	C
79	S2	1698	C
79	S2	1699	A
79	S2	1715	A
79	S2	1721	U
79	S2	1722	G
79	S2	1729	U
79	S2	1742	C
79	S2	1743	G
79	S2	1744	G
79	S2	1745	A
79	S2	1748	G
79	S2	1752	C
79	S2	1753	C
79	S2	1754	G
79	S2	1755	C
79	S2	1757	G
79	S2	1758	G
79	S2	1759	G
79	S2	1761	U
79	S2	1772	C
79	S2	1773	C
79	S2	1774	C
79	S2	1777	G
79	S2	1782	G
79	S2	1783	C
79	S2	1784	G
79	S2	1787	G
79	S2	1809	A
79	S2	1810	U
79	S2	1812	U
79	S2	1813	A
79	S2	1822	A

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Mol	Chain	Res	Type
79	S2	1823	A
79	S2	1824	A
79	S2	1825	A
79	S2	1826	G
79	S2	1835	A
79	S2	1838	U
79	S2	1849	G
79	S2	1851	A
79	S2	1852	C
79	S2	1861	G
79	S2	1862	G
79	S2	1863	A
79	S2	1864	U
79	S2	1865	C
87	AT	8	U
87	AT	9	A
87	AT	12	G
87	AT	14	A
87	AT	16	C
87	AT	19	G
87	AT	20	U
87	AT	21	U
87	AT	22	A
87	AT	27	G
87	AT	31	G
87	AT	33	C
87	AT	37	C
87	AT	44	A
87	AT	47	G
87	AT	49	C
87	AT	50	C
87	AT	59	A
87	AT	60	A
87	AT	62	C
87	AT	72	A
87	AT	74	A
87	AT	76	C
87	AT	77	A
82	Et	4	C
82	Et	6	G
82	Et	9	A
82	Et	10	G

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Mol	Chain	Res	Type
82	Et	11	C
82	Et	19	G
82	Et	20	U
82	Et	21	A
82	Et	26	A
82	Et	31	A
82	Et	34	U
82	Et	35	U
82	Et	38	A
82	Et	40	C
82	Et	42	G
82	Et	46	G
82	Et	47	U
82	Et	48	C
82	Et	49	C
82	Et	50	A
82	Et	55	U
82	Et	58	A
82	Et	59	G
82	Et	61	C
82	Et	66	U
82	Et	69	G
82	Et	70	G
82	Et	72	C
82	Et	73	G
82	Et	76	A
89	Pt	9	A
89	Pt	19	G
89	Pt	20(A)	U
89	Pt	21	A
89	Pt	46	G
89	Pt	47	U
89	Pt	48	C
89	Pt	49	C
89	Pt	58	A
89	Pt	64	G
89	Pt	65	G
89	Pt	67	G
89	Pt	70	A
89	Pt	71	A
89	Pt	74	C
89	Pt	76	A

All (36) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
85	L5	265	C
85	L5	406	C
85	L5	493	G
85	L5	912	G
85	L5	914	U
85	L5	1082	C
85	L5	1590	C
85	L5	1633	G
85	L5	1977	C
85	L5	2003	G
85	L5	2033	A
85	L5	2055	G
85	L5	2416	G
85	L5	2485	U
85	L5	2675	G
85	L5	2760	G
85	L5	2786	C
85	L5	3614	G
85	L5	3673	C
85	L5	3948	C
85	L5	4055	U
85	L5	4061	G
85	L5	4600	G
85	L5	4699	U
85	L5	4913	G
79	S2	291	G
79	S2	420	G
79	S2	531	A
79	S2	563	G
79	S2	688	U
79	S2	1355	C
79	S2	1434	C
79	S2	1455	A
79	S2	1521	C
79	S2	1693	G
79	S2	1781	A

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

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	$\#\|Z\| > 2$
88	SEP	CF	163	88	8,9,10	1.62	1 (12%)	7,12,14	1.38	1 (14%)

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
88	SEP	CF	163	88	-	6/6/8/10	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
88	CF	163	SEP	P-O1P	3.54	1.61	1.50

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
88	CF	163	SEP	OG-CB-CA	2.97	111.04	108.14

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
88	CF	163	SEP	N-CA-CB-OG
88	CF	163	SEP	C-CA-CB-OG
88	CF	163	SEP	CA-CB-OG-P
88	CF	163	SEP	CB-OG-P-O1P
88	CF	163	SEP	CB-OG-P-O2P
88	CF	163	SEP	CB-OG-P-O3P

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
88	CF	163	SEP	1	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 522 ligands modelled in this entry, 522 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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
85	L5	12
85	l5	11
79	s2	7
79	S2	6
80	cB	1
81	aP	1
84	lt	1
89	Pt	1
84	Lt	1
82	pE	1
82	Et	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S2	753:C	O3'	785:C	P	27.56
1	s2	753:C	O3'	785:C	P	27.07
1	L5	2910:G	O3'	3584:C	P	21.08
1	l5	2910:G	O3'	3584:C	P	20.88
1	l5	760:G	O3'	903:C	P	17.26
1	S2	698:G	O3'	730:C	P	16.92
1	l5	519:C	O3'	642:G	P	16.43
1	l5	4776:G	O3'	4858:C	P	16.16
1	cB	236:PHE	C	247:ALA	N	16.10
1	L5	760:G	O3'	903:C	P	16.08
1	L5	4776:G	O3'	4858:C	P	15.76
1	s2	698:G	O3'	730:C	P	15.53
1	L5	519:C	O3'	642:G	P	15.38
1	l5	996:G	O3'	1047:C	P	14.20
1	l5	2112:G	O3'	2249:C	P	13.86
1	L5	996:G	O3'	1047:C	P	13.44
1	s2	739:C	O3'	746:C	P	13.34
1	L5	2112:G	O3'	2249:C	P	13.25
1	S2	739:C	O3'	746:C	P	13.07
1	aP	15:G	O3'	18:G	P	12.63
1	l5	3985:C	O3'	4018:G	P	11.79
1	l5	1222:A	O3'	1234:G	P	11.12
1	L5	1222:A	O3'	1234:G	P	10.06
1	L5	1051:G	O3'	1064:G	P	9.75
1	s2	553:U	O3'	554:A	P	8.96
1	l5	1051:G	O3'	1064:G	P	8.90
1	lt	87:GLU	C	104:ILE	N	8.72
1	Pt	15:G	O3'	18:G	P	8.55
1	s2	530:U	O3'	531:A	P	8.41
1	S2	225:G	O3'	287:U	P	8.27
1	Lt	87:GLU	C	104:ILE	N	7.74
1	s2	225:G	O3'	287:U	P	7.39
1	L5	1100:U	O3'	1167:C	P	7.12
1	L5	1709:C	O3'	1714:C	P	6.48
1	l5	1100:U	O3'	1167:C	P	6.30
1	pE	16:C	O3'	18:U	P	6.16
1	l5	1709:C	O3'	1714:C	P	5.54
1	S2	1693:G	O3'	1694:U	P	5.33
1	Et	16:C	O3'	18:U	P	5.07
1	L5	3949:A	O3'	3950:U	P	4.90
1	L5	3985:C	O3'	4018:G	P	4.04
1	s2	1210:G	O3'	1211:G	P	3.45
1	S2	1210:G	O3'	1211:G	P	3.19

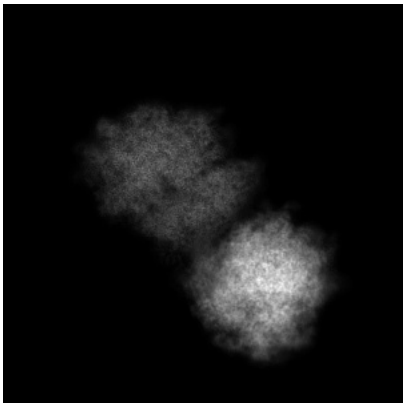
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-44052. These allow visual inspection of the internal detail of the map and identification of artifacts.

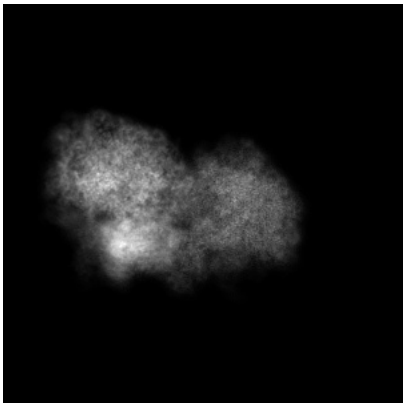
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

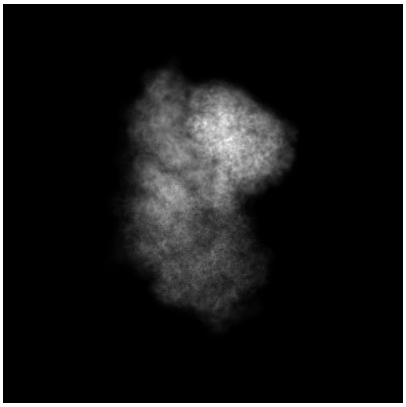
6.1.1 Primary map



X



Y

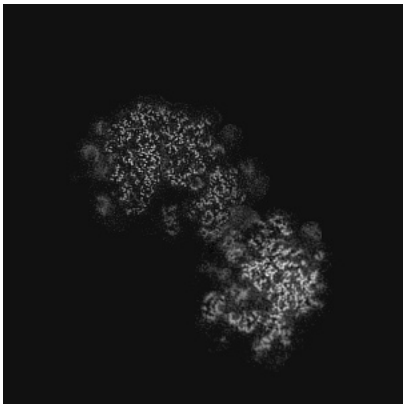


Z

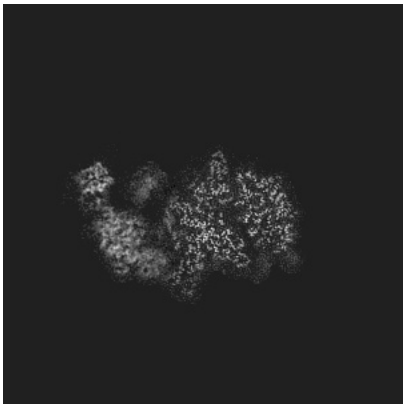
The images above show the map projected in three orthogonal directions.

6.2 Central slices

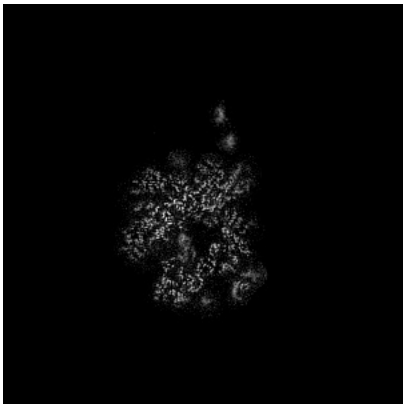
6.2.1 Primary map



X Index: 300



Y Index: 300

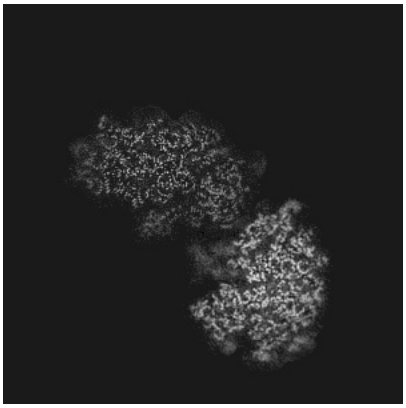


Z Index: 300

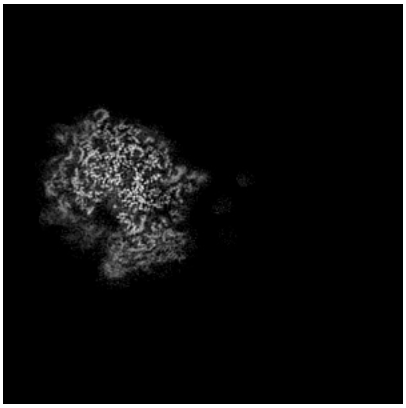
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

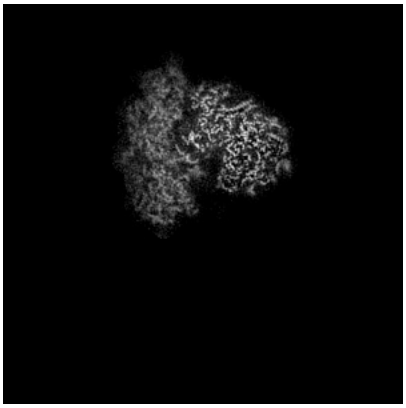
6.3.1 Primary map



X Index: 326



Y Index: 395

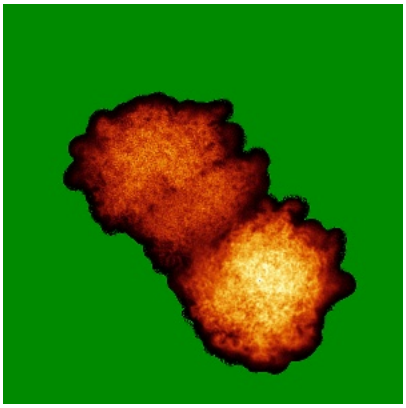


Z Index: 176

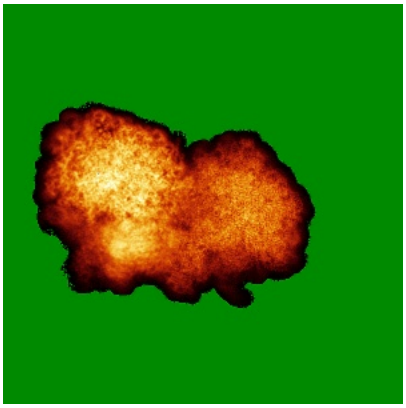
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

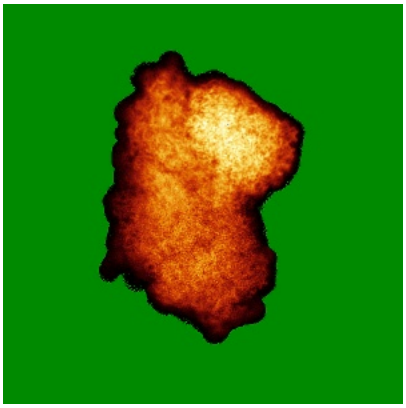
6.4.1 Primary map



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 0.099. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

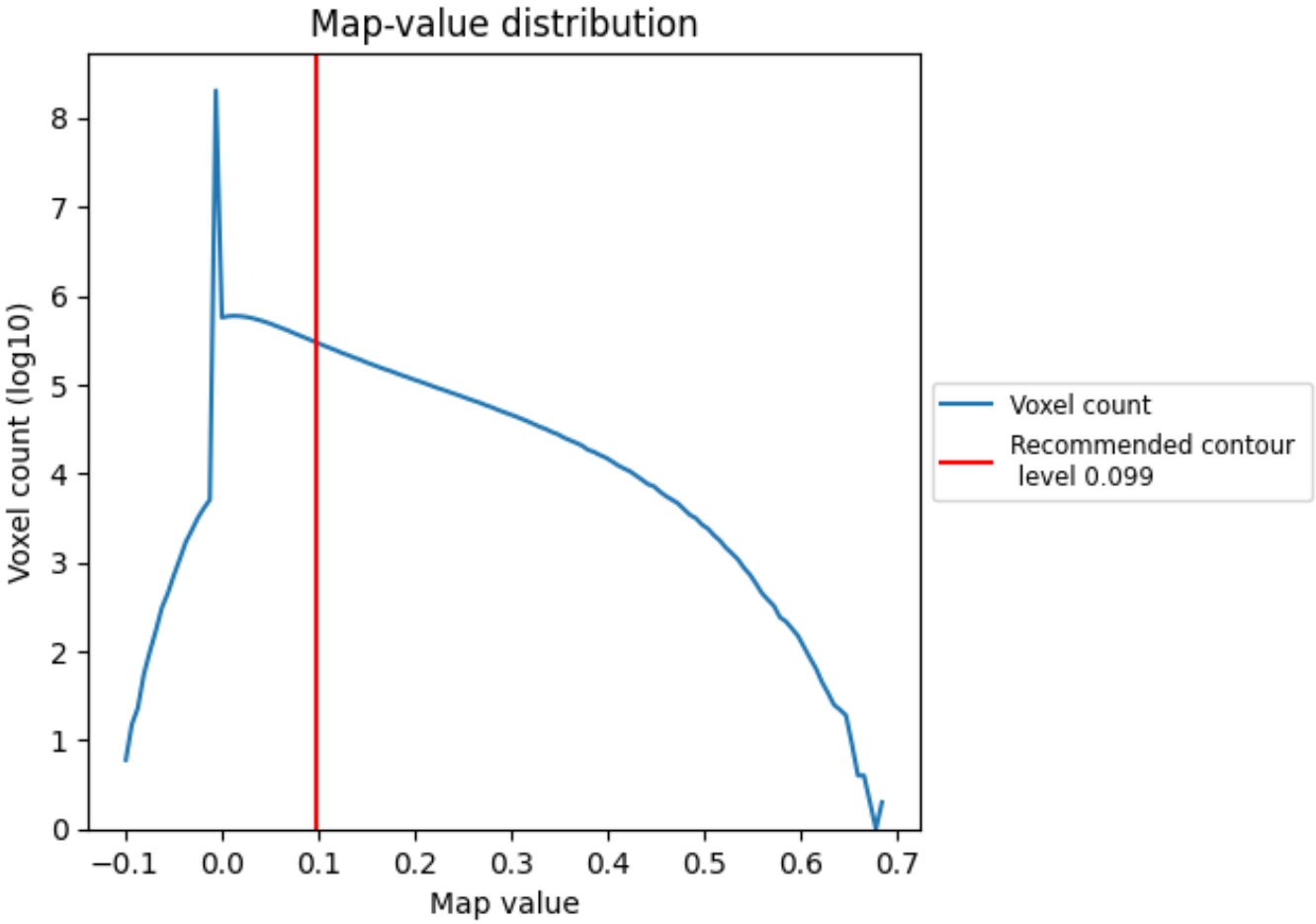
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

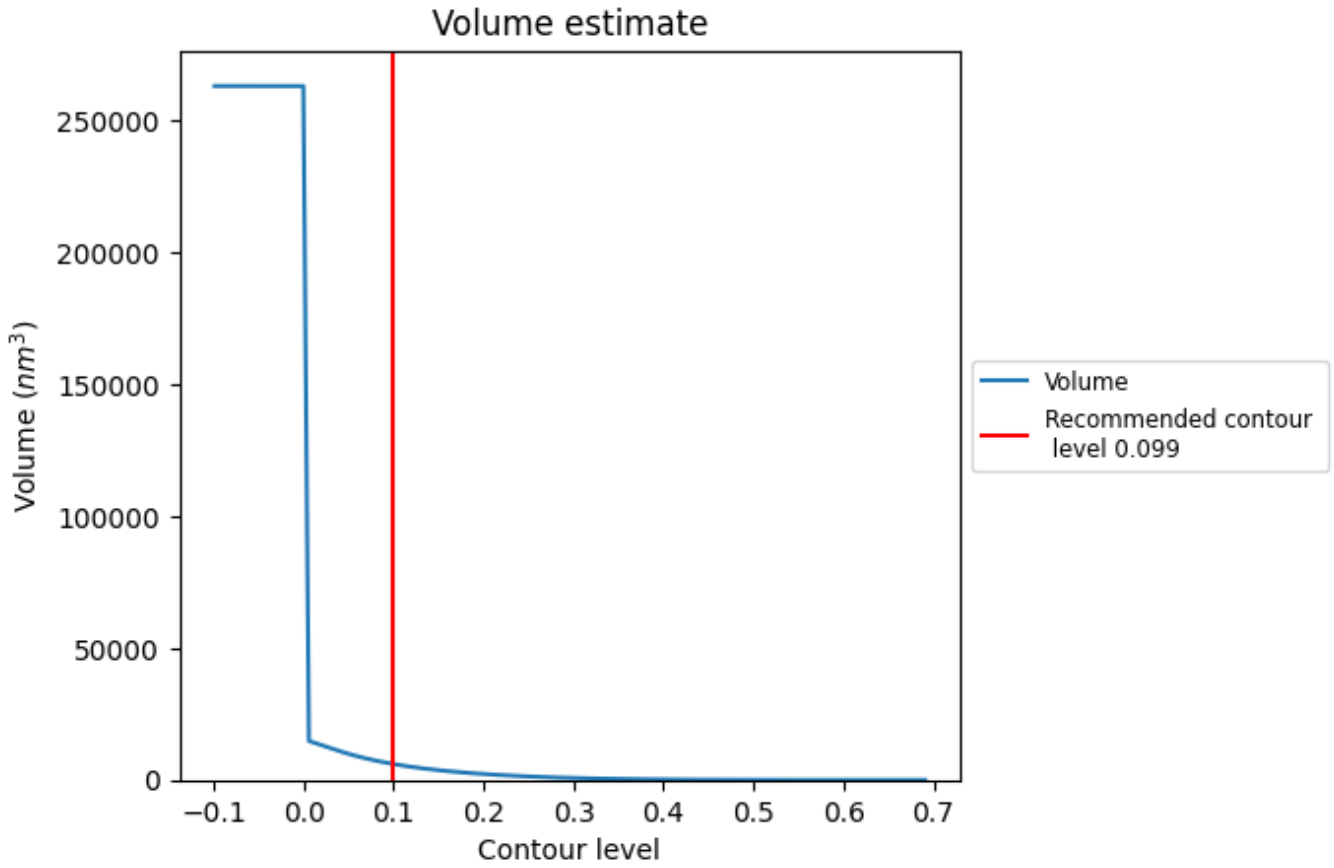
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

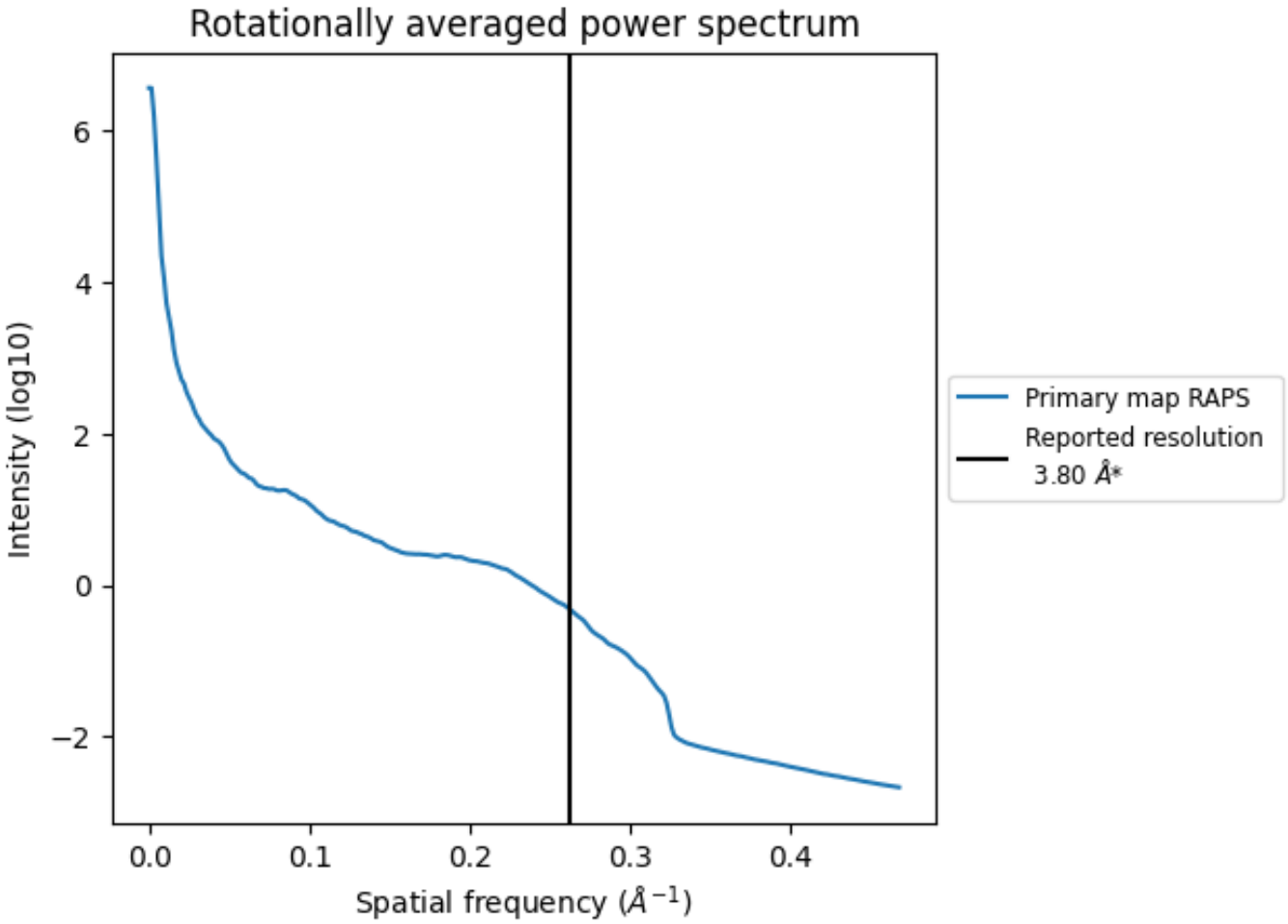
7.2 Volume estimate



The volume at the recommended contour level is 6084 nm^3; this corresponds to an approximate mass of 5496 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 0.263 $Å^{-1}$

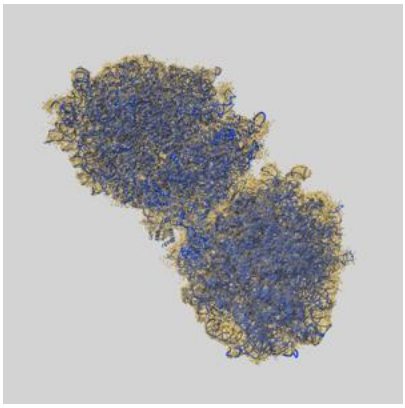
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

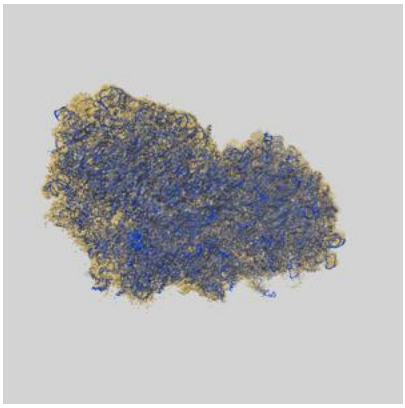
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-44052 and PDB model 9B0S. Per-residue inclusion information can be found in section 3 on page 29.

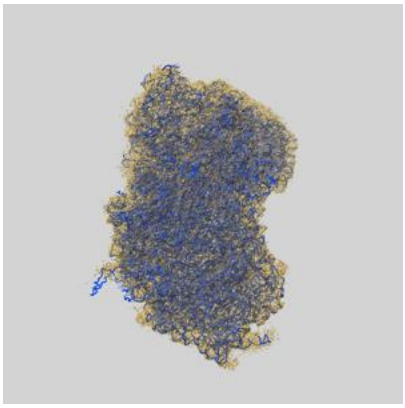
9.1 Map-model overlay



X



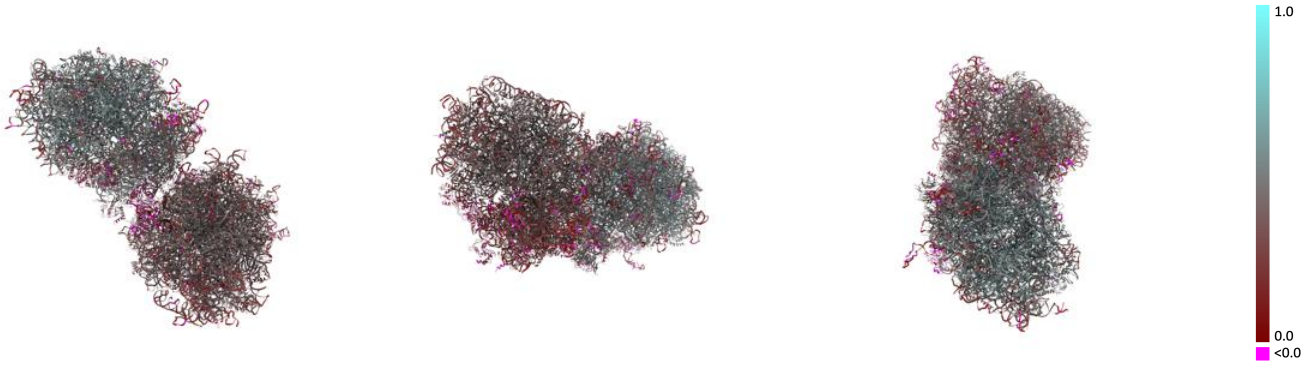
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.099 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)



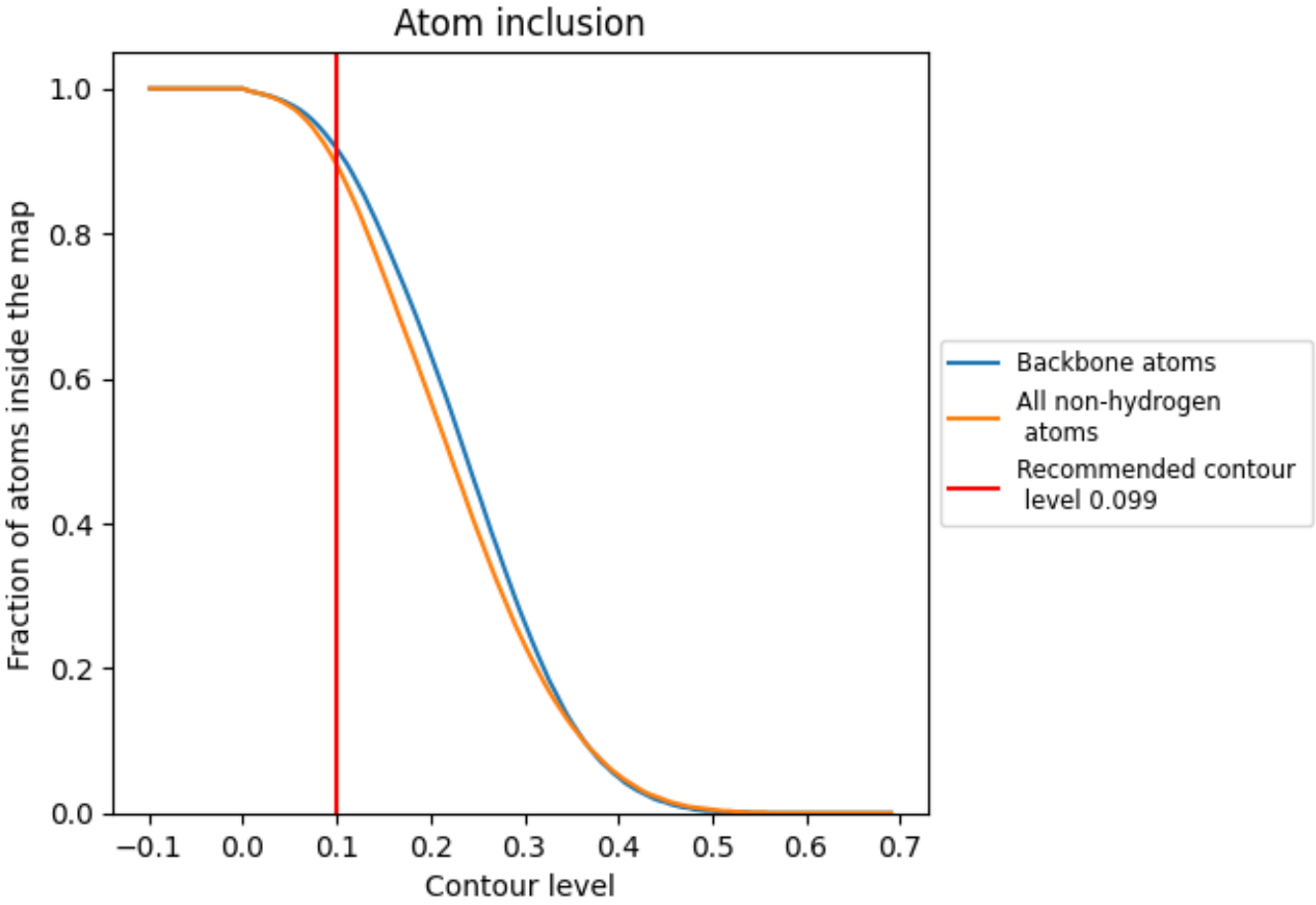
X Y Z

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)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 92% of all backbone atoms, 90% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.099) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8970	0.3970
AT	0.9510	0.1790
CF	0.7370	0.2010
Et	0.6270	0.1190
L5	0.9750	0.3660
L7	0.9950	0.3900
L8	0.9940	0.3920
LA	0.9770	0.4410
LB	0.9790	0.4010
LC	0.9650	0.4130
LD	0.9120	0.3640
LE	0.9630	0.3340
LF	0.9700	0.3850
LG	0.8780	0.3650
LH	0.9780	0.3790
LI	0.9810	0.4140
LJ	0.8740	0.3300
LL	0.9220	0.3990
LM	0.9660	0.3300
LN	0.9920	0.4410
LO	0.9860	0.3870
LP	0.9890	0.4130
LQ	0.9720	0.4270
LR	0.8930	0.3520
LS	0.9870	0.3990
LT	0.9820	0.4240
LU	0.9730	0.3680
LV	0.9950	0.4300
LW	0.7980	0.1800
LX	0.9780	0.4180
LY	0.9690	0.3970
LZ	0.9560	0.4000
La	0.9750	0.4330
Lb	0.9300	0.3570
Lc	0.9490	0.3880

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Chain	Atom inclusion	Q-score
Ld	0.9850	0.4040
Le	0.9940	0.4250
Lf	0.9950	0.4060
Lg	0.9720	0.4220
Lh	0.9580	0.3860
Li	0.9320	0.3940
Lj	0.9990	0.4420
Lk	0.9140	0.3780
Ll	0.9950	0.4290
Lm	0.9980	0.4000
Ln	1.0000	0.3860
Lo	0.9640	0.4310
Lp	0.9700	0.4230
Lr	0.9820	0.4050
Ls	0.6170	0.1650
Lt	0.4990	0.1400
Lz	0.1960	0.0510
Pt	0.9890	0.3270
S2	0.9690	0.3120
SA	0.8510	0.3080
SB	0.9130	0.3350
SC	0.9360	0.3300
SD	0.9060	0.2910
SE	0.9240	0.2990
SF	0.9270	0.2920
SG	0.9110	0.2500
SH	0.6860	0.2770
SI	0.8540	0.3160
SJ	0.8910	0.2760
SK	0.8830	0.2780
SL	0.8710	0.3300
SM	0.4590	0.1850
SN	0.9260	0.3540
SO	0.8820	0.3540
SP	0.8830	0.2790
SQ	0.9560	0.2890
SR	0.8120	0.2700
SS	0.9040	0.3020
ST	0.9130	0.2850
SU	0.8850	0.2780
SV	0.9150	0.3410
SW	0.9680	0.3470

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Chain	Atom inclusion	Q-score
SX	0.9860	0.3380
SY	0.9370	0.2580
SZ	0.8030	0.2590
Sa	0.9570	0.3590
Sb	0.8530	0.3230
Sc	0.9300	0.3030
Sd	0.9860	0.3200
Se	0.9170	0.2750
Sf	0.7170	0.2020
Sg	0.8420	0.2260
aP	0.8480	0.3200
cB	0.5900	0.3770
cH	0.6520	0.3960
l5	0.9220	0.4660
l7	0.9820	0.5130
l8	0.9550	0.4890
lA	0.9290	0.5430
lB	0.8640	0.5240
lC	0.9060	0.5340
lD	0.8330	0.4810
lE	0.8030	0.4630
lF	0.9110	0.5320
lG	0.7920	0.4580
lH	0.8190	0.5110
lI	0.8780	0.5320
lJ	0.7490	0.4290
lL	0.8740	0.5010
lM	0.8630	0.5030
lN	0.9670	0.5600
lO	0.9060	0.5330
lP	0.9240	0.5490
lQ	0.9420	0.5530
lR	0.8420	0.4880
lS	0.9180	0.5460
lT	0.9030	0.5270
lU	0.7580	0.4080
lV	0.8800	0.5360
lX	0.9060	0.5240
lY	0.8840	0.5220
lZ	0.8660	0.4980
la	0.9430	0.5480
lb	0.8160	0.4750

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Chain	Atom inclusion	Q-score
lc	0.8310	0.4730
ld	0.8760	0.5140
le	0.9450	0.5510
lf	0.9390	0.5570
lg	0.8770	0.5170
lh	0.8800	0.5120
li	0.8550	0.5010
lj	0.9720	0.5510
lk	0.7950	0.4620
ll	0.9530	0.5520
lm	0.8850	0.5330
ln	0.9190	0.5430
lo	0.8800	0.5350
lp	0.9090	0.5370
lr	0.9130	0.5350
ls	0.3270	0.2080
lt	0.2580	0.1590
lz	0.0780	0.0560
pE	0.8340	0.2490
s2	0.9090	0.4310
sA	0.7540	0.4390
sB	0.8030	0.4680
sC	0.8200	0.4790
sD	0.7710	0.4310
sE	0.8100	0.4490
sF	0.7720	0.4260
sG	0.6780	0.3890
sH	0.6420	0.3560
sI	0.7760	0.4310
sJ	0.8070	0.4280
sK	0.7950	0.4340
sL	0.7950	0.4580
sM	0.4130	0.2500
sN	0.8450	0.4930
sO	0.8010	0.4670
sP	0.7810	0.4520
sQ	0.7840	0.4250
sR	0.4700	0.1510
sS	0.7680	0.4430
sT	0.8130	0.4330
sU	0.7200	0.3920
sV	0.7540	0.4280

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Chain	Atom inclusion	Q-score
sW	0.8710	0.4980
sX	0.8490	0.4930
sY	0.7160	0.3740
sZ	0.6350	0.3370
sa	0.8760	0.5050
sb	0.7340	0.4140
sc	0.6460	0.3140
sd	0.8960	0.4860
se	0.5920	0.3020
sf	0.5670	0.2850
sg	0.6220	0.3710