



Full wwPDB EM Validation Report ⓘ

Jun 25, 2026 – 11:44 PM EDT

PDB ID : 7UPH / pdb_00007uph
EMDB ID : EMD-26666
Title : Structure of a ribosome with tethered subunits
Authors : Kim, D.S.; Watkins, A.; Bidstrup, E.; Lee, J.; Topkar, V.V.; Kofman, C.;
Schwarz, K.J.; Liu, Y.; Pintilie, G.; Roney, E.; Das, R.; Jewett, M.C.
Deposited on : 2022-04-15
Resolution : 4.18 Å(reported)
Based on initial model : 4YBB

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:

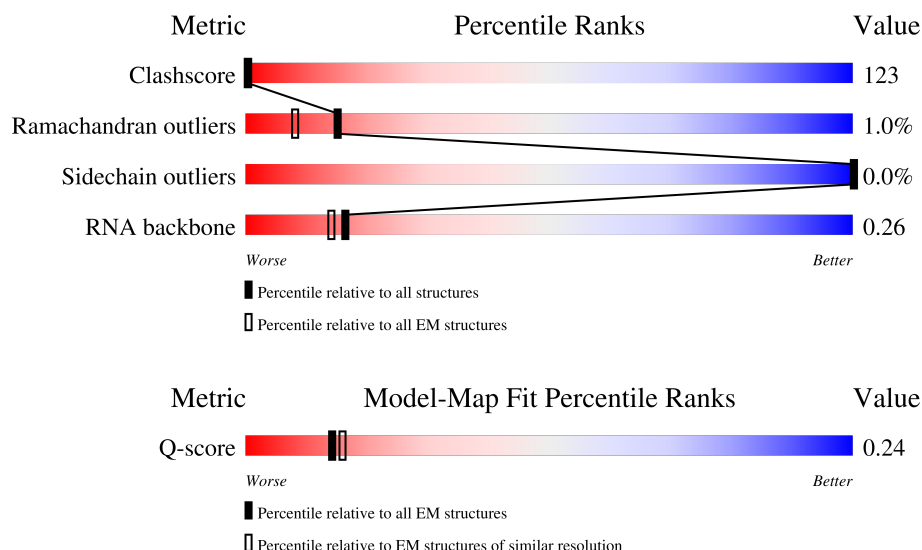
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
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 4.18 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.



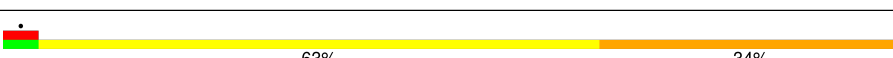
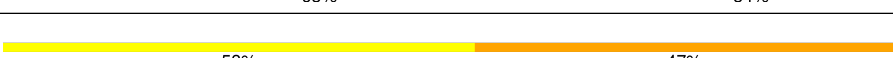
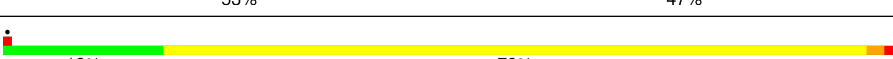
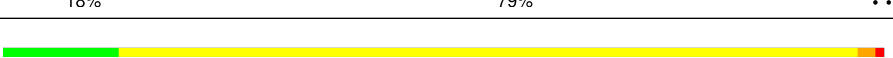
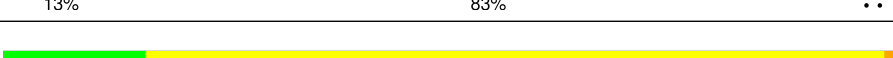
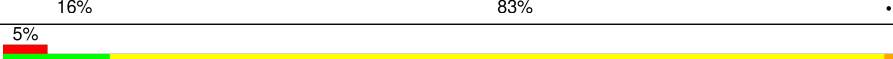
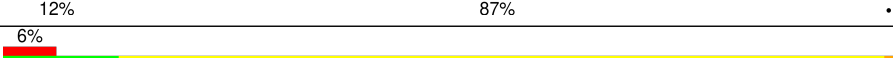
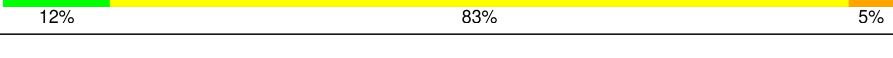
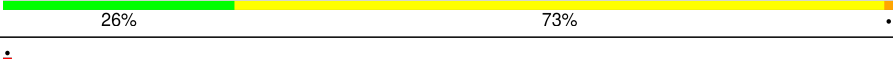
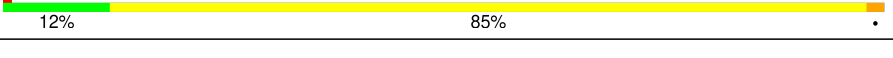
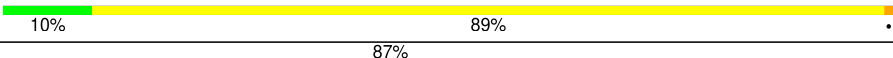
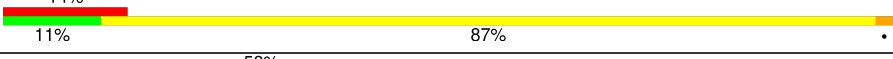
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	5389 (3.68 - 4.68)

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 $\leq 5\%$. 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	A	100	16% 24% 75% .
2	B	88	48% 15% 83% .
3	C	82	23% 11% 84% 5%

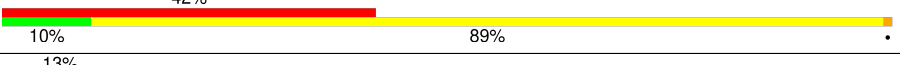
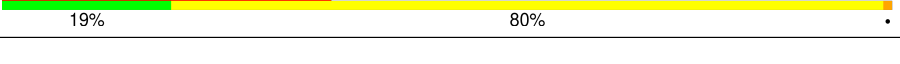
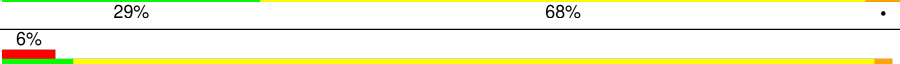
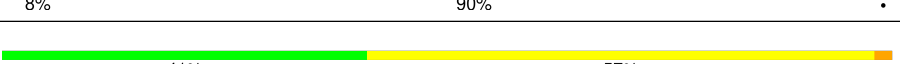
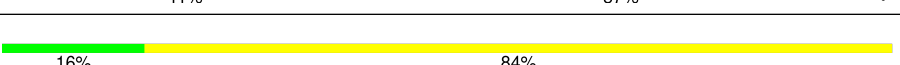
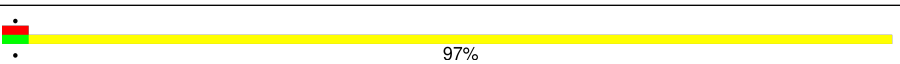
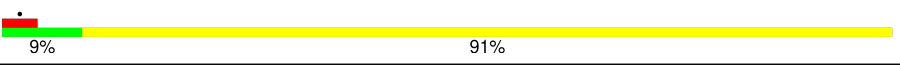
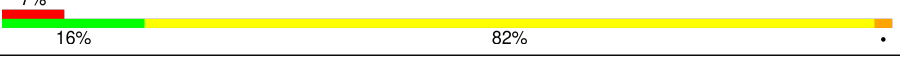
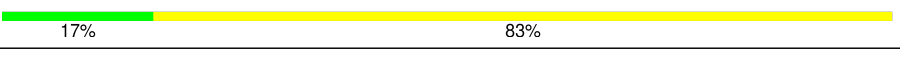
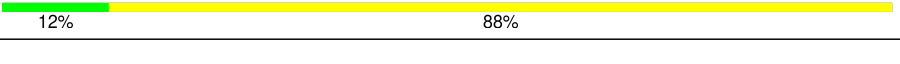
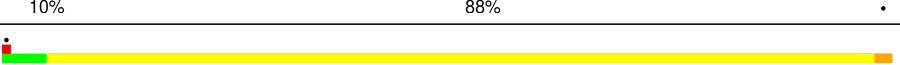
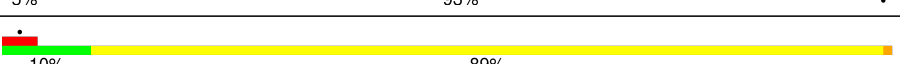
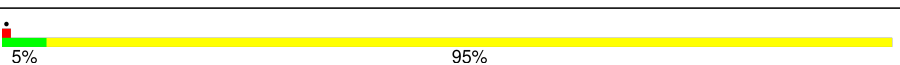
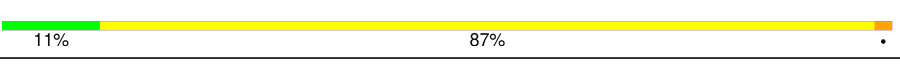
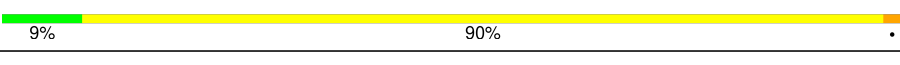
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Mol	Chain	Length	Quality of chain
4	D	80	
5	E	55	
6	F	79	
7	G	85	
8	H	56	
9	I	4438	
10	J	118	
11	K	271	
12	L	209	
13	M	201	
14	N	177	
15	O	176	
16	R	142	
17	S	122	
18	T	144	
19	U	136	
20	V	120	
21	W	224	
22	X	206	
23	Y	205	
24	Z	150	
25	a	100	
26	b	151	
27	c	129	
28	d	127	

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Mol	Chain	Length	Quality of chain
29	e	98	
30	f	117	
31	g	123	
32	h	114	
33	i	56	
34	j	50	
35	k	46	
36	l	64	
37	m	38	
38	n	116	
39	o	114	
40	p	117	
41	q	103	
42	r	110	
43	s	93	
44	t	102	
45	u	94	
46	v	75	
47	w	77	
48	x	62	
49	y	58	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
31	D2T	g	88	-	-	X	-
9	1MG	I	2245	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
9	PSU	I	2449	-	-	X	-
9	3TD	I	3409	-	-	X	-
9	PSU	I	3411	-	-	X	-
9	PSU	I	3951	-	-	X	-
9	OMC	I	3992	-	-	X	-
9	5MC	I	966	-	-	X	-

2 Entry composition

There are 49 unique types of molecules in this entry. The entry contains 141080 atoms, of which 625 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 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	100	Total	C	N	O	S	0	0
			805	499	164	139	3		

- Molecule 2 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	88	Total	C	N	O	S	0	0
			714	439	144	130	1		

- Molecule 3 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	82	Total	C	N	O	S	0	0
			649	406	128	114	1		

- Molecule 4 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	80	Total	C	N	O	S	0	0
			649	411	121	114	3		

- Molecule 5 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	E	55	Total	C	N	O	0	0
			456	288	86	82		

- Molecule 6 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	79	Total	C	N	O	S	0	0
			638	408	120	108	2		

- Molecule 7 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	85	Total	C	N	O	S	0	0
			665	411	137	114	3		

- Molecule 8 is a protein called 30S ribosomal protein S21.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	56	Total	C	N	O	S	0	0
			465	290	96	78	1		

- Molecule 9 is a RNA chain called Tethered rRNA.

Mol	Chain	Residues	Atoms						AltConf	Trace
9	I	4438	Total	C	H	N	O	P	0	0
			95909	42519	625	17511	30816	4438		

- Molecule 10 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	118	Total	C	N	O	P	0	0
			2529	1126	464	821	118		

- Molecule 11 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	271	Total	C	N	O	S	0	0
			2083	1288	423	365	7		

- Molecule 12 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	209	Total	C	N	O	S	0	0
			1565	979	288	294	4		

- Molecule 13 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	M	201	Total	C	N	O	S	0	0
			1552	974	283	290	5		

- Molecule 14 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	N	177	Total	C	N	O	S	0	0
			1411	899	249	257	6		

- Molecule 15 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	O	176	Total	C	N	O	S	0	0
			1323	832	243	246	2		

- Molecule 16 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	R	142	Total	C	N	O	S	0	0
			1129	714	212	199	4		

- Molecule 17 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	S	122	Total	C	N	O	S	0	0
			938	587	180	165	6		

- Molecule 18 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	T	144	Total	C	N	O	S	0	0
			1053	654	207	190	2		

- Molecule 19 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	U	136	Total	C	N	O	S	0	0
			1075	686	205	178	6		

- Molecule 20 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	V	120	Total	C	N	O	S	0	0
			960	593	196	166	5		

- Molecule 21 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	W	224	Total	C	N	O	S	0	0
			1753	1109	315	321	8		

- Molecule 22 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	X	206	Total	C	N	O	S	0	0
			1625	1028	305	289	3		

- Molecule 23 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	Y	205	Total	C	N	O	S	0	0
			1643	1026	315	298	4		

- Molecule 24 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Z	150	Total	C	N	O	S	0	0
			1105	687	211	201	6		

- Molecule 25 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	a	100	Total	C	N	O	S	0	0
			817	515	148	148	6		

- Molecule 26 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	b	151	Total	C	N	O	S	0	0
			1182	735	227	216	4		

- Molecule 27 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	c	129	Total	C	N	O	S	0	0
			979	616	173	184	6		

- Molecule 28 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	d	127	Total	C	N	O	S	0	0
			1022	634	206	179	3		

- Molecule 29 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	e	98	Total	C	N	O	S	0	0
			787	493	150	143	1		

- Molecule 30 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	f	117	Total	C	N	O	S	0	0
			877	540	174	160	3		

- Molecule 31 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	g	123	Total	C	N	O	S	0	0
			957	591	196	165	5		

- Molecule 32 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	h	114	Total	C	N	O	S	0	0
			884	546	178	157	3		

- Molecule 33 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	i	56	Total	C	N	O	S	0	0
			444	269	94	80	1		

- Molecule 34 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				AltConf	Trace
34	j	50	Total	C	N	O	0	0
			409	263	75	71		

- Molecule 35 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	k	46	Total	C	N	O	S	0	0
			377	228	90	57	2		

- Molecule 36 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	l	64	Total	C	N	O	S	0	0
			504	323	105	74	2		

- Molecule 37 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	m	38	Total	C	N	O	S	0	0
			302	185	65	48	4		

- Molecule 38 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	n	116	Total	C	N	O		0	0
			892	552	178	162			

- Molecule 39 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	o	114	Total	C	N	O	S	0	0
			917	574	179	163	1		

- Molecule 40 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	p	117	Total	C	N	O		0	0
			947	604	192	151			

- Molecule 41 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	q	103	Total	C	N	O	S	0	0
			816	516	153	145	2		

- Molecule 42 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	r	110	Total	C	N	O	S	0	0
			857	532	166	156	3		

- Molecule 43 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	s	93	Total	C	N	O	S	0	0
			739	466	139	132	2		

- Molecule 44 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	t	102	Total	C	N	O	S	0	0
			780	492	146	142			

- Molecule 45 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	u	94	Total	C	N	O	S	0	0
			753	479	137	134	3		

- Molecule 46 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	v	75	Total	C	N	O	S	0	0
			569	353	113	102	1		

- Molecule 47 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	w	77	Total	C	N	O	S	0	0
			625	388	129	106	2		

- Molecule 48 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	x	62	Total	C	N	O	S	0	0
			501	308	98	94	1		

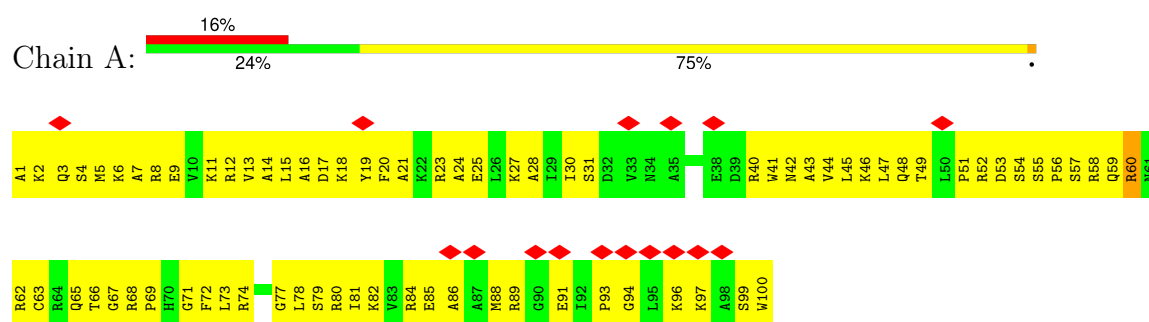
- Molecule 49 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	y	58	Total	C	N	O	S	0	0
			449	281	87	79	2		

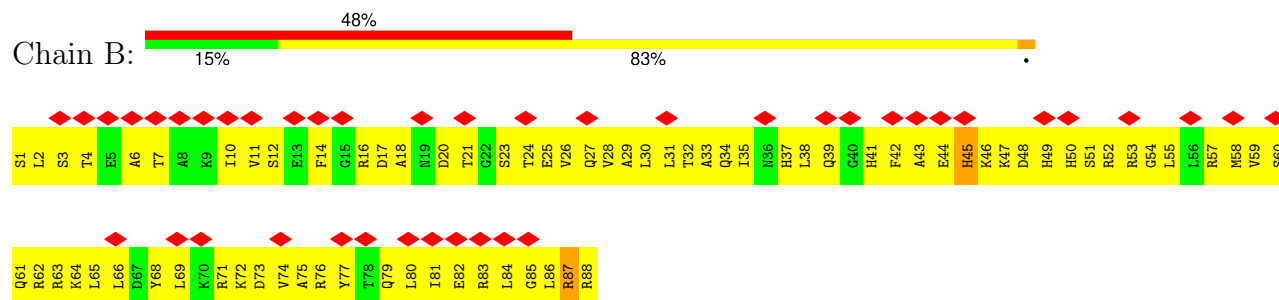
3 Residue-property plots [i](#)

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.

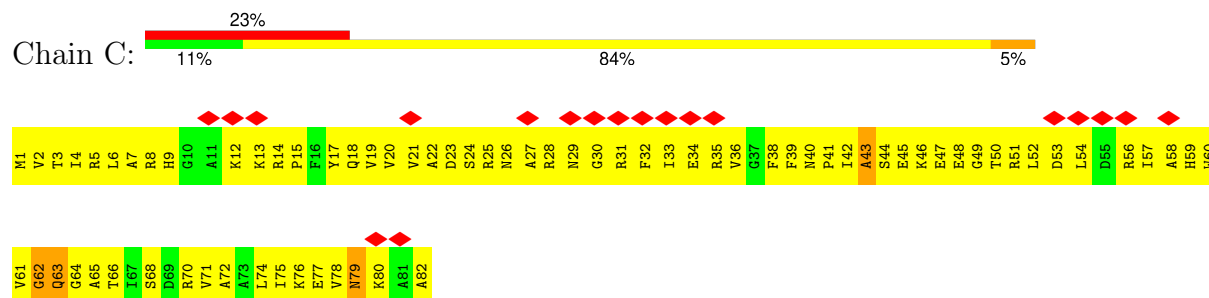
• Molecule 1: 30S ribosomal protein S14



• Molecule 2: 30S ribosomal protein S15

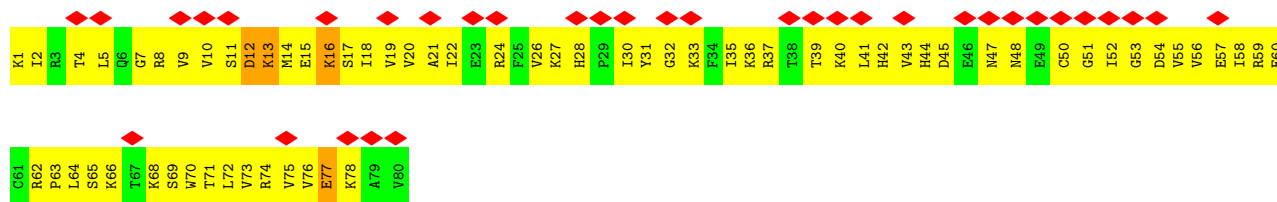


• Molecule 3: 30S ribosomal protein S16

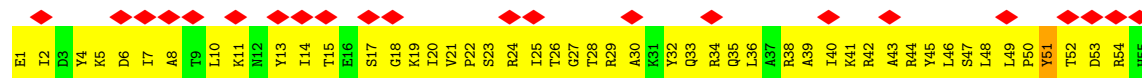


• Molecule 4: 30S ribosomal protein S17

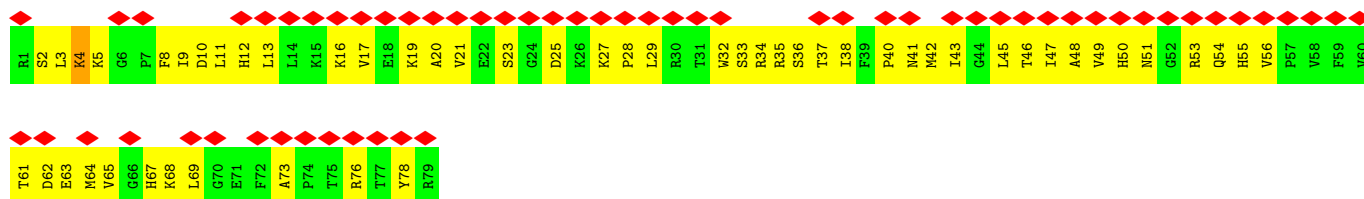
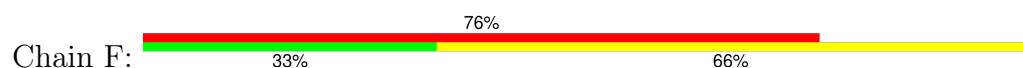




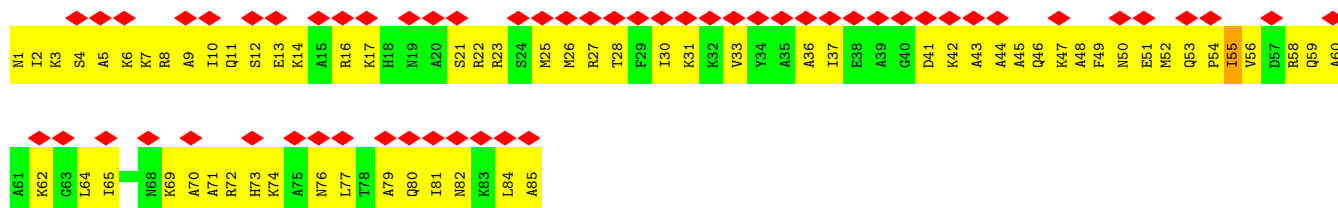
• Molecule 5: 30S ribosomal protein S18



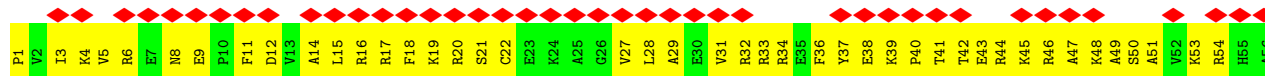
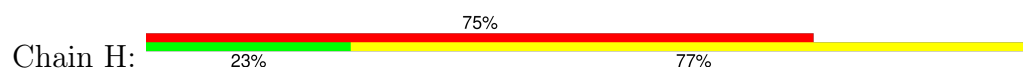
• Molecule 6: 30S ribosomal protein S19



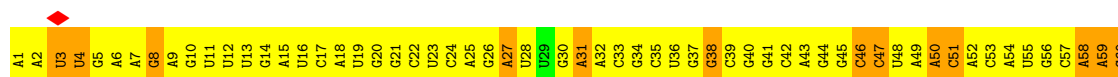
• Molecule 7: 30S ribosomal protein S20



• Molecule 8: 30S ribosomal protein S21



• Molecule 9: Tethered rRNA



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G784	G785	G786	U787	U788	A789	G790	G791	U792	U793	C794	G795	C796	U797	G798	G799	C800	A801	G802	A803	C804	G805	C806	C807	G808	U809	U810	A811	A812	U813	C814	C815	U816	C817	A818	U819	G820	C821	U822	C823	G824	C825	G826	U827	G828	U829	A830	C831	G832	U833	U834	G835	C836	G837	C838	A839	U840	U841	U842	G843	
G663	A664	G665	G666	G667	G668	C669	U670	U671	A672	G673	A674	A675	U676	U677	C678	C679	A680	G681	A682	U683	G684	U685	A686	G687	U688	G689	C690	U691	G692	A693	C694	U695	U696	G697	C698	G699	U700	A701	G702	A703	G704	A705	U706	C707	U708	G709	G710	A711	G712	G713	A714	A715	U716	A717	C718	C719	G720	G721	U722	
G723	G724	C725	G726	A727	A728	G729	G730	C731	G732	C733	G734	G735	C736	C737	G738	U739	G740	G741	A742	G743	G744	A745	A746	A747	U748	C749	U750	G751	C752	A753	G754	C755	U756	A757	A758	G759	G760	U761	G762	C763	A764	A765	A766	A767	G768	C769	G770	U771	G772	G773	G774	G775	A776	G777	C778	A779	U780	A781	C782	A783
U602	G603	U604	G605	A606	A607	A608	U609	C610	C611	C612	C613	G614	G615	G616	C617	U618	C619	A620	A621	C622	C623	U624	G625	G626	G627	A628	C629	C630	U631	G632	C633	A634	U635	C636	U637	G638	U639	A640	A641	C642	U643	G644	G645	C646	A647	A648	G649	C650	U651	U652	G653	A654	C657	U658	C659	G660	U661	A662		
U542	G543	C544	A545	A546	G547	C548	C549	U550	U551	A552	A553	U554	C555	G556	G557	A558	A559	U560	U561	A562	C563	U564	G565	G566	G567	C568	G569	U570	A571	A572	A573	G574	C575	G576	C577	A578	C579	G580	C581	A582	G583	G584	C585	G586	G587	U588	U589	C590	U590	G591	U592	U593	A594	A595	G596	U597	C598	A599	G600	A601
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A1751	A1691	C1630	G1570	A1510	A1449	A1329	G1269	C1209	A1149	U1088	C969	
G1752	A1692	A1631	A1571	U1512	G1450	G1330	A1270	U1210	A1150	U1029	G970	
C1753	C1632	C1631	U1572	U1512	U1451	A1331	A1271	U1211	A1151	C1030	C971	
G1754	A1693	G1633	A1573	A1513	A1452	A1332	C1272	U1212	G1152	G1031	A991	
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A1696	A1695	G1635	A1575	G1515	A1454	U1334	A1274	A1214	A1154	U1093	A973	
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G1758	G1698	U1637	U1578	U1518	A1457	G1337	G1277	A1217	C1157	C1097	A976	
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G1761	G1701	C1640	G1580	C1520	A1460	A1340	C1280	G1220	G1160	U1100	U980	
A1762	U1702	G1641	G1581	A1521	U1461	C1341	C1281	G1221	G1161	A1101	U981	
G1763	A1703	A1642	U1582	C1522	U1462	C1401	C1282	G1222	G1162	U1102	U982	
C1764	G1704	C1643	A1583	G1523	A1463	C1402	C1283	G1223	G1163	U1103	C983	
A1765	A1705	A1644	A1584	G1524	A1464	C1403	C1284	U1224	A1164	A1104	C984	
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G1783	G1723	U1662	A1602	C1542	G1482	C1360	C1301	G1240	U1182	C1058	G1002	
U1784	A1724	C1663	A1603	G1543	A1483	A1361	C1302	G1241	G1183	U1059	A1003	
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G1805	G1745	C1684	G1624	U1564	U1442	C1382	A1323	G1262	U1204	U1082	U1024	
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G1807	G1747	G1686	A1626	C1566	U1444	G1384	C1325	G1264	U1084	U1085	C1026	
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U2713	U2653	A2473	U2413	C2353	A2293	G2233	C2172	G2112	G2051	G1991	U1931	A1871	A1811
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A2719	C2539	G2479	A2419	G2359	G2299	A2239	C2178	G2118	U2057	A1997	U1937	G1877	C1817
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C2721	C2541	A2481	A2421	A2361	G2301	U2241	U2179	G2120	G2059	U1999	A1939	G1879	G1819
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G2726	C2546	G2426	U2426	A2366	C2306	U2246	U2186	A2125	C2064	A2004	C1944	A1884	A1824
C2727	G2547	A2427	A2427	G2367	U2307	U2247	U2187	A2126	G2065	A2005	C1945	G1885	G1825
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G2729	G2549	A2489	C2429	G2369	G2309	A2249	A2189	G2128	U2067	A2007	G1947	U1887	G1827
U2730	G2550	A2490	A2430	U2370	U2310	A2250	G2190	G2129	U2068	A2008	U1948	G1888	U1828
A2731	G2551	G2491	C2431	U2371	U2311	A2251	C2191	G2130	G2070	C2009	A1949	G1889	G1829
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A2741	C2559	A2501	A2441	G2381	A2321	A2261	G2201	C2140	U2080	U2019	U1959	U1899	U1839
G2742	U2560	A2502	G2442	G2382	G2322	U2262	U2202	U2141	C2081	G2020	A1960	G1900	A1840
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C2745	G2562	A2504	G2444	G2384	C2324	A2264	G2204	A2143	G2083	A2022	C1962	A1902	A1842
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A2747	G2564	G2507	G2446	U2385	U2327	U2267	A2206	U2145	G2085	G2024	U1964	A1904	A1844
U2748	A2565	C2508	G2447	A2386	U2328	G2268	G2208	U2147	A2086	U2025	G1965	U1905	A1845
G2749	A2566	U2509	U2449	G2387	A2329	U2269	U2209	G2148	G2087	A2026	A1966	G1906	A1846
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• Molecule 10: 5S rRNA

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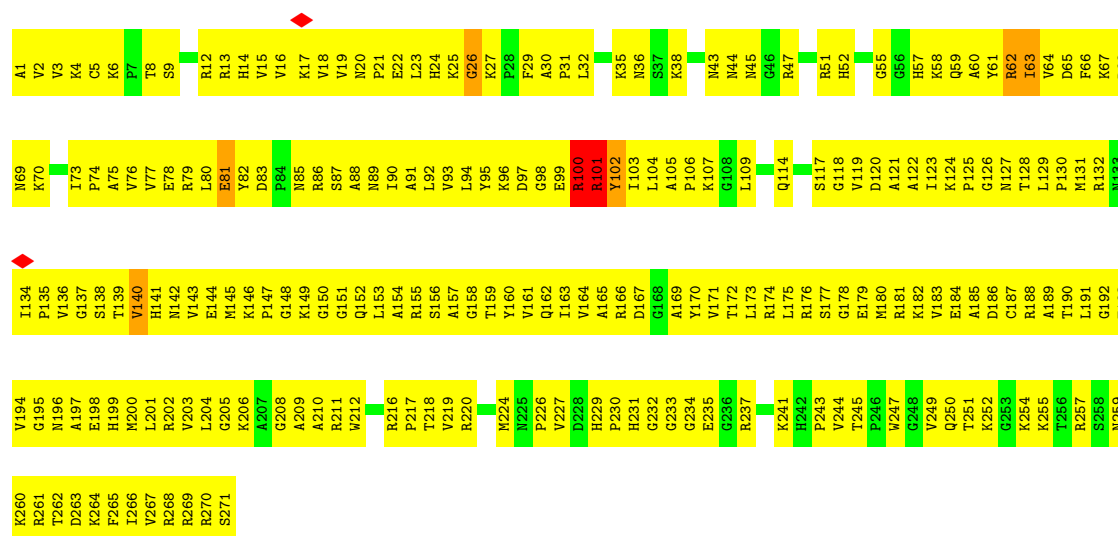


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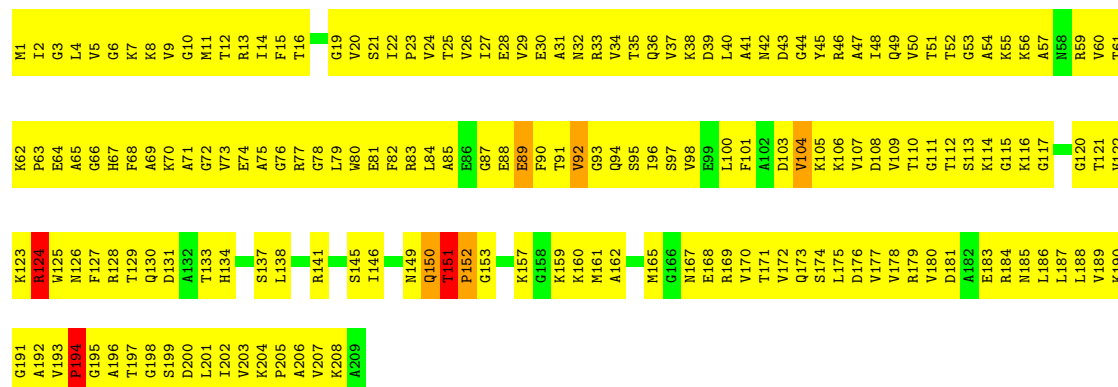
• Molecule 11: 50S ribosomal protein L2

Chain K:

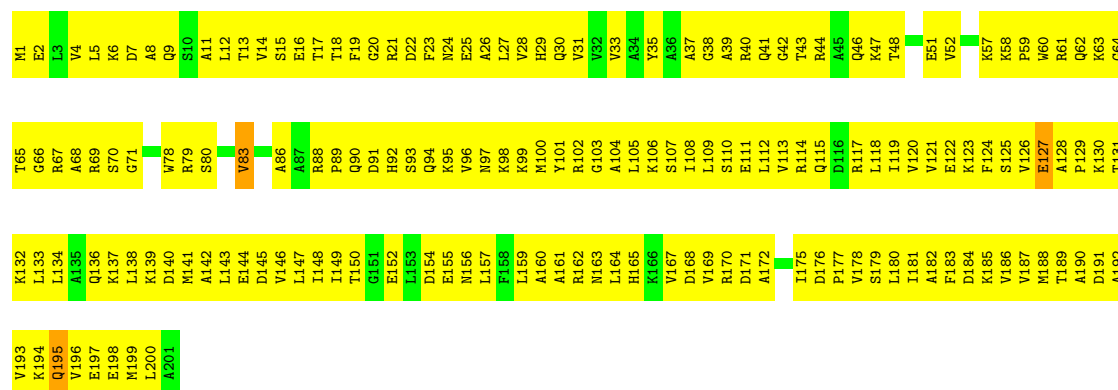




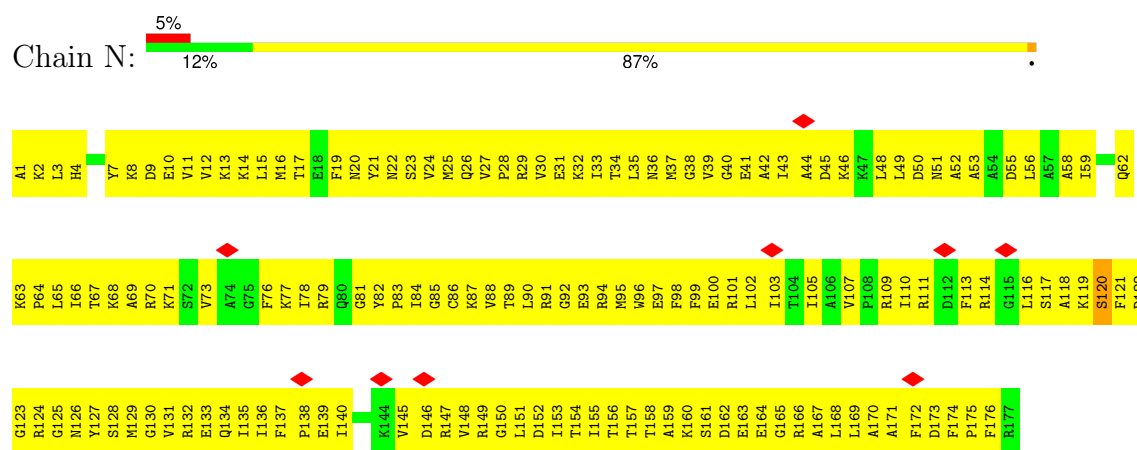
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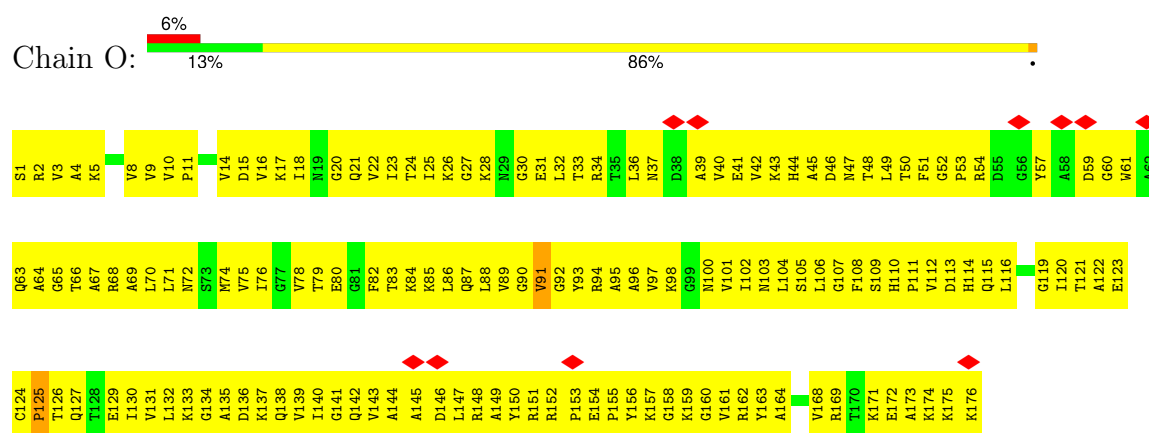
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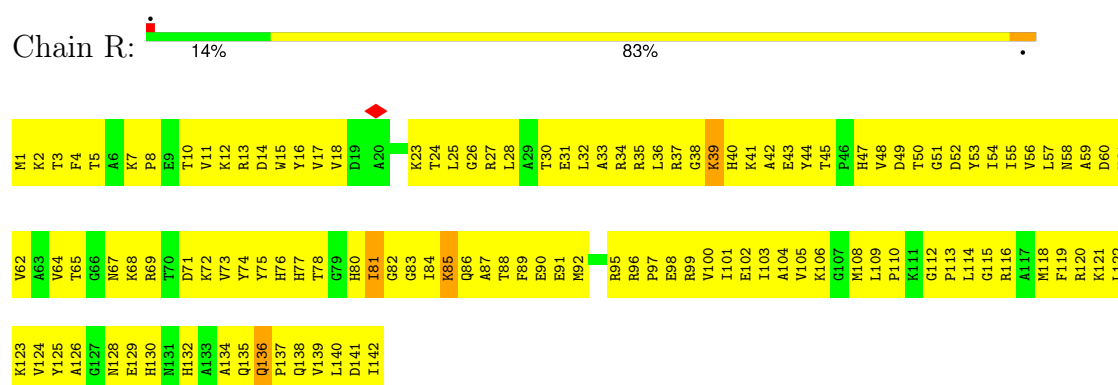
- Molecule 14: 50S ribosomal protein L5



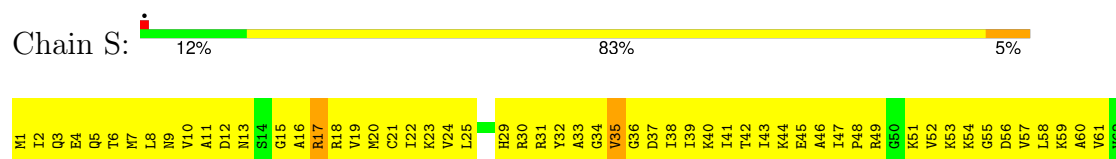
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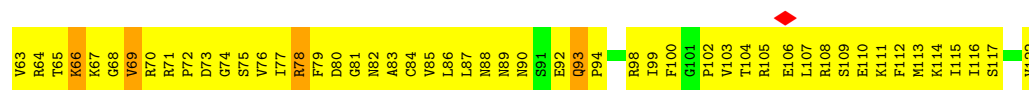


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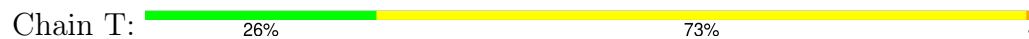


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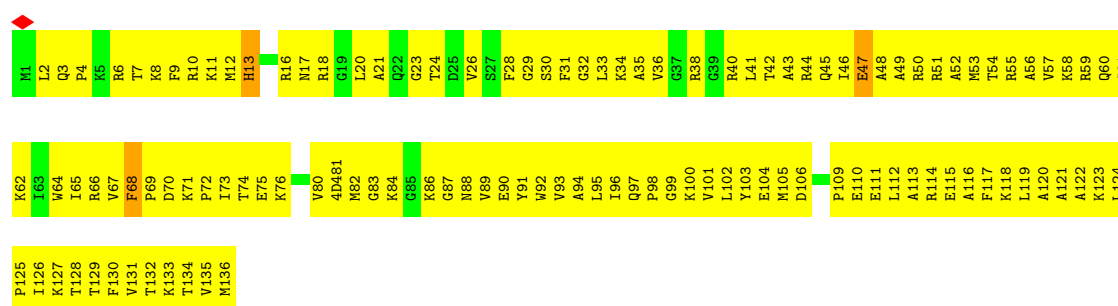




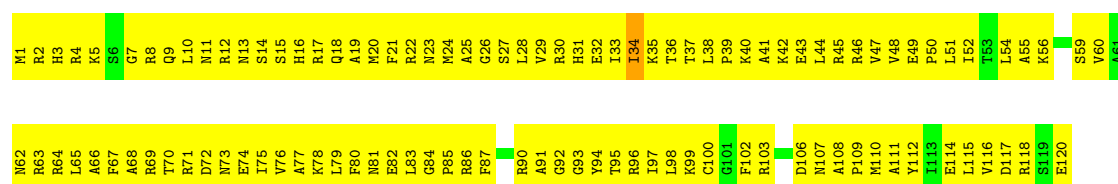
• Molecule 18: 50S ribosomal protein L15



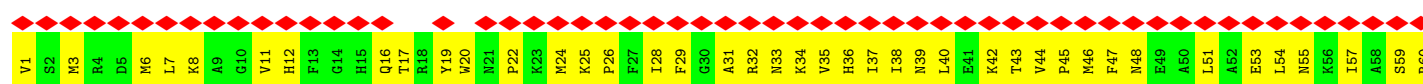
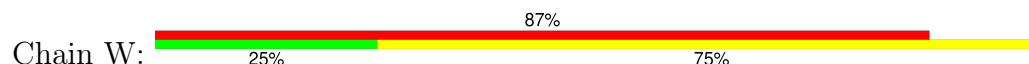
• Molecule 19: 50S ribosomal protein L16

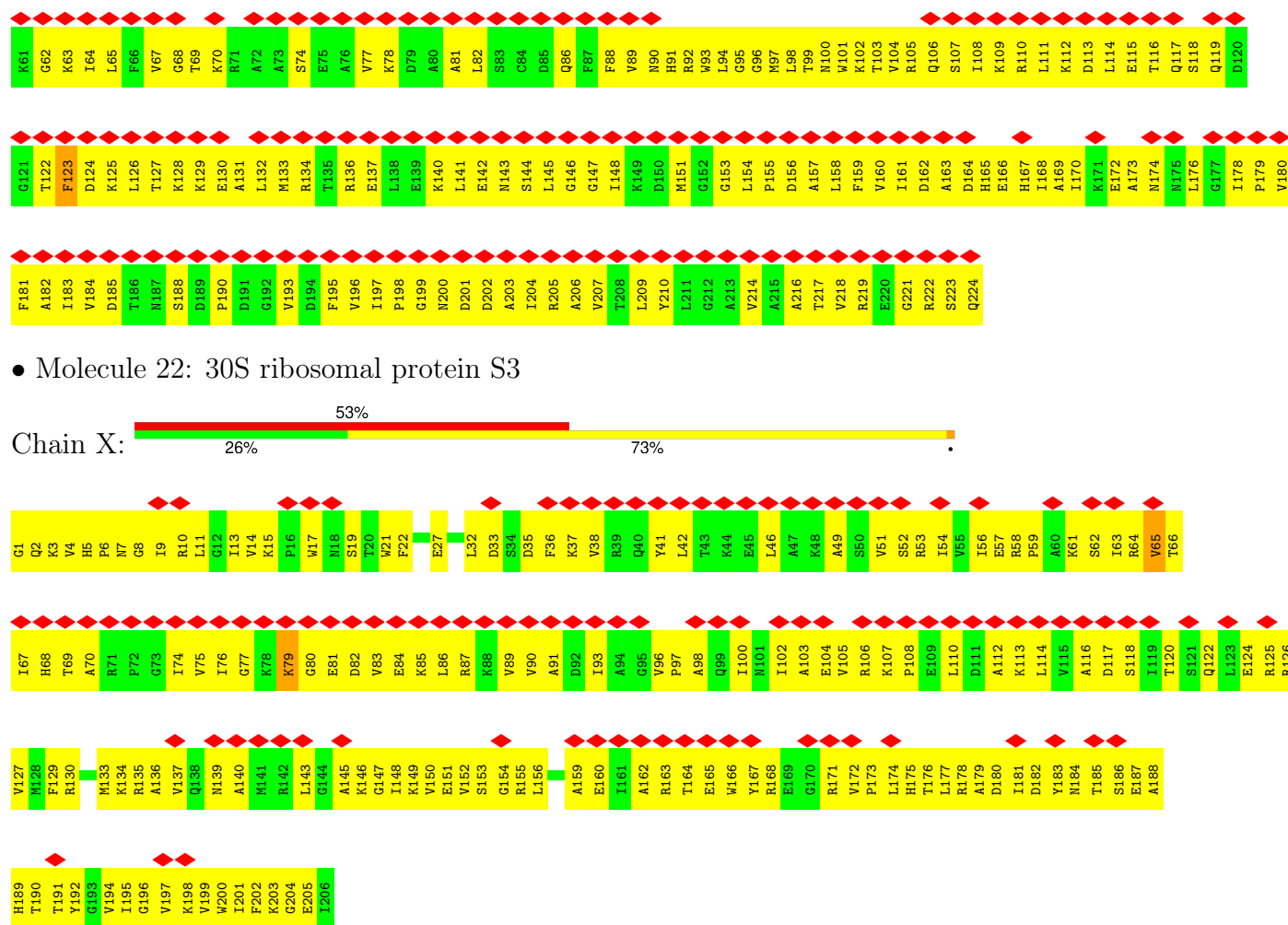


• Molecule 20: 50S ribosomal protein L17

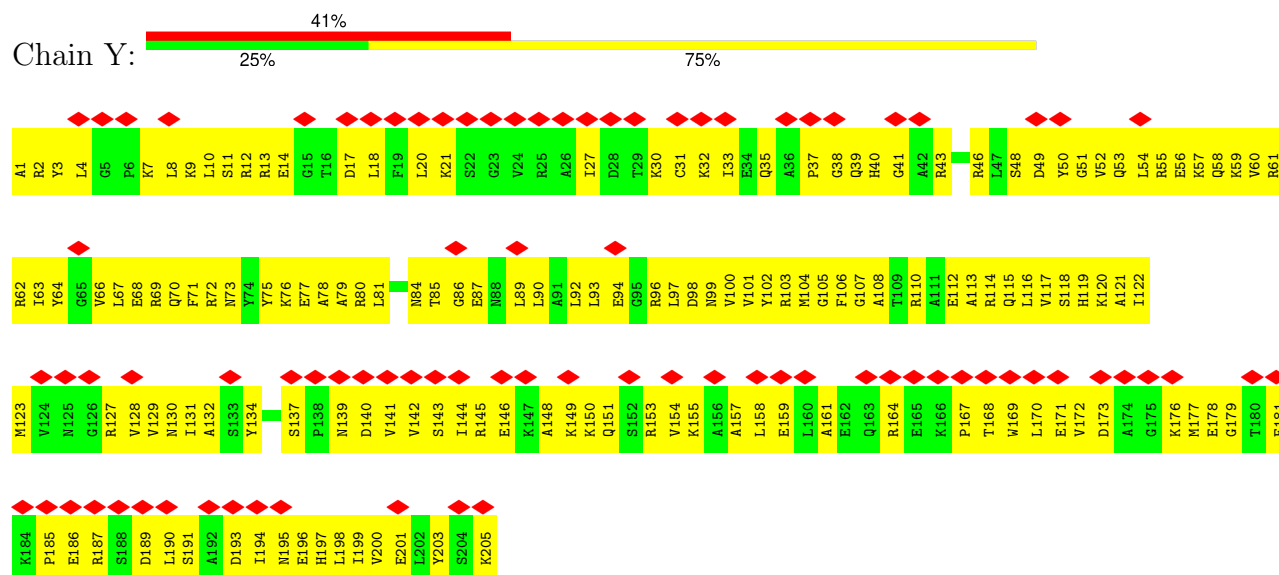


• Molecule 21: 30S ribosomal protein S2

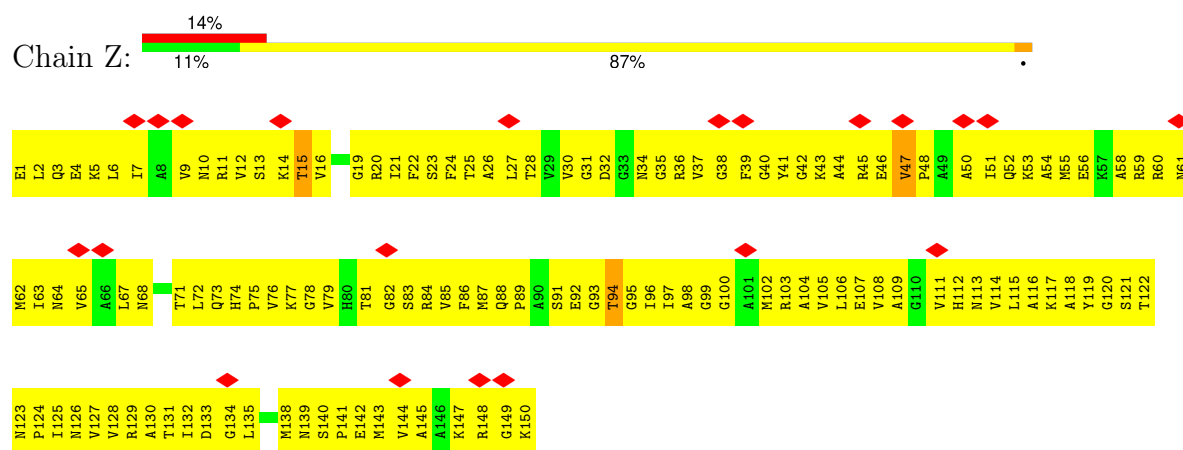




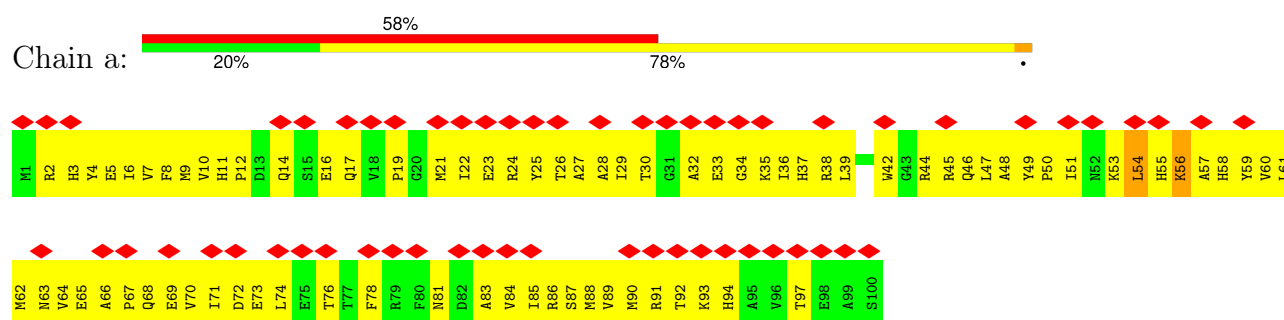
• Molecule 23: 30S ribosomal protein S4



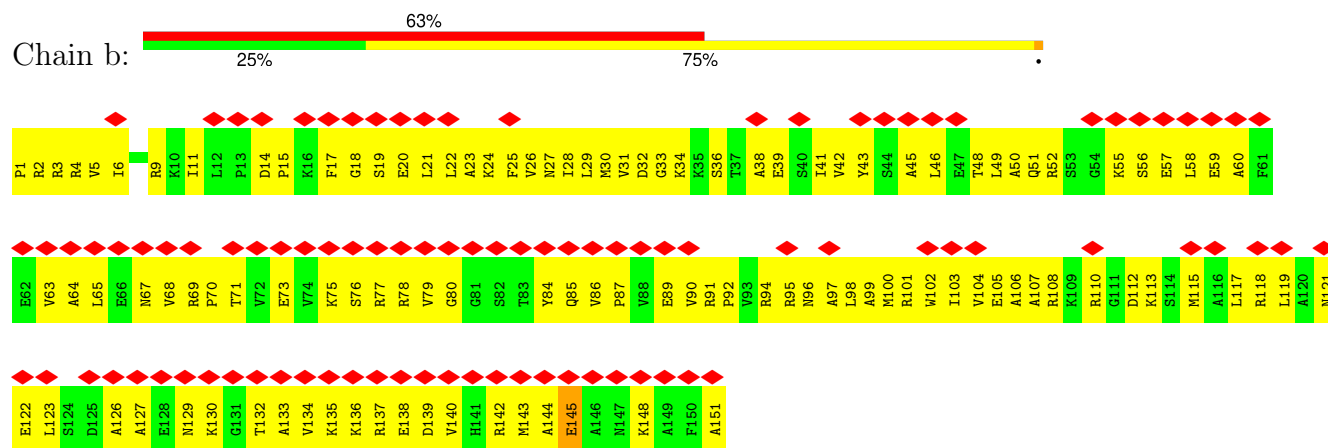
• Molecule 24: 30S ribosomal protein S5



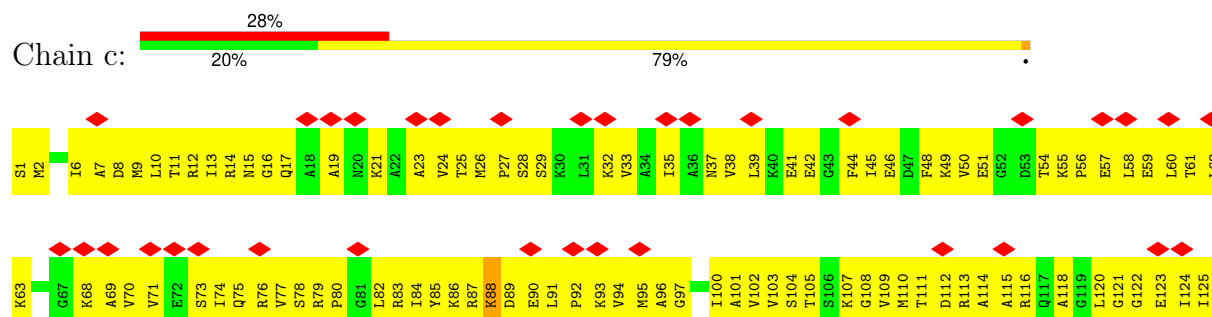
• Molecule 25: 30S ribosomal protein S6



• Molecule 26: 30S ribosomal protein S7



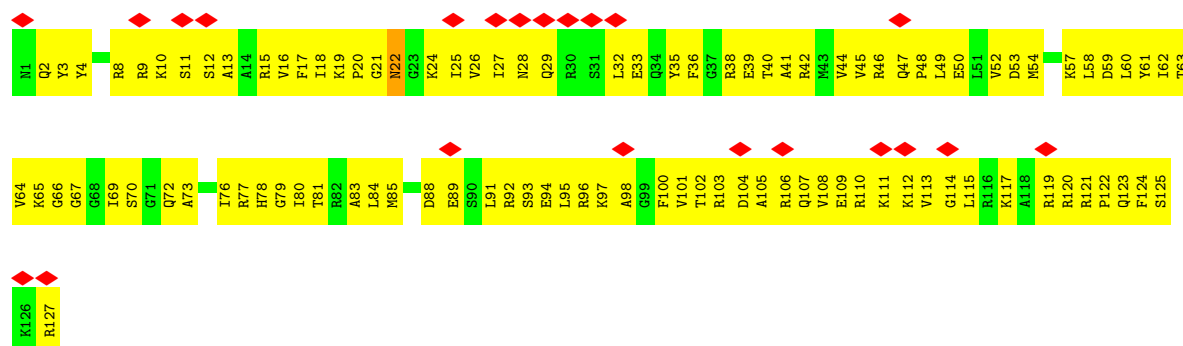
• Molecule 27: 30S ribosomal protein S8



C126
Y127
V128
A129

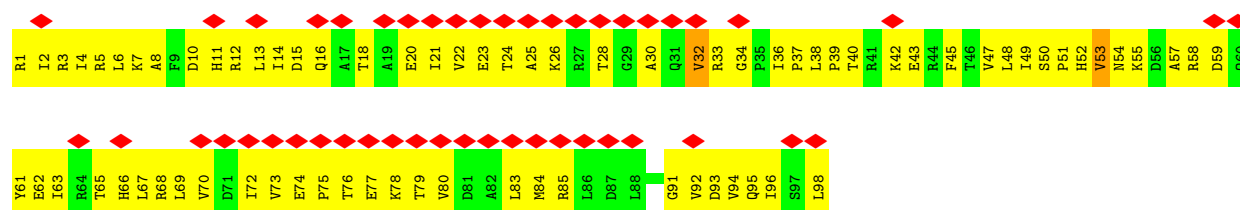
• Molecule 28: 30S ribosomal protein S9

Chain d: 17% 20% 79%



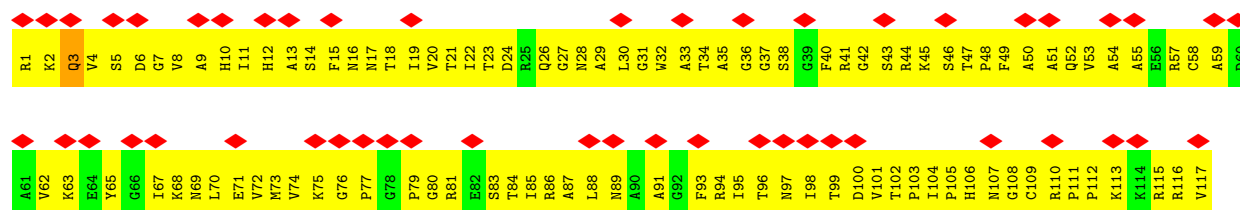
• Molecule 29: 30S ribosomal protein S10

Chain e: 22% 48% 76%



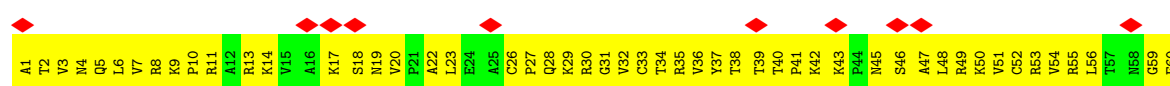
• Molecule 30: 30S ribosomal protein S11

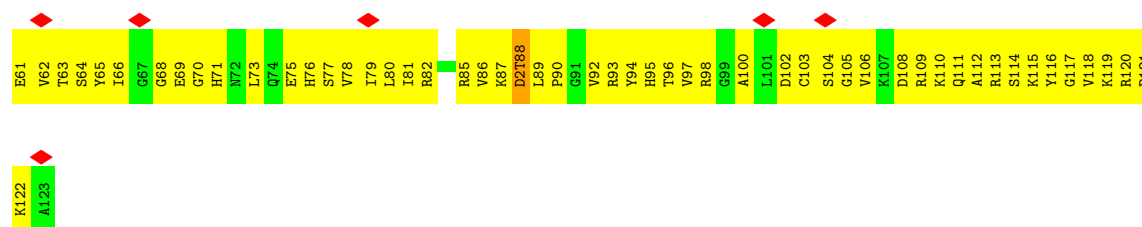
Chain f: 10% 42% 89%



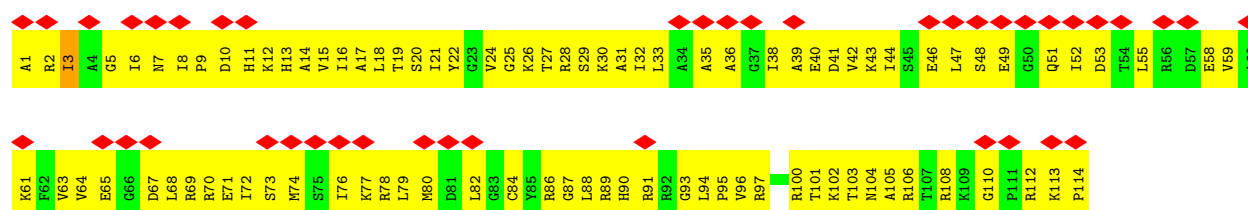
• Molecule 31: 30S ribosomal protein S12

Chain g: 13% 15% 84%





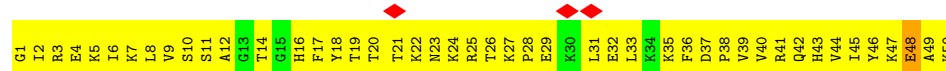
• Molecule 32: 30S ribosomal protein S13



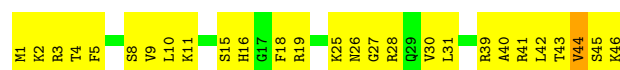
• Molecule 33: 50S ribosomal protein L32



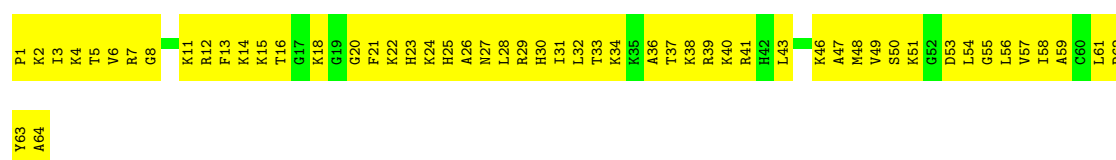
• Molecule 34: 50S ribosomal protein L33



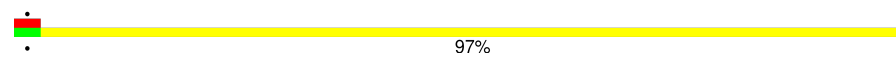
• Molecule 35: 50S ribosomal protein L34



• Molecule 36: 50S ribosomal protein L35

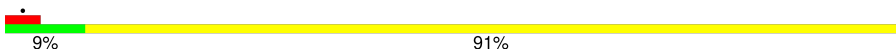


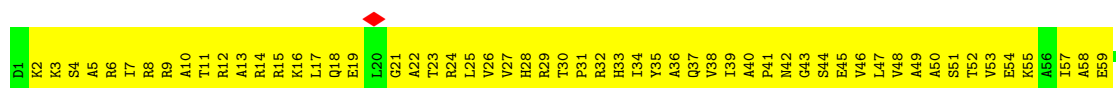
• Molecule 37: 50S ribosomal protein L36

Chain m:  97%



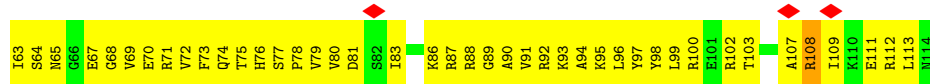
• Molecule 38: 50S ribosomal protein L18

Chain n:  91%



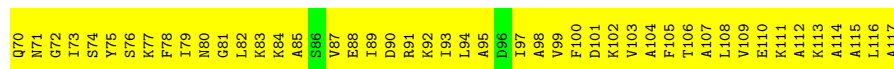
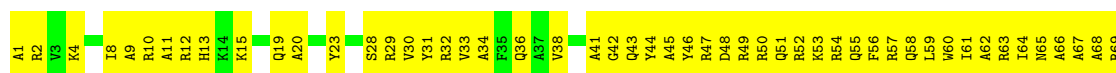
• Molecule 39: 50S ribosomal protein L19

Chain o:  82%

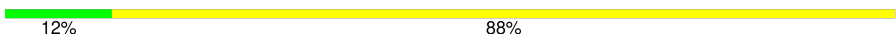


• Molecule 40: 50S ribosomal protein L20

Chain p:  83%

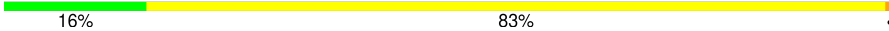


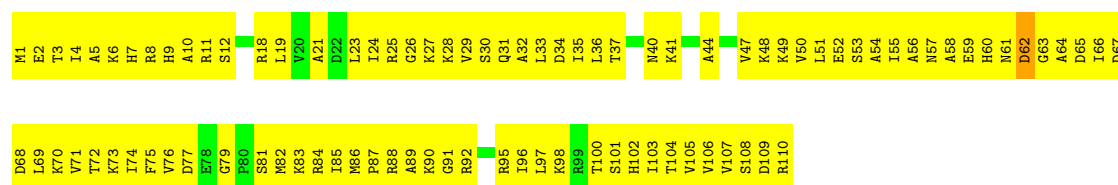
• Molecule 41: 50S ribosomal protein L21

Chain q:  88%

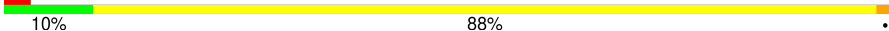


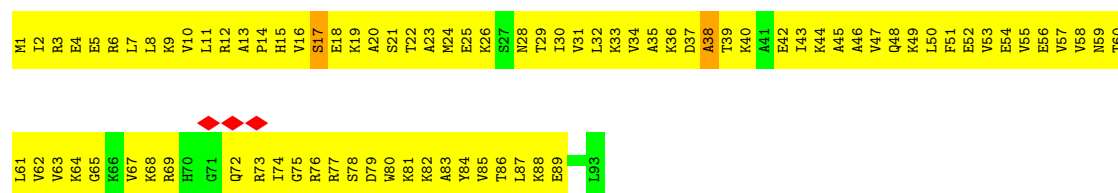
• Molecule 42: 50S ribosomal protein L22

Chain r:  16% 83%

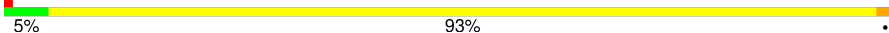


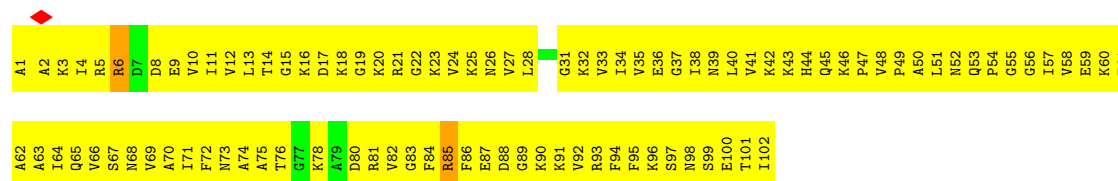
• Molecule 43: 50S ribosomal protein L23

Chain s:  10% 88%

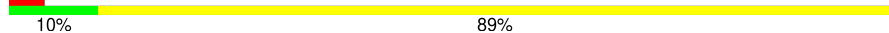


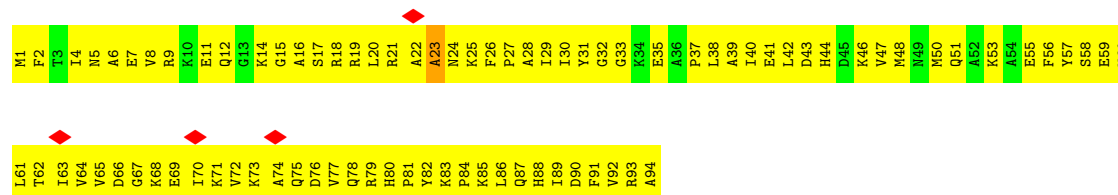
• Molecule 44: 50S ribosomal protein L24

Chain t:  5% 93%

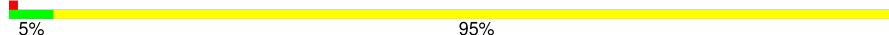


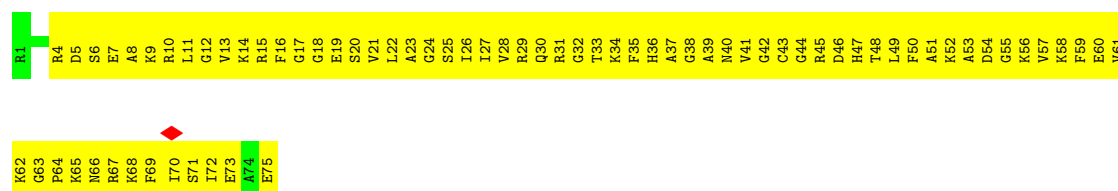
• Molecule 45: 50S ribosomal protein L25

Chain u:  10% 89%

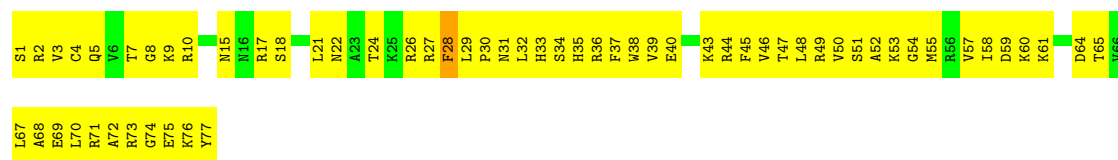


• Molecule 46: 50S ribosomal protein L27

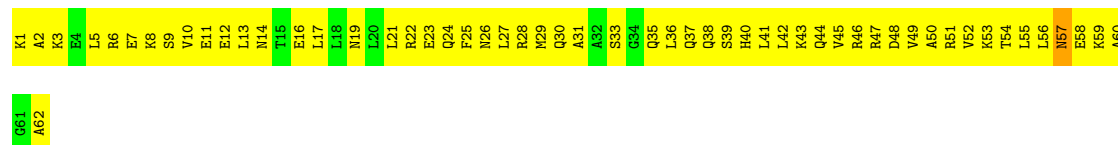
Chain v:  5% 95%



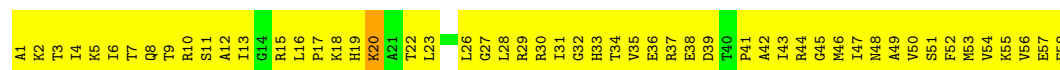
Chain w: 21% 78%



Chain x: 11% 87% .



Chain y:



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	34852	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS TALOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.073	Depositor
Minimum map value	-0.210	Depositor
Average map value	0.005	Depositor
Map value standard deviation	0.058	Depositor
Recommended contour level	0.1	Depositor
Map size ($\text{\AA}$)	430.0, 430.0, 430.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.86, 0.86, 0.86	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 5MC, 4OC, UR3, 2MA, 2MG, D2T, 5MU, 3TD, G7M, OMU, 1MG, 6MZ, OMC, 4D4, PSU, OMG, MA6

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	A	0.24	0/817	0.46	0/1088
2	B	0.20	0/722	0.51	0/964
3	C	0.81	2/659 (0.3%)	1.06	3/884 (0.3%)
4	D	0.28	0/658	0.64	0/881
5	E	0.18	0/463	0.56	0/621
6	F	0.16	0/653	0.43	0/877
7	G	0.20	0/671	0.52	1/888 (0.1%)
8	H	0.16	0/472	0.72	2/627 (0.3%)
9	I	0.33	6/105898 (0.0%)	0.46	4/165194 (0.0%)
10	J	0.33	0/2828	0.57	0/4410
11	K	0.80	6/2122 (0.3%)	0.99	7/2852 (0.2%)
12	L	0.49	1/1586 (0.1%)	0.84	2/2134 (0.1%)
13	M	0.35	0/1571	0.69	2/2113 (0.1%)
14	N	0.40	0/1435	0.68	1/1926 (0.1%)
15	O	0.34	0/1343	0.70	0/1816
16	R	0.54	1/1152 (0.1%)	0.83	0/1551
17	S	0.60	1/947 (0.1%)	0.93	2/1268 (0.2%)
18	T	0.42	0/1062	0.83	4/1413 (0.3%)
19	U	0.43	0/1081	0.73	2/1443 (0.1%)
20	V	0.39	0/973	0.78	0/1301
21	W	0.14	0/1784	0.40	0/2403
22	X	0.13	0/1652	0.36	0/2225
23	Y	0.13	0/1665	0.32	0/2227
24	Z	0.38	1/1118 (0.1%)	0.63	0/1504
25	a	0.21	0/835	0.50	0/1128
26	b	0.15	0/1196	0.41	0/1602
27	c	0.16	0/989	0.41	0/1326
28	d	0.16	0/1034	0.42	0/1375
29	e	0.19	0/797	0.50	0/1077
30	f	0.19	0/893	0.55	0/1205
31	g	0.18	0/960	0.41	0/1286

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
32	h	0.17	0/893	0.43	0/1193
33	i	0.33	0/450	0.57	0/599
34	j	0.26	0/416	0.59	0/554
35	k	0.36	0/380	0.66	0/498
36	l	0.36	0/513	0.66	0/676
37	m	0.32	0/303	0.67	0/397
38	n	0.30	0/902	0.68	0/1209
39	o	0.42	0/929	0.75	0/1242
40	p	0.40	0/960	0.71	0/1278
41	q	0.36	0/829	0.67	0/1107
42	r	0.35	0/864	0.57	0/1156
43	s	0.46	0/745	0.75	1/994 (0.1%)
44	t	0.38	0/788	0.84	0/1051
45	u	0.33	0/766	0.71	0/1025
46	v	0.38	0/576	0.74	0/762
47	w	0.37	0/635	0.70	2/848 (0.2%)
48	x	0.50	0/502	0.82	0/667
49	y	0.34	0/453	0.76	0/605
All	All	0.35	18/151940 (0.0%)	0.52	33/227470 (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	A	0	1
4	D	0	2
11	K	0	5
12	L	0	3
16	R	0	1
20	V	0	1
39	o	0	1
44	t	0	1
All	All	0	15

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	226	G	C2-N3	23.37	1.79	1.32
9	I	226	G	N3-C4	23.05	1.81	1.35
11	K	26	GLY	C-N	20.00	1.59	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	226	G	N1-C2	17.98	1.73	1.37
9	I	226	G	C6-N1	17.44	1.74	1.39
3	C	62	GLY	C-N	15.66	1.55	1.33
9	I	226	G	C5-C6	14.26	1.70	1.42
9	I	226	G	C5-C4	12.94	1.64	1.38
3	C	63	GLN	N-CA	12.48	1.62	1.46
11	K	101	ARG	CZ-NH1	-9.11	1.20	1.32
16	R	136	GLN	C-O	8.68	1.35	1.24
11	K	101	ARG	CA-CB	7.86	1.66	1.53
24	Z	47	VAL	CA-CB	-7.35	1.50	1.54
11	K	101	ARG	NE-CZ	-6.99	1.25	1.33
11	K	101	ARG	CD-NE	5.44	1.53	1.46
17	S	78	ARG	CA-CB	5.32	1.61	1.53
12	L	120	GLY	CA-C	-5.15	1.46	1.52
11	K	101	ARG	CZ-NH2	-5.09	1.26	1.33

All (33) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	62	GLY	CA-C-N	18.33	149.36	122.41
3	C	62	GLY	C-N-CA	18.33	149.36	122.41
8	H	8	ASN	CA-C-N	-10.05	106.15	121.83
8	H	8	ASN	C-N-CA	-10.05	106.15	121.83
11	K	26	GLY	N-CA-C	9.88	120.76	111.67
18	T	115	GLU	CB-CG-CD	8.92	127.77	112.60
13	M	127	GLU	CA-C-N	8.18	139.03	123.65
13	M	127	GLU	C-N-CA	8.18	139.03	123.65
18	T	115	GLU	CG-CD-OE1	-7.57	101.00	118.40
17	S	17	ARG	N-CA-C	-7.22	103.02	112.41
18	T	115	GLU	N-CA-C	-6.96	100.68	110.50
14	N	120	SER	N-CA-C	-6.78	102.62	111.71
18	T	115	GLU	OE1-CD-OE2	6.76	139.13	122.90
12	L	124	ARG	CA-CB-CG	-6.67	100.76	114.10
11	K	100	ARG	CG-CD-NE	-6.66	97.35	112.00
12	L	194	PRO	CA-N-CD	-6.47	102.94	112.00
9	I	3787	G	N9-C1'-C2'	-6.25	102.62	112.00
9	I	272	U	P-O3'-C3'	6.18	129.47	120.20
11	K	101	ARG	N-CA-CB	-6.05	100.27	110.49
19	U	68	PHE	N-CA-C	-6.03	96.49	109.81
47	w	28	PHE	CA-C-N	-5.92	108.46	122.31
47	w	28	PHE	C-N-CA	-5.92	108.46	122.31
19	U	47	GLU	CG-CD-OE2	5.76	131.65	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	63	GLN	N-CA-C	5.72	118.06	107.99
17	S	69	VAL	N-CA-C	5.38	115.87	108.12
11	K	102	TYR	N-CA-C	5.37	117.87	110.35
11	K	62	ARG	CA-C-N	-5.33	115.82	122.48
11	K	62	ARG	C-N-CA	-5.33	115.82	122.48
9	I	226	G	N1-C2-N3	-5.28	108.06	123.90
9	I	271	C	N1-C1'-C2'	-5.11	104.33	112.00
43	s	17	SER	N-CA-C	5.07	116.39	110.41
7	G	55	ILE	N-CA-C	-5.03	107.02	112.80
11	K	65	ASP	CB-CG-OD1	5.02	129.94	118.40

There are no chirality outliers.

All (15) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	60	ARG	Sidechain
4	D	12	ASP	Peptide
4	D	13	LYS	Peptide
11	K	100	ARG	Peptide
11	K	101	ARG	Peptide
11	K	140	VAL	Peptide
11	K	63	ILE	Mainchain
11	K	81	GLU	Peptide
12	L	124	ARG	Sidechain
12	L	151	THR	Peptide
12	L	92	VAL	Peptide
16	R	71	ASP	Peptide
20	V	34	ILE	Peptide
39	o	108	ARG	Sidechain
44	t	85	ARG	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	805	0	847	335	0
2	B	714	0	737	214	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	649	0	665	246	0
4	D	649	0	694	312	0
5	E	456	0	481	191	0
6	F	638	0	668	84	0
7	G	665	0	717	142	0
8	H	465	0	493	199	0
9	I	95284	625	47973	16244	0
10	J	2529	0	1281	760	0
11	K	2083	0	2157	881	0
12	L	1565	0	1616	851	0
13	M	1552	0	1619	578	0
14	N	1411	0	1447	634	0
15	O	1323	0	1374	662	0
16	R	1129	0	1162	429	0
17	S	938	0	1012	464	0
18	T	1053	0	1129	357	0
19	U	1075	0	1155	384	0
20	V	960	0	1000	411	0
21	W	1753	0	1783	395	0
22	X	1625	0	1699	298	0
23	Y	1643	0	1710	323	0
24	Z	1105	0	1151	267	0
25	a	817	0	808	243	0
26	b	1182	0	1240	240	0
27	c	979	0	1034	211	0
28	d	1022	0	1073	240	0
29	e	787	0	831	217	0
30	f	877	0	890	394	0
31	g	957	0	1020	239	0
32	h	884	0	944	237	0
33	i	444	0	461	85	0
34	j	409	0	443	206	0
35	k	377	0	418	51	0
36	l	504	0	574	127	0
37	m	302	0	343	210	0
38	n	892	0	926	383	0
39	o	917	0	965	513	0
40	p	947	0	1022	367	0
41	q	816	0	839	337	0
42	r	857	0	922	195	0
43	s	739	0	807	336	0
44	t	780	0	834	454	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	u	753	0	780	382	0
46	v	569	0	584	356	0
47	w	625	0	655	200	0
48	x	501	0	534	226	0
49	y	449	0	491	231	0
All	All	140455	625	94008	28535	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 123.

All (28535) 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)
3:C:63:GLN:N	9:I:226:G:C4	1.68	1.57
9:I:226:G:N1	9:I:226:G:C6	1.74	1.56
9:I:226:G:N1	9:I:226:G:C2	1.73	1.54
10:J:76:U:C2	10:J:98:A:N7	1.82	1.47
9:I:226:G:C4	9:I:226:G:N3	1.81	1.44
10:J:76:U:N3	10:J:98:A:C8	1.87	1.42
3:C:63:GLN:HA	9:I:226:G:C6	1.62	1.32
9:I:2970:U:H3	9:I:3009:A:N6	1.30	1.26
9:I:2587:G:H21	9:I:2592:A:N6	1.32	1.25
9:I:3783:G:O6	9:I:3837:U:C2	1.93	1.22
39:o:28:LYS:HD3	39:o:39:LEU:HD23	1.22	1.21
3:C:63:GLN:N	9:I:226:G:C5	2.08	1.21
11:K:63:ILE:HD13	11:K:101:ARG:HH12	1.04	1.20
9:I:2587:G:N2	9:I:2592:A:H62	1.37	1.19
3:C:63:GLN:N	9:I:226:G:N1	1.87	1.19
39:o:99:LEU:HA	39:o:102:ARG:HD3	1.20	1.19
46:v:26:ILE:HA	46:v:50:PHE:CB	1.73	1.18
9:I:147:G:H1	9:I:173:A:N6	1.42	1.17
12:L:113:SER:CA	12:L:195:GLY:HA2	1.74	1.17
1:A:60:ARG:HG3	9:I:979:C:H2'	1.23	1.17
9:I:1178:A:H4'	28:d:102:THR:HA	1.20	1.17
31:g:4:ASN:HA	31:g:7:VAL:HB	1.20	1.17
28:d:18:ILE:HG23	28:d:58:LEU:HD13	1.21	1.17
9:I:3210:U:H3	9:I:3238:A:N6	1.42	1.16
11:K:243:PRO:HD2	11:K:252:LYS:HE3	1.23	1.16
9:I:1563:A:H2'	9:I:1564:A:C8	1.80	1.16
9:I:2970:U:O4	9:I:3009:A:N7	1.78	1.16
9:I:3348:A:H2'	9:I:3349:U:H5'	1.25	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3435:C:H41	9:I:3459:C:H1'	1.02	1.16
21:W:3:MET:HG2	21:W:44:VAL:HG21	1.25	1.16
9:I:4239:C:H1'	15:O:138:GLN:HE21	1.09	1.16
10:J:77:A:H62	10:J:97:G:N2	1.44	1.16
12:L:5:VAL:HG22	12:L:203:VAL:H	1.10	1.15
17:S:78:ARG:HB3	39:o:70:GLU:HB3	1.20	1.15
17:S:110:GLU:HA	17:S:113:MET:HB2	1.23	1.15
49:y:9:THR:HG22	49:y:55:LYS:HE3	1.18	1.15
9:I:3822:A:H2'	9:I:3823:U:C6	1.80	1.15
9:I:4026:G:H2'	9:I:4027:U:H5'	1.19	1.15
9:I:1366:C:H5''	28:d:113:VAL:HG23	1.20	1.15
41:q:29:THR:HB	41:q:65:ALA:HA	1.21	1.15
4:D:68:LYS:HG2	9:I:252:A:H3'	1.20	1.15
9:I:2913:A:H5'	9:I:3073:A:H61	1.05	1.15
2:B:10:ILE:HD12	2:B:30:LEU:HD23	1.29	1.15
9:I:827:U:H3'	9:I:828:G:H5''	1.23	1.15
13:M:6:LYS:HE2	13:M:120:VAL:HG22	1.28	1.14
23:Y:10:LEU:HD13	23:Y:62:ARG:HG2	1.16	1.14
46:v:37:ALA:CB	46:v:49:LEU:HD22	1.77	1.14
4:D:37:ARG:HG3	9:I:279:C:H2'	1.16	1.14
9:I:4162:G:H1'	15:O:109:SER:HB2	1.30	1.14
44:t:66:VAL:HA	44:t:69:VAL:HG22	1.19	1.14
9:I:4174:U:O2'	12:L:11:MET:SD	2.06	1.14
10:J:24:U:H2'	10:J:25:C:H5'	1.23	1.14
41:q:63:VAL:HG13	41:q:96:VAL:HG12	1.25	1.14
9:I:677:U:H1'	9:I:776:A:H4'	1.22	1.14
15:O:151:ARG:HB3	15:O:161:VAL:HG23	1.14	1.14
9:I:1059:U:H5'	29:e:49:ILE:HG12	1.25	1.13
9:I:3809:G:H1'	14:N:124:ARG:HG2	1.27	1.13
13:M:1:MET:HE3	13:M:14:VAL:HG23	1.22	1.13
19:U:43:ALA:O	19:U:46:ILE:N	1.81	1.13
45:u:4:ILE:HD11	45:u:50:MET:HB2	1.19	1.13
9:I:3218:G:N2	9:I:3230:U:O2	1.82	1.13
9:I:36:U:H5''	31:g:120:ARG:HD3	1.25	1.13
9:I:4245:G:H4'	15:O:3:VAL:HG23	1.20	1.13
10:J:33:A:H5''	10:J:34:C:H5'	1.22	1.13
37:m:22:VAL:HG12	37:m:37:GLN:HB3	1.14	1.12
44:t:45:GLN:HB2	44:t:58:VAL:HG23	1.29	1.12
3:C:63:GLN:N	9:I:226:G:C6	2.18	1.12
9:I:947:C:H5'	9:I:1305:A:H4'	1.13	1.12
9:I:3783:G:O6	9:I:3837:U:O2	1.66	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4022:U:O2	9:I:4029:G:O6	1.67	1.12
40:p:50:ARG:HA	40:p:53:LYS:HD2	1.13	1.12
9:I:4250:U:H1'	9:I:4251:A:H5''	1.20	1.12
17:S:23:LYS:O	17:S:40:LYS:N	1.80	1.12
40:p:59:LEU:O	40:p:63:ARG:N	1.82	1.12
40:p:73:ILE:HD12	40:p:113:LYS:HG3	1.20	1.12
48:x:55:LEU:HB3	48:x:59:LYS:HE3	1.29	1.12
9:I:665:G:H5'	9:I:725:C:H1'	1.20	1.12
9:I:2633:G:H5'	16:R:25:LEU:HG	1.17	1.12
19:U:26:VAL:HG12	19:U:101:VAL:HG11	1.22	1.12
23:Y:98:ASP:HB3	23:Y:132:ALA:HB1	1.19	1.12
9:I:3783:G:O2'	9:I:3877:G:O2'	1.67	1.12
28:d:16:VAL:HA	28:d:62:ILE:HG22	1.16	1.12
31:g:32:VAL:HG22	31:g:78:VAL:HG22	1.20	1.12
5:E:46:LEU:HD21	25:a:86:ARG:HB2	1.13	1.11
9:I:2489:C:H1'	40:p:92:LYS:HD3	1.28	1.11
9:I:3293:G:H4'	9:I:3294:C:H5'	1.31	1.11
9:I:4176:A:H1'	12:L:23:PRO:HB3	1.30	1.11
12:L:11:MET:SD	12:L:192:ALA:HB1	1.90	1.11
12:L:110:THR:HB	12:L:202:ILE:HB	1.32	1.11
17:S:113:MET:HG2	17:S:116:ILE:HD11	1.23	1.11
3:C:63:GLN:CA	9:I:226:G:C6	2.32	1.11
5:E:38:ARG:HA	9:I:734:C:H4'	1.29	1.11
9:I:4173:A:O2'	12:L:192:ALA:O	1.67	1.11
10:J:103:A:H2'	10:J:104:G:H5'	1.16	1.11
12:L:65:ALA:O	12:L:69:ALA:N	1.80	1.11
13:M:120:VAL:HA	13:M:188:MET:HG3	1.31	1.11
9:I:1660:A:N7	9:I:1666:U:O2	1.83	1.11
9:I:1778:A:H2'	9:I:1862:A:H1'	1.32	1.11
13:M:105:LEU:HB2	13:M:200:LEU:HD11	1.22	1.11
15:O:67:ALA:HA	15:O:70:LEU:HB2	1.24	1.11
15:O:150:TYR:HB2	15:O:161:VAL:HG11	1.27	1.11
16:R:32:LEU:HD21	16:R:142:ILE:HG21	1.31	1.11
40:p:85:ALA:HB1	40:p:111:LYS:CG	1.78	1.11
45:u:17:SER:O	45:u:21:ARG:N	1.82	1.11
9:I:4201:U:H4'	20:V:64:ARG:HD3	1.31	1.11
38:n:69:ALA:HB1	38:n:73:VAL:HG23	1.22	1.11
9:I:2835:G:O3'	43:s:59:ASN:HB3	1.50	1.11
10:J:76:U:C2	10:J:98:A:C8	2.32	1.11
48:x:10:VAL:HG22	48:x:56:LEU:HD22	1.25	1.11
9:I:3009:A:O2'	9:I:3050:C:O2	1.68	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3061:G:OP2	11:K:82:TYR:OH	1.67	1.10
14:N:151:LEU:HG	14:N:153:ILE:HD11	1.32	1.10
9:I:2357:G:H1	9:I:2414:A:N6	1.47	1.10
9:I:3078:U:H2'	9:I:3079:C:H5'	1.31	1.10
9:I:3781:A:N7	9:I:3840:A:N6	1.98	1.10
9:I:4233:U:H3	9:I:4258:A:N6	1.48	1.10
12:L:48:ILE:CG1	12:L:82:PHE:HB2	1.79	1.10
16:R:16:TYR:O	16:R:55:ILE:N	1.84	1.10
17:S:23:LYS:HB2	17:S:40:LYS:HB3	1.18	1.10
9:I:3158:A:O2'	17:S:78:ARG:NH2	1.82	1.10
9:I:3814:U:H4'	9:I:3815:U:H5''	1.18	1.10
9:I:4161:C:H1'	15:O:108:PHE:CD1	1.85	1.10
11:K:175:LEU:HD11	11:K:181:ARG:HG2	1.26	1.10
12:L:33:ARG:HG3	12:L:95:SER:HA	1.26	1.10
12:L:61:THR:O	12:L:65:ALA:N	1.82	1.10
13:M:5:LEU:HD21	13:M:121:VAL:HA	1.12	1.10
13:M:102:ARG:HA	13:M:200:LEU:HD22	1.29	1.10
13:M:129:PRO:HB2	13:M:159:LEU:HB2	1.32	1.10
14:N:93:GLU:HA	14:N:96:TRP:HB2	1.26	1.10
16:R:36:LEU:HG	16:R:54:ILE:HD12	1.14	1.10
48:x:1:LYS:HE2	48:x:5:LEU:HD21	1.31	1.10
5:E:22:PRO:HA	9:I:718:C:H4'	1.23	1.10
9:I:777:G:H2'	9:I:778:C:H1'	1.30	1.10
9:I:2618:G:H1'	37:m:37:GLN:HG2	1.23	1.10
13:M:88:ARG:HD3	13:M:89:PRO:HD2	1.33	1.10
20:V:44:LEU:O	20:V:48:VAL:N	1.84	1.10
45:u:64:VAL:HG13	45:u:67:GLY:HA2	1.23	1.10
48:x:37:GLN:HG2	48:x:38:GLN:HG3	1.33	1.10
9:I:1560:G:H4'	48:x:46:ARG:HH22	1.08	1.10
9:I:1810:A:H5''	44:t:18:LYS:HE3	1.30	1.10
11:K:146:LYS:HB2	11:K:149:LYS:HB2	1.22	1.10
32:h:38:ILE:HG13	32:h:55:LEU:HD21	1.31	1.10
40:p:87:VAL:HG13	41:q:49:ILE:HG13	1.34	1.10
46:v:15:ARG:HG2	46:v:21:VAL:HG11	1.33	1.10
4:D:66:LYS:HA	9:I:265:G:H2'	1.34	1.09
9:I:1060:G:H5'	29:e:57:ALA:HB2	1.21	1.09
9:I:1561:C:H5'	48:x:42:LEU:HD22	1.32	1.09
9:I:1809:A:H4'	44:t:16:LYS:HA	1.28	1.09
9:I:2319:A:N6	9:I:2682:U:H3	1.50	1.09
9:I:4228:A:H2'	9:I:4229:G:H5'	1.28	1.09
12:L:123:LYS:HD2	12:L:124:ARG:HH12	1.10	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:33:ILE:HG12	14:N:155:ILE:HG12	1.32	1.09
17:S:22:ILE:HG12	17:S:41:ILE:HA	1.34	1.09
19:U:43:ALA:HA	19:U:46:ILE:HB	1.30	1.09
20:V:22:ARG:HG3	20:V:70:THR:H	1.14	1.09
39:o:54:LEU:HD12	39:o:76:HIS:HB3	1.29	1.09
8:H:43:GLU:HA	8:H:46:ARG:HB2	1.29	1.09
43:s:42:GLU:O	43:s:46:ALA:N	1.86	1.09
48:x:1:LYS:HD3	48:x:48:ASP:HA	1.14	1.09
9:I:1297:U:H4'	9:I:1298:A:H5''	1.31	1.09
9:I:2283:A:C2	9:I:2285:G:H1'	1.87	1.09
9:I:3819:G:H2'	9:I:3820:C:H5'	1.19	1.09
9:I:3828:U:H4'	38:n:12:ARG:HH11	1.10	1.09
9:I:3845:G:N2	9:I:3860:A:N7	2.00	1.09
9:I:3972:A:H5'	37:m:32:LYS:HE2	1.34	1.09
10:J:76:U:C4	10:J:98:A:C8	2.39	1.09
13:M:149:ILE:HB	13:M:188:MET:HA	1.14	1.09
9:I:1660:A:N7	9:I:1666:U:C2	2.21	1.09
9:I:3797:G:N2	14:N:154:THR:OG1	1.86	1.09
19:U:45:GLN:O	19:U:49:ALA:N	1.85	1.09
21:W:97:MET:HA	21:W:104:VAL:HG21	1.34	1.09
28:d:3:TYR:HB2	28:d:18:ILE:HB	1.26	1.09
49:y:28:LEU:HA	49:y:35:VAL:HG21	1.33	1.09
9:I:633:C:H2'	9:I:634:A:H8	1.03	1.09
9:I:3076:C:H3'	9:I:3077:A:H5''	1.34	1.09
9:I:3839:G:H4'	9:I:3840:A:H5''	1.16	1.09
9:I:3869:G:N2	9:I:3872:A:N7	2.00	1.09
13:M:123:LYS:HA	13:M:189:THR:HG23	1.33	1.09
15:O:16:VAL:HG22	15:O:25:ILE:HA	1.27	1.09
37:m:24:ARG:HA	37:m:36:ARG:HA	1.24	1.09
40:p:64:ILE:O	40:p:68:ALA:N	1.86	1.09
5:E:35:GLN:HA	5:E:38:ARG:HD2	1.34	1.08
9:I:3009:A:O2'	9:I:3050:C:H2'	1.50	1.08
9:I:3347:A:H3'	9:I:3382:G:N2	1.68	1.08
12:L:114:LYS:HD3	12:L:196:ALA:HA	1.10	1.08
13:M:108:ILE:HD13	13:M:177:PRO:HB3	1.27	1.08
43:s:6:ARG:HH12	43:s:38:ALA:HA	1.14	1.08
4:D:68:LYS:HB3	9:I:253:G:H5''	1.13	1.08
9:I:2789:C:H5''	20:V:71:ARG:HD3	1.33	1.08
10:J:13:U:H5'	10:J:69:C:H1'	1.32	1.08
12:L:7:LYS:HE2	12:L:198:GLY:HA2	1.33	1.08
12:L:62:LYS:O	12:L:66:GLY:N	1.86	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:66:ILE:HG21	14:N:83:PRO:HB3	1.33	1.08
15:O:158:GLY:HA2	15:O:168:VAL:HG11	1.34	1.08
17:S:21:CYS:HA	17:S:41:ILE:HG22	1.16	1.08
46:v:28:VAL:HG22	46:v:49:LEU:HB2	1.16	1.08
3:C:62:GLY:C	9:I:226:G:N1	2.10	1.08
10:J:41:C:H4'	14:N:63:LYS:HD2	1.35	1.08
13:M:196:VAL:HA	13:M:199:MET:HB2	1.27	1.08
15:O:36:LEU:HD11	15:O:40:VAL:HG11	1.31	1.08
20:V:13:ASN:O	20:V:17:ARG:N	1.86	1.08
24:Z:65:VAL:HG21	24:Z:135:LEU:HB3	1.33	1.08
39:o:96:LEU:HB3	39:o:99:LEU:HG	1.31	1.08
6:F:16:LYS:HD3	6:F:29:LEU:HD23	1.31	1.08
9:I:2995:G:H2'	9:I:2996:A:H8	1.16	1.08
9:I:4142:G:N2	9:I:4166:U:O2	1.87	1.08
12:L:12:THR:HB	39:o:4:ILE:HD13	1.32	1.08
20:V:10:LEU:HB2	20:V:12:ARG:HD3	1.31	1.08
20:V:43:GLU:O	20:V:47:VAL:N	1.84	1.08
37:m:27:CYS:CB	37:m:33:HIS:HB2	1.84	1.08
49:y:23:LEU:HG	49:y:26:LEU:HD12	1.33	1.08
9:I:1836:C:H5''	44:t:3:LYS:HD2	1.12	1.08
9:I:3044:C:OP1	9:I:3233:A:N6	1.86	1.08
9:I:3827:A:H3'	46:v:65:LYS:HZ1	1.09	1.08
10:J:76:U:O2	10:J:98:A:C5	2.06	1.08
11:K:4:LYS:HE2	11:K:14:HIS:HA	1.15	1.08
11:K:154:ALA:HB1	11:K:159:THR:HB	1.31	1.08
12:L:121:THR:HB	12:L:162:ALA:CB	1.83	1.08
38:n:25:LEU:HD23	38:n:89:VAL:HG21	1.35	1.08
4:D:31:TYR:HB3	31:g:7:VAL:HA	1.29	1.07
9:I:1856:G:H2'	9:I:1857:C:O4'	1.54	1.07
9:I:3978:G:H1'	19:U:123:LYS:HD2	1.11	1.07
9:I:4325:G:H5''	9:I:4328:G:H4'	1.32	1.07
10:J:55:G:N3	10:J:57:A:N6	2.01	1.07
12:L:66:GLY:HA2	12:L:69:ALA:HB3	1.30	1.07
14:N:163:GLU:O	14:N:167:ALA:N	1.85	1.07
16:R:40:HIS:HB2	40:p:70:GLN:HE22	1.18	1.07
32:h:47:LEU:HB3	32:h:52:ILE:HD11	1.33	1.07
46:v:30:GLN:OE1	46:v:35:PHE:N	1.86	1.07
46:v:37:ALA:HB2	46:v:49:LEU:CD2	1.84	1.07
47:w:53:LYS:HE2	47:w:57:VAL:HG11	1.36	1.07
9:I:322:U:H3	9:I:326:A:N6	1.51	1.07
9:I:3347:A:H3'	9:I:3382:G:H22	0.96	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3755:C:O2'	9:I:3821:A:N1	1.83	1.07
13:M:119:ILE:HG21	13:M:187:VAL:HG22	1.25	1.07
17:S:15:GLY:HA3	17:S:47:ILE:HG12	1.37	1.07
9:I:3210:U:O4	9:I:3238:A:N7	1.87	1.07
9:I:4222:U:H5''	17:S:70:ARG:HH12	1.12	1.07
9:I:1901:A:H2'	9:I:1902:A:C2	1.89	1.07
9:I:2749:U:H5''	9:I:2750:G:H5''	1.12	1.07
9:I:3594:G:O2'	9:I:3595:A:O5'	1.73	1.07
9:I:3788:G:H4'	10:J:45:A:C6	1.89	1.07
9:I:3880:A:H5''	46:v:45:ARG:HH21	1.14	1.07
10:J:99:G:H2'	10:J:100:A:O4'	1.54	1.07
12:L:113:SER:HA	12:L:195:GLY:CA	1.82	1.07
18:T:96:LYS:HD3	18:T:103:ILE:HD12	1.31	1.07
40:p:73:ILE:HB	40:p:113:LYS:HE3	1.23	1.07
40:p:85:ALA:CB	40:p:111:LYS:HG3	1.83	1.07
1:A:80:ARG:HD2	9:I:972:G:H2'	1.35	1.07
3:C:32:PHE:N	9:I:310:C:OP1	1.88	1.07
9:I:1159:G:H1	9:I:1175:A:N6	1.52	1.07
9:I:2401:G:O2'	9:I:2402:C:H5'	1.54	1.07
9:I:3783:G:O6	9:I:3837:U:N3	1.87	1.07
9:I:4009:C:O2	9:I:4064:G:N2	1.86	1.07
9:I:4020:G:OP1	15:O:152:ARG:NH2	1.88	1.07
9:I:4174:U:H1'	12:L:192:ALA:HB3	1.35	1.07
9:I:4274:G:H3'	9:I:4275:A:H5'	1.34	1.07
12:L:26:VAL:HG21	39:o:4:ILE:HD11	1.27	1.07
12:L:40:LEU:HA	12:L:44:GLY:HA2	1.31	1.07
17:S:64:ARG:HE	17:S:83:ALA:HB3	1.17	1.07
30:f:12:HIS:HA	30:f:75:LYS:HD2	1.27	1.07
9:I:1487:U:H1'	9:I:4303:A:H61	1.09	1.06
9:I:1664:C:H3'	9:I:1665:A:H8	1.17	1.06
10:J:74:G:H5'	45:u:29:ILE:HD12	1.33	1.06
12:L:109:VAL:HG21	12:L:193:VAL:HG12	1.37	1.06
18:T:76:GLU:HA	18:T:109:LYS:H	1.18	1.06
23:Y:9:LYS:HG2	23:Y:37:PRO:HG3	1.33	1.06
26:b:92:PRO:HA	26:b:95:ARG:HB3	1.33	1.06
9:I:1847:A:H2'	9:I:1848:A:C4	1.90	1.06
9:I:2544:A:H61	9:I:2603:C:H1'	1.14	1.06
9:I:3780:G:H5'	34:j:27:LYS:HE3	1.38	1.06
9:I:3809:G:C1'	14:N:124:ARG:HG2	1.85	1.06
9:I:3965:A:H3'	9:I:3966:G:H8	1.14	1.06
9:I:4156:A:H3'	9:I:4157:G:C8	1.89	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4225:G:O3'	12:L:208:LYS:NZ	1.88	1.06
12:L:48:ILE:HG23	12:L:84:LEU:HD21	1.35	1.06
25:a:7:VAL:HB	25:a:61:LEU:HD13	1.29	1.06
45:u:4:ILE:HG22	45:u:42:LEU:HD22	1.31	1.06
5:E:19:LYS:HD2	30:f:104:ILE:HB	1.38	1.06
9:I:67:G:H1'	9:I:150:A:H61	1.18	1.06
9:I:1837:C:H5''	44:t:1:ALA:CB	1.84	1.06
9:I:2328:U:H4'	9:I:2331:G:H22	1.20	1.06
9:I:3268:C:H2'	9:I:3269:U:H5'	1.32	1.06
9:I:3429:G:H3'	9:I:3456:5MC:HN41	1.14	1.06
12:L:14:ILE:HB	12:L:22:ILE:HB	1.38	1.06
40:p:63:ARG:O	40:p:67:ALA:N	1.86	1.06
9:I:666:G:H2'	9:I:667:G:C8	1.90	1.06
9:I:2136:G:H3'	18:T:128:THR:HB	1.06	1.06
9:I:2367:C:H2'	9:I:2368:U:C6	1.91	1.06
9:I:2619:G:H3'	9:I:2620:A:H2'	1.35	1.06
9:I:3061:G:O6	11:K:25:LYS:HD3	1.56	1.06
9:I:3585:C:H3'	9:I:3586:U:H2'	1.08	1.06
9:I:3812:G:O2'	9:I:3815:U:O4	1.74	1.06
10:J:79:U:O4	45:u:14:LYS:NZ	1.89	1.06
12:L:1:MET:HE1	12:L:104:VAL:HB	1.37	1.06
12:L:121:THR:HB	12:L:162:ALA:HB2	1.07	1.06
16:R:119:PHE:HA	16:R:122:LEU:HD13	1.35	1.06
20:V:40:LYS:O	20:V:44:LEU:N	1.88	1.06
37:m:22:VAL:CG1	37:m:37:GLN:HB3	1.84	1.06
38:n:2:LYS:HZ2	38:n:3:LYS:HD3	1.14	1.06
1:A:4:SER:HA	9:I:1215:A:C8	1.90	1.06
9:I:414:A:N6	9:I:427:G:O6	1.87	1.06
9:I:1590:U:H3'	9:I:1591:A:H2'	1.10	1.06
9:I:3016:A:H5''	9:I:3017:U:C2'	1.85	1.06
9:I:3347:A:H1'	9:I:3728:G:H4'	1.31	1.06
10:J:76:U:H2'	10:J:77:A:O4'	1.55	1.06
14:N:93:GLU:O	14:N:97:GLU:N	1.89	1.06
15:O:25:ILE:HG22	15:O:78:VAL:HG11	1.31	1.06
18:T:96:LYS:HD3	18:T:103:ILE:HA	1.37	1.06
19:U:45:GLN:HA	19:U:48:ALA:HB3	1.36	1.06
23:Y:12:ARG:HG2	23:Y:33:ILE:HA	1.38	1.06
37:m:1:MET:HB3	37:m:34:LYS:HD2	1.37	1.06
2:B:14:PHE:HB3	2:B:25:GLU:HB3	1.38	1.05
4:D:14:MET:HA	9:I:273:A:O4'	1.53	1.05
9:I:1630:C:H2'	9:I:1631:A:H4'	1.32	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2400:U:H2'	9:I:2401:G:O4'	1.56	1.05
9:I:3785:U:N3	9:I:3835:G:N1	2.00	1.05
13:M:122:GLU:HA	13:M:190:ALA:HB2	1.38	1.05
20:V:12:ARG:HG3	20:V:17:ARG:HG2	1.06	1.05
43:s:44:LYS:HE2	43:s:58:VAL:HG23	1.07	1.05
14:N:107:VAL:HG13	14:N:110:ILE:HD12	1.37	1.05
18:T:92:LEU:HD22	18:T:106:GLU:HG2	1.38	1.05
26:b:77:ARG:HB3	26:b:84:TYR:HB2	1.38	1.05
38:n:38:VAL:HG11	38:n:86:ILE:HG21	1.29	1.05
39:o:48:ALA:O	39:o:59:THR:OG1	1.74	1.05
39:o:64:SER:HB2	39:o:68:GLY:HA2	1.33	1.05
8:H:1:PRO:HG2	30:f:101:VAL:HA	1.33	1.05
9:I:336:G:H2'	9:I:337:A:H8	1.19	1.05
9:I:780:A:C8	9:I:800:U:N3	2.24	1.05
9:I:1126:G:N2	9:I:1147:U:O4	1.88	1.05
9:I:3488:C:H2'	9:I:3489:U:C5	1.92	1.05
9:I:1044:C:H3'	9:I:1045:A:H5''	1.36	1.05
9:I:1059:U:H4'	29:e:49:ILE:HG23	1.34	1.05
9:I:1479:A:N7	9:I:4328:G:N2	2.03	1.05
9:I:1797:G:N2	9:I:1841:C:O2	1.90	1.05
9:I:2361:A:H3'	9:I:2362:G:H8	1.22	1.05
9:I:2633:G:C5'	16:R:25:LEU:HG	1.87	1.05
9:I:2964:A:H3'	9:I:2965:G:H8	1.19	1.05
9:I:4245:G:H5'	15:O:2:ARG:HB2	1.36	1.05
17:S:42:THR:O	17:S:44:LYS:NZ	1.89	1.05
18:T:90:VAL:HG11	18:T:95:LEU:HG	1.37	1.05
28:d:96:ARG:HD2	28:d:101:VAL:HG21	1.08	1.05
3:C:6:LEU:HG	3:C:19:VAL:HG22	1.38	1.05
3:C:9:HIS:HB3	9:I:308:A:H5''	1.08	1.05
9:I:841:U:H3'	9:I:842:U:H5''	1.38	1.05
9:I:1766:G:H3'	9:I:1767:C:H5''	1.38	1.05
9:I:3677:A:H2'	9:I:3678:A:C8	1.91	1.05
9:I:4182:G:H3'	9:I:4213:G:H1	1.21	1.05
17:S:78:ARG:N	39:o:70:GLU:O	1.90	1.05
18:T:90:VAL:HA	18:T:94:THR:HB	1.34	1.05
21:W:129:LYS:HE3	21:W:133:MET:HB2	1.33	1.05
43:s:30:ILE:HG13	43:s:87:LEU:HD11	1.35	1.05
46:v:27:ILE:HG22	46:v:28:VAL:HG13	1.38	1.05
1:A:4:SER:H	9:I:1215:A:P	1.78	1.04
9:I:2113:A:H3'	9:I:2114:A:H5'	1.37	1.04
9:I:3336:G:N1	9:I:3392:U:C2	2.25	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:102:ILE:HB	15:O:114:HIS:HB3	1.38	1.04
9:I:1378:G:N2	9:I:1380:U:O4	1.89	1.04
12:L:68:PHE:O	12:L:72:GLY:N	1.90	1.04
12:L:84:LEU:HD13	12:L:89:GLU:HA	1.07	1.04
19:U:119:LEU:O	19:U:123:LYS:N	1.88	1.04
4:D:13:LYS:HB3	9:I:273:A:H4'	1.09	1.04
4:D:22:ILE:HG13	4:D:41:LEU:HD12	1.34	1.04
9:I:1676:A:O2'	9:I:1677:G:O4'	1.75	1.04
9:I:2214:U:H1'	9:I:2217:C:H5	1.21	1.04
9:I:2578:A:O2'	9:I:2579:A:O5'	1.75	1.04
9:I:2916:G:O6	9:I:3070:U:O2	1.76	1.04
11:K:15:VAL:HA	11:K:205:GLY:HA3	1.36	1.04
12:L:85:ALA:H	12:L:88:GLU:HB3	1.22	1.04
20:V:60:VAL:HA	20:V:63:ARG:HD2	1.38	1.04
23:Y:18:LEU:HD13	23:Y:62:ARG:HB3	1.38	1.04
43:s:29:THR:HA	43:s:87:LEU:HG	1.05	1.04
46:v:25:SER:O	46:v:51:ALA:N	1.91	1.04
9:I:312:A:H2'	9:I:313:C:C6	1.92	1.04
9:I:1235:A:O2'	9:I:1333:G:N2	1.90	1.04
9:I:1717:A:H3'	9:I:1718:A:H8	1.23	1.04
9:I:2352:U:H5'	49:y:42:ALA:HA	1.39	1.04
9:I:4050:C:H2'	9:I:4051:G:H5'	1.37	1.04
11:K:174:ARG:HA	11:K:179:GLU:O	1.58	1.04
17:S:64:ARG:HD3	17:S:102:PRO:HG2	1.39	1.04
39:o:17:PRO:HG3	39:o:83:ILE:HB	1.36	1.04
49:y:44:ARG:NH1	49:y:48:ASN:OD1	1.89	1.04
3:C:6:LEU:HD22	9:I:375:G:H5''	1.35	1.04
9:I:556:G:H2'	9:I:557:G:O4'	1.58	1.04
9:I:696:U:H1'	9:I:784:G:H21	1.23	1.04
9:I:1082:U:H3'	9:I:1083:G:C8	1.93	1.04
9:I:2662:G:H2'	9:I:2663:A:H8	1.16	1.04
11:K:2:VAL:HG21	11:K:201:LEU:HB2	1.37	1.04
46:v:26:ILE:HA	46:v:50:PHE:HB2	1.34	1.04
9:I:973:A:H5''	9:I:974:A:H3'	1.39	1.03
9:I:2357:G:H5''	46:v:59:PHE:HB3	1.40	1.03
9:I:3828:U:O2'	9:I:3829:A:O4'	1.76	1.03
17:S:18:ARG:HG2	17:S:44:LYS:HB2	1.36	1.03
40:p:60:TRP:O	40:p:64:ILE:N	1.89	1.03
6:F:9:ILE:HG23	6:F:36:SER:HB3	1.40	1.03
12:L:109:VAL:HG11	12:L:193:VAL:HB	1.38	1.03
20:V:32:GLU:HG3	20:V:120:GLU:OE2	1.57	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:r:55:ILE:HG23	42:r:66:ILE:HG13	1.38	1.03
9:I:1123:G:O2'	9:I:1126:G:O6	1.76	1.03
9:I:1235:A:HO2'	9:I:1333:G:N2	1.56	1.03
9:I:1347:U:H4'	28:d:119:ARG:HD2	1.37	1.03
15:O:3:VAL:HG13	15:O:68:ARG:HE	1.18	1.03
15:O:18:ILE:HD12	15:O:23:ILE:HA	1.38	1.03
22:X:152:VAL:HG12	22:X:197:VAL:HG22	1.41	1.03
38:n:19:GLU:HG2	46:v:39:ALA:HA	1.40	1.03
3:C:62:GLY:C	9:I:226:G:C4	2.37	1.03
9:I:1595:A:H3'	9:I:1596:C:H5''	1.40	1.03
9:I:1907:G:H2'	9:I:1908:G:C8	1.93	1.03
9:I:2762:A:H1'	9:I:3507:A:H61	1.21	1.03
9:I:3078:U:H3'	9:I:3079:C:H6	1.20	1.03
9:I:3309:A:C4'	9:I:3311:G:H1'	1.89	1.03
9:I:3806:U:H2'	9:I:3807:C:H6	1.21	1.03
9:I:4182:G:N1	9:I:4214:U:OP2	1.90	1.03
6:F:27:LYS:HG3	6:F:28:PRO:HD2	1.39	1.03
9:I:338:C:H2'	9:I:339:U:H6	1.20	1.03
9:I:2139:U:H2'	9:I:2140:C:C6	1.93	1.03
9:I:2522:A:H2'	9:I:2523:A:C8	1.93	1.03
9:I:2909:U:N3	9:I:3081:G:N1	2.07	1.03
10:J:33:A:H5''	10:J:34:C:C5'	1.88	1.03
10:J:113:C:H2'	10:J:114:A:H8	1.24	1.03
28:d:91:LEU:HB3	28:d:95:LEU:HD13	1.41	1.03
4:D:13:LYS:HB3	9:I:273:A:C4'	1.89	1.02
9:I:2537:C:O2	9:I:2606:G:N1	1.92	1.02
9:I:3895:U:C4	9:I:3909:G:O6	2.11	1.02
9:I:4315:A:O3'	12:L:167:ASN:ND2	1.92	1.02
12:L:1:MET:HE2	12:L:205:PRO:HG3	1.37	1.02
13:M:5:LEU:HD22	13:M:7:ASP:OD1	1.59	1.02
15:O:53:PRO:HD3	15:O:61:TRP:CE2	1.94	1.02
18:T:112:LEU:HB2	18:T:131:ALA:HB2	1.40	1.02
31:g:66:ILE:HG12	31:g:96:THR:HG21	1.37	1.02
32:h:94:LEU:HD12	32:h:101:THR:HG21	1.37	1.02
40:p:62:ALA:O	40:p:66:ALA:N	1.91	1.02
42:r:66:ILE:HG23	42:r:69:LEU:HD12	1.07	1.02
45:u:72:VAL:HG12	45:u:93:ARG:HA	1.37	1.02
9:I:2328:U:H4'	9:I:2331:G:N2	1.74	1.02
9:I:2975:U:H2'	9:I:3004:G:H22	1.19	1.02
9:I:3398:G:H2'	9:I:3399:C:H5'	1.38	1.02
11:K:129:LEU:HD21	11:K:134:ILE:CD1	1.89	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:166:ARG:HA	11:K:171:VAL:HG12	1.36	1.02
3:C:62:GLY:C	9:I:226:G:C6	2.37	1.02
9:I:342:U:O2'	9:I:345:G:O6	1.77	1.02
9:I:690:G:O6	30:f:41:ARG:NH2	1.92	1.02
9:I:1804:U:N3	9:I:1813:G:N1	2.06	1.02
9:I:3677:A:H2'	9:I:3678:A:H8	1.19	1.02
9:I:3692:A:H1'	9:I:3693:A:H5'	1.41	1.02
10:J:14:A:O2'	10:J:15:G:H5'	1.60	1.02
38:n:6:ARG:CG	38:n:95:GLY:HA3	1.89	1.02
44:t:37:GLY:H	44:t:61:GLU:HG2	1.17	1.02
46:v:15:ARG:HB3	46:v:57:VAL:HG21	1.40	1.02
49:y:19:HIS:HA	49:y:22:THR:HB	1.38	1.02
3:C:60:TRP:HE3	3:C:65:ALA:HB2	1.22	1.02
9:I:2136:G:H3'	18:T:128:THR:CB	1.90	1.02
9:I:2498:U:H2'	9:I:2505:G:H2'	1.37	1.02
9:I:2536:G:N2	9:I:2607:U:O2	1.92	1.02
9:I:3061:G:C6	11:K:25:LYS:HA	1.95	1.02
10:J:33:A:C5'	10:J:34:C:H5'	1.90	1.02
11:K:3:VAL:N	11:K:17:LYS:O	1.92	1.02
11:K:174:ARG:NH1	11:K:178:GLY:O	1.93	1.02
12:L:52:THR:O	12:L:77:ARG:N	1.92	1.02
20:V:38:LEU:HG	20:V:42:LYS:HG2	1.37	1.02
32:h:76:ILE:HG22	32:h:80:MET:HE1	1.42	1.02
39:o:91:VAL:HG21	39:o:96:LEU:HD11	1.41	1.02
47:w:69:GLU:HA	47:w:72:ALA:CB	1.90	1.02
3:C:2:VAL:HG22	3:C:21:VAL:HG12	1.39	1.02
9:I:2645:A:H2'	9:I:2646:C:C6	1.95	1.02
9:I:2951:U:O2	9:I:4196:G:O6	1.75	1.02
9:I:3217:G:H3'	9:I:3218:G:H8	1.21	1.02
9:I:3595:A:H2'	9:I:3596:G:C8	1.94	1.02
9:I:4173:A:H4'	12:L:194:PRO:HG3	1.36	1.02
12:L:34:VAL:HG21	12:L:90:PHE:CD1	1.93	1.02
17:S:24:VAL:HA	17:S:39:ILE:HG22	1.38	1.02
19:U:111:GLU:HA	19:U:114:ARG:HH21	1.25	1.02
19:U:120:ALA:O	19:U:124:LEU:N	1.93	1.02
20:V:112:TYR:HB3	20:V:114:GLU:OE2	1.59	1.02
28:d:85:MET:HE2	28:d:92:ARG:HG2	1.42	1.02
47:w:69:GLU:HA	47:w:72:ALA:HB3	1.05	1.02
3:C:52:LEU:HD21	3:C:74:LEU:HD13	1.36	1.01
9:I:2523:A:H61	37:m:5:ALA:HB1	1.20	1.01
9:I:2976:G:O2'	9:I:3003:A:N1	1.93	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4243:A:H5''	15:O:1:SER:HB3	1.41	1.01
11:K:144:GLU:CG	11:K:188:ARG:HG2	1.90	1.01
18:T:90:VAL:HA	18:T:94:THR:CB	1.90	1.01
37:m:27:CYS:HB2	37:m:33:HIS:CB	1.90	1.01
39:o:25:VAL:N	39:o:44:GLY:O	1.91	1.01
9:I:2036:G:OP1	40:p:52:ARG:NH2	1.92	1.01
9:I:2357:G:O3'	46:v:68:LYS:NZ	1.90	1.01
9:I:3827:A:H4'	9:I:3828:U:H2'	1.42	1.01
11:K:182:LYS:HB2	11:K:265:PHE:HB3	1.42	1.01
12:L:51:THR:HA	12:L:78:GLY:O	1.57	1.01
25:a:32:ALA:HB2	25:a:70:VAL:HG11	1.42	1.01
9:I:1477:U:H2'	9:I:1478:A:C8	1.96	1.01
9:I:3016:A:C5'	9:I:3017:U:H2'	1.90	1.01
9:I:3201:G:N1	9:I:3245:U:C2	2.27	1.01
9:I:3822:A:H2'	9:I:3823:U:H6	1.20	1.01
10:J:77:A:N6	10:J:97:G:H21	1.58	1.01
11:K:4:LYS:HE2	11:K:14:HIS:CA	1.91	1.01
11:K:15:VAL:HG22	11:K:205:GLY:C	1.84	1.01
14:N:164:GLU:O	14:N:168:LEU:N	1.93	1.01
20:V:19:ALA:O	20:V:22:ARG:N	1.93	1.01
45:u:11:GLU:HB3	45:u:16:ALA:HB1	1.02	1.01
1:A:12:ARG:HD3	1:A:58:ARG:HG2	1.38	1.01
4:D:9:VAL:HG11	4:D:52:ILE:HA	1.40	1.01
9:I:3313:A:H3'	11:K:176:ARG:HG3	1.43	1.01
9:I:3773:G:N2	9:I:3821:A:N3	2.06	1.01
9:I:3830:A:N6	46:v:33:THR:OG1	1.93	1.01
10:J:42:C:H4'	14:N:94:ARG:HD3	1.43	1.01
16:R:23:LYS:HE2	16:R:28:LEU:HD13	1.41	1.01
17:S:58:LEU:HD11	17:S:86:LEU:HB3	1.41	1.01
18:T:74:THR:HA	18:T:107:PHE:HB2	1.42	1.01
18:T:85:VAL:HG12	18:T:100:ILE:HD13	1.41	1.01
30:f:20:VAL:HG21	30:f:84:THR:HG21	1.40	1.01
38:n:74:GLY:HA3	38:n:108:ALA:HB3	1.42	1.01
9:I:3011:G:N2	9:I:3226:C:OP2	1.92	1.01
9:I:3593:U:O2	9:I:3684:G:N2	1.92	1.01
9:I:3809:G:H1'	14:N:124:ARG:CG	1.91	1.01
9:I:4237:U:H3'	9:I:4249:C:H41	1.24	1.01
14:N:35:LEU:HA	14:N:153:ILE:HG23	1.38	1.01
19:U:119:LEU:HD11	19:U:123:LYS:HE2	1.37	1.01
25:a:69:GLU:O	25:a:73:GLU:N	1.94	1.01
31:g:87:LYS:HG3	31:g:88:D2T:H7	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:77:LYS:HB3	40:p:116:LEU:HD21	1.42	1.01
42:r:59:GLU:HA	42:r:64:ALA:H	1.23	1.01
42:r:90:LYS:O	42:r:92:ARG:NH1	1.93	1.01
43:s:20:ALA:HA	43:s:23:ALA:HB3	1.42	1.01
3:C:63:GLN:CA	9:I:226:G:N1	2.23	1.00
9:I:1465:G:N2	9:I:4186:G:O3'	1.92	1.00
9:I:3294:C:H2'	11:K:145:MET:HE1	1.43	1.00
9:I:3587:G:N7	9:I:3719:A:H2'	1.75	1.00
9:I:4279:C:H2'	9:I:4280:U:H6	1.21	1.00
15:O:122:ALA:HB2	15:O:133:LYS:H	1.25	1.00
17:S:1:MET:HG3	17:S:67:LYS:HG3	1.43	1.00
17:S:17:ARG:N	17:S:45:GLU:OE2	1.94	1.00
17:S:63:VAL:HB	17:S:103:VAL:HA	1.02	1.00
20:V:45:ARG:O	20:V:49:GLU:N	1.94	1.00
38:n:26:VAL:HG22	38:n:92:ASP:HB3	1.41	1.00
39:o:47:ILE:HA	39:o:96:LEU:HB2	1.41	1.00
39:o:71:ARG:HG2	39:o:73:PHE:CZ	1.96	1.00
47:w:50:VAL:HG22	47:w:54:GLY:HA3	1.43	1.00
1:A:4:SER:HA	9:I:1215:A:H8	1.19	1.00
6:F:64:MET:HE1	6:F:67:HIS:HB2	1.43	1.00
9:I:175:C:H3'	9:I:176:G:H21	1.24	1.00
9:I:466:U:H3'	9:I:467:A:H5''	1.43	1.00
9:I:1159:G:N1	9:I:1175:A:N6	2.09	1.00
9:I:2626:U:H3'	9:I:2627:A:H5''	1.42	1.00
9:I:3602:A:H5''	9:I:3644:C:H4'	1.42	1.00
9:I:4326:U:H3'	9:I:4327:U:C6	1.96	1.00
11:K:129:LEU:HD21	11:K:134:ILE:HD11	1.00	1.00
26:b:133:ALA:HA	26:b:136:LYS:HE2	1.43	1.00
38:n:17:LEU:HB2	38:n:41:PRO:HB3	1.43	1.00
38:n:69:ALA:O	38:n:73:VAL:N	1.95	1.00
4:D:14:MET:C	9:I:272:U:H3'	1.86	1.00
9:I:322:U:O4	9:I:326:A:N7	1.95	1.00
9:I:633:C:H2'	9:I:634:A:C8	1.95	1.00
9:I:691:U:H5'	9:I:796:C:H5'	1.44	1.00
9:I:752:A:H4'	9:I:753:C:H5''	1.39	1.00
9:I:1827:G:N2	9:I:1835:C:O2	1.94	1.00
9:I:1829:G:OP2	44:t:65:GLN:NE2	1.94	1.00
9:I:2370:U:O2'	9:I:2371:U:H5'	1.61	1.00
9:I:3600:U:H2'	9:I:3601:G:H8	1.27	1.00
9:I:3913:U:H5''	34:j:19:THR:HB	1.44	1.00
9:I:4186:G:H1'	9:I:4341:U:O2'	1.62	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4252:A:C2	15:O:70:LEU:HD21	1.97	1.00
9:I:4334:C:H1'	20:V:91:ALA:HB1	1.39	1.00
10:J:15:G:N2	10:J:67:C:O2	1.93	1.00
10:J:69:C:N3	10:J:106:G:N2	2.08	1.00
11:K:4:LYS:CE	11:K:14:HIS:HA	1.92	1.00
13:M:17:THR:HA	13:M:21:ARG:CG	1.91	1.00
13:M:172:ALA:HA	13:M:175:ILE:HG23	1.41	1.00
23:Y:117:VAL:HG11	23:Y:132:ALA:HA	1.44	1.00
26:b:140:VAL:HA	26:b:143:MET:HE3	1.44	1.00
38:n:6:ARG:HG3	38:n:95:GLY:HA3	1.01	1.00
39:o:25:VAL:CG2	39:o:60:VAL:HA	1.90	1.00
1:A:4:SER:N	9:I:1215:A:O5'	1.93	1.00
9:I:631:U:H3'	9:I:632:G:H5'	1.43	1.00
9:I:3234:G:H2'	9:I:3235:C:C6	1.96	1.00
9:I:4176:A:O2'	12:L:13:ARG:HD3	1.59	1.00
12:L:110:THR:OG1	12:L:171:THR:HA	1.60	1.00
14:N:43:ILE:HD13	14:N:78:ILE:HG22	1.41	1.00
16:R:18:VAL:HB	16:R:56:VAL:HA	1.41	1.00
9:I:2832:G:O2'	43:s:18:GLU:OE2	1.80	1.00
9:I:3015:G:H5''	9:I:3017:U:C5	1.95	1.00
9:I:3160:G:O5'	17:S:7:MET:HE1	1.60	1.00
13:M:102:ARG:O	13:M:200:LEU:HD13	1.61	1.00
17:S:68:GLY:HA3	17:S:78:ARG:HA	1.00	1.00
18:T:76:GLU:HB2	18:T:111:ILE:HD11	1.39	1.00
39:o:25:VAL:HG21	39:o:59:THR:O	1.59	1.00
9:I:2858:G:H5''	47:w:1:SER:HA	1.44	1.00
9:I:3215:G:H2'	9:I:3232:G:H22	1.24	1.00
17:S:92:GLU:O	17:S:93:GLN:HG3	1.61	1.00
24:Z:95:GLY:HA3	24:Z:113:ASN:HA	1.40	1.00
9:I:2666:C:H2'	9:I:2667:U:O4'	1.61	1.00
9:I:3594:G:H2'	9:I:3595:A:C8	1.96	1.00
11:K:77:VAL:HG11	11:K:91:ALA:HB1	1.44	1.00
3:C:62:GLY:O	9:I:226:G:N1	1.94	0.99
9:I:186:G:N2	9:I:189:A:OP2	1.95	0.99
9:I:588:U:O2	9:I:649:G:O6	1.79	0.99
9:I:1664:C:H3'	9:I:1665:A:C8	1.95	0.99
9:I:3914:C:H5''	34:j:5:LYS:NZ	1.75	0.99
21:W:69:THR:HG23	21:W:91:HIS:HA	1.44	0.99
9:I:826:U:H2'	9:I:869:U:H3	1.26	0.99
9:I:1808:G:H2'	9:I:1809:A:C4	1.96	0.99
9:I:1845:A:O3'	9:I:1847:A:N6	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2499:C:OP2	9:I:2505:G:O2'	1.77	0.99
9:I:3680:G:H2'	9:I:3681:U:C6	1.96	0.99
9:I:3846:A:N6	9:I:3859:G:N2	2.10	0.99
9:I:3968:U:H3'	9:I:3969:C:C5	1.96	0.99
11:K:118:GLY:N	11:K:121:ALA:HB2	1.77	0.99
17:S:68:GLY:CA	17:S:78:ARG:HA	1.91	0.99
1:A:52:ARG:HH11	9:I:1218:A:H4'	1.27	0.99
4:D:13:LYS:HA	9:I:273:A:OP1	1.62	0.99
9:I:1038:G:O2'	9:I:1039:U:O4'	1.79	0.99
16:R:15:TRP:C	16:R:137:PRO:HB3	1.87	0.99
23:Y:53:GLN:HG2	23:Y:198:LEU:HD11	1.41	0.99
40:p:64:ILE:HG13	40:p:95:ALA:HB2	1.45	0.99
42:r:52:GLU:HA	42:r:55:ILE:HD12	1.45	0.99
1:A:62:ARG:HG2	9:I:980:U:H4'	1.44	0.99
9:I:780:A:H3'	9:I:781:A:H8	1.24	0.99
9:I:3294:C:H4'	9:I:3296:A:H5'	1.43	0.99
9:I:3585:C:C3'	9:I:3586:U:H2'	1.91	0.99
12:L:24:VAL:HG21	12:L:188:LEU:HB3	1.43	0.99
27:c:42:GLU:HG3	27:c:100:ILE:HD13	1.44	0.99
44:t:13:LEU:HD12	44:t:68:ASN:HA	1.43	0.99
9:I:412:G:H1'	9:I:427:G:H21	1.27	0.99
9:I:1005:G:H1	9:I:1022:U:H3	1.04	0.99
9:I:3312:U:O2'	11:K:152:GLN:O	1.78	0.99
17:S:11:ALA:HB2	17:S:64:ARG:HH22	1.25	0.99
21:W:184:VAL:HG13	21:W:188:SER:HB2	1.45	0.99
37:m:23:ILE:O	37:m:37:GLN:N	1.93	0.99
45:u:11:GLU:HB3	45:u:16:ALA:CB	1.92	0.99
46:v:10:ARG:O	46:v:29:ARG:NH2	1.94	0.99
10:J:11:C:H2'	46:v:64:PRO:HA	1.43	0.99
12:L:50:VAL:CG2	12:L:80:TRP:HB2	1.92	0.99
13:M:196:VAL:HG13	13:M:199:MET:HB3	1.43	0.99
15:O:8:VAL:HG21	15:O:71:LEU:HD22	1.44	0.99
9:I:1639:U:O2'	9:I:1641:G:N2	1.94	0.99
9:I:2909:U:C2	9:I:3081:G:N1	2.29	0.99
9:I:2962:U:O2	9:I:3018:G:N2	1.95	0.99
9:I:4211:C:H1'	39:o:93:LYS:CD	1.92	0.99
40:p:53:LYS:HA	40:p:57:ARG:NH2	1.76	0.99
9:I:735:C:H4'	25:a:90:MET:HE1	1.45	0.99
9:I:2936:U:H2'	9:I:2937:U:C6	1.97	0.99
9:I:3293:G:O2'	11:K:179:GLU:OE2	1.81	0.99
9:I:3488:C:H2'	9:I:3489:U:H5	1.25	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3809:G:H2'	9:I:3810:G:H8	1.24	0.99
12:L:109:VAL:HB	12:L:172:VAL:HB	1.43	0.99
30:f:35:ALA:HA	30:f:54:ALA:HB2	1.42	0.99
4:D:13:LYS:CB	9:I:273:A:H4'	1.93	0.99
9:I:1675:G:O2'	9:I:1676:A:H5'	1.63	0.99
9:I:1779:A:OP2	9:I:1861:G:N2	1.96	0.99
9:I:2567:A:H4'	9:I:3968:U:H4'	1.44	0.99
9:I:3896:U:H1'	9:I:3898:U:C5	1.96	0.99
13:M:143:LEU:HD13	13:M:146:VAL:HG11	1.42	0.99
14:N:128:SER:HB2	14:N:154:THR:HG23	1.44	0.99
20:V:25:ALA:HB3	20:V:70:THR:HB	1.41	0.99
39:o:4:ILE:HG12	39:o:7:LEU:HD12	1.43	0.99
39:o:12:MET:HE1	39:o:53:GLY:HA2	1.44	0.99
9:I:1908:G:H2'	9:I:1909:G:C8	1.98	0.99
9:I:2050:C:C2'	9:I:2051:G:H5'	1.92	0.99
9:I:2146:U:H5''	9:I:2147:G:O4'	1.62	0.99
9:I:3351:G:O2'	9:I:3352:A:OP2	1.81	0.99
9:I:4225:G:OP1	12:L:106:LYS:NZ	1.94	0.99
11:K:4:LYS:HD2	11:K:5:CYS:H	1.26	0.99
20:V:10:LEU:CB	20:V:12:ARG:HD3	1.91	0.99
9:I:257:G:N2	9:I:267:U:O2	1.95	0.98
9:I:1002:G:H3'	9:I:1003:A:H5''	1.42	0.98
9:I:3792:A:N3	9:I:3815:U:H2'	1.78	0.98
9:I:3809:G:O4'	14:N:126:ASN:ND2	1.93	0.98
9:I:3819:G:H2'	9:I:3820:C:C5'	1.92	0.98
9:I:3967:U:OP1	9:I:3969:C:N4	1.95	0.98
12:L:114:LYS:CD	12:L:196:ALA:HA	1.93	0.98
13:M:18:THR:HA	13:M:106:LYS:O	1.62	0.98
15:O:155:PRO:HB2	15:O:171:LYS:HE2	1.42	0.98
27:c:93:LYS:HB2	27:c:97:GLY:HA2	1.44	0.98
9:I:493:G:H2'	9:I:495:A:H1'	1.45	0.98
9:I:2212:G:N2	9:I:2220:U:H1'	1.78	0.98
9:I:3417:U:H2'	9:I:3418:C:C6	1.98	0.98
11:K:129:LEU:CD2	11:K:134:ILE:HD11	1.93	0.98
16:R:23:LYS:HG3	16:R:28:LEU:HD22	1.45	0.98
17:S:111:LYS:HA	17:S:111:LYS:HE3	1.43	0.98
38:n:6:ARG:HG3	38:n:95:GLY:CA	1.92	0.98
9:I:2050:C:H2'	9:I:2051:G:H5'	1.41	0.98
11:K:202:ARG:NH1	11:K:203:VAL:O	1.95	0.98
13:M:143:LEU:HB3	13:M:146:VAL:HG21	1.44	0.98
15:O:84:LYS:HG2	15:O:140:ILE:HD12	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:9:GLU:HG3	1:A:62:ARG:HG3	1.42	0.98
7:G:71:ALA:HA	7:G:74:LYS:HE3	1.44	0.98
9:I:701:A:H61	9:I:3340:G:H21	1.03	0.98
9:I:3336:G:N1	9:I:3392:U:N3	2.12	0.98
9:I:4177:C:H4'	39:o:74:GLN:OE1	1.62	0.98
11:K:250:GLN:NE2	11:K:254:LYS:HB2	1.79	0.98
16:R:115:GLY:HA2	16:R:118:MET:HE3	1.43	0.98
27:c:26:MET:HG2	27:c:27:PRO:HD2	1.41	0.98
37:m:2:LYS:HG3	37:m:35:GLN:HB2	1.43	0.98
38:n:89:VAL:HG13	38:n:114:LEU:HD11	1.45	0.98
46:v:9:LYS:HD2	46:v:11:LEU:HD11	1.45	0.98
1:A:5:MET:N	9:I:1215:A:O5'	1.94	0.98
9:I:336:G:H2'	9:I:337:A:C8	1.98	0.98
9:I:2371:U:H2'	9:I:2372:U:C6	1.99	0.98
9:I:2936:U:H2'	9:I:2937:U:H6	1.26	0.98
9:I:3691:U:O3'	9:I:3692:A:H2'	1.64	0.98
9:I:3817:G:H2'	9:I:3818:U:H5'	1.43	0.98
10:J:48:C:OP1	38:n:101:ARG:NE	1.95	0.98
20:V:38:LEU:O	20:V:42:LYS:N	1.95	0.98
41:q:2:TYR:HB2	41:q:13:ARG:HD3	1.42	0.98
3:C:4:ILE:HD11	3:C:65:ALA:HB1	1.44	0.98
9:I:1810:A:C5'	44:t:18:LYS:HE3	1.93	0.98
9:I:3286:G:OP1	11:K:204:LEU:N	1.95	0.98
9:I:3693:A:H2'	9:I:3694:C:O4'	1.62	0.98
9:I:3806:U:OP2	14:N:71:LYS:NZ	1.97	0.98
9:I:4142:G:H2'	9:I:4143:C:O4'	1.64	0.98
10:J:76:U:C2	10:J:98:A:C5	2.52	0.98
25:a:70:VAL:HA	25:a:73:GLU:HG2	1.44	0.98
4:D:13:LYS:HE3	9:I:273:A:H5'	1.43	0.98
9:I:617:C:O2	9:I:621:A:N6	1.96	0.98
9:I:1345:A:N7	9:I:1374:A:N6	2.11	0.98
9:I:2545:G:H4'	9:I:4246:C:H1'	1.45	0.98
9:I:3195:A:H3'	9:I:3196:G:H8	1.25	0.98
9:I:3348:A:C2'	9:I:3349:U:H5'	1.94	0.98
15:O:8:VAL:HG11	15:O:75:VAL:HG21	1.43	0.98
15:O:102:ILE:HD11	15:O:116:LEU:HD12	1.42	0.98
39:o:54:LEU:HD12	39:o:76:HIS:CB	1.94	0.98
42:r:68:ASP:HB2	42:r:109:ASP:HB2	1.43	0.98
9:I:780:A:H5''	9:I:799:G:H22	1.28	0.98
9:I:1054:A:H1'	22:X:155:ARG:HH21	1.26	0.98
10:J:32:G:N2	10:J:48:C:O2	1.95	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:35:C:OP2	10:J:36:C:N4	1.97	0.98
11:K:144:GLU:HG3	11:K:188:ARG:HG2	1.02	0.98
12:L:34:VAL:HG21	12:L:90:PHE:HD1	1.21	0.98
13:M:98:LYS:HB3	13:M:102:ARG:HH12	1.28	0.98
17:S:18:ARG:HG3	17:S:44:LYS:HE2	1.45	0.98
4:D:15:GLU:H	9:I:273:A:C5'	1.74	0.98
9:I:675:A:N1	9:I:713:G:O6	1.96	0.98
9:I:3804:C:H2'	14:N:76:PHE:HE2	1.24	0.98
13:M:17:THR:HG21	13:M:106:LYS:HE3	1.46	0.98
17:S:18:ARG:CG	17:S:44:LYS:HB2	1.94	0.98
20:V:115:LEU:HD23	20:V:117:ASP:H	1.27	0.98
33:i:42:ILE:HA	33:i:48:TYR:HB2	1.43	0.98
40:p:79:ILE:HA	40:p:82:LEU:HD12	1.46	0.98
44:t:39:ASN:HB3	44:t:62:ALA:H	1.29	0.98
1:A:3:GLN:N	9:I:1214:G:O3'	1.97	0.98
9:I:2213:G:N2	9:I:2218:A:N7	2.11	0.98
9:I:2364:G:O2'	9:I:2365:C:O4'	1.80	0.98
9:I:3286:G:N2	9:I:3321:U:O2	1.95	0.98
9:I:3313:A:H3'	11:K:176:ARG:CG	1.94	0.98
9:I:4094:A:N6	11:K:235:GLU:OE2	1.97	0.98
12:L:24:VAL:HB	12:L:189:VAL:N	1.77	0.98
35:k:1:MET:HG3	35:k:2:LYS:H	1.26	0.98
43:s:44:LYS:CE	43:s:58:VAL:HG23	1.94	0.98
9:I:704:G:H22	30:f:32:TRP:HB2	1.26	0.97
9:I:1476:C:H2'	9:I:1477:U:C6	1.98	0.97
9:I:1563:A:N1	9:I:1591:A:N6	2.12	0.97
9:I:1660:A:N7	9:I:1666:U:N3	2.12	0.97
9:I:2964:A:N6	9:I:3015:G:O2'	1.96	0.97
15:O:102:ILE:N	15:O:114:HIS:O	1.96	0.97
38:n:81:ALA:O	38:n:85:GLY:N	1.95	0.97
44:t:80:ASP:HB2	44:t:95:PHE:HB3	1.43	0.97
46:v:26:ILE:HA	46:v:50:PHE:HB3	1.45	0.97
9:I:780:A:N7	9:I:800:U:O2	1.96	0.97
9:I:825:C:H1'	27:c:15:ASN:HD22	1.26	0.97
9:I:1096:C:H4'	21:W:136:ARG:HH21	1.29	0.97
9:I:1796:U:H4'	44:t:86:PHE:CE1	1.99	0.97
9:I:1980:A:O2'	44:t:42:LYS:O	1.82	0.97
9:I:2719:G:O2'	9:I:2720:A:O4'	1.83	0.97
9:I:2973:G:H2'	9:I:2974:C:C6	1.99	0.97
42:r:59:GLU:HA	42:r:64:ALA:N	1.78	0.97
9:I:2930:G:H21	9:I:3009:A:H1'	1.28	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:120:ILE:HG13	15:O:143:VAL:HG21	1.45	0.97
17:S:63:VAL:CB	17:S:103:VAL:HA	1.94	0.97
18:T:77:ILE:N	18:T:109:LYS:O	1.97	0.97
38:n:14:ARG:O	38:n:17:LEU:HG	1.63	0.97
40:p:67:ALA:O	40:p:71:ASN:ND2	1.96	0.97
40:p:73:ILE:HD12	40:p:113:LYS:CG	1.94	0.97
47:w:33:HIS:HB3	47:w:55:MET:HE1	1.45	0.97
9:I:349:G:O2'	9:I:350:G:O4'	1.83	0.97
9:I:1530:G:H2'	9:I:1531:C:H6	1.26	0.97
9:I:2364:G:H2'	9:I:2365:C:H6	1.30	0.97
9:I:2404:A:H2'	9:I:2405:A:C8	1.98	0.97
9:I:3391:G:O2'	9:I:3392:U:H5'	1.63	0.97
17:S:80:ASP:OD2	39:o:68:GLY:N	1.96	0.97
37:m:6:SER:O	37:m:35:GLN:NE2	1.97	0.97
39:o:48:ALA:HA	39:o:95:LYS:HD3	1.46	0.97
40:p:43:GLN:HE21	41:q:77:PHE:HB3	1.29	0.97
40:p:72:GLY:O	40:p:113:LYS:NZ	1.96	0.97
5:E:23:SER:N	9:I:718:C:O2'	1.98	0.97
9:I:1635:U:O2	9:I:1644:A:N6	1.97	0.97
9:I:2662:G:H2'	9:I:2663:A:C8	1.99	0.97
9:I:3756:U:H5'	46:v:31:ARG:HH12	1.26	0.97
10:J:42:C:H4'	14:N:94:ARG:CD	1.93	0.97
12:L:50:VAL:HG23	12:L:80:TRP:HE3	1.29	0.97
17:S:24:VAL:HA	17:S:39:ILE:CG2	1.94	0.97
38:n:55:LYS:HA	38:n:58:ALA:HB3	1.43	0.97
1:A:8:ARG:NH1	9:I:982:A:OP1	1.98	0.97
9:I:1912:A:H3'	9:I:1913:C:H6	1.27	0.97
9:I:2274:G:H5''	11:K:47:ARG:HH22	1.26	0.97
9:I:3435:C:N4	9:I:3459:C:H1'	1.79	0.97
9:I:3817:G:C2'	9:I:3831:G:H4'	1.95	0.97
9:I:3960:C:OP1	37:m:4:ARG:NH1	1.96	0.97
9:I:4140:C:H2'	9:I:4141:U:O4'	1.63	0.97
9:I:4229:G:N1	9:I:4263:U:N3	2.10	0.97
9:I:4246:C:H3'	9:I:4247:A:C8	2.00	0.97
11:K:2:VAL:HG22	11:K:18:VAL:HA	1.45	0.97
27:c:11:THR:O	27:c:15:ASN:N	1.96	0.97
30:f:22:ILE:HG13	30:f:62:VAL:HG11	1.46	0.97
41:q:5:PHE:O	41:q:12:HIS:N	1.95	0.97
9:I:1829:G:OP2	44:t:68:ASN:ND2	1.97	0.97
9:I:2677:U:H2'	9:I:2678:U:C6	1.99	0.97
9:I:3314:U:H3	11:K:197:ALA:HA	1.28	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3880:A:H2'	9:I:3881:U:C6	1.99	0.97
11:K:143:VAL:HB	11:K:153:LEU:HB2	1.43	0.97
14:N:35:LEU:O	14:N:87:LYS:HE3	1.63	0.97
43:s:29:THR:CA	43:s:87:LEU:HG	1.95	0.97
44:t:24:VAL:HA	44:t:34:ILE:O	1.63	0.97
3:C:60:TRP:O	9:I:226:G:N2	1.98	0.97
4:D:68:LYS:HE3	9:I:252:A:H2'	1.47	0.97
9:I:3293:G:H4'	9:I:3294:C:C5'	1.94	0.97
9:I:3785:U:O4	9:I:3835:G:O6	1.81	0.97
9:I:4023:G:H4'	15:O:174:LYS:HA	1.47	0.97
9:I:4242:A:H3'	9:I:4247:A:H62	1.27	0.97
11:K:63:ILE:HD13	11:K:101:ARG:NH1	1.79	0.97
37:m:25:VAL:HB	37:m:35:GLN:HB3	1.47	0.97
9:I:1466:C:O2'	9:I:4186:G:OP1	1.81	0.97
9:I:3016:A:H5''	9:I:3017:U:H2'	0.99	0.97
9:I:139:U:O2	9:I:182:C:N4	1.98	0.97
9:I:2545:G:H4'	9:I:4246:C:C1'	1.94	0.97
12:L:34:VAL:HG22	12:L:50:VAL:CG1	1.95	0.97
13:M:133:LEU:O	13:M:137:LYS:NZ	1.97	0.97
17:S:2:ILE:HD11	17:S:65:THR:HG22	1.46	0.97
21:W:105:ARG:HD3	21:W:151:MET:HE2	1.47	0.97
29:e:23:GLU:HA	29:e:26:LYS:HE3	1.43	0.97
43:s:15:HIS:NE2	43:s:33:LYS:HD3	1.79	0.97
1:A:97:LYS:HD3	22:X:4:VAL:HG23	1.43	0.96
8:H:45:LYS:HA	8:H:48:LYS:HB2	1.47	0.96
9:I:766:A:H4'	9:I:4429:G:H4'	1.44	0.96
9:I:780:A:N7	9:I:800:U:C2	2.32	0.96
9:I:2214:U:H1'	9:I:2217:C:C5	2.00	0.96
9:I:2537:C:H1'	9:I:2606:G:H22	1.30	0.96
49:y:8:GLN:HG2	49:y:31:ILE:HG22	1.47	0.96
9:I:1303:G:N2	9:I:1333:G:O6	1.98	0.96
9:I:2214:U:H2'	9:I:2216:A:N7	1.80	0.96
9:I:2910:G:O2'	9:I:2911:C:O5'	1.82	0.96
9:I:2995:G:H2'	9:I:2996:A:C8	2.00	0.96
9:I:4242:A:H4'	15:O:3:VAL:HG11	1.44	0.96
11:K:139:THR:HB	11:K:160:TYR:HB2	1.46	0.96
25:a:45:ARG:N	25:a:57:ALA:O	1.97	0.96
41:q:5:PHE:N	41:q:12:HIS:O	1.98	0.96
49:y:47:ILE:O	49:y:51:SER:N	1.97	0.96
9:I:1578:U:O2	9:I:1608:G:O6	1.82	0.96
9:I:1812:G:H3'	9:I:1813:G:H8	1.31	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2203:U:H3	9:I:2228:G:H1	1.13	0.96
9:I:2542:A:H2'	9:I:2607:U:H1'	1.45	0.96
9:I:2762:A:H1'	9:I:3507:A:N6	1.79	0.96
9:I:2909:U:C4	9:I:3081:G:O6	2.18	0.96
9:I:3783:G:C6	9:I:3837:U:O2	2.18	0.96
9:I:4242:A:H3'	9:I:4247:A:N6	1.79	0.96
48:x:55:LEU:O	48:x:59:LYS:N	1.96	0.96
3:C:63:GLN:CA	9:I:226:G:C5	2.47	0.96
9:I:447:A:H3'	9:I:448:G:C8	1.98	0.96
9:I:963:A:H5'	29:e:52:HIS:HE1	1.28	0.96
9:I:1788:U:H2'	9:I:1789:G:O4'	1.65	0.96
9:I:2832:G:H2'	9:I:2833:G:C8	2.00	0.96
9:I:3778:A:O2'	9:I:3779:C:H5'	1.65	0.96
9:I:4022:U:OP2	9:I:4024:A:N6	1.98	0.96
23:Y:144:ILE:HD13	23:Y:177:MET:HB3	1.46	0.96
9:I:715:A:H2'	9:I:716:U:C6	2.00	0.96
9:I:971:C:H1'	29:e:53:VAL:HG23	1.48	0.96
9:I:2372:U:H2'	9:I:2373:C:H6	1.30	0.96
9:I:2657:G:OP1	41:q:24:LYS:NZ	1.97	0.96
9:I:2837:G:H1'	9:I:3091:A:N3	1.80	0.96
12:L:36:GLN:HA	12:L:92:VAL:HG22	1.44	0.96
13:M:98:LYS:HB3	13:M:102:ARG:NH1	1.81	0.96
15:O:132:LEU:HD22	15:O:143:VAL:HG12	1.47	0.96
17:S:61:VAL:HB	17:S:87:LEU:HD11	1.47	0.96
18:T:79:LEU:HA	18:T:82:LEU:CD2	1.96	0.96
19:U:118:LYS:O	19:U:122:ALA:N	1.98	0.96
3:C:9:HIS:HB3	9:I:308:A:C5'	1.93	0.96
9:I:147:G:N2	9:I:173:A:N1	2.14	0.96
9:I:1682:A:H2'	9:I:1683:C:H6	1.30	0.96
9:I:2051:G:H2'	9:I:2052:U:C6	2.01	0.96
9:I:2909:U:N3	9:I:3081:G:C6	2.34	0.96
10:J:73:U:O2	45:u:29:ILE:HD13	1.65	0.96
12:L:62:LYS:HA	12:L:65:ALA:HB3	1.47	0.96
12:L:63:PRO:O	12:L:67:HIS:N	1.98	0.96
15:O:86:LEU:HA	15:O:163:TYR:HA	1.45	0.96
17:S:5:GLN:HA	17:S:20:MET:SD	2.05	0.96
18:T:62:PRO:HD3	36:l:26:ALA:HB2	1.44	0.96
9:I:1474:U:N3	9:I:4333:G:N1	2.13	0.96
9:I:3489:U:O2'	17:S:31:ARG:NH1	1.97	0.96
12:L:172:VAL:HG12	12:L:175:LEU:HD11	1.46	0.96
13:M:5:LEU:HD21	13:M:121:VAL:CA	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:6:LYS:HG2	13:M:120:VAL:H	1.30	0.96
17:S:31:ARG:HG3	17:S:32:TYR:H	1.30	0.96
37:m:25:VAL:O	37:m:36:ARG:NH1	1.98	0.96
44:t:66:VAL:CA	44:t:69:VAL:HG22	1.95	0.96
45:u:18:ARG:HB2	45:u:21:ARG:HH11	1.30	0.96
9:I:1497:C:C5'	9:I:1500:U:H4'	1.96	0.96
9:I:2447:G:H5'	19:U:16:ARG:CZ	1.96	0.96
9:I:2450:G:OP2	19:U:86:LYS:NZ	1.99	0.96
9:I:3774:G:H4'	9:I:3821:A:C5'	1.96	0.96
9:I:4129:A:H5''	12:L:79:LEU:HB2	1.47	0.96
10:J:113:C:O2'	10:J:114:A:H5'	1.65	0.96
12:L:84:LEU:HD22	12:L:88:GLU:HG2	1.47	0.96
14:N:124:ARG:HD2	14:N:160:LYS:HD2	1.45	0.96
17:S:76:VAL:O	39:o:71:ARG:HA	1.66	0.96
32:h:58:GLU:HA	32:h:61:LYS:HD3	1.48	0.96
5:E:20:ILE:HB	9:I:717:A:C2	1.99	0.96
9:I:1235:A:H2'	9:I:1236:C:C6	2.00	0.96
9:I:1915:A:H2'	9:I:1916:U:H6	1.31	0.96
9:I:2203:U:H3'	9:I:2204:G:C8	2.01	0.96
9:I:3868:C:H2'	9:I:3869:G:C8	2.00	0.96
9:I:3893:G:H2'	9:I:3894:G:H5'	1.47	0.96
9:I:3912:A:O5'	34:j:16:HIS:NE2	1.99	0.96
9:I:4021:C:OP2	15:O:152:ARG:NH1	1.98	0.96
9:I:4162:G:C1'	15:O:109:SER:HB2	1.96	0.96
11:K:23:LEU:CD2	11:K:80:LEU:HB2	1.96	0.96
11:K:107:LYS:HD3	11:K:195:GLY:CA	1.94	0.96
11:K:154:ALA:HB2	11:K:176:ARG:HB2	1.48	0.96
44:t:3:LYS:O	44:t:93:ARG:NH1	1.97	0.96
47:w:69:GLU:O	47:w:73:ARG:N	1.98	0.96
9:I:2991:U:C5	9:I:3072:U:H4'	2.01	0.96
9:I:4244:A:P	15:O:1:SER:HB2	2.05	0.96
11:K:162:GLN:HE21	11:K:174:ARG:HG2	1.30	0.96
15:O:104:LEU:HB2	15:O:112:VAL:HB	1.45	0.96
17:S:78:ARG:O	39:o:70:GLU:N	1.98	0.96
32:h:74:MET:HA	32:h:77:LYS:HB2	1.44	0.96
44:t:49:PRO:O	44:t:53:GLN:NE2	1.99	0.96
9:I:674:A:H2'	9:I:675:A:O4'	1.66	0.95
9:I:1247:A:N1	9:I:1288:A:N6	2.13	0.95
9:I:3870:A:C2	38:n:106:ALA:HB1	2.01	0.95
9:I:4055:U:O3'	17:S:40:LYS:NZ	1.99	0.95
13:M:58:LYS:HE2	13:M:71:GLY:HA2	1.46	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:S:73:ASP:HB3	39:o:79:VAL:HB	1.48	0.95
29:e:5:ARG:HB3	29:e:95:GLN:HB2	1.47	0.95
46:v:18:GLY:C	46:v:56:LYS:HD2	1.91	0.95
5:E:47:SER:HB2	25:a:51:ILE:HG23	1.44	0.95
9:I:632:G:H2'	9:I:633:C:C6	1.99	0.95
9:I:1631:A:N6	9:I:1648:U:O4	1.98	0.95
9:I:3007:U:H2'	9:I:3008:G:C4	2.00	0.95
12:L:113:SER:HA	12:L:195:GLY:HA2	0.97	0.95
18:T:127:VAL:HG11	18:T:135:ILE:HD12	1.48	0.95
28:d:52:VAL:HG21	28:d:84:LEU:HD23	1.47	0.95
8:H:45:LYS:NZ	9:I:4432:U:O4	1.99	0.95
9:I:598:C:H4'	27:c:87:ARG:HA	1.45	0.95
9:I:2117:G:H5'	13:M:199:MET:HE1	1.45	0.95
9:I:3406:A:N7	9:I:3411:PSU:N3	2.15	0.95
15:O:88:LEU:HD22	15:O:161:VAL:HG22	1.48	0.95
20:V:12:ARG:HG3	20:V:17:ARG:CG	1.96	0.95
23:Y:56:GLU:HG2	23:Y:195:ASN:HB2	1.48	0.95
26:b:77:ARG:HG3	26:b:79:VAL:HG23	1.45	0.95
34:j:5:LYS:HA	34:j:21:THR:HG22	1.47	0.95
9:I:1077:U:H2'	9:I:1078:G:N3	1.81	0.95
9:I:2350:U:N3	9:I:2421:A:N1	2.14	0.95
9:I:2452:U:H2'	10:J:88:U:C2	2.02	0.95
9:I:3057:U:O2'	9:I:3058:C:H5'	1.67	0.95
9:I:4024:A:N1	15:O:155:PRO:HG3	1.80	0.95
10:J:8:G:O6	10:J:110:U:C2	2.19	0.95
13:M:1:MET:CE	13:M:14:VAL:HG23	1.96	0.95
17:S:21:CYS:HA	17:S:41:ILE:CG2	1.96	0.95
29:e:22:VAL:HG13	29:e:32:VAL:HG11	1.48	0.95
32:h:9:PRO:HB2	32:h:17:ALA:HA	1.45	0.95
46:v:28:VAL:CG2	46:v:49:LEU:HB2	1.96	0.95
5:E:7:ILE:HG12	25:a:45:ARG:HH22	1.30	0.95
8:H:38:GLU:HB3	30:f:111:PRO:HG2	1.44	0.95
9:I:563:C:H2'	9:I:564:U:O4'	1.66	0.95
9:I:597:U:H2'	9:I:598:C:C6	1.99	0.95
9:I:926:G:N2	9:I:1389:U:O2	2.00	0.95
9:I:1395:A:O2'	24:Z:20:ARG:NH2	2.00	0.95
9:I:4034:C:H4'	9:I:4235:A:H4'	1.45	0.95
9:I:4203:G:O2'	9:I:4204:C:H5'	1.66	0.95
15:O:72:ASN:HA	15:O:75:VAL:HB	1.46	0.95
9:I:676:U:H3	9:I:712:G:H22	1.05	0.95
9:I:2567:A:H4'	9:I:3968:U:C4'	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4008:U:H2'	9:I:4009:C:C6	2.00	0.95
10:J:73:U:O2'	45:u:37:PRO:HB2	1.66	0.95
11:K:64:VAL:HG21	11:K:86:ARG:HE	1.29	0.95
12:L:178:VAL:HG21	12:L:190:LYS:H	1.31	0.95
15:O:154:GLU:OE2	15:O:158:GLY:N	1.99	0.95
40:p:64:ILE:HA	40:p:67:ALA:HB3	1.45	0.95
41:q:41:ILE:HB	41:q:47:VAL:HG23	1.44	0.95
48:x:13:LEU:O	48:x:17:LEU:N	1.97	0.95
9:I:2019:U:O3'	42:r:25:ARG:NH2	1.98	0.95
9:I:2545:G:O6	9:I:2602:U:O2	1.83	0.95
9:I:3313:A:H4'	9:I:3315:A:C8	2.00	0.95
11:K:231:HIS:HA	11:K:241:LYS:HZ3	1.32	0.95
18:T:93:ASN:O	18:T:97:ALA:N	2.00	0.95
19:U:75:GLU:N	19:U:90:GLU:OE2	1.99	0.95
39:o:111:GLU:HG2	39:o:113:LEU:HB3	1.46	0.95
8:H:36:PHE:H	30:f:112:PRO:HB3	1.28	0.95
9:I:671:U:O2'	25:a:86:ARG:NH2	1.97	0.95
9:I:712:G:H2'	9:I:713:G:C8	2.02	0.95
9:I:880:G:OP2	31:g:8:ARG:NH1	2.00	0.95
9:I:1344:U:H4'	9:I:1345:A:H5'	1.48	0.95
9:I:1489:A:H2'	9:I:4284:U:O2	1.66	0.95
9:I:2543:C:O4'	9:I:2607:U:H4'	1.67	0.95
13:M:147:LEU:N	13:M:185:LYS:O	1.98	0.95
14:N:30:VAL:HA	14:N:168:LEU:HD21	1.48	0.95
16:R:41:LYS:NZ	16:R:50:THR:O	1.99	0.95
21:W:7:LEU:HD13	21:W:40:LEU:HD11	1.48	0.95
27:c:28:SER:HA	27:c:58:LEU:HD23	1.49	0.95
33:i:28:SER:OG	33:i:37:HIS:O	1.85	0.95
9:I:104:G:H2'	9:I:105:C:C6	2.02	0.95
9:I:949:U:H3	9:I:1230:G:H1	1.11	0.95
9:I:1358:C:O2'	9:I:1360:G:N7	2.00	0.95
9:I:1804:U:O2	9:I:1813:G:N2	2.00	0.95
9:I:1806:U:H2'	9:I:1807:G:C1'	1.96	0.95
9:I:1857:C:H2'	9:I:1858:U:H6	1.31	0.95
9:I:1982:A:OP1	44:t:46:LYS:NZ	2.00	0.95
9:I:3791:A:H61	9:I:3815:U:H5	1.11	0.95
9:I:4131:U:H5'	12:L:45:TYR:CZ	2.02	0.95
9:I:4174:U:C1'	12:L:192:ALA:HB3	1.94	0.95
10:J:13:U:H4'	10:J:68:G:H1	1.28	0.95
10:J:39:U:O2	10:J:44:A:N6	1.99	0.95
13:M:119:ILE:CG2	13:M:187:VAL:HG22	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Y:14:GLU:HG2	23:Y:62:ARG:HH11	1.31	0.95
3:C:9:HIS:CB	9:I:308:A:H5''	1.97	0.95
8:H:27:VAL:HG22	30:f:102:THR:HG22	1.48	0.95
9:I:1808:G:H4'	44:t:16:LYS:CE	1.95	0.95
9:I:1832:A:O2'	9:I:1833:G:O3'	1.85	0.95
9:I:2665:G:H2'	9:I:2666:C:C1'	1.95	0.95
9:I:3061:G:C6	11:K:25:LYS:HD3	2.00	0.95
9:I:3083:U:H2'	9:I:3084:A:C8	2.01	0.95
9:I:3508:A:OP2	42:r:95:ARG:NH2	1.99	0.95
9:I:4229:G:N2	9:I:4263:U:O2	1.99	0.95
12:L:121:THR:CB	12:L:162:ALA:HB2	1.96	0.95
12:L:151:THR:HG22	12:L:152:PRO:HD3	1.46	0.95
14:N:37:MET:HA	14:N:151:LEU:HA	1.48	0.95
27:c:6:ILE:HD13	27:c:32:LYS:HE3	1.49	0.95
44:t:3:LYS:HG2	44:t:82:VAL:HB	1.46	0.95
46:v:56:LYS:H	46:v:75:GLU:HB2	1.31	0.95
6:F:61:THR:HG22	6:F:63:GLU:H	1.32	0.94
9:I:3965:A:H3'	9:I:3966:G:C8	2.02	0.94
9:I:4027:U:O4	15:O:174:LYS:NZ	2.00	0.94
12:L:114:LYS:HD3	12:L:196:ALA:CA	1.96	0.94
40:p:63:ARG:HA	40:p:66:ALA:HB3	1.49	0.94
44:t:42:LYS:HA	44:t:58:VAL:O	1.67	0.94
3:C:24:SER:O	9:I:108:A:O2'	1.84	0.94
9:I:43:A:H2'	9:I:44:G:H8	1.31	0.94
9:I:612:C:OP1	23:Y:80:ARG:NH1	1.99	0.94
9:I:1497:C:OP1	9:I:1500:U:O2'	1.83	0.94
9:I:2038:A:H5''	16:R:7:LYS:NZ	1.82	0.94
9:I:2136:G:N7	18:T:109:LYS:NZ	2.14	0.94
9:I:4025:A:N1	9:I:4156:A:N6	2.13	0.94
19:U:4:PRO:HA	19:U:68:PHE:CE2	2.01	0.94
23:Y:53:GLN:HA	23:Y:198:LEU:HD21	1.46	0.94
29:e:5:ARG:HH22	29:e:38:LEU:HB2	1.31	0.94
30:f:55:ALA:HB3	30:f:87:ALA:HB3	1.49	0.94
2:B:74:VAL:HA	2:B:77:TYR:HB3	1.50	0.94
9:I:34:G:N3	31:g:114:SER:OG	2.00	0.94
9:I:1835:C:O2'	9:I:1836:C:O5'	1.84	0.94
9:I:1855:U:H2'	9:I:1856:G:H5'	1.47	0.94
9:I:3336:G:C6	9:I:3392:U:N3	2.35	0.94
9:I:4152:C:H3'	9:I:4153:G:C8	2.02	0.94
15:O:100:ASN:O	15:O:116:LEU:N	2.01	0.94
49:y:8:GLN:O	49:y:55:LYS:NZ	2.00	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3293:G:N7	11:K:177:SER:OG	1.98	0.94
9:I:3783:G:N3	9:I:3784:G:H1'	1.82	0.94
9:I:4252:A:H2	15:O:70:LEU:HD21	1.31	0.94
11:K:91:ALA:HB2	11:K:105:ALA:HB2	1.49	0.94
11:K:107:LYS:HD3	11:K:195:GLY:C	1.93	0.94
11:K:156:SER:O	11:K:194:VAL:HG11	1.67	0.94
14:N:62:GLN:NE2	14:N:89:THR:O	2.01	0.94
14:N:66:ILE:HD13	14:N:86:CYS:HB3	1.50	0.94
41:q:3:ALA:O	41:q:14:VAL:N	2.01	0.94
46:v:43:CYS:SG	46:v:47:HIS:ND1	2.40	0.94
9:I:2947:A:H62	20:V:74:GLU:HA	1.29	0.94
9:I:4201:U:H3'	9:I:4202:G:H8	1.32	0.94
11:K:243:PRO:HD2	11:K:252:LYS:CE	1.97	0.94
16:R:36:LEU:HG	16:R:54:ILE:CD1	1.96	0.94
18:T:110:VAL:HB	18:T:127:VAL:HG22	1.49	0.94
19:U:36:VAL:HG12	45:u:82:TYR:HB2	1.49	0.94
20:V:64:ARG:O	20:V:68:ALA:N	2.00	0.94
38:n:25:LEU:HB3	38:n:89:VAL:HB	1.48	0.94
45:u:77:VAL:HA	45:u:89:ILE:HG12	1.48	0.94
45:u:78:GLN:O	45:u:87:GLN:N	2.00	0.94
46:v:20:SER:N	46:v:56:LYS:HG2	1.82	0.94
9:I:1766:G:N1	9:I:1926:C:N3	2.14	0.94
9:I:1850:G:O2'	9:I:1851:C:O4'	1.82	0.94
9:I:4202:G:OP1	20:V:64:ARG:NH1	2.01	0.94
13:M:138:LEU:HD22	13:M:143:LEU:HD12	1.49	0.94
13:M:159:LEU:HD21	13:M:162:ARG:HH21	1.33	0.94
17:S:7:MET:SD	17:S:82:ASN:ND2	2.39	0.94
25:a:8:PHE:HB3	25:a:87:SER:HB3	1.46	0.94
3:C:63:GLN:CA	9:I:226:G:C4	2.50	0.94
9:I:1497:C:H5'	9:I:1500:U:H4'	1.46	0.94
9:I:2192:C:H5''	11:K:38:LYS:HG2	1.48	0.94
9:I:3740:G:H2'	9:I:3741:A:H8	1.32	0.94
9:I:3791:A:C2'	9:I:3816:A:H1'	1.98	0.94
9:I:3814:U:H4'	9:I:3815:U:C5'	1.97	0.94
9:I:4024:A:O2'	9:I:4028:A:N6	2.00	0.94
9:I:4278:U:O2'	12:L:42:ASN:ND2	2.00	0.94
16:R:16:TYR:HE2	16:R:52:ASP:HB3	1.31	0.94
18:T:96:LYS:CD	18:T:103:ILE:HD12	1.98	0.94
40:p:77:LYS:HE3	40:p:116:LEU:HD21	1.48	0.94
40:p:110:GLU:O	40:p:114:ALA:HB3	1.68	0.94
44:t:11:ILE:N	44:t:70:ALA:O	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:u:11:GLU:CB	45:u:16:ALA:HB1	1.95	0.94
46:v:21:VAL:N	46:v:55:GLY:O	2.01	0.94
1:A:2:LYS:HD2	9:I:1214:G:H4'	1.46	0.94
4:D:15:GLU:N	9:I:273:A:O5'	1.99	0.94
4:D:19:VAL:HG23	4:D:42:HIS:CD2	2.03	0.94
7:G:8:ARG:NH1	9:I:331:G:N3	2.16	0.94
9:I:690:G:O2'	9:I:796:C:H4'	1.67	0.94
9:I:981:U:O2	9:I:1221:G:N1	2.01	0.94
9:I:1920:C:H2'	9:I:1921:C:C6	2.03	0.94
9:I:2037:G:OP2	16:R:2:LYS:NZ	2.00	0.94
9:I:2136:G:OP2	18:T:109:LYS:NZ	1.98	0.94
9:I:2363:A:H4'	10:J:99:G:H21	1.31	0.94
9:I:2634:C:OP1	16:R:24:THR:HG22	1.66	0.94
9:I:2929:G:N3	9:I:2930:G:H5'	1.83	0.94
9:I:3960:C:H5''	37:m:6:SER:HB2	1.49	0.94
9:I:4148:A:N6	9:I:4160:C:OP2	2.00	0.94
10:J:24:U:C2'	10:J:25:C:H5'	1.98	0.94
10:J:45:A:H3'	10:J:46:C:H5	1.33	0.94
10:J:75:G:O2'	45:u:78:GLN:NE2	2.01	0.94
11:K:118:GLY:O	11:K:121:ALA:N	2.00	0.94
11:K:144:GLU:HG3	11:K:188:ARG:CG	1.95	0.94
11:K:153:LEU:CD1	11:K:175:LEU:HD22	1.96	0.94
13:M:119:ILE:HG13	13:M:185:LYS:HB3	1.47	0.94
14:N:48:LEU:HD11	14:N:147:ARG:HD2	1.49	0.94
15:O:42:VAL:HG13	15:O:44:HIS:HE1	1.30	0.94
15:O:104:LEU:N	15:O:112:VAL:O	1.99	0.94
17:S:61:VAL:CG1	17:S:87:LEU:HD21	1.97	0.94
20:V:44:LEU:HA	20:V:47:VAL:HB	1.50	0.94
24:Z:6:LEU:HG	24:Z:28:THR:HG22	1.47	0.94
3:C:13:LYS:HA	9:I:390:G:H5''	1.50	0.94
9:I:62:C:H5''	9:I:382:A:H61	1.31	0.94
9:I:338:C:H2'	9:I:339:U:C6	2.03	0.94
9:I:1481:G:C6	9:I:1482:A:H1'	2.01	0.94
9:I:3195:A:H3'	9:I:3196:G:C8	2.02	0.94
9:I:3216:A:N7	9:I:3232:G:O2'	2.01	0.94
9:I:3785:U:N3	9:I:3835:G:C6	2.35	0.94
9:I:4233:U:O4	9:I:4258:A:N7	2.01	0.94
12:L:8:LYS:O	12:L:198:GLY:N	1.99	0.94
12:L:110:THR:HA	12:L:170:VAL:O	1.67	0.94
15:O:14:VAL:HG13	15:O:26:LYS:O	1.67	0.94
17:S:68:GLY:HA3	17:S:78:ARG:CA	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:46:ILE:O	19:U:50:ARG:N	2.00	0.94
39:o:45:VAL:HG12	39:o:61:ARG:HB3	1.48	0.94
44:t:93:ARG:HB3	44:t:102:ILE:HD13	1.50	0.94
1:A:89:ARG:NH1	9:I:1057:G:H1'	1.82	0.94
2:B:14:PHE:HB3	2:B:25:GLU:CB	1.98	0.94
9:I:1728:C:C5	9:I:3901:A:H1'	2.03	0.94
9:I:2038:A:H2'	9:I:2039:G:H5'	1.50	0.94
9:I:2127:A:H4'	9:I:2128:G:OP1	1.66	0.94
9:I:2523:A:C2'	9:I:2524:C:H5'	1.98	0.94
9:I:2749:U:H5''	9:I:2750:G:C5'	1.96	0.94
9:I:2990:A:H3'	9:I:2992:C:N4	1.83	0.94
9:I:3809:G:O2'	14:N:124:ARG:NH1	2.00	0.94
9:I:3963:A:O2'	19:U:55:ARG:NH1	2.01	0.94
12:L:35:THR:N	12:L:49:GLN:O	2.01	0.94
15:O:151:ARG:HB3	15:O:161:VAL:CG2	1.97	0.94
18:T:109:LYS:HB3	18:T:111:ILE:HD11	1.50	0.94
40:p:50:ARG:HD3	40:p:53:LYS:NZ	1.83	0.94
46:v:14:LYS:N	46:v:27:ILE:O	1.99	0.94
2:B:88:ARG:NH2	9:I:2213:G:H3'	1.83	0.93
5:E:1:GLU:HA	5:E:36:LEU:HD22	1.50	0.93
8:H:28:LEU:HB2	30:f:77:PRO:HD2	1.47	0.93
9:I:1165:G:N1	9:I:1168:A:OP2	1.99	0.93
9:I:1487:U:H2'	9:I:1488:G:C8	2.03	0.93
9:I:2361:A:H3'	9:I:2362:G:C8	2.02	0.93
12:L:108:ASP:OD2	12:L:109:VAL:N	2.00	0.93
17:S:63:VAL:HB	17:S:103:VAL:CA	1.96	0.93
23:Y:60:VAL:HA	23:Y:63:ILE:HD12	1.49	0.93
43:s:13:ALA:O	43:s:33:LYS:N	2.00	0.93
45:u:79:ARG:NH1	45:u:80:HIS:O	1.99	0.93
9:I:614:G:N2	9:I:624:U:O2	2.01	0.93
9:I:1590:U:H3'	9:I:1591:A:C2'	1.98	0.93
9:I:2928:A:H2'	9:I:2929:G:C8	2.03	0.93
9:I:3579:U:O2	9:I:3728:G:O6	1.86	0.93
12:L:9:VAL:HG13	39:o:3:ILE:HD13	1.51	0.93
13:M:26:ALA:O	13:M:30:GLN:N	2.00	0.93
15:O:155:PRO:HG2	15:O:156:TYR:CD2	2.03	0.93
16:R:15:TRP:HA	16:R:53:TYR:O	1.68	0.93
17:S:65:THR:O	17:S:79:PHE:HB2	1.67	0.93
18:T:96:LYS:CD	18:T:103:ILE:HA	1.98	0.93
24:Z:72:LEU:HG	24:Z:138:MET:HE2	1.50	0.93
27:c:63:LYS:HB2	27:c:70:VAL:HG11	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:517:C:H4'	9:I:518:C:H5''	1.49	0.93
9:I:934:A:O2'	9:I:1382:C:N3	1.99	0.93
9:I:2127:A:O2'	9:I:2136:G:N2	1.99	0.93
9:I:2142:U:N3	9:I:2145:C:OP2	2.01	0.93
9:I:2203:U:O4	9:I:2228:G:O6	1.86	0.93
9:I:4058:A:H2'	9:I:4059:A:C4	2.03	0.93
14:N:69:ALA:N	14:N:82:TYR:O	2.00	0.93
16:R:129:GLU:HG2	16:R:130:HIS:H	1.34	0.93
18:T:82:LEU:O	18:T:118:THR:HG21	1.68	0.93
31:g:89:LEU:HB3	31:g:92:VAL:HG21	1.50	0.93
36:l:37:THR:HB	36:l:38:LYS:NZ	1.83	0.93
4:D:5:LEU:HB3	4:D:22:ILE:HD12	1.50	0.93
9:I:712:G:H2'	9:I:713:G:H8	1.30	0.93
9:I:1835:C:H2'	9:I:1836:C:C6	2.04	0.93
9:I:2227:A:H2'	9:I:2228:G:C8	2.04	0.93
9:I:2666:C:H2'	9:I:2667:U:C1'	1.98	0.93
9:I:4178:U:H2'	9:I:4179:G:C8	2.04	0.93
12:L:184:ARG:HH22	39:o:5:LYS:HE3	1.33	0.93
17:S:38:ILE:HD12	17:S:87:LEU:CD1	1.98	0.93
24:Z:30:VAL:O	24:Z:37:VAL:HG23	1.68	0.93
24:Z:148:ARG:HG2	24:Z:149:GLY:H	1.31	0.93
9:I:122:U:O2'	9:I:289:C:O2	1.85	0.93
9:I:1777:G:H22	9:I:1858:U:P	1.92	0.93
9:I:2138:G:H2'	9:I:2139:U:C6	2.04	0.93
10:J:25:C:H3'	10:J:26:C:H6	1.31	0.93
12:L:68:PHE:HA	12:L:71:ALA:HB3	1.49	0.93
13:M:149:ILE:N	13:M:187:VAL:O	2.00	0.93
16:R:97:PRO:HG2	16:R:126:ALA:HB1	1.49	0.93
48:x:10:VAL:HG22	48:x:56:LEU:CD2	1.97	0.93
9:I:1362:A:O2'	9:I:1364:G:N7	2.02	0.93
9:I:2536:G:OP2	9:I:2537:C:N4	2.02	0.93
9:I:2717:G:N2	9:I:2720:A:OP2	2.01	0.93
9:I:2975:U:O2	9:I:3004:G:C2	2.22	0.93
9:I:3214:U:H2'	9:I:3215:G:C1'	1.97	0.93
9:I:4023:G:H4'	15:O:174:LYS:CA	1.99	0.93
38:n:17:LEU:HD13	38:n:41:PRO:CB	1.99	0.93
2:B:63:ARG:NH2	9:I:2215:A:OP2	2.02	0.93
9:I:688:C:OP1	30:f:17:ASN:ND2	2.02	0.93
9:I:1073:G:H1	9:I:1082:U:H3	0.97	0.93
9:I:2859:A:OP2	47:w:2:ARG:N	2.02	0.93
9:I:2927:A:H2'	9:I:2928:A:H8	1.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3804:C:H2'	14:N:76:PHE:CE2	2.04	0.93
9:I:4173:A:H4'	12:L:194:PRO:CG	1.97	0.93
10:J:25:C:H3'	10:J:26:C:C6	2.02	0.93
15:O:160:GLY:O	15:O:162:ARG:NE	2.01	0.93
25:a:78:PHE:HD1	25:a:84:VAL:HG11	1.33	0.93
39:o:2:ASN:HA	39:o:5:LYS:HG2	1.48	0.93
4:D:43:VAL:HG11	4:D:72:LEU:HB3	1.48	0.93
9:I:559:A:H4'	9:I:560:U:H5''	1.47	0.93
9:I:1498:C:OP2	9:I:1500:U:H5'	1.66	0.93
9:I:2635:U:H2'	16:R:65:THR:HB	1.47	0.93
9:I:3315:A:H2'	9:I:3316:C:C6	2.03	0.93
9:I:3327:C:O2'	9:I:3328:U:O5'	1.85	0.93
9:I:3809:G:H2'	9:I:3810:G:C8	2.03	0.93
9:I:3813:G:HO2'	9:I:3814:U:H5	0.95	0.93
9:I:4129:A:H4'	12:L:49:GLN:HG3	1.49	0.93
15:O:52:GLY:HA2	15:O:61:TRP:CE3	2.03	0.93
40:p:74:SER:O	40:p:78:PHE:N	2.01	0.93
4:D:14:MET:H	9:I:272:U:H2'	1.31	0.93
5:E:38:ARG:CA	9:I:734:C:H4'	1.99	0.93
9:I:1129:A:N6	9:I:1143:G:N3	2.17	0.93
9:I:2874:G:O2'	9:I:3063:A:N6	2.00	0.93
9:I:3246:C:H2'	9:I:3247:G:C8	2.03	0.93
9:I:4152:C:H3'	9:I:4153:G:H8	1.34	0.93
9:I:4213:G:H4'	9:I:4340:G:O3'	1.68	0.93
10:J:42:C:O4'	14:N:62:GLN:NE2	2.02	0.93
13:M:5:LEU:CD2	13:M:121:VAL:HA	1.99	0.93
26:b:26:VAL:O	26:b:30:MET:N	2.02	0.93
9:I:71:A:N6	9:I:93:G:O6	2.02	0.93
9:I:2346:U:H6	9:I:2347:U:H5''	1.34	0.93
9:I:3212:G:H1	9:I:3236:U:H3	0.93	0.93
38:n:75:LYS:HB2	38:n:111:GLU:OE1	1.68	0.93
45:u:18:ARG:HB2	45:u:21:ARG:NH1	1.82	0.93
47:w:50:VAL:HG21	47:w:58:ILE:HD11	1.48	0.93
5:E:22:PRO:CA	9:I:718:C:H4'	1.99	0.92
9:I:59:A:N6	9:I:109:C:C4	2.37	0.92
9:I:462:U:O4	9:I:468:C:N4	2.02	0.92
9:I:777:G:H2'	9:I:778:C:C1'	1.98	0.92
9:I:999:A:O2'	9:I:1000:C:O4'	1.87	0.92
9:I:1563:A:H2'	9:I:1564:A:H8	1.32	0.92
9:I:2114:A:OP2	9:I:2114:A:H3'	1.69	0.92
9:I:3215:G:N2	9:I:3233:A:OP2	2.02	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3755:C:O3'	9:I:3881:U:O2'	1.86	0.92
9:I:3799:U:H1'	14:N:132:ARG:HG3	1.51	0.92
9:I:3970:A:N3	9:I:3975:G:N1	2.17	0.92
9:I:4212:G:OP1	39:o:97:TYR:HB2	1.69	0.92
12:L:8:LYS:N	12:L:199:SER:O	2.01	0.92
24:Z:7:ILE:HB	24:Z:27:LEU:HD23	1.49	0.92
41:q:4:VAL:HA	41:q:13:ARG:HA	1.48	0.92
43:s:65:GLY:N	43:s:79:ASP:OD1	2.01	0.92
45:u:80:HIS:ND1	45:u:85:LYS:HG3	1.84	0.92
4:D:33:LYS:HB3	4:D:35:ILE:HD11	1.49	0.92
7:G:2:ILE:HD12	9:I:348:A:H5'	1.51	0.92
9:I:1507:G:H2'	9:I:1508:C:C6	2.04	0.92
9:I:1584:A:H5''	44:t:6:ARG:CZ	1.99	0.92
9:I:3201:G:C2	9:I:3245:U:C2	2.57	0.92
9:I:3989:G:O2'	9:I:3990:C:O5'	1.86	0.92
9:I:4130:C:OP1	12:L:81:GLU:N	2.02	0.92
9:I:4304:A:H4'	12:L:62:LYS:CE	1.98	0.92
16:R:40:HIS:HB2	40:p:70:GLN:NE2	1.83	0.92
17:S:1:MET:SD	17:S:32:TYR:HB3	2.08	0.92
19:U:17:ASN:OD1	19:U:97:GLN:NE2	2.00	0.92
38:n:31:PRO:O	38:n:65:GLY:HA3	1.67	0.92
41:q:35:PHE:HB2	41:q:59:ILE:HB	1.50	0.92
49:y:8:GLN:HE22	49:y:53:MET:HE2	1.34	0.92
6:F:37:THR:OG1	6:F:68:LYS:NZ	2.01	0.92
9:I:373:A:N6	9:I:389:U:O2	2.03	0.92
9:I:2565:G:N2	9:I:2585:G:N7	2.17	0.92
9:I:4420:2MG:N2	9:I:4423:MA6:OP2	2.02	0.92
10:J:38:A:O2'	10:J:39:U:O4'	1.85	0.92
10:J:45:A:H2'	10:J:45:A:N3	1.83	0.92
13:M:17:THR:HA	13:M:21:ARG:HG2	1.50	0.92
15:O:14:VAL:HG22	15:O:27:GLY:HA2	1.49	0.92
25:a:36:ILE:HD11	25:a:39:LEU:HB2	1.50	0.92
43:s:4:GLU:HG2	43:s:8:LEU:HD11	1.50	0.92
4:D:5:LEU:HD23	4:D:22:ILE:HG21	1.49	0.92
9:I:3023:G:N2	9:I:3036:U:O2	2.02	0.92
29:e:5:ARG:HH12	29:e:38:LEU:HD13	1.31	0.92
38:n:69:ALA:HA	38:n:72:ALA:HB3	1.51	0.92
39:o:23:ASP:CG	39:o:88:ARG:HB3	1.92	0.92
4:D:40:LYS:HE3	9:I:275:G:H3'	1.50	0.92
9:I:594:A:H1'	9:I:595:A:N7	1.83	0.92
9:I:694:A:N1	9:I:785:G:N2	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:924:G:N2	9:I:1390:U:O2	2.01	0.92
9:I:1905:U:H5'	9:I:1906:G:C8	2.05	0.92
9:I:1929:A:H2'	9:I:1930:A:C4	2.05	0.92
9:I:2542:A:C2'	9:I:2607:U:H1'	2.00	0.92
9:I:3775:A:H2'	9:I:3776:G:H5''	1.49	0.92
9:I:3788:G:H4'	10:J:45:A:N6	1.83	0.92
9:I:4113:C:H5''	12:L:157:LYS:HE3	1.51	0.92
9:I:4326:U:C4'	9:I:4327:U:H2'	2.00	0.92
10:J:16:C:H41	10:J:107:A:H1'	1.34	0.92
10:J:108:A:O2'	10:J:109:C:H5'	1.70	0.92
13:M:143:LEU:CB	13:M:146:VAL:HG21	2.00	0.92
18:T:76:GLU:HB2	18:T:111:ILE:CD1	2.00	0.92
44:t:24:VAL:CG2	44:t:35:VAL:HG22	2.00	0.92
45:u:9:ARG:HH21	45:u:20:LEU:HD12	1.35	0.92
8:H:33:ARG:CZ	30:f:112:PRO:HD2	1.99	0.92
9:I:141:G:H2'	9:I:142:A:O4'	1.68	0.92
9:I:1809:A:C4'	44:t:16:LYS:HA	1.99	0.92
9:I:3007:U:H5''	9:I:3008:G:OP1	1.69	0.92
9:I:3285:A:O3'	11:K:204:LEU:HB2	1.70	0.92
9:I:3960:C:H5''	37:m:6:SER:CB	1.98	0.92
10:J:17:G:N2	10:J:64:U:O2	2.03	0.92
10:J:19:G:H2'	10:J:20:G:C8	2.04	0.92
18:T:100:ILE:HG13	18:T:101:ILE:HG23	1.52	0.92
19:U:42:THR:O	19:U:46:ILE:HG13	1.69	0.92
38:n:92:ASP:OD1	38:n:94:SER:OG	1.87	0.92
5:E:42:ARG:HB2	9:I:733:G:H22	1.33	0.92
9:I:673:G:H21	30:f:106:HIS:HB2	1.32	0.92
9:I:2909:U:O2	9:I:3082:G:N1	2.02	0.92
9:I:2975:U:H2'	9:I:3004:G:N2	1.83	0.92
9:I:3284:C:H2'	9:I:3285:A:C8	2.03	0.92
9:I:4189:U:N3	9:I:4208:G:N1	2.15	0.92
11:K:144:GLU:HG2	11:K:150:GLY:C	1.95	0.92
12:L:13:ARG:NH2	39:o:74:GLN:OE1	2.01	0.92
12:L:172:VAL:HG21	12:L:194:PRO:HG2	1.51	0.92
13:M:122:GLU:O	13:M:190:ALA:N	2.03	0.92
15:O:25:ILE:HD12	15:O:74:MET:HG2	1.51	0.92
15:O:144:ALA:HA	15:O:147:LEU:HD12	1.51	0.92
32:h:28:ARG:O	32:h:32:ILE:N	2.03	0.92
37:m:35:GLN:O	37:m:36:ARG:NH1	2.03	0.92
38:n:16:LYS:HB2	38:n:24:ARG:NH2	1.84	0.92
40:p:60:TRP:CD1	40:p:92:LYS:HA	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:t:11:ILE:O	44:t:70:ALA:N	2.01	0.92
48:x:27:LEU:HD13	48:x:30:GLN:HB3	1.51	0.92
4:D:68:LYS:HB3	9:I:253:G:C5'	1.99	0.92
9:I:740:G:H2'	9:I:741:G:C8	2.05	0.92
9:I:1636:G:H2'	9:I:1637:U:C6	2.04	0.92
9:I:1664:C:H2'	9:I:1665:A:O4'	1.68	0.92
9:I:2434:G:H2'	9:I:2435:A:H5''	1.52	0.92
9:I:2817:C:N4	9:I:2818:G:O6	2.03	0.92
9:I:3312:U:O2'	11:K:152:GLN:HG3	1.69	0.92
9:I:3756:U:OP1	46:v:31:ARG:NH2	2.03	0.92
9:I:4326:U:H4'	9:I:4327:U:H2'	1.49	0.92
37:m:25:VAL:N	37:m:35:GLN:O	2.01	0.92
38:n:9:ARG:HD3	38:n:12:ARG:HH22	1.34	0.92
9:I:323:G:H2'	9:I:325:G:N7	1.85	0.92
9:I:949:U:H2'	9:I:950:G:C8	2.04	0.92
9:I:1212:A:O2'	9:I:1214:G:N7	2.03	0.92
9:I:1590:U:C3'	9:I:1591:A:H2'	1.99	0.92
9:I:1787:G:H2'	9:I:1788:U:H5'	1.51	0.92
9:I:2072:A:OP2	41:q:80:ARG:NH2	2.03	0.92
9:I:3194:A:H3'	9:I:3195:A:H8	1.31	0.92
9:I:3696:U:H3	9:I:3715:G:H1	1.06	0.92
14:N:48:LEU:HD12	14:N:149:ARG:HH11	1.32	0.92
15:O:102:ILE:CD1	15:O:116:LEU:HD12	1.99	0.92
18:T:89:VAL:O	18:T:94:THR:OG1	1.87	0.92
22:X:151:GLU:HB2	22:X:166:TRP:HB3	1.51	0.92
33:i:21:LEU:HB2	42:r:19:LEU:HD21	1.52	0.92
33:i:40:HIS:HA	33:i:48:TYR:CZ	2.04	0.92
39:o:23:ASP:OD1	39:o:89:GLY:N	2.02	0.92
44:t:13:LEU:CD1	44:t:68:ASN:HA	1.98	0.92
44:t:23:LYS:N	44:t:36:GLU:HG2	1.84	0.92
47:w:35:HIS:HD1	47:w:37:PHE:HD1	1.16	0.92
9:I:1189:G:O2'	22:X:2:GLN:NE2	2.02	0.92
9:I:1769:C:H2'	9:I:1770:A:C5'	2.00	0.92
9:I:2048:G:H4'	9:I:2049:G:H5'	1.51	0.92
9:I:2775:G:H2'	9:I:2776:U:H6	1.33	0.92
9:I:2994:G:H3'	9:I:2995:G:H8	1.35	0.92
9:I:3841:C:O2'	34:j:36:PHE:HB3	1.70	0.92
9:I:3857:G:O2'	9:I:3858:C:H5'	1.69	0.92
9:I:4049:U:H2'	9:I:4050:C:H5'	1.52	0.92
10:J:77:A:N6	10:J:97:G:N2	2.14	0.92
11:K:16:VAL:O	11:K:202:ARG:NH1	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:105:ALA:HB1	11:K:109:LEU:HD22	1.52	0.92
14:N:111:ARG:HD2	14:N:133:GLU:HB3	1.51	0.92
38:n:19:GLU:HG2	46:v:39:ALA:CA	2.00	0.92
43:s:25:GLU:HG3	43:s:26:LYS:HG2	1.51	0.92
47:w:69:GLU:CA	47:w:72:ALA:HB3	1.98	0.92
47:w:70:LEU:HD21	47:w:77:TYR:HB3	1.51	0.92
3:C:63:GLN:HG2	9:I:226:G:C8	2.04	0.91
9:I:1744:A:OP2	36:l:7:ARG:NH2	2.02	0.91
9:I:1827:G:N1	9:I:1835:C:N3	2.19	0.91
9:I:2145:C:O2'	9:I:2146:U:O5'	1.87	0.91
9:I:4151:A:N6	9:I:4158:G:N3	2.17	0.91
9:I:4176:A:HO2'	12:L:13:ARG:HD3	1.34	0.91
10:J:30:C:H1'	10:J:52:A:H61	1.34	0.91
15:O:16:VAL:HG13	15:O:24:THR:O	1.70	0.91
16:R:31:GLU:HB2	16:R:142:ILE:HG13	1.51	0.91
17:S:77:ILE:C	39:o:69:VAL:HG12	1.95	0.91
19:U:44:ARG:HH12	19:U:92:TRP:HB2	1.34	0.91
4:D:12:ASP:HA	4:D:19:VAL:CG1	2.00	0.91
9:I:947:C:H5'	9:I:1305:A:C4'	1.99	0.91
9:I:1130:G:H2'	9:I:1131:C:O4'	1.70	0.91
9:I:1345:A:N6	9:I:1374:A:N7	2.18	0.91
9:I:1374:A:O2'	9:I:1375:U:O4'	1.86	0.91
9:I:1779:A:N6	9:I:1861:G:H1'	1.85	0.91
9:I:2104:G:O2'	9:I:2105:G:O5'	1.87	0.91
9:I:3731:G:O2'	9:I:3733:G:N7	2.03	0.91
9:I:3825:G:O2'	9:I:3826:C:H5'	1.68	0.91
11:K:159:THR:O	11:K:193:GLU:HB2	1.70	0.91
16:R:121:LYS:O	16:R:123:LYS:NZ	2.03	0.91
19:U:24:THR:HG21	45:u:81:PRO:HA	1.52	0.91
29:e:77:GLU:HA	29:e:80:VAL:HG12	1.51	0.91
37:m:13:ASN:O	37:m:28:SER:OG	1.89	0.91
37:m:27:CYS:HB2	37:m:33:HIS:HB2	0.95	0.91
39:o:99:LEU:HA	39:o:102:ARG:CD	2.00	0.91
9:I:688:C:H2'	9:I:689:G:O4'	1.71	0.91
9:I:1099:C:H3'	21:W:92:ARG:HH12	1.32	0.91
9:I:1598:G:H2'	9:I:1599:U:C6	2.06	0.91
9:I:2833:G:OP1	43:s:17:SER:OG	1.87	0.91
9:I:2903:U:N3	9:I:3087:A:N1	2.19	0.91
9:I:3347:A:C1'	9:I:3728:G:H4'	1.99	0.91
9:I:3358:U:H2'	9:I:3359:U:C4	2.05	0.91
9:I:3785:U:O2	9:I:3835:G:N2	2.02	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4186:G:N2	9:I:4342:G:OP1	2.03	0.91
14:N:147:ARG:HD3	14:N:149:ARG:CG	2.00	0.91
17:S:12:ASP:CG	17:S:99:ILE:HG12	1.95	0.91
17:S:94:PRO:HG2	17:S:115:ILE:HD11	1.50	0.91
20:V:34:ILE:HD12	20:V:36:THR:HB	1.52	0.91
24:Z:77:LYS:HG3	24:Z:86:PHE:HD1	1.32	0.91
44:t:66:VAL:HA	44:t:69:VAL:CG2	1.99	0.91
45:u:9:ARG:NH1	45:u:17:SER:OG	2.02	0.91
3:C:62:GLY:C	9:I:226:G:C5	2.47	0.91
5:E:41:LYS:NZ	9:I:716:U:O2	2.03	0.91
9:I:1106:C:OP1	22:X:171:ARG:NH1	2.02	0.91
9:I:2154:A:H2'	9:I:2155:A:H5''	1.50	0.91
9:I:2924:G:H2'	9:I:2925:A:C8	2.05	0.91
9:I:3356:G:H1	9:I:3374:U:H3	1.15	0.91
9:I:4416:U:H3	9:I:4427:G:H1	1.14	0.91
10:J:32:G:N1	10:J:48:C:N3	2.17	0.91
10:J:35:C:N4	10:J:48:C:O2	2.04	0.91
11:K:68:ARG:HE	11:K:128:THR:HG21	1.33	0.91
11:K:122:ALA:O	11:K:127:ASN:HB3	1.70	0.91
15:O:10:VAL:O	15:O:47:ASN:ND2	2.03	0.91
15:O:37:ASN:HD22	15:O:63:GLN:HG3	1.35	0.91
16:R:23:LYS:CB	16:R:28:LEU:HB2	1.99	0.91
16:R:81:ILE:HG23	16:R:82:GLY:H	1.31	0.91
19:U:7:THR:OG1	19:U:9:PHE:O	1.88	0.91
20:V:16:HIS:O	20:V:20:MET:N	2.02	0.91
21:W:98:LEU:HB2	21:W:172:GLU:HB3	1.51	0.91
26:b:26:VAL:HG12	26:b:42:VAL:HG21	1.51	0.91
9:I:178:A:H61	9:I:195:A:H62	1.18	0.91
9:I:651:U:C2	9:I:752:A:N6	2.39	0.91
9:I:666:G:OP1	9:I:731:C:O2'	1.86	0.91
9:I:2146:U:H5'	9:I:2147:G:H5''	1.52	0.91
9:I:4192:U:H2'	9:I:4193:C:C5	2.06	0.91
11:K:16:VAL:HB	11:K:203:VAL:H	1.36	0.91
13:M:25:GLU:OE2	18:T:7:SER:N	2.03	0.91
13:M:102:ARG:HA	13:M:200:LEU:CD2	2.00	0.91
20:V:69:ARG:O	20:V:70:THR:HG22	1.69	0.91
46:v:15:ARG:HB3	46:v:57:VAL:CG2	2.01	0.91
1:A:81:ILE:HD13	29:e:51:PRO:HB2	1.53	0.91
3:C:1:MET:HB3	9:I:132:U:H2'	1.52	0.91
4:D:42:HIS:N	9:I:253:G:OP1	2.04	0.91
9:I:8:G:H5'	24:Z:100:GLY:H	1.36	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:377:G:H2'	9:I:378:C:C6	2.06	0.91
9:I:990:U:H4'	9:I:991:U:H5''	1.52	0.91
9:I:1753:C:OP2	36:l:4:LYS:NZ	2.03	0.91
9:I:2367:C:N4	9:I:2406:C:O2	2.04	0.91
9:I:2535:G:N1	9:I:2608:C:N3	2.17	0.91
9:I:3023:G:H1	9:I:3036:U:H3	1.13	0.91
9:I:4151:A:N7	9:I:4158:G:N2	2.18	0.91
10:J:34:C:H42	10:J:49:A:H1'	1.34	0.91
11:K:74:PRO:HB2	11:K:96:LYS:HB2	1.52	0.91
37:m:27:CYS:SG	37:m:33:HIS:ND1	2.42	0.91
1:A:80:ARG:HD2	9:I:972:G:C2'	2.00	0.91
8:H:3:ILE:HD13	30:f:98:ILE:HG23	1.53	0.91
8:H:18:PHE:HA	30:f:98:ILE:HG21	1.53	0.91
9:I:1576:C:O3'	48:x:51:ARG:NH1	2.02	0.91
9:I:2930:G:N2	9:I:3009:A:O2'	2.03	0.91
9:I:3354:G:N2	9:I:3376:U:O2	2.02	0.91
9:I:3594:G:O6	9:I:3683:U:O4	1.89	0.91
11:K:92:LEU:HD13	11:K:102:TYR:CD1	2.06	0.91
14:N:52:ALA:HB2	14:N:149:ARG:HD2	1.51	0.91
15:O:16:VAL:HG21	15:O:25:ILE:HG12	1.53	0.91
15:O:104:LEU:HD13	15:O:112:VAL:HG12	1.51	0.91
25:a:44:ARG:HA	25:a:58:HIS:HA	1.53	0.91
48:x:45:VAL:HA	48:x:48:ASP:CG	1.95	0.91
49:y:19:HIS:HA	49:y:22:THR:CB	2.00	0.91
9:I:2244:U:O4	9:I:2245:1MG:HM12	1.69	0.91
9:I:2299:G:H3'	9:I:2300:A:H8	1.35	0.91
9:I:3785:U:C4	9:I:3835:G:O6	2.24	0.91
11:K:118:GLY:H	11:K:121:ALA:HB2	1.34	0.91
40:p:111:LYS:O	40:p:115:ALA:HB3	1.70	0.91
44:t:43:LYS:CG	44:t:58:VAL:HB	2.00	0.91
9:I:665:G:N2	9:I:739:U:O2	2.03	0.91
9:I:1797:G:OP1	44:t:91:LYS:HD3	1.69	0.91
9:I:2357:G:H2'	9:I:2358:G:C8	2.05	0.91
9:I:2513:U:C2	9:I:2636:A:N6	2.38	0.91
9:I:3017:U:O2'	9:I:3018:G:O4'	1.87	0.91
9:I:3779:C:OP2	34:j:3:ARG:NH2	2.02	0.91
9:I:3818:U:O2	9:I:3879:C:N4	2.04	0.91
9:I:3873:G:H2'	9:I:3874:C:H6	1.35	0.91
9:I:3966:G:H21	9:I:3972:A:H62	1.14	0.91
15:O:139:VAL:O	15:O:143:VAL:N	2.02	0.91
1:A:84:ARG:NH1	29:e:49:ILE:O	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:45:TYR:HB3	25:a:86:ARG:HE	1.32	0.91
7:G:47:LYS:HA	7:G:50:ASN:HB2	1.53	0.91
9:I:282:U:H2'	9:I:283:C:C6	2.05	0.91
9:I:415:G:N2	9:I:426:U:O2	2.02	0.91
9:I:935:C:O2'	9:I:1381:C:N3	2.03	0.91
9:I:1487:U:C1'	9:I:4303:A:H61	1.83	0.91
9:I:2522:A:H2'	9:I:2523:A:H8	1.33	0.91
9:I:2665:G:N2	9:I:2672:C:N3	2.19	0.91
9:I:3371:A:O2'	9:I:3372:G:H5'	1.71	0.91
9:I:4151:A:H3'	9:I:4152:C:C6	2.06	0.91
9:I:4214:U:O3'	9:I:4339:U:O2'	1.89	0.91
9:I:4243:A:OP1	9:I:4245:G:H5''	1.70	0.91
10:J:43:G:H4'	10:J:44:A:C6	2.05	0.91
12:L:39:ASP:CB	12:L:46:ARG:HG2	2.00	0.91
18:T:75:ALA:HB3	18:T:108:ALA:HB2	1.52	0.91
20:V:36:THR:HG23	20:V:41:ALA:HB2	1.52	0.91
20:V:86:ARG:HH21	20:V:117:ASP:HB3	1.35	0.91
33:i:43:THR:N	33:i:47:TYR:O	2.04	0.91
39:o:50:ARG:NH2	39:o:55:HIS:O	2.04	0.91
40:p:88:GLU:H	41:q:49:ILE:HD12	1.36	0.91
46:v:27:ILE:HG21	46:v:70:ILE:HD13	1.53	0.91
9:I:701:A:C6	9:I:3341:A:H1'	2.06	0.90
9:I:941:G:N2	28:d:123:GLN:OE1	2.02	0.90
9:I:1327:C:OP1	32:h:27:THR:OG1	1.89	0.90
9:I:2594:C:H2'	9:I:2595:U:O4'	1.72	0.90
9:I:2775:G:H2'	9:I:2776:U:C6	2.06	0.90
9:I:3293:G:C8	11:K:175:LEU:HD12	2.05	0.90
9:I:3313:A:OP2	11:K:154:ALA:N	2.03	0.90
9:I:3782:A:N6	9:I:3819:G:O4'	2.03	0.90
13:M:119:ILE:HD11	13:M:185:LYS:HD2	1.51	0.90
13:M:147:LEU:HB3	13:M:186:VAL:HG22	1.53	0.90
14:N:125:GLY:HA2	14:N:162:ASP:HA	1.53	0.90
15:O:42:VAL:HG13	15:O:44:HIS:CE1	2.06	0.90
21:W:46:MET:HE3	21:W:46:MET:O	1.71	0.90
27:c:76:ARG:HA	27:c:126:CYS:HB3	1.53	0.90
37:m:19:ARG:HB2	37:m:24:ARG:NE	1.86	0.90
9:I:1658:U:O2	9:I:1668:G:N2	2.04	0.90
9:I:2358:G:N2	9:I:2413:U:O4	2.03	0.90
9:I:2676:G:O2'	9:I:2677:U:H5'	1.69	0.90
9:I:2832:G:O2'	9:I:2833:G:O5'	1.87	0.90
9:I:3043:A:H5'	9:I:3233:A:N1	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4055:U:H4'	17:S:40:LYS:HE2	1.53	0.90
11:K:140:VAL:H	11:K:161:VAL:H	1.19	0.90
11:K:196:ASN:O	11:K:199:HIS:N	2.04	0.90
22:X:63:ILE:HG12	22:X:65:VAL:HG23	1.52	0.90
25:a:46:GLN:HA	25:a:56:LYS:HA	1.51	0.90
40:p:28:SER:OG	40:p:29:ARG:NH1	2.04	0.90
42:r:26:GLY:H	42:r:71:VAL:HB	1.35	0.90
1:A:60:ARG:CG	9:I:979:C:H2'	2.01	0.90
1:A:88:MET:CB	9:I:1058:C:H4'	2.01	0.90
9:I:1189:G:OP1	22:X:3:LYS:NZ	2.04	0.90
9:I:1806:U:O2	9:I:1810:A:N7	2.05	0.90
9:I:2273:U:O3'	11:K:47:ARG:NH1	2.04	0.90
9:I:2663:A:N6	9:I:2674:U:O4	2.04	0.90
9:I:3817:G:H2'	9:I:3831:G:H4'	1.53	0.90
9:I:3898:U:H3	9:I:3907:G:H1	0.94	0.90
9:I:4182:G:H2'	9:I:4213:G:N2	1.87	0.90
10:J:77:A:H2'	10:J:78:G:O4'	1.70	0.90
11:K:244:VAL:HA	11:K:250:GLN:HA	1.52	0.90
14:N:16:MET:O	14:N:20:ASN:N	2.04	0.90
18:T:96:LYS:HE2	18:T:102:GLY:O	1.71	0.90
38:n:78:ALA:HB3	38:n:112:ALA:HB3	1.54	0.90
41:q:3:ALA:HB1	41:q:38:VAL:HG11	1.51	0.90
9:I:264:G:H2'	9:I:266:C:H5	1.37	0.90
9:I:1572:U:O3'	48:x:50:ALA:HB2	1.71	0.90
9:I:1837:C:H5''	44:t:1:ALA:HB3	1.49	0.90
9:I:1837:C:H2'	9:I:1838:G:H1'	1.53	0.90
9:I:1866:C:N3	9:I:1867:G:H1'	1.86	0.90
9:I:2501:C:H3'	9:I:2502:A:H8	1.34	0.90
9:I:2670:U:H2'	9:I:2671:G:C8	2.06	0.90
9:I:3968:U:H3'	9:I:3969:C:C6	2.07	0.90
9:I:4026:G:H2'	9:I:4027:U:C5'	2.00	0.90
9:I:4177:C:O5'	12:L:13:ARG:NH1	2.03	0.90
12:L:88:GLU:O	12:L:89:GLU:HG3	1.71	0.90
13:M:126:VAL:HG23	13:M:156:ASN:HB3	1.54	0.90
19:U:41:LEU:HD11	19:U:102:LEU:HD13	1.50	0.90
22:X:179:ALA:HB1	22:X:202:PHE:HE1	1.35	0.90
23:Y:10:LEU:HB3	23:Y:62:ARG:HD3	1.53	0.90
31:g:55:ARG:NH1	31:g:56:LEU:O	2.04	0.90
9:I:1445:A:O2'	9:I:1446:A:O5'	1.89	0.90
9:I:1584:A:O2'	9:I:1599:U:H1'	1.71	0.90
9:I:2550:G:H4'	9:I:2580:A:H8	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2989:A:OP2	9:I:2989:A:H3'	1.71	0.90
9:I:3057:U:H2'	9:I:3058:C:C6	2.06	0.90
9:I:3600:U:H2'	9:I:3601:G:C8	2.06	0.90
10:J:5:G:H4'	10:J:27:C:OP1	1.71	0.90
17:S:8:LEU:HD12	17:S:20:MET:N	1.86	0.90
17:S:75:SER:OG	39:o:71:ARG:NH2	2.03	0.90
39:o:17:PRO:HD2	39:o:83:ILE:HD12	1.52	0.90
9:I:278:A:H4'	9:I:280:G:C8	2.07	0.90
9:I:506:C:H3'	9:I:507:U:H2'	1.52	0.90
9:I:701:A:H61	9:I:3340:G:N2	1.68	0.90
9:I:1769:C:H2'	9:I:1770:A:H5'	1.53	0.90
9:I:2145:C:H5	9:I:3844:C:H4'	1.36	0.90
9:I:2346:U:H2'	9:I:2347:U:H5''	1.53	0.90
9:I:2950:G:H2'	9:I:2951:U:O4'	1.71	0.90
9:I:3865:G:C2'	9:I:3866:U:H5'	2.02	0.90
9:I:4161:C:H1'	15:O:108:PHE:HD1	1.25	0.90
9:I:4279:C:H2'	9:I:4280:U:C6	2.05	0.90
10:J:114:A:O2'	10:J:115:G:H5'	1.72	0.90
39:o:21:PRO:HG2	39:o:91:VAL:HG11	1.53	0.90
47:w:53:LYS:HG3	47:w:57:VAL:HG13	1.54	0.90
49:y:30:ARG:CG	49:y:33:HIS:HB2	2.01	0.90
2:B:48:ASP:OD1	9:I:667:G:O2'	1.89	0.90
9:I:339:U:H2'	9:I:340:C:C6	2.07	0.90
9:I:1057:G:N2	9:I:1201:U:O4	2.05	0.90
9:I:1077:U:H2'	9:I:1078:G:C2	2.06	0.90
9:I:1836:C:H3'	44:t:3:LYS:HZ2	1.36	0.90
9:I:2372:U:H2'	9:I:2373:C:C6	2.06	0.90
9:I:2519:G:N2	9:I:2633:G:O6	2.04	0.90
9:I:2927:A:H2'	9:I:2928:A:C8	2.06	0.90
9:I:3888:C:OP2	36:l:29:ARG:NH1	2.04	0.90
9:I:4167:G:H3'	9:I:4168:G:H8	1.36	0.90
10:J:10:C:N3	10:J:108:A:N6	2.19	0.90
12:L:66:GLY:O	12:L:70:LYS:N	2.05	0.90
13:M:146:VAL:HG22	13:M:185:LYS:HB2	1.51	0.90
13:M:172:ALA:HA	13:M:175:ILE:CG2	2.02	0.90
14:N:12:VAL:O	14:N:16:MET:N	2.03	0.90
18:T:95:LEU:HD13	18:T:101:ILE:HG21	1.54	0.90
20:V:33:ILE:HD11	33:i:54:ILE:HD12	1.53	0.90
24:Z:74:HIS:HB3	27:c:96:ALA:HB2	1.51	0.90
29:e:4:ILE:HD11	29:e:70:VAL:HB	1.51	0.90
41:q:29:THR:HG22	41:q:66:HIS:CG	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:s:14:PRO:HG3	48:x:29:MET:HE1	1.51	0.90
9:I:606:A:H2'	9:I:607:A:O4'	1.71	0.90
9:I:2365:C:N3	9:I:2403:A:N6	2.19	0.90
9:I:2612:C:H2'	9:I:2613:U:C6	2.06	0.90
9:I:3952:G:HO2'	9:I:3984:G:H1	1.12	0.90
9:I:4223:G:H2'	9:I:4224:C:O4'	1.71	0.90
18:T:94:THR:HA	18:T:97:ALA:HB3	1.54	0.90
20:V:29:VAL:O	20:V:78:LYS:NZ	2.04	0.90
27:c:103:VAL:HB	27:c:124:ILE:HD13	1.54	0.90
28:d:85:MET:HE1	28:d:101:VAL:HG12	1.54	0.90
39:o:13:LYS:HE3	39:o:80:VAL:HG23	1.54	0.90
41:q:4:VAL:O	41:q:38:VAL:HG13	1.70	0.90
4:D:14:MET:N	9:I:272:U:H2'	1.85	0.90
4:D:68:LYS:CB	9:I:253:G:H5''	2.02	0.90
6:F:9:ILE:HG13	6:F:37:THR:H	1.37	0.90
7:G:37:ILE:HG13	7:G:45:ALA:HB2	1.54	0.90
9:I:2983:C:H2'	9:I:2985:G:C8	2.06	0.90
9:I:3865:G:H21	34:j:43:HIS:HE1	1.19	0.90
9:I:3879:C:H2'	9:I:3880:A:C8	2.07	0.90
11:K:245:THR:N	11:K:249:VAL:O	2.04	0.90
12:L:12:THR:OG1	39:o:8:GLU:OE2	1.90	0.90
12:L:84:LEU:HB3	12:L:88:GLU:O	1.72	0.90
15:O:51:PHE:CZ	15:O:71:LEU:HB3	2.07	0.90
17:S:104:THR:OG1	17:S:107:LEU:HD23	1.71	0.90
40:p:60:TRP:NE1	40:p:92:LYS:HA	1.87	0.90
9:I:61:U:H3	9:I:104:G:H1	1.15	0.90
9:I:295:U:H1'	9:I:555:C:H1'	1.53	0.90
9:I:370:A:H2'	9:I:371:C:C4'	2.02	0.90
9:I:1789:G:H2'	9:I:1790:U:H6	1.35	0.90
9:I:2357:G:O2'	9:I:2358:G:O5'	1.89	0.90
9:I:2909:U:O2	9:I:3081:G:N2	2.05	0.90
9:I:3231:G:H2'	9:I:3232:G:C1'	2.02	0.90
9:I:3352:A:N6	9:I:3378:G:N3	2.20	0.90
9:I:3698:G:O6	9:I:3714:U:O2	1.88	0.90
9:I:3869:G:C2	9:I:3871:A:H5''	2.06	0.90
9:I:3913:U:H5''	34:j:19:THR:CB	2.02	0.90
9:I:4127:G:H2'	12:L:64:GLU:OE2	1.71	0.90
9:I:4176:A:H5'	12:L:12:THR:HA	1.52	0.90
10:J:116:G:H2'	10:J:117:C:C6	2.06	0.90
12:L:5:VAL:HG22	12:L:203:VAL:N	1.85	0.90
12:L:84:LEU:HD13	12:L:89:GLU:CA	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:128:ALA:HA	13:M:156:ASN:OD1	1.72	0.90
17:S:110:GLU:CA	17:S:113:MET:HB2	2.01	0.90
3:C:62:GLY:O	9:I:226:G:C6	2.25	0.89
5:E:14:ILE:HG22	5:E:20:ILE:HD13	1.53	0.89
9:I:18:A:H2'	9:I:19:U:C6	2.08	0.89
9:I:572:A:O2'	9:I:573:A:O4'	1.89	0.89
9:I:3071:C:H2'	9:I:3072:U:N1	1.86	0.89
9:I:3336:G:C2	9:I:3392:U:O2	2.25	0.89
9:I:3374:U:H2'	9:I:3375:C:C6	2.05	0.89
10:J:41:C:H4'	14:N:63:LYS:CD	2.02	0.89
11:K:74:PRO:O	11:K:96:LYS:N	2.05	0.89
15:O:126:THR:HG22	15:O:127:GLN:H	1.35	0.89
16:R:18:VAL:O	16:R:57:LEU:HG	1.71	0.89
17:S:73:ASP:HB3	39:o:79:VAL:CB	2.02	0.89
18:T:12:SER:C	18:T:13:LYS:HD2	1.97	0.89
46:v:24:GLY:H	46:v:52:LYS:HA	1.35	0.89
1:A:72:PHE:HB3	9:I:980:U:O2	1.72	0.89
4:D:9:VAL:HG13	4:D:19:VAL:HG12	1.54	0.89
9:I:451:A:N6	9:I:479:U:O2	2.05	0.89
9:I:2700:G:N1	9:I:2734:U:C2	2.40	0.89
9:I:3357:G:H2'	9:I:3358:U:C6	2.07	0.89
9:I:3977:C:H4'	19:U:51:ARG:NH2	1.87	0.89
10:J:62:C:H2'	10:J:63:G:C8	2.07	0.89
21:W:111:LEU:HD12	21:W:141:LEU:HB3	1.52	0.89
38:n:25:LEU:HB2	38:n:38:VAL:HG22	1.50	0.89
43:s:20:ALA:O	43:s:24:MET:N	2.05	0.89
46:v:15:ARG:HG2	46:v:21:VAL:CG1	2.02	0.89
1:A:100:TRP:HE1	9:I:1367:A:H4'	1.37	0.89
4:D:14:MET:HG2	9:I:273:A:C4	2.08	0.89
6:F:4:LYS:NZ	9:I:1312:U:OP2	2.05	0.89
7:G:33:VAL:HG11	7:G:77:LEU:HD13	1.54	0.89
9:I:151:A:N6	9:I:168:C:O2	2.05	0.89
9:I:1524:G:H2'	9:I:1525:U:C6	2.07	0.89
9:I:1530:G:H2'	9:I:1531:C:C6	2.07	0.89
9:I:1906:G:H2'	9:I:1907:G:H8	1.36	0.89
9:I:2020:G:OP1	42:r:25:ARG:NH1	2.05	0.89
9:I:3978:G:C1'	19:U:123:LYS:HD2	2.00	0.89
9:I:4342:G:O2'	39:o:92:ARG:O	1.91	0.89
13:M:147:LEU:HB2	13:M:183:PHE:HB2	1.52	0.89
14:N:35:LEU:HD11	14:N:98:PHE:CZ	2.08	0.89
17:S:5:GLN:N	17:S:21:CYS:O	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:93:ILE:HG22	41:q:40:MET:CE	2.02	0.89
42:r:29:VAL:HG21	42:r:66:ILE:HG22	1.53	0.89
42:r:56:ALA:O	42:r:59:GLU:N	2.04	0.89
9:I:493:G:C2'	9:I:495:A:H1'	2.01	0.89
9:I:672:A:H2'	9:I:673:G:C8	2.08	0.89
9:I:682:G:H1	9:I:706:U:H3	1.11	0.89
9:I:1004:A:N6	9:I:1023:G:O2'	2.05	0.89
9:I:1346:G:O2'	9:I:1372:G:O6	1.89	0.89
9:I:1491:G:O2'	9:I:1492:C:H5'	1.71	0.89
9:I:1908:G:H1	9:I:1919:U:H3	0.91	0.89
9:I:1910:G:H5''	9:I:1911:G:H5'	1.54	0.89
9:I:2192:C:OP1	11:K:38:LYS:NZ	2.05	0.89
9:I:2805:G:H21	9:I:3097:A:H62	1.21	0.89
9:I:3222:C:H2'	9:I:3224:C:O2	1.71	0.89
10:J:17:G:N1	10:J:64:U:N3	2.19	0.89
11:K:106:PRO:HD2	11:K:109:LEU:HD13	1.54	0.89
12:L:15:PHE:O	39:o:11:GLN:NE2	2.06	0.89
18:T:108:ALA:HB3	18:T:125:LEU:CD2	2.02	0.89
19:U:96:ILE:HG21	19:U:102:LEU:HD21	1.53	0.89
21:W:155:PRO:HG2	21:W:178:ILE:HD13	1.52	0.89
38:n:13:ALA:HB1	38:n:92:ASP:OD1	1.72	0.89
39:o:25:VAL:HG23	39:o:60:VAL:HA	1.51	0.89
39:o:64:SER:CB	39:o:68:GLY:HA2	2.01	0.89
41:q:49:ILE:HG22	41:q:53:PHE:C	1.98	0.89
43:s:19:LYS:O	43:s:23:ALA:N	2.05	0.89
43:s:56:GLU:OE2	43:s:88:LYS:HA	1.72	0.89
9:I:217:U:H2'	9:I:218:U:O4'	1.73	0.89
9:I:664:A:H1'	9:I:732:G:H5'	1.53	0.89
9:I:897:G:N2	9:I:900:A:OP2	2.04	0.89
9:I:1060:G:C5'	29:e:57:ALA:HB2	2.02	0.89
9:I:1487:U:H1'	9:I:4303:A:N6	1.87	0.89
9:I:1639:U:H1'	9:I:1641:G:H1	1.38	0.89
9:I:1968:G:N7	35:k:39:ARG:NH2	2.21	0.89
9:I:3338:C:O3'	11:K:255:LYS:NZ	2.06	0.89
9:I:3712:G:OP1	47:w:44:ARG:NH1	2.05	0.89
9:I:3779:C:H2'	9:I:3781:A:C8	2.07	0.89
11:K:128:THR:HG23	11:K:189:ALA:O	1.72	0.89
12:L:13:ARG:HA	12:L:23:PRO:HA	1.53	0.89
16:R:36:LEU:CG	16:R:54:ILE:HD12	2.00	0.89
19:U:119:LEU:CD1	19:U:123:LYS:HE2	2.01	0.89
28:d:92:ARG:O	28:d:96:ARG:N	2.04	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:f:5:SER:HA	30:f:68:LYS:H	1.36	0.89
37:m:2:LYS:HG3	37:m:35:GLN:CB	2.02	0.89
44:t:85:ARG:NH2	44:t:93:ARG:O	2.04	0.89
1:A:88:MET:HE1	29:e:49:ILE:HG13	1.55	0.89
3:C:20:VAL:HG12	3:C:35:ARG:HA	1.54	0.89
9:I:380:C:H2'	9:I:381:A:O4'	1.71	0.89
9:I:2544:A:N6	9:I:2603:C:H1'	1.88	0.89
9:I:3421:A:H2'	9:I:3422:A:C8	2.08	0.89
9:I:3770:G:C2'	9:I:3771:G:H5'	2.03	0.89
9:I:4256:C:H2'	9:I:4257:G:C8	2.07	0.89
11:K:171:VAL:N	11:K:183:VAL:O	2.05	0.89
12:L:113:SER:OG	12:L:167:ASN:N	2.06	0.89
14:N:151:LEU:CG	14:N:153:ILE:HD11	2.02	0.89
29:e:6:LEU:HB2	29:e:68:ARG:HB2	1.53	0.89
38:n:15:ARG:NH1	38:n:18:GLN:OE1	2.06	0.89
47:w:39:VAL:HG22	47:w:44:ARG:C	1.98	0.89
2:B:88:ARG:HH21	9:I:2213:G:H3'	1.36	0.89
9:I:738:C:OP1	25:a:2:ARG:NH2	2.05	0.89
9:I:1076:G:N2	9:I:1079:A:OP2	2.05	0.89
9:I:1411:C:H2'	9:I:1412:A:C8	2.08	0.89
9:I:1809:A:O2'	9:I:1829:G:O2'	1.84	0.89
9:I:2542:A:H1'	9:I:2606:G:H21	1.37	0.89
9:I:3176:G:C2	9:I:3251:A:H1'	2.08	0.89
9:I:3358:U:O2	9:I:3372:G:N1	2.05	0.89
9:I:3797:G:O3'	14:N:120:SER:HA	1.73	0.89
9:I:3820:C:H1'	9:I:3821:A:N7	1.88	0.89
9:I:3827:A:H4'	9:I:3828:U:C2'	2.01	0.89
9:I:4018:G:C2'	9:I:4019:G:H5'	2.02	0.89
11:K:162:GLN:NE2	11:K:174:ARG:O	2.06	0.89
12:L:39:ASP:O	12:L:44:GLY:N	2.05	0.89
12:L:51:THR:HB	12:L:79:LEU:HD23	1.55	0.89
13:M:24:ASN:HB3	13:M:27:LEU:CB	2.01	0.89
13:M:129:PRO:HD3	13:M:156:ASN:HA	1.55	0.89
14:N:43:ILE:HD13	14:N:78:ILE:CG2	2.03	0.89
21:W:26:PRO:O	21:W:42:LYS:NZ	2.03	0.89
38:n:89:VAL:HG23	38:n:116:PHE:CE2	2.06	0.89
47:w:67:LEU:O	47:w:71:ARG:HG2	1.72	0.89
49:y:26:LEU:HG	49:y:46:MET:HE2	1.53	0.89
9:I:228:U:O2'	9:I:229:G:OP1	1.89	0.89
9:I:1063:G:H21	9:I:1189:G:H1'	1.38	0.89
9:I:1199:C:OP1	9:I:1200:A:O2'	1.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1324:C:H2'	9:I:1325:U:C6	2.08	0.89
9:I:1472:G:H5'	39:o:2:ASN:HD21	1.38	0.89
9:I:1631:A:H3'	9:I:1632:G:H8	1.37	0.89
9:I:1650:U:H2'	9:I:1651:C:C6	2.08	0.89
9:I:1712:G:H2'	9:I:1713:A:H8	1.38	0.89
9:I:1901:A:H2'	9:I:1902:A:N1	1.86	0.89
9:I:2421:A:H2'	9:I:2422:A:C8	2.07	0.89
9:I:2932:U:H3	9:I:3047:A:H62	1.12	0.89
9:I:3246:C:H2'	9:I:3247:G:N7	1.88	0.89
9:I:3965:A:H2'	9:I:3966:G:C1'	2.03	0.89
9:I:4085:C:OP1	11:K:237:ARG:NH1	2.05	0.89
9:I:4237:U:O4	9:I:4255:A:N6	2.04	0.89
11:K:76:VAL:O	11:K:94:LEU:N	2.06	0.89
17:S:34:GLY:N	17:S:37:ASP:OD2	2.06	0.89
26:b:129:ASN:HA	26:b:134:VAL:HG11	1.53	0.89
43:s:62:VAL:O	43:s:64:LYS:NZ	2.06	0.89
46:v:11:LEU:HD23	46:v:29:ARG:HH11	1.37	0.89
1:A:16:ALA:HA	1:A:54:SER:O	1.72	0.89
1:A:27:LYS:HE3	1:A:47:LEU:HD12	1.53	0.89
8:H:39:LYS:HD2	9:I:4428:C:H3'	1.55	0.89
9:I:1137:G:H2'	9:I:1139:C:H5'	1.55	0.89
9:I:1254:G:N2	9:I:1276:C:O2	2.06	0.89
9:I:1506:A:H2'	9:I:1507:G:H8	1.37	0.89
9:I:1804:U:C2	9:I:1813:G:N1	2.41	0.89
9:I:1834:C:O2'	44:t:81:ARG:NH2	2.06	0.89
9:I:2604:G:O2'	9:I:2605:A:OP2	1.89	0.89
9:I:3043:A:H2'	9:I:3044:C:C6	2.08	0.89
9:I:4041:A:H4'	17:S:29:HIS:HE1	1.37	0.89
12:L:109:VAL:O	12:L:172:VAL:N	2.06	0.89
21:W:97:MET:HG3	21:W:104:VAL:HG11	1.55	0.89
31:g:28:GLN:HG3	31:g:80:LEU:HD21	1.54	0.89
32:h:88:LEU:HD23	32:h:91:ARG:HH21	1.38	0.89
47:w:54:GLY:O	47:w:58:ILE:N	2.06	0.89
48:x:56:LEU:HA	48:x:59:LYS:HB3	1.54	0.89
4:D:37:ARG:HG3	9:I:279:C:C2'	2.00	0.89
9:I:67:G:N2	9:I:151:A:O2'	2.06	0.89
9:I:1979:A:H4'	9:I:1980:A:OP1	1.72	0.89
9:I:2053:G:H2'	9:I:2054:U:H6	1.36	0.89
9:I:2700:G:O6	9:I:2734:U:C4	2.26	0.89
9:I:3233:A:H2'	9:I:3234:G:O4'	1.73	0.89
9:I:3311:G:O5'	11:K:155:ARG:NH1	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3679:U:H3'	9:I:3680:G:C8	2.08	0.89
10:J:56:A:P	14:N:22:ASN:HD21	1.95	0.89
10:J:58:A:H2'	10:J:59:C:C6	2.07	0.89
12:L:1:MET:HE2	12:L:205:PRO:CG	2.01	0.89
12:L:1:MET:HG3	12:L:205:PRO:HG2	1.54	0.89
19:U:13:HIS:O	19:U:71:LYS:NZ	2.06	0.89
24:Z:5:LYS:NZ	24:Z:107:GLU:OE2	2.06	0.89
27:c:51:GLU:N	27:c:57:GLU:O	2.06	0.89
42:r:25:ARG:HA	42:r:71:VAL:HG11	1.55	0.89
9:I:2992:C:H2'	9:I:2993:C:C6	2.07	0.88
9:I:3215:G:H2'	9:I:3232:G:N2	1.86	0.88
9:I:4130:C:H4'	12:L:81:GLU:OE2	1.72	0.88
14:N:95:MET:HA	14:N:98:PHE:HB3	1.54	0.88
16:R:49:ASP:OD2	16:R:114:LEU:HD11	1.73	0.88
19:U:44:ARG:HD2	19:U:44:ARG:H	1.38	0.88
44:t:65:GLN:O	44:t:69:VAL:HG13	1.72	0.88
46:v:58:LYS:HB2	46:v:73:GLU:HG3	1.53	0.88
9:I:504:G:H2'	9:I:505:G:H8	1.37	0.88
9:I:618:U:H2'	9:I:619:C:H5'	1.55	0.88
9:I:1637:U:H3	9:I:1643:C:N4	1.70	0.88
9:I:2955:C:P	9:I:2955:C:H3'	2.12	0.88
9:I:3294:C:C4'	9:I:3296:A:H5'	2.03	0.88
9:I:3593:U:H3	9:I:3684:G:H1	0.89	0.88
9:I:3819:G:C2'	9:I:3820:C:H5'	2.02	0.88
9:I:4161:C:O2	15:O:108:PHE:HB3	1.72	0.88
9:I:4186:G:N3	9:I:4341:U:O2'	2.05	0.88
11:K:63:ILE:CG2	11:K:101:ARG:HH22	1.86	0.88
13:M:154:ASP:HB3	13:M:157:LEU:HB2	1.55	0.88
22:X:154:GLY:HA2	22:X:162:ALA:HB1	1.55	0.88
23:Y:10:LEU:CD1	23:Y:62:ARG:HG2	2.03	0.88
45:u:20:LEU:HA	45:u:23:ALA:CB	2.03	0.88
9:I:18:A:H2'	9:I:19:U:H6	1.35	0.88
9:I:950:G:OP2	32:h:100:ARG:NH2	2.07	0.88
9:I:2145:C:H3'	9:I:2147:G:C8	2.08	0.88
23:Y:99:ASN:OD1	23:Y:110:ARG:NH1	2.05	0.88
29:e:5:ARG:HE	29:e:67:LEU:HD12	1.34	0.88
1:A:8:ARG:N	9:I:1216:C:OP1	2.06	0.88
3:C:60:TRP:CE3	3:C:65:ALA:HB2	2.08	0.88
9:I:400:C:O2'	9:I:620:A:N3	2.07	0.88
9:I:1307:U:H2'	9:I:1308:G:H8	1.38	0.88
9:I:1611:A:H2'	9:I:1612:U:C6	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1660:A:N6	9:I:1667:A:H1'	1.89	0.88
9:I:2677:U:H2'	9:I:2678:U:H6	1.39	0.88
9:I:2789:C:H5''	20:V:71:ARG:CD	2.02	0.88
9:I:2919:G:H2'	9:I:2920:G:N9	1.88	0.88
10:J:76:U:O2	10:J:98:A:N7	2.05	0.88
13:M:48:THR:N	13:M:51:GLU:OE2	2.06	0.88
13:M:194:LYS:HA	13:M:197:GLU:OE1	1.72	0.88
17:S:11:ALA:HB3	17:S:85:VAL:HG22	1.53	0.88
17:S:43:ILE:HD12	17:S:52:VAL:HG21	1.55	0.88
27:c:29:SER:O	27:c:33:VAL:N	2.06	0.88
31:g:109:ARG:NH2	31:g:111:GLN:O	2.06	0.88
34:j:9:VAL:HG22	34:j:17:PHE:CG	2.08	0.88
46:v:30:GLN:HB2	46:v:34:LYS:HB2	1.55	0.88
6:F:20:ALA:HB3	6:F:42:MET:HE1	1.53	0.88
9:I:1506:A:H2'	9:I:1507:G:C8	2.09	0.88
9:I:1577:G:O3'	48:x:6:ARG:NH2	2.06	0.88
9:I:2647:C:H2'	9:I:2648:G:O4'	1.73	0.88
9:I:2858:G:OP1	47:w:2:ARG:NH2	2.06	0.88
9:I:3231:G:H2'	9:I:3232:G:H1'	1.55	0.88
9:I:3849:G:O3'	46:v:14:LYS:NZ	2.06	0.88
9:I:3964:G:O6	9:I:3970:A:O2'	1.90	0.88
9:I:4234:A:O2'	9:I:4235:A:H5'	1.73	0.88
9:I:4370:C:H2'	9:I:4371:C:C6	2.08	0.88
11:K:143:VAL:HG22	11:K:189:ALA:HB1	1.53	0.88
13:M:149:ILE:HB	13:M:188:MET:CA	2.03	0.88
15:O:3:VAL:CG1	15:O:68:ARG:HB3	2.02	0.88
20:V:24:MET:HA	20:V:27:SER:HB2	1.53	0.88
27:c:86:LYS:HE3	27:c:91:LEU:HA	1.55	0.88
28:d:4:TYR:HA	28:d:16:VAL:O	1.73	0.88
31:g:38:THR:HB	31:g:48:LEU:HB3	1.55	0.88
33:i:24:VAL:HG13	33:i:25:THR:H	1.38	0.88
38:n:104:ALA:O	38:n:108:ALA:N	2.05	0.88
43:s:67:VAL:O	43:s:68:LYS:HD3	1.74	0.88
48:x:13:LEU:HD13	48:x:52:VAL:HG13	1.54	0.88
4:D:14:MET:N	9:I:273:A:O5'	2.06	0.88
9:I:349:G:H2'	9:I:350:G:C8	2.09	0.88
9:I:666:G:H2'	9:I:667:G:H8	1.34	0.88
9:I:851:G:H2'	9:I:852:C:C6	2.09	0.88
9:I:1576:C:H5'	48:x:51:ARG:NH2	1.88	0.88
9:I:1667:A:H2'	9:I:1668:G:O4'	1.73	0.88
9:I:1896:G:H2'	9:I:1897:U:C6	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1912:A:H3'	9:I:1913:C:C6	2.08	0.88
9:I:2138:G:H2'	9:I:2139:U:H6	1.39	0.88
9:I:2359:G:O2'	9:I:2410:G:O6	1.88	0.88
13:M:196:VAL:HG22	13:M:199:MET:HG2	1.53	0.88
15:O:151:ARG:HG2	15:O:160:GLY:HA2	1.55	0.88
18:T:79:LEU:CD1	18:T:112:LEU:HA	2.04	0.88
49:y:2:LYS:O	49:y:3:THR:HG22	1.73	0.88
9:I:945:A:OP1	32:h:106:ARG:NH1	2.07	0.88
9:I:1237:A:N6	9:I:1300:U:O2	2.06	0.88
9:I:1420:G:H2'	9:I:1421:G:H5''	1.56	0.88
9:I:1808:G:H4'	44:t:16:LYS:HE2	1.55	0.88
9:I:1906:G:O2'	9:I:1907:G:H5'	1.74	0.88
9:I:3291:G:O5'	11:K:270:ARG:NH2	2.06	0.88
9:I:3770:G:O2'	9:I:3771:G:H5'	1.74	0.88
9:I:4022:U:O5'	15:O:171:LYS:NZ	2.07	0.88
9:I:4234:A:H2'	9:I:4235:A:C8	2.09	0.88
9:I:4400:C:H2'	9:I:4401:G:C8	2.08	0.88
14:N:117:SER:H	14:N:129:MET:HE2	1.39	0.88
15:O:84:LYS:HG2	15:O:140:ILE:CD1	2.04	0.88
23:Y:154:VAL:HA	23:Y:157:ALA:HB3	1.55	0.88
32:h:33:LEU:HD22	32:h:38:ILE:HB	1.54	0.88
39:o:25:VAL:O	39:o:44:GLY:N	2.06	0.88
40:p:85:ALA:HB1	40:p:111:LYS:HG3	0.90	0.88
44:t:80:ASP:CB	44:t:95:PHE:HB3	2.03	0.88
45:u:7:GLU:HA	45:u:65:VAL:HG13	1.56	0.88
46:v:13:VAL:HG13	46:v:28:VAL:HG12	1.55	0.88
9:I:455:A:H3'	9:I:456:G:H8	1.39	0.88
9:I:491:C:H2'	9:I:492:A:C8	2.09	0.88
9:I:1177:G:OP2	28:d:96:ARG:NE	2.07	0.88
9:I:1432:A:N6	9:I:4371:C:O2	2.06	0.88
9:I:2100:G:H2'	9:I:2101:C:C6	2.09	0.88
9:I:2899:U:H2'	9:I:2900:U:O4'	1.72	0.88
9:I:3609:G:H2'	9:I:3610:G:H5''	1.53	0.88
9:I:3855:G:O2'	9:I:3856:C:H5'	1.74	0.88
9:I:4253:G:N2	15:O:138:GLN:HG3	1.89	0.88
10:J:62:C:H2'	10:J:63:G:H8	1.38	0.88
11:K:5:CYS:SG	11:K:15:VAL:HB	2.13	0.88
11:K:119:VAL:HA	11:K:129:LEU:HD12	1.55	0.88
12:L:84:LEU:CD1	12:L:89:GLU:HA	2.00	0.88
18:T:79:LEU:HA	18:T:82:LEU:HD23	1.55	0.88
19:U:41:LEU:O	19:U:46:ILE:HD11	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:2:LYS:NZ	38:n:3:LYS:HD3	1.89	0.88
41:q:25:LEU:HB2	41:q:94:THR:HG21	1.53	0.88
2:B:28:VAL:O	2:B:32:THR:N	2.06	0.88
4:D:9:VAL:HG13	4:D:19:VAL:CG1	2.04	0.88
9:I:44:G:H2'	9:I:45:G:C8	2.08	0.88
9:I:403:G:O2'	9:I:497:A:N1	2.06	0.88
9:I:1584:A:O2'	9:I:1599:U:O2	1.92	0.88
9:I:2531:G:H2'	9:I:2532:G:C8	2.08	0.88
9:I:2536:G:H1	9:I:2607:U:H3	1.03	0.88
9:I:2970:U:H2'	9:I:2971:A:O4'	1.73	0.88
9:I:3294:C:OP2	11:K:181:ARG:NH2	2.06	0.88
9:I:4131:U:OP1	12:L:83:ARG:NH1	2.06	0.88
10:J:12:G:N2	10:J:68:G:O2'	2.07	0.88
11:K:105:ALA:CB	11:K:109:LEU:HD22	2.03	0.88
11:K:226:PRO:HG3	11:K:233:GLY:H	1.38	0.88
12:L:5:VAL:CG2	12:L:202:ILE:HA	2.04	0.88
12:L:34:VAL:HG22	12:L:50:VAL:HG12	1.56	0.88
14:N:35:LEU:HA	14:N:153:ILE:HD12	1.55	0.88
14:N:43:ILE:HG23	14:N:84:ILE:HD13	1.54	0.88
16:R:23:LYS:HB3	16:R:28:LEU:HB2	1.53	0.88
24:Z:73:GLN:HG2	24:Z:141:PRO:HD3	1.56	0.88
26:b:25:PHE:CD1	26:b:100:MET:HB3	2.09	0.88
34:j:6:ILE:N	34:j:20:THR:O	2.06	0.88
37:m:30:GLU:HB3	37:m:33:HIS:CE1	2.09	0.88
44:t:43:LYS:HG3	44:t:58:VAL:HB	1.56	0.88
5:E:5:LYS:HD3	25:a:7:VAL:HG21	1.54	0.88
9:I:373:A:H2'	9:I:374:U:C6	2.09	0.88
9:I:972:G:OP2	9:I:973:A:O2'	1.92	0.88
9:I:1107:G:OP1	22:X:175:HIS:ND1	2.07	0.88
9:I:1475:A:O5'	9:I:4329:A:N6	2.07	0.88
9:I:1683:C:H42	9:I:1714:G:H1	1.20	0.88
9:I:1825:G:N2	9:I:1837:C:O2	2.07	0.88
9:I:1837:C:H5''	44:t:1:ALA:HB1	1.53	0.88
9:I:2807:U:O2'	9:I:2808:C:OP1	1.92	0.88
9:I:3554:A:H62	13:M:69:ARG:HH22	1.22	0.88
9:I:3966:G:O6	9:I:3969:C:H3'	1.72	0.88
32:h:102:LYS:HG2	32:h:103:THR:HG23	1.55	0.88
40:p:61:ILE:HD11	40:p:91:ARG:HG2	1.56	0.88
46:v:20:SER:HA	46:v:56:LYS:HA	1.55	0.88
5:E:1:GLU:O	5:E:35:GLN:HB3	1.74	0.87
9:I:1268:A:O2'	9:I:1324:C:O2	1.91	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1405:U:H1'	9:I:4421:G:H21	1.38	0.87
9:I:1444:U:O2	9:I:4361:G:O6	1.93	0.87
9:I:1639:U:O3'	9:I:1640:C:H4'	1.73	0.87
9:I:3147:G:O2'	20:V:9:GLN:NE2	2.07	0.87
9:I:3209:G:N2	9:I:3238:A:OP2	2.07	0.87
9:I:3285:A:H5''	11:K:204:LEU:HG	1.52	0.87
9:I:3315:A:H2'	9:I:3316:C:H6	1.36	0.87
9:I:3335:U:O2'	9:I:3336:G:H5'	1.74	0.87
9:I:3720:C:H2'	9:I:3721:A:O4'	1.74	0.87
9:I:3849:G:O4'	46:v:26:ILE:HD12	1.73	0.87
13:M:102:ARG:CA	13:M:200:LEU:HD22	2.04	0.87
14:N:37:MET:SD	14:N:39:VAL:HB	2.13	0.87
14:N:90:LEU:HD12	14:N:98:PHE:HB2	1.56	0.87
15:O:115:GLN:NE2	15:O:116:LEU:O	2.07	0.87
3:C:31:ARG:NH1	9:I:310:C:O3'	2.06	0.87
8:H:39:LYS:CD	9:I:4428:C:H3'	2.02	0.87
9:I:673:G:O2'	9:I:674:A:O5'	1.90	0.87
9:I:698:C:H2'	9:I:699:G:H8	1.39	0.87
9:I:728:A:H2'	9:I:729:G:C8	2.09	0.87
9:I:2524:C:O2'	9:I:2525:G:H5'	1.75	0.87
9:I:3028:U:H2'	9:I:3030:C:C4	2.08	0.87
9:I:4221:A:O2'	17:S:70:ARG:NH2	2.06	0.87
9:I:4223:G:O3'	12:L:190:LYS:HE2	1.72	0.87
13:M:124:PHE:CE2	13:M:148:ILE:HG21	2.09	0.87
20:V:2:ARG:O	20:V:2:ARG:HG2	1.73	0.87
25:a:55:HIS:O	25:a:56:LYS:HG2	1.73	0.87
41:q:34:GLU:HA	41:q:59:ILE:O	1.74	0.87
44:t:85:ARG:CZ	44:t:94:PHE:HB3	2.05	0.87
2:B:45:HIS:O	2:B:47:LYS:NZ	2.05	0.87
5:E:5:LYS:HE3	25:a:61:LEU:HD22	1.53	0.87
9:I:294:C:H2'	9:I:295:U:C6	2.09	0.87
9:I:1213:C:O2'	9:I:1214:G:O4'	1.92	0.87
9:I:1492:C:H2'	9:I:1493:U:H6	1.38	0.87
9:I:1820:A:C8	13:M:132:LYS:HD2	2.09	0.87
9:I:2319:A:O2'	9:I:2320:A:H5'	1.75	0.87
9:I:2507:C:C2'	9:I:2508:A:H5'	2.03	0.87
9:I:2993:C:H2'	9:I:2994:G:C8	2.09	0.87
9:I:3799:U:H2'	9:I:3800:C:O4'	1.73	0.87
9:I:3895:U:O4	9:I:3909:G:O6	1.92	0.87
9:I:4266:C:H5'	12:L:173:GLN:HE22	1.37	0.87
12:L:52:THR:HG22	12:L:80:TRP:HH2	1.36	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:51:PHE:HZ	15:O:71:LEU:HB3	1.38	0.87
17:S:108:ARG:NH2	39:o:33:GLU:OE1	2.07	0.87
26:b:11:ILE:HG21	26:b:27:ASN:OD1	1.74	0.87
40:p:61:ILE:HG23	40:p:75:TYR:HE2	1.37	0.87
2:B:17:ASP:OD2	2:B:18:ALA:N	2.06	0.87
9:I:517:C:H2'	9:I:529:G:C8	2.08	0.87
9:I:1272:C:H2'	9:I:1273:A:O4'	1.74	0.87
9:I:2970:U:N3	9:I:3009:A:N6	2.02	0.87
9:I:3132:C:O2'	9:I:4193:C:O4'	1.90	0.87
9:I:3211:A:OP2	9:I:3237:G:N2	2.07	0.87
9:I:3774:G:O2'	9:I:3882:A:N1	2.07	0.87
9:I:3848:C:O2'	46:v:26:ILE:N	2.06	0.87
15:O:67:ALA:O	15:O:71:LEU:N	2.06	0.87
17:S:113:MET:HA	17:S:116:ILE:HG12	1.53	0.87
18:T:131:ALA:O	18:T:135:ILE:N	2.07	0.87
19:U:34:LYS:HE3	19:U:101:VAL:HG22	1.54	0.87
20:V:42:LYS:HE3	20:V:45:ARG:CZ	2.03	0.87
21:W:63:LYS:NZ	21:W:151:MET:O	2.08	0.87
21:W:93:TRP:HZ2	21:W:98:LEU:HG	1.39	0.87
45:u:5:ASN:O	45:u:42:LEU:HA	1.73	0.87
9:I:581:C:O2	9:I:758:A:N6	2.07	0.87
9:I:780:A:H3'	9:I:781:A:C8	2.10	0.87
9:I:1350:U:O4	28:d:117:LYS:NZ	2.07	0.87
9:I:1690:A:O2'	9:I:1691:A:O5'	1.92	0.87
9:I:2148:G:H2'	9:I:2149:G:C8	2.09	0.87
9:I:2678:U:O2'	9:I:2679:G:H5'	1.75	0.87
9:I:3293:G:O2'	11:K:181:ARG:HD3	1.74	0.87
9:I:4174:U:H4'	12:L:11:MET:HE1	1.57	0.87
9:I:4312:U:N3	9:I:4322:G:O6	2.07	0.87
10:J:8:G:O6	10:J:110:U:O2	1.92	0.87
16:R:15:TRP:HB2	16:R:137:PRO:HG3	1.56	0.87
39:o:22:GLY:N	39:o:46:VAL:O	2.06	0.87
39:o:92:ARG:HH12	39:o:112:ARG:HH12	1.22	0.87
43:s:33:LYS:HD2	43:s:81:LYS:O	1.74	0.87
8:H:39:LYS:HD2	9:I:4429:G:OP2	1.75	0.87
9:I:459:A:H2'	9:I:460:A:H8	1.38	0.87
9:I:664:A:N3	9:I:731:C:H2'	1.89	0.87
9:I:1666:U:H2'	9:I:1667:A:C8	2.09	0.87
9:I:2634:C:H4'	16:R:27:ARG:HH21	1.38	0.87
9:I:2757:U:OP1	33:i:12:ARG:NH1	2.08	0.87
9:I:2975:U:N3	9:I:3004:G:N1	2.22	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:4:LEU:HD22	12:L:98:VAL:HG23	1.57	0.87
13:M:19:PHE:HE1	13:M:109:LEU:HD21	1.39	0.87
19:U:38:ARG:HG3	19:U:98:PRO:HD3	1.54	0.87
19:U:95:LEU:O	19:U:96:ILE:HD13	1.73	0.87
37:m:23:ILE:N	37:m:37:GLN:HB2	1.89	0.87
46:v:16:PHE:HA	46:v:59:PHE:CE1	2.09	0.87
49:y:27:GLY:HA3	49:y:37:ARG:HH21	1.40	0.87
2:B:66:LEU:HD23	2:B:81:ILE:HG22	1.56	0.87
5:E:22:PRO:HA	9:I:718:C:C4'	2.05	0.87
9:I:7:A:N3	24:Z:103:ARG:NH2	2.23	0.87
9:I:337:A:H2'	9:I:338:C:C6	2.10	0.87
9:I:403:G:H4'	9:I:438:U:O2	1.74	0.87
9:I:675:A:H5''	30:f:103:PRO:HB3	1.56	0.87
9:I:1129:A:OP1	28:d:15:ARG:NH1	2.07	0.87
9:I:1376:A:O2'	9:I:1378:G:N7	2.08	0.87
9:I:1642:A:O2'	9:I:1643:C:O4'	1.90	0.87
9:I:1809:A:H4'	44:t:16:LYS:CA	2.05	0.87
9:I:1915:A:H2'	9:I:1916:U:C6	2.08	0.87
9:I:1959:U:O3'	43:s:73:ARG:NH1	2.06	0.87
9:I:1980:A:O4'	44:t:41:VAL:HB	1.75	0.87
9:I:2317:C:H2'	9:I:2318:G:O4'	1.75	0.87
9:I:3772:A:OP2	19:U:10:ARG:NH2	2.07	0.87
9:I:4273:U:H4'	9:I:4274:G:H5''	1.56	0.87
20:V:25:ALA:HB3	20:V:70:THR:CB	2.05	0.87
35:k:9:VAL:HG13	35:k:10:LEU:HD22	1.57	0.87
38:n:25:LEU:HD22	38:n:114:LEU:HD21	1.56	0.87
48:x:1:LYS:HD3	48:x:48:ASP:CA	2.03	0.87
49:y:30:ARG:HG2	49:y:33:HIS:HB2	1.57	0.87
3:C:63:GLN:HA	9:I:226:G:C5	2.08	0.87
9:I:1328:A:H5''	32:h:25:GLY:H	1.38	0.87
9:I:2490:A:O2'	40:p:90:ASP:OD2	1.91	0.87
9:I:3008:G:O3'	9:I:3051:C:H4'	1.74	0.87
9:I:3222:C:H1'	9:I:3227:G:N1	1.90	0.87
9:I:3806:U:H2'	9:I:3807:C:C6	2.08	0.87
9:I:3919:A:H5''	9:I:3920:A:H3'	1.57	0.87
11:K:174:ARG:HG3	11:K:178:GLY:C	2.00	0.87
12:L:51:THR:HB	12:L:79:LEU:CD2	2.05	0.87
16:R:35:ARG:HE	16:R:142:ILE:HD13	1.36	0.87
17:S:18:ARG:HB2	17:S:45:GLU:HG3	1.57	0.87
38:n:39:ILE:HA	38:n:47:LEU:HB2	1.54	0.87
42:r:56:ALA:HA	42:r:59:GLU:HB2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:20:VAL:HG21	4:D:58:ILE:HG21	1.55	0.87
9:I:931:C:C5'	26:b:3:ARG:HB2	2.04	0.87
9:I:1175:A:H2'	9:I:1176:G:O4'	1.75	0.87
9:I:1489:A:H62	9:I:4283:C:H2'	1.39	0.87
9:I:1804:U:N3	9:I:1813:G:C6	2.43	0.87
9:I:2155:A:H1'	9:I:2156:G:C8	2.09	0.87
9:I:2309:G:H2'	9:I:2310:U:C6	2.10	0.87
9:I:2370:U:O2	9:I:2401:G:O6	1.92	0.87
9:I:2462:C:H2'	9:I:2463:G:H8	1.38	0.87
9:I:2487:G:H2'	9:I:2488:C:C6	2.10	0.87
9:I:4235:A:N6	9:I:4257:G:H1'	1.90	0.87
10:J:48:C:OP1	38:n:29:ARG:HD3	1.75	0.87
13:M:98:LYS:HD3	13:M:102:ARG:HH22	1.40	0.87
14:N:73:VAL:HG23	14:N:76:PHE:HB2	1.54	0.87
18:T:83:ALA:HA	18:T:118:THR:CB	2.05	0.87
44:t:45:GLN:HB2	44:t:58:VAL:CG2	2.04	0.87
9:I:156:U:H2'	9:I:157:G:H5'	1.55	0.86
9:I:184:U:H2'	9:I:185:C:H6	1.40	0.86
9:I:982:A:O2'	9:I:1049:G:OP1	1.92	0.86
9:I:1096:C:H1'	9:I:1169:A:H1'	1.56	0.86
9:I:1603:A:C2	9:I:1604:A:H1'	2.10	0.86
9:I:1787:G:O6	9:I:1853:C:N4	2.08	0.86
9:I:2350:U:O4	9:I:2421:A:N6	2.06	0.86
9:I:2528:G:H2'	9:I:2529:U:O4'	1.73	0.86
9:I:2859:A:O2'	47:w:10:ARG:NH1	2.07	0.86
9:I:2902:G:N2	9:I:3088:U:O2	2.07	0.86
9:I:3805:A:C2	14:N:76:PHE:HB3	2.10	0.86
9:I:3949:G:H2'	9:I:3950:C:H6	1.37	0.86
9:I:4010:A:O2'	9:I:4011:C:H5'	1.75	0.86
15:O:136:ASP:OD2	15:O:139:VAL:HG23	1.75	0.86
32:h:89:ARG:HG3	32:h:96:VAL:HG22	1.57	0.86
38:n:67:LYS:HG3	38:n:101:ARG:HG2	1.56	0.86
46:v:62:LYS:HD2	46:v:69:PHE:CB	2.05	0.86
8:H:36:PHE:N	30:f:112:PRO:HB3	1.90	0.86
9:I:322:U:H3	9:I:326:A:H62	0.89	0.86
9:I:504:G:H2'	9:I:505:G:C8	2.10	0.86
9:I:539:G:N2	23:Y:39:GLN:OE1	2.06	0.86
9:I:665:G:OP2	9:I:724:G:N2	2.08	0.86
9:I:742:A:H2'	9:I:743:C:C6	2.10	0.86
9:I:1178:A:C4'	28:d:102:THR:HA	2.04	0.86
9:I:1486:G:H3'	9:I:4302:G:N2	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1700:U:O2	9:I:1886:G:N2	2.08	0.86
9:I:1785:G:N1	9:I:1855:U:O2	2.08	0.86
10:J:98:A:H2'	10:J:99:G:C8	2.11	0.86
11:K:77:VAL:HG22	11:K:92:LEU:C	2.00	0.86
11:K:154:ALA:CB	11:K:176:ARG:HB2	2.05	0.86
13:M:112:LEU:HD11	13:M:181:ILE:HD13	1.57	0.86
25:a:6:ILE:HD12	25:a:64:VAL:HG11	1.56	0.86
44:t:93:ARG:HH21	44:t:102:ILE:HG21	1.37	0.86
47:w:53:LYS:O	47:w:57:VAL:HG22	1.75	0.86
9:I:80:A:N6	9:I:87:U:O4	2.07	0.86
9:I:115:A:H2'	9:I:116:G:O4'	1.75	0.86
9:I:1304:G:O2'	9:I:1331:A:N6	2.08	0.86
9:I:1857:C:H2'	9:I:1858:U:C6	2.09	0.86
9:I:2963:A:H2'	9:I:2964:A:C8	2.09	0.86
9:I:2991:U:OP2	9:I:2992:C:N4	2.07	0.86
9:I:4333:G:O2'	20:V:92:GLY:HA3	1.76	0.86
13:M:108:ILE:CD1	13:M:177:PRO:HB3	2.05	0.86
19:U:24:THR:O	19:U:34:LYS:NZ	2.07	0.86
25:a:45:ARG:O	25:a:57:ALA:N	2.08	0.86
43:s:30:ILE:H	43:s:87:LEU:HD21	1.39	0.86
45:u:29:ILE:HD11	45:u:37:PRO:C	2.00	0.86
2:B:44:GLU:HG2	2:B:45:HIS:H	1.37	0.86
8:H:32:ARG:O	30:f:112:PRO:HG2	1.76	0.86
9:I:598:C:H5''	27:c:87:ARG:HG2	1.57	0.86
9:I:673:G:N2	30:f:106:HIS:HB2	1.88	0.86
9:I:713:G:H1'	9:I:776:A:C8	2.11	0.86
9:I:903:U:H2'	9:I:904:U:C6	2.09	0.86
9:I:1057:G:H2'	9:I:1058:C:O4'	1.75	0.86
9:I:2383:G:N1	9:I:2388:U:O2	2.08	0.86
9:I:3712:G:H5'	47:w:44:ARG:HH22	1.39	0.86
9:I:3839:G:H4'	9:I:3840:A:C5'	2.03	0.86
9:I:4187:G:N3	39:o:93:LYS:NZ	2.22	0.86
9:I:4324:C:O2'	9:I:4325:G:H5'	1.74	0.86
11:K:268:ARG:HD3	11:K:269:ARG:O	1.75	0.86
12:L:13:ARG:HG3	12:L:23:PRO:HG3	1.55	0.86
12:L:22:ILE:HG21	12:L:178:VAL:HG11	1.57	0.86
19:U:33:LEU:HD12	19:U:129:THR:C	1.99	0.86
20:V:99:LYS:O	33:i:42:ILE:HG12	1.76	0.86
37:m:22:VAL:HG12	37:m:37:GLN:CB	2.05	0.86
1:A:19:TYR:HB2	1:A:54:SER:HB3	1.56	0.86
2:B:80:LEU:O	2:B:84:LEU:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:14:MET:CE	9:I:274:G:H1'	2.05	0.86
9:I:459:A:H2'	9:I:460:A:C8	2.10	0.86
9:I:774:G:H3'	9:I:775:G:H8	1.40	0.86
9:I:1366:C:OP1	28:d:114:GLY:N	2.07	0.86
9:I:2141:U:H2'	9:I:2142:U:C2	2.09	0.86
9:I:2422:A:O2'	9:I:2423:U:H5'	1.75	0.86
9:I:2542:A:H1'	9:I:2606:G:N2	1.90	0.86
9:I:2667:U:H2'	9:I:2670:U:H3	1.40	0.86
9:I:3159:A:H2'	9:I:3160:G:O4'	1.73	0.86
9:I:3201:G:H5'	9:I:3250:G:H1'	1.55	0.86
9:I:4238:G:N2	9:I:4239:C:O4'	2.08	0.86
10:J:56:A:C8	14:N:23:SER:HB3	2.10	0.86
11:K:16:VAL:HG12	11:K:202:ARG:HA	1.56	0.86
11:K:119:VAL:HA	11:K:129:LEU:HB2	1.54	0.86
11:K:143:VAL:CB	11:K:153:LEU:HB2	2.05	0.86
11:K:166:ARG:HD2	11:K:167:ASP:N	1.91	0.86
13:M:177:PRO:HA	13:M:180:LEU:HD12	1.57	0.86
15:O:51:PHE:HB3	15:O:64:ALA:HB1	1.57	0.86
16:R:119:PHE:CA	16:R:122:LEU:HD13	2.05	0.86
29:e:36:ILE:HG22	29:e:38:LEU:HD12	1.55	0.86
38:n:69:ALA:HB1	38:n:73:VAL:CG2	2.04	0.86
2:B:38:LEU:HB3	2:B:42:PHE:CE2	2.09	0.86
9:I:23:U:HO2'	9:I:523:G:HO2'	1.19	0.86
9:I:948:A:N7	32:h:104:ASN:ND2	2.24	0.86
9:I:1044:C:C3'	9:I:1045:A:H5''	2.06	0.86
9:I:1590:U:H2'	9:I:1591:A:C8	2.10	0.86
9:I:1635:U:H2'	9:I:1644:A:H61	1.40	0.86
9:I:2307:U:OP1	18:T:36:LYS:NZ	2.08	0.86
9:I:2363:A:O2'	9:I:2364:G:OP1	1.93	0.86
9:I:2609:G:H1'	9:I:2610:G:H5''	1.57	0.86
9:I:3004:G:O2'	9:I:3005:G:O4'	1.92	0.86
9:I:3207:A:H2	9:I:3239:A:H61	1.23	0.86
9:I:3293:G:O6	11:K:177:SER:N	2.07	0.86
9:I:4201:U:H3'	9:I:4202:G:C8	2.11	0.86
11:K:142:ASN:N	11:K:153:LEU:O	2.08	0.86
12:L:32:ASN:O	12:L:96:ILE:N	2.08	0.86
15:O:71:LEU:O	15:O:75:VAL:N	2.07	0.86
16:R:118:MET:HB3	16:R:121:LYS:HZ2	1.41	0.86
22:X:113:LYS:NZ	22:X:185:THR:O	2.07	0.86
25:a:53:LYS:O	25:a:54:LEU:HG	1.75	0.86
26:b:110:ARG:H	26:b:118:ARG:HH21	1.24	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:4:TYR:HB2	5:E:48:LEU:CD1	2.04	0.86
9:I:401:G:H5'	9:I:620:A:H1'	1.58	0.86
9:I:412:G:N2	9:I:428:U:O5'	2.08	0.86
9:I:671:U:O2	9:I:733:G:O6	1.92	0.86
9:I:1244:C:H2'	9:I:1245:A:C8	2.10	0.86
9:I:1725:C:H2'	9:I:1726:A:C8	2.11	0.86
9:I:1999:U:H4'	44:t:42:LYS:HE2	1.57	0.86
9:I:2508:A:H2'	9:I:2509:U:H6	1.38	0.86
9:I:2595:U:H2'	9:I:2596:C:C6	2.11	0.86
9:I:2977:G:O6	9:I:3000:U:O4	1.93	0.86
9:I:3235:C:H2'	9:I:3236:U:C6	2.09	0.86
9:I:3676:U:H2'	9:I:3677:A:C8	2.10	0.86
9:I:3977:C:N3	19:U:123:LYS:NZ	2.23	0.86
10:J:104:G:H2'	10:J:105:G:O4'	1.76	0.86
13:M:129:PRO:HA	13:M:160:ALA:HB2	1.55	0.86
16:R:59:ALA:H	16:R:126:ALA:HA	1.40	0.86
23:Y:167:PRO:HB2	23:Y:170:LEU:HB2	1.57	0.86
24:Z:78:GLY:N	24:Z:85:VAL:O	2.08	0.86
45:u:83:LYS:HB2	45:u:85:LYS:NZ	1.91	0.86
46:v:13:VAL:HG11	46:v:59:PHE:HZ	1.40	0.86
2:B:1:SER:OG	2:B:34:GLN:NE2	2.09	0.86
2:B:11:VAL:HG22	2:B:26:VAL:HG11	1.58	0.86
8:H:5:VAL:HA	30:f:95:ILE:HA	1.58	0.86
9:I:280:G:H4'	9:I:281:A:H5'	1.55	0.86
9:I:665:G:H1	9:I:739:U:H3	0.91	0.86
9:I:780:A:C5'	9:I:799:G:H22	1.89	0.86
9:I:790:G:H22	9:I:4401:G:H4'	1.40	0.86
9:I:2175:A:H2'	9:I:2176:A:C8	2.11	0.86
9:I:2229:G:C8	11:K:206:LYS:HD2	2.10	0.86
9:I:2279:U:H5''	9:I:2280:G:OP2	1.75	0.86
9:I:2491:G:OP1	40:p:90:ASP:HB2	1.75	0.86
9:I:2646:C:H2'	9:I:2647:C:C6	2.11	0.86
9:I:2646:C:H5''	40:p:79:ILE:HB	1.57	0.86
9:I:2847:A:H2'	9:I:2848:A:C8	2.10	0.86
9:I:3043:A:O2'	9:I:3044:C:H5'	1.76	0.86
9:I:3811:A:H2'	9:I:3812:G:H5'	1.58	0.86
9:I:3960:C:H2'	9:I:3961:C:H6	1.40	0.86
9:I:4023:G:OP1	15:O:171:LYS:HD2	1.74	0.86
9:I:4237:U:H3'	9:I:4249:C:N4	1.91	0.86
11:K:197:ALA:O	11:K:200:MET:HG2	1.76	0.86
12:L:25:THR:OG1	12:L:192:ALA:HA	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:6:LYS:HG2	13:M:120:VAL:N	1.89	0.86
14:N:32:LYS:HE3	14:N:156:THR:OG1	1.76	0.86
16:R:38:GLY:O	16:R:41:LYS:N	2.07	0.86
26:b:46:LEU:HA	26:b:49:LEU:HB3	1.57	0.86
41:q:3:ALA:HB1	41:q:38:VAL:CG1	2.05	0.86
46:v:62:LYS:HD2	46:v:69:PHE:HB3	1.55	0.86
9:I:781:A:H4'	9:I:4419:G:H5'	1.56	0.86
9:I:801:A:H3'	9:I:802:G:C8	2.11	0.86
9:I:1077:U:O2	24:Z:126:ASN:ND2	2.08	0.86
9:I:1142:G:H2'	9:I:1143:G:C8	2.11	0.86
9:I:1871:A:O2'	9:I:1872:G:OP2	1.93	0.86
9:I:1897:U:H2'	9:I:1898:C:C6	2.11	0.86
9:I:1991:G:H3'	9:I:1992:A:C8	2.10	0.86
9:I:2956:C:H2'	9:I:2957:C:C6	2.11	0.86
9:I:3692:A:H4'	9:I:3693:A:OP1	1.76	0.86
12:L:5:VAL:HG21	12:L:202:ILE:HA	1.57	0.86
15:O:21:GLN:OE1	15:O:40:VAL:HB	1.75	0.86
17:S:16:ALA:HA	17:S:46:ALA:HA	1.58	0.86
17:S:77:ILE:HG22	39:o:69:VAL:CB	2.06	0.86
25:a:32:ALA:CB	25:a:70:VAL:HG11	2.04	0.86
40:p:50:ARG:HD3	40:p:53:LYS:HZ2	1.41	0.86
43:s:29:THR:HA	43:s:87:LEU:CG	2.00	0.86
44:t:24:VAL:HG11	44:t:33:VAL:HB	1.57	0.86
45:u:18:ARG:HA	45:u:21:ARG:HB2	1.57	0.86
45:u:77:VAL:HG23	45:u:89:ILE:CD1	2.06	0.86
1:A:7:ALA:O	1:A:11:LYS:N	2.07	0.86
3:C:60:TRP:O	3:C:65:ALA:HB3	1.74	0.86
4:D:17:SER:N	9:I:272:U:H4'	1.90	0.86
7:G:10:ILE:O	7:G:14:LYS:N	2.08	0.86
9:I:319:A:HO2'	9:I:1434:G:HO2'	1.20	0.86
9:I:545:A:O2'	9:I:547:G:O2'	1.93	0.86
9:I:691:U:H5''	30:f:115:ARG:NH2	1.91	0.86
9:I:1810:A:OP1	44:t:18:LYS:HB3	1.76	0.86
9:I:1995:G:N2	9:I:1996:G:H1'	1.91	0.86
9:I:2137:A:H5'	18:T:130:GLY:HA3	1.57	0.86
9:I:2144:A:O3'	9:I:2145:C:H4'	1.75	0.86
9:I:2205:A:H62	9:I:2226:G:H1'	1.41	0.86
9:I:2663:A:C2	9:I:2675:U:H1'	2.10	0.86
9:I:3459:C:H3'	9:I:3460:A:H8	1.39	0.86
9:I:3692:A:C1'	9:I:3693:A:H5'	2.06	0.86
9:I:3779:C:HO2'	9:I:3781:A:HO2'	1.00	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3891:G:N2	9:I:3913:U:O2	2.09	0.86
10:J:28:A:H2'	10:J:29:C:H6	1.40	0.86
10:J:42:C:O2'	14:N:94:ARG:HD2	1.75	0.86
14:N:122:ASP:CG	14:N:126:ASN:HB2	2.01	0.86
20:V:35:LYS:NZ	20:V:103:ARG:HB2	1.91	0.86
23:Y:55:ARG:NH1	23:Y:56:GLU:OE1	2.09	0.86
6:F:67:HIS:CE1	32:h:84:CYS:HB3	2.11	0.85
9:I:925:G:H5''	9:I:926:G:H5'	1.57	0.85
9:I:1114:U:H3	9:I:1184:G:H1	0.87	0.85
9:I:2665:G:H2'	9:I:2666:C:H1'	1.57	0.85
9:I:3783:G:O4'	9:I:3877:G:N2	2.09	0.85
9:I:3808:A:H5''	14:N:34:THR:HG21	1.56	0.85
9:I:4303:A:O2'	9:I:4304:A:O4'	1.92	0.85
10:J:74:G:C5'	45:u:29:ILE:HD12	2.06	0.85
11:K:140:VAL:O	11:K:161:VAL:N	2.09	0.85
12:L:11:MET:CE	12:L:192:ALA:HB1	2.06	0.85
12:L:26:VAL:HG21	39:o:4:ILE:CD1	2.06	0.85
14:N:30:VAL:HG12	14:N:168:LEU:HD21	1.56	0.85
15:O:169:ARG:HH21	37:m:31:PRO:HD3	1.41	0.85
18:T:111:ILE:HG13	18:T:128:THR:HG23	1.58	0.85
20:V:32:GLU:HB2	20:V:118:ARG:HH11	1.40	0.85
40:p:98:ALA:HB2	40:p:105:PHE:HB2	1.58	0.85
42:r:69:LEU:HD22	42:r:107:VAL:HG22	1.57	0.85
44:t:37:GLY:N	44:t:61:GLU:HG2	1.91	0.85
7:G:81:ILE:O	7:G:85:ALA:N	2.08	0.85
9:I:204:A:H2'	9:I:205:C:C5	2.11	0.85
9:I:696:U:H4'	9:I:785:G:H4'	1.58	0.85
9:I:781:A:H3'	9:I:782:C:H6	1.41	0.85
9:I:1275:G:N3	9:I:1281:C:O2'	2.08	0.85
9:I:1712:G:H2'	9:I:1713:A:C8	2.11	0.85
9:I:4240:U:OP1	15:O:84:LYS:NZ	2.07	0.85
11:K:5:CYS:HB3	11:K:12:ARG:CG	2.05	0.85
12:L:48:ILE:HG13	12:L:82:PHE:HB2	1.57	0.85
31:g:89:LEU:HB3	31:g:92:VAL:CG2	2.06	0.85
41:q:2:TYR:CB	41:q:13:ARG:HD3	2.06	0.85
41:q:6:GLN:O	41:q:37:GLU:HG3	1.77	0.85
9:I:1463:G:N1	9:I:4342:G:O2'	2.08	0.85
9:I:1662:U:H4'	9:I:1663:C:H5	1.40	0.85
9:I:2481:C:OP1	49:y:10:ARG:NH1	2.10	0.85
9:I:2878:A:H1'	9:I:2899:U:O4'	1.75	0.85
9:I:2927:A:N6	9:I:3054:G:O6	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3015:G:H3'	9:I:3016:A:H2'	1.56	0.85
9:I:3323:A:H2'	11:K:14:HIS:HD2	1.41	0.85
9:I:4233:U:N3	9:I:4258:A:N6	2.15	0.85
10:J:15:G:N1	10:J:67:C:N3	2.22	0.85
11:K:143:VAL:HG22	11:K:189:ALA:CB	2.07	0.85
12:L:9:VAL:HB	12:L:26:VAL:HG12	1.56	0.85
15:O:51:PHE:HB3	15:O:64:ALA:CA	2.05	0.85
15:O:132:LEU:HD13	15:O:143:VAL:CG1	2.07	0.85
17:S:105:ARG:HD3	17:S:122:VAL:HG13	1.57	0.85
18:T:83:ALA:HA	18:T:118:THR:HB	1.58	0.85
20:V:37:THR:OG1	20:V:40:LYS:HB3	1.75	0.85
31:g:3:VAL:O	31:g:7:VAL:N	2.08	0.85
38:n:33:HIS:HA	38:n:64:THR:HB	1.56	0.85
40:p:59:LEU:HG	40:p:63:ARG:HG3	1.59	0.85
45:u:64:VAL:CG1	45:u:67:GLY:HA2	2.07	0.85
46:v:24:GLY:N	46:v:51:ALA:O	2.09	0.85
49:y:41:PRO:HA	49:y:44:ARG:HB3	1.58	0.85
49:y:47:ILE:HG22	49:y:51:SER:HB3	1.56	0.85
4:D:9:VAL:CG1	4:D:52:ILE:HA	2.07	0.85
4:D:17:SER:OG	4:D:45:ASP:OD1	1.93	0.85
9:I:1179:A:H5'	28:d:102:THR:HG23	1.57	0.85
9:I:1187:A:H2'	9:I:1188:U:O4'	1.77	0.85
9:I:1612:U:H5'	48:x:57:ASN:ND2	1.91	0.85
9:I:1766:G:N2	9:I:1926:C:O2	2.09	0.85
9:I:2550:G:H4'	9:I:2580:A:C8	2.11	0.85
9:I:2961:U:H2'	9:I:2962:U:O4'	1.74	0.85
9:I:3308:G:H2'	9:I:3309:A:C8	2.12	0.85
9:I:4138:G:O2'	9:I:4139:G:O4'	1.94	0.85
10:J:93:A:OP1	45:u:19:ARG:NH1	2.08	0.85
12:L:7:LYS:HE2	12:L:198:GLY:CA	2.06	0.85
18:T:95:LEU:HD22	18:T:100:ILE:HD11	1.56	0.85
21:W:118:SER:HA	21:W:123:PHE:HE1	1.42	0.85
48:x:19:ASN:O	48:x:22:ARG:NE	2.08	0.85
4:D:20:VAL:HG22	4:D:56:VAL:HG11	1.58	0.85
8:H:43:GLU:CA	8:H:46:ARG:HB2	2.06	0.85
9:I:481:A:H2'	9:I:482:C:O4'	1.76	0.85
9:I:642:C:H2'	9:I:643:U:C6	2.11	0.85
9:I:1327:C:H5''	32:h:27:THR:HG21	1.59	0.85
9:I:1475:A:H4'	9:I:1476:C:OP1	1.77	0.85
9:I:1663:C:H2'	9:I:1664:C:C6	2.11	0.85
9:I:1799:A:OP2	44:t:96:LYS:NZ	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1810:A:O2'	9:I:1812:G:O6	1.94	0.85
9:I:2207:G:H3'	9:I:2208:G:H8	1.42	0.85
9:I:2926:G:H2'	9:I:2927:A:C8	2.11	0.85
9:I:3067:G:H2'	9:I:3067:G:N3	1.91	0.85
9:I:3851:G:OP1	46:v:10:ARG:NH2	2.10	0.85
9:I:4182:G:H3'	9:I:4213:G:N1	1.91	0.85
12:L:178:VAL:CG2	12:L:190:LYS:H	1.90	0.85
13:M:123:LYS:HD3	13:M:189:THR:CG2	2.07	0.85
16:R:13:ARG:NH2	16:R:49:ASP:O	2.10	0.85
16:R:55:ILE:HG13	16:R:123:LYS:HB2	1.58	0.85
16:R:96:ARG:HH11	16:R:99:ARG:HG3	1.40	0.85
23:Y:57:LYS:HB2	23:Y:199:ILE:HG12	1.59	0.85
27:c:54:THR:O	27:c:55:LYS:HD3	1.76	0.85
30:f:1:ARG:H3	30:f:65:TYR:HA	1.40	0.85
31:g:1:ALA:N	31:g:5:GLN:OE1	2.08	0.85
46:v:11:LEU:HD23	46:v:29:ARG:NH1	1.90	0.85
5:E:44:ARG:HD2	9:I:673:G:H5'	1.58	0.85
9:I:406:U:H1'	23:Y:153:ARG:NH1	1.90	0.85
9:I:1682:A:H2'	9:I:1683:C:C6	2.11	0.85
9:I:2520:G:OP2	9:I:2628:A:O2'	1.93	0.85
9:I:2590:A:O2'	9:I:2591:U:O5'	1.94	0.85
9:I:4190:U:H5''	9:I:4191:G:OP2	1.75	0.85
9:I:4243:A:OP2	9:I:4247:A:N6	2.09	0.85
10:J:13:U:H5'	10:J:69:C:C1'	2.07	0.85
12:L:50:VAL:HG23	12:L:80:TRP:CE3	2.10	0.85
14:N:107:VAL:HG22	14:N:110:ILE:HD11	1.57	0.85
15:O:72:ASN:O	15:O:76:ILE:N	2.08	0.85
16:R:98:GLU:OE1	16:R:98:GLU:N	2.08	0.85
24:Z:147:LYS:O	24:Z:150:LYS:NZ	2.09	0.85
28:d:48:PRO:HB3	28:d:81:THR:HG22	1.58	0.85
40:p:82:LEU:CD2	40:p:112:ALA:HB2	2.07	0.85
47:w:17:ARG:NH2	47:w:21:LEU:HB2	1.90	0.85
4:D:42:HIS:ND1	9:I:252:A:N3	2.24	0.85
8:H:15:LEU:HD11	30:f:86:ARG:HB2	1.59	0.85
9:I:2447:G:OP1	19:U:16:ARG:NH2	2.09	0.85
10:J:49:A:OP1	38:n:66:ASN:HB2	1.75	0.85
11:K:140:VAL:N	11:K:161:VAL:H	1.73	0.85
27:c:15:ASN:O	27:c:21:LYS:NZ	2.09	0.85
41:q:38:VAL:HG22	41:q:59:ILE:HD11	1.58	0.85
45:u:72:VAL:HG12	45:u:93:ARG:CA	2.05	0.85
2:B:80:LEU:HA	2:B:83:ARG:HB3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:53:C:H2'	9:I:351:C:H41	1.41	0.85
9:I:931:C:H5'	26:b:3:ARG:HB2	1.56	0.85
9:I:1202:C:H2'	9:I:1203:A:H5'	1.56	0.85
9:I:1475:A:O4'	9:I:4329:A:N6	2.08	0.85
9:I:1778:A:C2'	9:I:1862:A:H1'	2.05	0.85
9:I:1836:C:H5''	44:t:3:LYS:CD	2.03	0.85
9:I:2125:G:H2'	9:I:2126:A:C8	2.11	0.85
9:I:2913:A:H5'	9:I:3073:A:N6	1.91	0.85
9:I:3340:G:H2'	9:I:3341:A:C8	2.11	0.85
9:I:3401:G:N2	9:I:3417:U:O2	2.09	0.85
9:I:3827:A:H3'	46:v:65:LYS:NZ	1.90	0.85
9:I:3921:C:H5''	9:I:3922:G:OP1	1.76	0.85
9:I:3961:C:O2	19:U:123:LYS:NZ	2.07	0.85
11:K:175:LEU:HD11	11:K:181:ARG:CG	2.05	0.85
17:S:35:VAL:O	17:S:107:LEU:HD21	1.76	0.85
20:V:18:GLN:O	20:V:22:ARG:HD3	1.74	0.85
22:X:182:ASP:OD2	22:X:203:LYS:NZ	2.10	0.85
46:v:35:PHE:HB3	46:v:49:LEU:HD12	1.59	0.85
1:A:57:SER:OG	9:I:1316:C:OP1	1.93	0.85
8:H:3:ILE:HG12	30:f:99:THR:H	1.41	0.85
9:I:701:A:N6	9:I:3340:G:H21	1.75	0.85
9:I:1766:G:O6	9:I:1926:C:N4	2.10	0.85
9:I:1789:G:H2'	9:I:1790:U:C6	2.11	0.85
9:I:1833:G:H2'	9:I:1834:C:C6	2.11	0.85
9:I:2299:G:H3'	9:I:2300:A:C8	2.12	0.85
9:I:2654:G:N3	41:q:9:GLY:HA3	1.91	0.85
9:I:2835:G:O2'	43:s:59:ASN:ND2	2.07	0.85
9:I:3358:U:C4	9:I:3369:G:H3'	2.12	0.85
9:I:3787:G:C2	9:I:3834:A:H1'	2.12	0.85
9:I:4050:C:C2'	9:I:4051:G:H5'	2.06	0.85
15:O:8:VAL:CG1	15:O:75:VAL:HG21	2.07	0.85
17:S:76:VAL:O	39:o:71:ARG:HD2	1.77	0.85
18:T:77:ILE:HG12	18:T:110:VAL:HA	1.56	0.85
20:V:102:PHE:O	20:V:110:MET:HE3	1.74	0.85
41:q:61:ALA:HA	41:q:99:THR:OG1	1.77	0.85
47:w:17:ARG:HH21	47:w:21:LEU:HB2	1.41	0.85
9:I:1050:C:H2'	9:I:1051:U:C6	2.12	0.85
9:I:1106:C:H2'	9:I:1107:G:O4'	1.77	0.85
9:I:1115:U:O2'	28:d:107:GLN:NE2	2.09	0.85
9:I:1366:C:C5'	28:d:113:VAL:HG23	2.05	0.85
9:I:1461:U:O2	9:I:4346:G:O6	1.94	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1784:U:O2	9:I:1856:G:O6	1.93	0.85
9:I:1801:G:H5''	9:I:1817:G:N2	1.91	0.85
9:I:2532:G:H2'	9:I:2533:A:C8	2.11	0.85
9:I:3812:G:O2'	9:I:3813:G:H5'	1.77	0.85
9:I:3817:G:H2'	9:I:3818:U:C5'	2.06	0.85
9:I:4234:A:N6	9:I:4257:G:O2'	2.10	0.85
9:I:4315:A:H2'	9:I:4316:G:C8	2.12	0.85
17:S:9:ASN:HB3	17:S:83:ALA:CB	2.07	0.85
20:V:42:LYS:O	20:V:45:ARG:NE	2.08	0.85
24:Z:42:GLY:HA3	24:Z:53:LYS:HB3	1.58	0.85
44:t:87:GLU:HB2	44:t:92:VAL:HG21	1.57	0.85
45:u:18:ARG:HA	45:u:21:ARG:CG	2.07	0.85
46:v:58:LYS:HB2	46:v:73:GLU:CG	2.06	0.85
47:w:46:VAL:HG22	47:w:48:LEU:HD21	1.56	0.85
2:B:63:ARG:HE	2:B:87:ARG:HH22	1.18	0.84
9:I:877:A:H2'	9:I:878:C:H6	1.40	0.84
9:I:962:G:N3	29:e:52:HIS:NE2	2.23	0.84
9:I:1095:C:O2	9:I:1169:A:O2'	1.95	0.84
9:I:1095:C:O2'	9:I:1169:A:O3'	1.95	0.84
9:I:1101:A:O2'	21:W:95:GLY:N	2.09	0.84
9:I:1376:A:H4'	9:I:1377:C:C5	2.11	0.84
9:I:2468:G:O2'	9:I:2483:G:N2	2.10	0.84
9:I:2498:U:O2'	9:I:2504:A:N7	2.10	0.84
9:I:2704:G:H4'	9:I:2705:C:O5'	1.77	0.84
9:I:3363:G:N2	9:I:3365:A:O2'	2.09	0.84
9:I:3873:G:H2'	9:I:3874:C:C6	2.10	0.84
9:I:4113:C:C5'	12:L:157:LYS:HE3	2.05	0.84
9:I:4153:G:N2	9:I:4157:G:O6	2.10	0.84
12:L:50:VAL:O	12:L:79:LEU:HA	1.75	0.84
12:L:50:VAL:HG22	12:L:80:TRP:O	1.76	0.84
12:L:104:VAL:HG21	12:L:107:VAL:CG1	2.07	0.84
16:R:24:THR:HG23	16:R:64:VAL:HG23	1.57	0.84
18:T:75:ALA:C	18:T:108:ALA:HA	2.02	0.84
19:U:111:GLU:HA	19:U:114:ARG:NH2	1.92	0.84
24:Z:93:GLY:O	24:Z:95:GLY:N	2.09	0.84
38:n:98:TYR:CE1	38:n:106:ALA:HB3	2.12	0.84
4:D:37:ARG:CG	9:I:279:C:H2'	2.04	0.84
9:I:503:C:H2'	9:I:510:C:H5	1.42	0.84
9:I:1577:G:OP1	48:x:2:ALA:HA	1.76	0.84
9:I:2364:G:H2'	9:I:2365:C:C6	2.11	0.84
9:I:2971:A:N6	9:I:3051:C:O2'	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3585:C:H3'	9:I:3586:U:C2'	2.02	0.84
9:I:3767:A:H2'	9:I:3768:A:H8	1.42	0.84
9:I:4025:A:H5'	15:O:173:ALA:CB	2.07	0.84
10:J:77:A:O2'	10:J:78:G:H5'	1.75	0.84
13:M:102:ARG:HA	13:M:200:LEU:HB3	1.59	0.84
14:N:174:PHE:O	14:N:176:PHE:N	2.10	0.84
17:S:78:ARG:HB3	39:o:70:GLU:CB	2.06	0.84
20:V:65:LEU:HA	20:V:68:ALA:CB	2.08	0.84
21:W:78:LYS:HD2	21:W:90:ASN:HD22	1.41	0.84
38:n:80:ARG:O	38:n:84:LYS:N	2.08	0.84
39:o:19:PHE:CD2	39:o:46:VAL:HG21	2.11	0.84
44:t:24:VAL:HG13	44:t:34:ILE:H	1.41	0.84
49:y:3:THR:OG1	49:y:37:ARG:O	1.95	0.84
7:G:72:ARG:NH2	9:I:258:G:O3'	2.09	0.84
9:I:1024:U:H5''	9:I:1025:G:H5'	1.59	0.84
9:I:3214:U:O2	9:I:3234:G:N2	2.10	0.84
9:I:3215:G:O2'	9:I:3216:A:H5'	1.74	0.84
9:I:3250:G:O2'	9:I:3251:A:O5'	1.95	0.84
9:I:3729:G:H2'	9:I:3730:U:H6	1.42	0.84
9:I:3779:C:H2'	9:I:3781:A:H8	1.40	0.84
9:I:3895:U:N3	9:I:3909:G:C6	2.45	0.84
10:J:74:G:O2'	45:u:88:HIS:NE2	2.09	0.84
14:N:15:LEU:HD13	14:N:27:VAL:HG22	1.59	0.84
15:O:26:LYS:HB3	15:O:31:GLU:OE1	1.78	0.84
17:S:38:ILE:HD12	17:S:87:LEU:HD11	1.59	0.84
17:S:77:ILE:HG22	39:o:69:VAL:HB	1.58	0.84
37:m:16:ILE:HD12	37:m:25:VAL:HG22	1.59	0.84
40:p:60:TRP:HD1	40:p:95:ALA:HB3	1.42	0.84
5:E:23:SER:O	5:E:27:GLY:N	2.11	0.84
9:I:1478:A:O5'	33:i:49:ARG:NH1	2.11	0.84
9:I:1982:A:H5''	9:I:1983:A:OP1	1.77	0.84
9:I:2140:C:H2'	9:I:2141:U:C6	2.12	0.84
9:I:2660:G:H2'	9:I:2661:C:C6	2.12	0.84
9:I:3596:G:H2'	9:I:3597:C:C6	2.11	0.84
9:I:3685:A:H2'	9:I:3686:U:C6	2.13	0.84
10:J:32:G:C2	10:J:33:A:H1'	2.11	0.84
12:L:27:ILE:CG2	12:L:187:LEU:HB3	2.08	0.84
19:U:44:ARG:HA	19:U:47:GLU:OE2	1.76	0.84
20:V:15:SER:HA	20:V:18:GLN:OE1	1.77	0.84
26:b:25:PHE:HD1	26:b:100:MET:HB3	1.41	0.84
35:k:27:GLY:O	35:k:30:VAL:N	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:l:37:THR:HB	36:l:38:LYS:HZ2	1.37	0.84
38:n:27:VAL:HB	38:n:105:LEU:HD13	1.56	0.84
43:s:7:LEU:HD13	43:s:50:LEU:HD21	1.59	0.84
43:s:56:GLU:CD	43:s:88:LYS:HD3	2.03	0.84
46:v:36:HIS:N	46:v:49:LEU:HD11	1.91	0.84
47:w:32:LEU:HA	47:w:51:SER:HA	1.56	0.84
48:x:13:LEU:HD13	48:x:52:VAL:CG1	2.07	0.84
6:F:67:HIS:NE2	32:h:82:LEU:HB3	1.92	0.84
9:I:1608:G:H2'	9:I:1609:C:C6	2.13	0.84
9:I:2711:U:H3	9:I:2726:G:H1	1.24	0.84
9:I:2777:G:O2'	9:I:2779:A:N7	2.09	0.84
9:I:2793:G:H5''	9:I:2794:G:OP1	1.78	0.84
9:I:2944:G:H3'	9:I:2945:C:C5	2.12	0.84
9:I:3201:G:C6	9:I:3245:U:C4	2.66	0.84
9:I:3214:U:H3	9:I:3234:G:H1	1.18	0.84
9:I:3315:A:O2'	9:I:3316:C:O4'	1.94	0.84
9:I:3828:U:H4'	38:n:12:ARG:NH1	1.90	0.84
9:I:4020:G:N2	9:I:4031:U:O2	2.11	0.84
9:I:4212:G:H4'	39:o:95:LYS:HB2	1.59	0.84
9:I:4412:A:H2'	9:I:4413:C:C6	2.12	0.84
15:O:140:ILE:HA	15:O:143:VAL:HB	1.58	0.84
20:V:33:ILE:HB	20:V:118:ARG:CZ	2.06	0.84
27:c:104:SER:HA	27:c:109:VAL:HA	1.59	0.84
37:m:15:LYS:O	37:m:26:ILE:HG12	1.78	0.84
37:m:30:GLU:OE2	37:m:31:PRO:HD2	1.77	0.84
8:H:33:ARG:HA	30:f:112:PRO:CD	2.06	0.84
9:I:418:C:H5''	9:I:512:C:O4'	1.77	0.84
9:I:466:U:H3'	9:I:467:A:C5'	2.07	0.84
9:I:1096:C:H4'	21:W:136:ARG:NH2	1.93	0.84
9:I:1771:G:OP1	9:I:1867:G:N2	2.10	0.84
9:I:1850:G:H2'	9:I:1851:C:C6	2.12	0.84
9:I:2951:U:O2	9:I:4196:G:C6	2.31	0.84
9:I:3019:A:H2'	9:I:3020:C:C6	2.12	0.84
9:I:3793:U:H2'	9:I:3794:C:C6	2.12	0.84
9:I:3793:U:H2'	9:I:3794:C:O4'	1.78	0.84
9:I:3914:C:H5''	34:j:5:LYS:HZ3	1.39	0.84
9:I:3938:G:P	13:M:63:LYS:HD2	2.18	0.84
11:K:139:THR:HA	11:K:161:VAL:O	1.75	0.84
11:K:144:GLU:HB2	11:K:188:ARG:H	1.42	0.84
16:R:45:THR:HG22	16:R:48:VAL:H	1.41	0.84
17:S:77:ILE:HG22	39:o:69:VAL:CG1	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:79:LEU:HD11	18:T:112:LEU:HA	1.59	0.84
20:V:41:ALA:HA	20:V:44:LEU:HB2	1.58	0.84
42:r:69:LEU:HB3	42:r:107:VAL:CG2	2.06	0.84
47:w:55:MET:O	47:w:59:ASP:N	2.09	0.84
9:I:675:A:H2	9:I:713:G:H1	1.21	0.84
9:I:1172:U:H2'	9:I:1173:G:H8	1.42	0.84
9:I:1433:A:H3'	9:I:1434:G:H8	1.40	0.84
9:I:1509:G:H1	9:I:4123:U:C2'	1.90	0.84
9:I:1651:C:H2'	9:I:1652:A:C8	2.12	0.84
9:I:1728:C:H42	9:I:1910:G:H21	1.25	0.84
9:I:1872:G:O4'	47:w:60:LYS:NZ	2.10	0.84
9:I:2113:A:H5''	9:I:2114:A:H8	1.42	0.84
9:I:2120:G:O3'	18:T:99:ASN:ND2	2.10	0.84
9:I:3365:A:H1'	9:I:3366:A:C8	2.12	0.84
10:J:76:U:C4	10:J:98:A:H8	1.95	0.84
11:K:77:VAL:HG23	11:K:93:VAL:HG12	1.58	0.84
12:L:194:PRO:O	12:L:201:LEU:HD11	1.77	0.84
14:N:35:LEU:CA	14:N:153:ILE:HG23	2.07	0.84
15:O:136:ASP:O	15:O:140:ILE:HG12	1.78	0.84
17:S:64:ARG:HB2	17:S:83:ALA:O	1.76	0.84
21:W:157:ALA:HA	21:W:179:PRO:HG2	1.59	0.84
48:x:10:VAL:HG13	48:x:56:LEU:HD13	1.59	0.84
4:D:7:GLY:O	4:D:56:VAL:N	2.09	0.84
9:I:43:A:H2'	9:I:44:G:C8	2.12	0.84
9:I:521:C:H2'	9:I:522:A:C8	2.13	0.84
9:I:663:G:H1'	9:I:725:C:H5'	1.59	0.84
9:I:2045:U:H2'	9:I:2047:A:P	2.18	0.84
9:I:3007:U:H2'	9:I:3008:G:N3	1.92	0.84
9:I:3201:G:C2	9:I:3245:U:O2	2.31	0.84
9:I:3297:A:H2'	9:I:3298:C:H5'	1.59	0.84
9:I:3373:C:H2'	9:I:3374:U:C6	2.13	0.84
10:J:103:A:H2'	10:J:104:G:C5'	2.05	0.84
12:L:109:VAL:CG1	12:L:193:VAL:HB	2.07	0.84
13:M:149:ILE:CB	13:M:188:MET:HA	2.04	0.84
13:M:159:LEU:HD23	13:M:162:ARG:HE	1.43	0.84
15:O:49:LEU:CD1	15:O:71:LEU:HD21	2.07	0.84
17:S:24:VAL:HG22	17:S:39:ILE:HG21	1.60	0.84
18:T:22:GLY:O	18:T:25:SER:OG	1.94	0.84
20:V:10:LEU:HB2	20:V:12:ARG:CD	2.07	0.84
28:d:81:THR:HG21	28:d:100:PHE:HB3	1.55	0.84
1:A:1:ALA:HB3	1:A:6:LYS:HD3	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:47:LYS:HE3	9:I:807:C:H5'	1.58	0.84
5:E:41:LYS:NZ	9:I:716:U:O2'	2.11	0.84
9:I:360:G:H2'	9:I:361:G:C8	2.13	0.84
9:I:1067:G:OP1	9:I:1386:G:O2'	1.94	0.84
9:I:1232:G:OP1	28:d:123:GLN:N	2.09	0.84
9:I:1506:A:H1'	16:R:135:GLN:OE1	1.78	0.84
9:I:2366:A:N3	9:I:2367:C:H5'	1.93	0.84
9:I:2962:U:O4	9:I:3018:G:O6	1.96	0.84
9:I:3090:A:H2'	9:I:3091:A:C8	2.13	0.84
9:I:3596:G:H1	9:I:3681:U:H3	1.26	0.84
9:I:3799:U:H1'	14:N:132:ARG:CG	2.08	0.84
9:I:3919:A:H4'	9:I:3920:A:O5'	1.76	0.84
11:K:106:PRO:HD2	11:K:109:LEU:CD1	2.07	0.84
12:L:40:LEU:HA	12:L:44:GLY:CA	2.08	0.84
14:N:147:ARG:HH11	14:N:149:ARG:HG2	1.42	0.84
15:O:8:VAL:HG13	15:O:72:ASN:OD1	1.77	0.84
15:O:85:LYS:HB3	15:O:164:ALA:HB3	1.60	0.84
15:O:122:ALA:HA	15:O:133:LYS:CD	2.08	0.84
21:W:1:VAL:HG22	21:W:48:ASN:HD21	1.42	0.84
38:n:29:ARG:HH22	38:n:100:GLY:H	1.25	0.84
43:s:19:LYS:HD3	43:s:84:TYR:OH	1.75	0.84
48:x:5:LEU:HD12	48:x:13:LEU:HD11	1.60	0.84
2:B:88:ARG:HG3	9:I:2213:G:OP2	1.77	0.84
4:D:12:ASP:HA	4:D:19:VAL:HG12	1.57	0.84
4:D:44:HIS:HB2	9:I:253:G:O2'	1.77	0.84
8:H:43:GLU:O	8:H:47:ALA:N	2.10	0.84
9:I:981:U:H4'	9:I:982:A:O5'	1.77	0.84
9:I:984:C:H2'	9:I:985:U:C6	2.12	0.84
9:I:1096:C:O2'	9:I:1168:A:O2'	1.94	0.84
9:I:1260:A:H3'	9:I:1261:C:H6	1.42	0.84
9:I:1492:C:H2'	9:I:1493:U:C6	2.13	0.84
9:I:1635:U:O2'	9:I:1644:A:N1	2.09	0.84
9:I:1769:C:O2	9:I:1770:A:H5'	1.78	0.84
9:I:1896:G:H2'	9:I:1897:U:H6	1.39	0.84
9:I:2834:U:H3	9:I:3097:A:H1'	1.39	0.84
9:I:2955:C:H3'	9:I:2955:C:OP2	1.78	0.84
9:I:4174:U:H2'	9:I:4176:A:H62	1.41	0.84
9:I:4322:G:O2'	9:I:4323:A:H5'	1.77	0.84
12:L:1:MET:HE1	12:L:104:VAL:CB	2.08	0.84
22:X:37:LYS:HD2	22:X:37:LYS:H	1.41	0.84
31:g:73:LEU:HD21	31:g:103:CYS:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:l:29:ARG:O	36:l:32:LEU:HD11	1.78	0.84
38:n:34:ILE:N	38:n:52:THR:OG1	2.11	0.84
44:t:14:THR:OG1	44:t:68:ASN:ND2	2.11	0.84
47:w:32:LEU:CA	47:w:51:SER:HA	2.07	0.84
2:B:80:LEU:HG	2:B:84:LEU:HD23	1.58	0.83
9:I:264:G:H3'	9:I:266:C:H41	1.42	0.83
9:I:715:A:H2'	9:I:716:U:H6	1.43	0.83
9:I:798:G:H3'	9:I:799:G:H8	1.43	0.83
9:I:1063:G:H1'	9:I:1189:G:N2	1.93	0.83
9:I:1094:U:OP2	9:I:1107:G:N1	2.10	0.83
9:I:1248:C:H4'	28:d:72:GLN:HE22	1.42	0.83
9:I:1421:G:O6	9:I:4382:U:O4	1.94	0.83
9:I:1799:A:OP1	44:t:96:LYS:HE2	1.77	0.83
9:I:2019:U:H2'	9:I:2020:G:H8	1.39	0.83
9:I:2232:C:H2'	9:I:2233:G:O4'	1.78	0.83
9:I:2535:G:N2	9:I:2608:C:O2	2.09	0.83
9:I:2618:G:H1'	37:m:37:GLN:CG	2.08	0.83
9:I:3008:G:O2'	9:I:3051:C:O2'	1.95	0.83
9:I:3285:A:N6	9:I:3322:G:O2'	2.11	0.83
9:I:3960:C:H2'	9:I:3961:C:C6	2.13	0.83
9:I:4182:G:H1	9:I:4214:U:P	2.01	0.83
10:J:45:A:H3'	10:J:46:C:C5	2.12	0.83
10:J:56:A:OP1	14:N:22:ASN:ND2	2.10	0.83
10:J:75:G:H2'	10:J:76:U:H5'	1.59	0.83
11:K:15:VAL:CA	11:K:205:GLY:HA3	2.07	0.83
11:K:162:GLN:NE2	11:K:174:ARG:HG2	1.93	0.83
13:M:102:ARG:HD3	13:M:200:LEU:O	1.78	0.83
14:N:33:ILE:HD11	14:N:99:PHE:CD1	2.12	0.83
17:S:11:ALA:HB3	17:S:85:VAL:CG2	2.06	0.83
30:f:12:HIS:HB3	30:f:19:ILE:HG13	1.60	0.83
40:p:89:ILE:HG13	41:q:49:ILE:HD11	1.58	0.83
44:t:13:LEU:N	44:t:68:ASN:O	2.11	0.83
44:t:24:VAL:HG21	44:t:33:VAL:HB	1.59	0.83
45:u:6:ALA:HB1	45:u:40:ILE:HB	1.60	0.83
45:u:62:THR:HA	45:u:70:ILE:O	1.78	0.83
9:I:418:C:OP1	9:I:512:C:O2'	1.96	0.83
9:I:2054:U:O2'	9:I:2055:G:H5'	1.77	0.83
9:I:2211:G:O6	9:I:2220:U:O2	1.95	0.83
9:I:2646:C:O3'	40:p:79:ILE:HG21	1.77	0.83
9:I:2909:U:H2'	9:I:3081:G:H22	1.42	0.83
9:I:3027:C:H3'	9:I:3028:U:C5	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3426:A:C2'	9:I:3427:G:H5'	2.08	0.83
11:K:16:VAL:O	11:K:202:ARG:HG2	1.78	0.83
12:L:35:THR:C	12:L:92:VAL:HA	2.03	0.83
19:U:124:LEU:HB3	19:U:126:ILE:HG12	1.60	0.83
26:b:133:ALA:HA	26:b:136:LYS:CE	2.08	0.83
29:e:47:VAL:HG23	29:e:59:ASP:HB2	1.58	0.83
30:f:12:HIS:O	30:f:19:ILE:N	2.10	0.83
34:j:36:PHE:HA	34:j:43:HIS:HA	1.59	0.83
39:o:26:GLU:HG3	39:o:42:PHE:C	2.03	0.83
41:q:39:LEU:O	41:q:49:ILE:HG23	1.77	0.83
1:A:80:ARG:NH1	9:I:972:G:O2'	2.11	0.83
2:B:47:LYS:HD2	9:I:807:C:P	2.19	0.83
4:D:68:LYS:HE2	9:I:253:G:O5'	1.78	0.83
6:F:13:LEU:HD23	6:F:36:SER:HB2	1.60	0.83
9:I:498:A:N1	9:I:545:A:H2'	1.92	0.83
9:I:593:U:H2'	9:I:594:A:O4'	1.77	0.83
9:I:874:U:O2'	27:c:14:ARG:HD2	1.77	0.83
9:I:1159:G:N2	9:I:1175:A:N1	2.25	0.83
9:I:1668:G:H2'	9:I:1669:G:C8	2.13	0.83
9:I:1766:G:H3'	9:I:1767:C:C5'	2.08	0.83
9:I:1980:A:O3'	44:t:43:LYS:HA	1.79	0.83
9:I:3273:U:O2	9:I:3277:A:N6	2.11	0.83
9:I:3310:C:O2'	9:I:3311:G:OP2	1.96	0.83
9:I:3870:A:H2'	9:I:3871:A:O4'	1.78	0.83
9:I:3968:U:OP2	9:I:3969:C:N4	2.11	0.83
11:K:165:ALA:O	11:K:171:VAL:HB	1.76	0.83
13:M:134:LEU:HD23	13:M:164:LEU:HD13	1.60	0.83
14:N:131:VAL:HG11	14:N:137:PHE:HZ	1.43	0.83
17:S:2:ILE:HG23	17:S:6:THR:HG21	1.59	0.83
22:X:49:ALA:HA	22:X:74:ILE:HD11	1.57	0.83
23:Y:104:MET:O	23:Y:172:VAL:HG21	1.78	0.83
24:Z:78:GLY:O	24:Z:85:VAL:N	2.11	0.83
37:m:2:LYS:CG	37:m:35:GLN:HB2	2.07	0.83
37:m:7:VAL:HG12	37:m:35:GLN:HG2	1.60	0.83
38:n:81:ALA:HB1	38:n:86:ILE:HB	1.60	0.83
40:p:73:ILE:HD11	40:p:116:LEU:HD22	1.59	0.83
43:s:18:GLU:H	43:s:21:SER:HB2	1.42	0.83
45:u:9:ARG:NH2	45:u:20:LEU:HD12	1.93	0.83
4:D:66:LYS:HE3	9:I:250:G:H1'	1.59	0.83
7:G:2:ILE:CD1	9:I:348:A:H5'	2.08	0.83
9:I:587:G:N1	9:I:649:G:O6	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2107:U:O5'	13:M:98:LYS:HE2	1.79	0.83
9:I:2370:U:H2'	9:I:2371:U:C6	2.13	0.83
9:I:2501:C:H5'	16:R:37:ARG:NH1	1.94	0.83
9:I:2523:A:H1'	9:I:3980:C:O2'	1.77	0.83
9:I:2841:A:H2'	9:I:2842:C:H5'	1.59	0.83
9:I:3319:U:H2'	9:I:3320:G:H8	1.43	0.83
10:J:56:A:H8	14:N:23:SER:HB3	1.41	0.83
12:L:46:ARG:NE	12:L:89:GLU:HG2	1.93	0.83
40:p:81:GLY:HA2	40:p:84:LYS:HD2	1.60	0.83
46:v:16:PHE:HA	46:v:59:PHE:HE1	1.41	0.83
9:I:231:G:H1'	9:I:261:A:N1	1.93	0.83
9:I:755:C:H2'	9:I:756:U:C6	2.13	0.83
9:I:808:G:O2'	9:I:809:C:H5'	1.76	0.83
9:I:1665:A:H2'	9:I:1666:U:O4'	1.78	0.83
9:I:1860:U:H3'	9:I:1861:G:C8	2.13	0.83
9:I:2466:A:OP2	9:I:2468:G:H5''	1.78	0.83
9:I:2662:G:N2	9:I:2675:U:O2	2.09	0.83
9:I:2667:U:H2'	9:I:2670:U:N3	1.94	0.83
9:I:2947:A:N6	20:V:74:GLU:HA	1.94	0.83
9:I:3594:G:H1	9:I:3683:U:H3	0.87	0.83
9:I:4212:G:O3'	39:o:95:LYS:HG3	1.77	0.83
9:I:4241:G:H5''	15:O:69:ALA:HB1	1.58	0.83
11:K:143:VAL:H	11:K:153:LEU:H	1.25	0.83
12:L:123:LYS:HD2	12:L:124:ARG:NH1	1.92	0.83
13:M:19:PHE:CD1	13:M:113:VAL:HG21	2.12	0.83
13:M:48:THR:OG1	13:M:51:GLU:OE1	1.95	0.83
15:O:3:VAL:CG1	15:O:68:ARG:HE	1.92	0.83
39:o:26:GLU:HA	39:o:42:PHE:O	1.79	0.83
45:u:6:ALA:HB3	45:u:63:ILE:HG21	1.58	0.83
46:v:40:ASN:C	46:v:52:LYS:HB2	2.03	0.83
4:D:11:SER:HB3	9:I:275:G:P	2.18	0.83
9:I:677:U:O4'	9:I:776:A:O2'	1.96	0.83
9:I:1073:G:H4'	21:W:100:ASN:HA	1.58	0.83
9:I:1276:C:H1'	9:I:1281:C:C2	2.13	0.83
9:I:1877:G:O2'	9:I:1878:C:H5'	1.78	0.83
9:I:2700:G:C6	9:I:2734:U:N3	2.46	0.83
9:I:2957:C:H2'	9:I:2958:G:H8	1.42	0.83
9:I:3341:A:HO2'	9:I:3342:A:H8	1.24	0.83
9:I:3799:U:O2'	14:N:132:ARG:NE	2.12	0.83
9:I:3874:C:H3'	9:I:3875:A:H8	1.43	0.83
9:I:3888:C:H5	36:l:29:ARG:HH22	1.27	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4026:G:C2'	9:I:4027:U:H5'	2.06	0.83
9:I:4132:G:OP2	12:L:83:ARG:NH2	2.12	0.83
11:K:154:ALA:O	11:K:159:THR:OG1	1.94	0.83
20:V:14:SER:O	20:V:18:GLN:N	2.09	0.83
49:y:19:HIS:CA	49:y:22:THR:HB	2.08	0.83
1:A:84:ARG:CZ	29:e:51:PRO:HD3	2.08	0.83
1:A:97:LYS:CD	22:X:4:VAL:HG23	2.08	0.83
3:C:7:ALA:O	3:C:18:GLN:N	2.11	0.83
8:H:28:LEU:HD12	30:f:77:PRO:O	1.79	0.83
9:I:355:A:O4'	9:I:387:G:N2	2.11	0.83
9:I:1003:A:O2'	9:I:1004:A:O4'	1.96	0.83
9:I:1762:A:H3'	9:I:1763:G:C8	2.13	0.83
9:I:2365:C:N4	9:I:2403:A:C5	2.47	0.83
9:I:3028:U:O2'	9:I:3031:G:O6	1.96	0.83
9:I:3791:A:H2'	9:I:3816:A:H1'	1.60	0.83
9:I:3855:G:C2'	9:I:3856:C:H5'	2.09	0.83
9:I:3960:C:OP1	37:m:6:SER:HB3	1.77	0.83
9:I:4047:G:N2	9:I:4077:G:H1'	1.94	0.83
9:I:4240:U:O4	9:I:4249:C:H5'	1.78	0.83
10:J:80:G:O6	10:J:94:U:O2	1.96	0.83
13:M:129:PRO:CD	13:M:156:ASN:HA	2.09	0.83
16:R:58:ASN:ND2	16:R:128:ASN:OD1	2.11	0.83
17:S:63:VAL:HG11	17:S:103:VAL:HG12	1.60	0.83
26:b:97:ALA:HA	26:b:100:MET:HE3	1.59	0.83
31:g:40:THR:HA	31:g:47:ALA:O	1.78	0.83
40:p:75:TYR:HA	40:p:78:PHE:HB3	1.60	0.83
40:p:78:PHE:O	40:p:82:LEU:HG	1.78	0.83
46:v:29:ARG:HG2	46:v:48:THR:HG21	1.59	0.83
7:G:13:GLU:OE1	7:G:17:LYS:NZ	2.11	0.83
9:I:401:G:H4'	9:I:619:C:N3	1.93	0.83
9:I:828:G:N1	9:I:856:C:N3	2.27	0.83
9:I:1348:A:H1'	9:I:1373:A:N6	1.93	0.83
9:I:1417:A:N6	9:I:4386:G:H1'	1.94	0.83
9:I:1701:C:O4'	9:I:1886:G:N2	2.12	0.83
9:I:1807:G:N2	9:I:1809:A:H3'	1.94	0.83
9:I:2205:A:H2'	9:I:2206:A:O4'	1.78	0.83
9:I:2467:A:OP2	41:q:81:LYS:NZ	2.10	0.83
9:I:2618:G:C5'	37:m:22:VAL:HG22	2.08	0.83
9:I:3200:C:O2'	9:I:3251:A:O5'	1.97	0.83
9:I:3252:U:OP1	9:I:3254:C:N4	2.11	0.83
9:I:3773:G:O6	46:v:4:ARG:NE	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3780:G:N2	9:I:3838:U:O2	2.12	0.83
9:I:3785:U:C2	9:I:3835:G:N1	2.41	0.83
9:I:3809:G:H1'	14:N:124:ARG:CB	2.07	0.83
10:J:4:U:P	10:J:60:G:H1'	2.17	0.83
10:J:11:C:C2	46:v:64:PRO:HB3	2.13	0.83
10:J:75:G:H2'	10:J:76:U:C5'	2.08	0.83
11:K:124:LYS:HB3	11:K:125:PRO:HD2	1.59	0.83
12:L:39:ASP:HA	12:L:46:ARG:HA	1.60	0.83
15:O:100:ASN:CA	15:O:116:LEU:HB2	2.09	0.83
16:R:16:TYR:HE2	16:R:52:ASP:CB	1.92	0.83
18:T:76:GLU:HA	18:T:109:LYS:N	1.94	0.83
33:i:43:THR:HG23	33:i:47:TYR:O	1.77	0.83
39:o:46:VAL:HG22	39:o:59:THR:O	1.78	0.83
40:p:73:ILE:CB	40:p:113:LYS:HE3	2.08	0.83
45:u:32:GLY:C	45:u:93:ARG:HB2	2.03	0.83
3:C:8:ARG:HB2	3:C:17:TYR:CE1	2.14	0.83
9:I:632:G:H2'	9:I:633:C:H6	1.44	0.83
9:I:951:U:O4	32:h:102:LYS:HD3	1.79	0.83
9:I:1427:A:H2'	9:I:1428:A:H5''	1.61	0.83
9:I:1541:C:N4	9:I:1938:G:O6	2.09	0.83
9:I:1848:A:H2'	9:I:1849:U:N1	1.94	0.83
9:I:1912:A:H2'	9:I:1913:C:O4'	1.78	0.83
9:I:2757:U:H2'	9:I:2758:A:C4	2.14	0.83
9:I:2977:G:N2	9:I:3000:U:O2	2.12	0.83
11:K:140:VAL:HG13	11:K:190:THR:C	2.04	0.83
15:O:27:GLY:HA3	15:O:78:VAL:HB	1.61	0.83
19:U:26:VAL:CG1	19:U:101:VAL:HG11	2.07	0.83
30:f:13:ALA:HA	30:f:18:THR:HA	1.60	0.83
32:h:38:ILE:HD11	32:h:55:LEU:HD11	1.60	0.83
33:i:47:TYR:CZ	33:i:52:LYS:HB2	2.14	0.83
9:I:955:U:H2'	9:I:956:U:N1	1.94	0.83
9:I:1415:G:H2'	9:I:1416:G:O4'	1.78	0.83
9:I:1964:U:H6	9:I:1964:U:H3'	1.44	0.83
9:I:2230:A:O2'	9:I:2231:C:H5'	1.77	0.83
9:I:2614:G:H2'	9:I:2615:C:C6	2.13	0.83
9:I:3183:A:N6	9:I:3192:A:OP1	2.10	0.83
9:I:3282:C:O2'	9:I:3283:A:H5'	1.78	0.83
9:I:4130:C:H4'	12:L:81:GLU:CD	2.04	0.83
9:I:4326:U:C5'	9:I:4327:U:H2'	2.09	0.83
10:J:74:G:C2	10:J:75:G:H1'	2.14	0.83
13:M:123:LYS:HD3	13:M:189:THR:HG21	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:25:ILE:CG2	15:O:78:VAL:HG11	2.08	0.83
17:S:8:LEU:HB2	17:S:19:VAL:O	1.79	0.83
17:S:64:ARG:HA	17:S:79:PHE:CE1	2.14	0.83
39:o:103:THR:C	39:o:107:ALA:HB2	2.03	0.83
40:p:87:VAL:HG13	41:q:49:ILE:CG1	2.09	0.83
48:x:10:VAL:CG2	48:x:56:LEU:HD22	2.07	0.83
48:x:55:LEU:CB	48:x:59:LYS:HE3	2.09	0.83
5:E:29:ARG:HB2	5:E:32:TYR:CD2	2.14	0.82
9:I:49:A:N6	9:I:360:G:O4'	2.11	0.82
9:I:840:C:H3'	9:I:842:U:H5'	1.59	0.82
9:I:1289:G:H4'	26:b:36:SER:OG	1.79	0.82
9:I:1551:G:H2'	9:I:1551:G:OP2	1.79	0.82
9:I:1761:G:H2'	9:I:1762:A:H8	1.43	0.82
9:I:2749:U:C5'	9:I:2750:G:H5''	2.04	0.82
9:I:2995:G:C2'	9:I:2996:A:H8	1.92	0.82
9:I:3896:U:H4'	9:I:3897:C:C4	2.14	0.82
9:I:4235:A:H3'	9:I:4236:G:C8	2.14	0.82
9:I:4239:C:H1'	15:O:138:GLN:NE2	1.92	0.82
11:K:3:VAL:HG13	11:K:19:VAL:HG21	1.61	0.82
12:L:35:THR:OG1	12:L:79:LEU:HD22	1.79	0.82
12:L:186:LEU:HD21	39:o:3:ILE:HG21	1.59	0.82
14:N:46:LYS:HZ2	14:N:83:PRO:HB2	1.43	0.82
14:N:95:MET:O	14:N:99:PHE:N	2.12	0.82
15:O:8:VAL:HB	15:O:49:LEU:HB2	1.60	0.82
19:U:124:LEU:HD13	19:U:126:ILE:HD11	1.59	0.82
21:W:3:MET:CG	21:W:44:VAL:HG21	2.09	0.82
31:g:70:GLY:O	31:g:98:ARG:NH1	2.12	0.82
34:j:19:THR:HG23	36:l:33:THR:HA	1.58	0.82
40:p:44:TYR:O	40:p:48:ASP:N	2.11	0.82
42:r:12:SER:O	42:r:101:SER:OG	1.96	0.82
9:I:61:U:H5''	9:I:384:C:H1'	1.61	0.82
9:I:664:A:N7	9:I:723:G:O6	2.12	0.82
9:I:1422:G:N2	9:I:4381:U:O2	2.12	0.82
9:I:1571:A:OP2	9:I:1612:U:O2'	1.95	0.82
9:I:1651:C:H2'	9:I:1652:A:H8	1.42	0.82
9:I:1654:U:H2'	9:I:1655:A:H5'	1.61	0.82
9:I:1779:A:H2'	9:I:1780:U:O4'	1.79	0.82
9:I:1819:G:H2'	9:I:1820:A:C8	2.14	0.82
9:I:1981:G:H4'	9:I:1981:G:OP1	1.78	0.82
9:I:2168:A:H2'	9:I:2170:A:H62	1.43	0.82
9:I:2402:C:OP2	9:I:2402:C:H3'	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2717:G:OP1	41:q:68:ARG:NH2	2.12	0.82
9:I:2909:U:O4	9:I:3081:G:O6	1.97	0.82
9:I:3079:C:H3'	9:I:3080:A:H8	1.44	0.82
9:I:3648:A:H2'	9:I:3649:U:C6	2.14	0.82
9:I:3823:U:H2'	9:I:3824:G:C1'	2.09	0.82
12:L:48:ILE:HG12	12:L:82:PHE:HB2	1.60	0.82
13:M:19:PHE:HB3	13:M:113:VAL:HG11	1.58	0.82
14:N:73:VAL:CG2	14:N:76:PHE:HB2	2.09	0.82
17:S:105:ARG:CD	17:S:122:VAL:HG13	2.08	0.82
26:b:113:LYS:HB2	26:b:117:LEU:HD12	1.61	0.82
30:f:113:LYS:NZ	30:f:116:ARG:HD3	1.94	0.82
38:n:38:VAL:HG11	38:n:86:ILE:CG2	2.08	0.82
40:p:107:ALA:O	40:p:110:GLU:HB2	1.78	0.82
43:s:4:GLU:HG2	43:s:8:LEU:CD1	2.08	0.82
47:w:37:PHE:HB2	47:w:46:VAL:CG1	2.09	0.82
49:y:9:THR:HG22	49:y:55:LYS:CE	2.07	0.82
1:A:12:ARG:HG2	1:A:53:ASP:CG	2.04	0.82
1:A:84:ARG:HD3	29:e:51:PRO:HB3	1.62	0.82
9:I:67:G:H21	9:I:151:A:H1'	1.44	0.82
9:I:351:C:O2	9:I:354:C:N4	2.11	0.82
9:I:914:A:H2'	9:I:915:U:O4'	1.79	0.82
9:I:1178:A:H4'	28:d:102:THR:CA	2.06	0.82
9:I:1376:A:H3'	26:b:6:ILE:HD11	1.61	0.82
9:I:1433:A:H2'	9:I:1434:G:C1'	2.10	0.82
9:I:1797:G:OP1	44:t:84:PHE:HB3	1.79	0.82
9:I:2782:G:OP1	9:I:2783:C:N4	2.12	0.82
9:I:2847:A:H2'	9:I:2848:A:H8	1.44	0.82
9:I:3316:C:O2'	9:I:3317:G:H5'	1.78	0.82
9:I:3806:U:H4'	14:N:67:THR:HB	1.60	0.82
9:I:4025:A:H5'	15:O:173:ALA:HB1	1.61	0.82
9:I:4132:G:P	12:L:83:ARG:HH22	2.00	0.82
9:I:4250:U:C1'	9:I:4251:A:H5''	2.05	0.82
10:J:39:U:O2'	10:J:41:C:H3'	1.78	0.82
12:L:7:LYS:HG2	12:L:198:GLY:O	1.78	0.82
17:S:13:ASN:HB3	17:S:98:ARG:HB2	1.60	0.82
18:T:132:ARG:HH12	18:T:142:ILE:HG21	1.42	0.82
20:V:28:LEU:HD11	20:V:33:ILE:N	1.94	0.82
20:V:114:GLU:HB3	20:V:118:ARG:CG	2.08	0.82
22:X:172:VAL:HG12	22:X:174:LEU:HD12	1.61	0.82
34:j:7:LYS:HE2	34:j:50:LYS:HG3	1.60	0.82
34:j:18:TYR:OH	36:l:33:THR:O	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:o:24:THR:HB	39:o:87:ARG:O	1.79	0.82
40:p:12:ARG:HA	40:p:15:LYS:HZ1	1.44	0.82
42:r:66:ILE:HG23	42:r:69:LEU:CD1	2.02	0.82
42:r:83:LYS:O	42:r:84:ARG:NH1	2.13	0.82
9:I:184:U:H2'	9:I:185:C:C6	2.15	0.82
9:I:291:G:C5	9:I:292:G:H1'	2.14	0.82
9:I:1091:A:N1	9:I:1109:A:H4'	1.94	0.82
9:I:1374:A:H2'	9:I:1375:U:C6	2.13	0.82
9:I:1808:G:H4'	44:t:16:LYS:NZ	1.93	0.82
9:I:1945:C:H2'	9:I:1946:G:C8	2.14	0.82
9:I:2929:G:C2	9:I:2930:G:H5'	2.14	0.82
9:I:3332:C:N4	9:I:3393:A:OP2	2.11	0.82
9:I:3848:C:OP1	46:v:22:LEU:HD12	1.80	0.82
9:I:3869:G:N1	9:I:3871:A:H5''	1.92	0.82
9:I:4234:A:H2'	9:I:4235:A:H8	1.44	0.82
13:M:104:ALA:O	13:M:107:SER:N	2.10	0.82
16:R:31:GLU:CB	16:R:142:ILE:HG13	2.08	0.82
19:U:62:LYS:HB2	19:U:64:TRP:CH2	2.15	0.82
21:W:126:LEU:HG	21:W:131:ALA:HB2	1.60	0.82
26:b:64:ALA:HB1	26:b:126:ALA:HB3	1.60	0.82
41:q:4:VAL:CG1	41:q:39:LEU:HB2	2.08	0.82
45:u:25:LYS:HZ3	45:u:43:ASP:HB2	1.42	0.82
49:y:3:THR:O	49:y:4:ILE:HD13	1.80	0.82
3:C:4:ILE:HG13	3:C:21:VAL:HG13	1.61	0.82
9:I:129:A:N1	9:I:232:C:O2'	2.13	0.82
9:I:701:A:N6	9:I:3341:A:H1'	1.93	0.82
9:I:788:U:N3	9:I:791:A:OP2	2.11	0.82
9:I:1003:A:H2'	9:I:1004:A:C8	2.14	0.82
9:I:1764:C:H5''	9:I:1765:A:OP1	1.78	0.82
9:I:1778:A:H2'	9:I:1862:A:C1'	2.10	0.82
9:I:2032:A:N1	9:I:3514:A:O2'	2.12	0.82
9:I:2136:G:H5''	18:T:129:LYS:HB2	1.61	0.82
9:I:2352:U:H5'	49:y:42:ALA:CA	2.07	0.82
9:I:2614:G:H2'	9:I:2615:C:O4'	1.79	0.82
9:I:2663:A:O2'	9:I:2664:C:H5'	1.80	0.82
9:I:3798:G:O3'	14:N:129:MET:HA	1.78	0.82
9:I:3806:U:O2	14:N:36:ASN:ND2	2.13	0.82
9:I:4201:U:OP1	20:V:64:ARG:NH2	2.13	0.82
10:J:29:C:H2'	10:J:30:C:H6	1.45	0.82
11:K:5:CYS:HB3	11:K:12:ARG:HG2	1.60	0.82
12:L:112:THR:HA	12:L:168:GLU:C	2.05	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:14:LYS:HZ2	14:N:171:ALA:HB2	1.43	0.82
15:O:148:ARG:HA	15:O:161:VAL:HG12	1.59	0.82
16:R:17:VAL:HB	16:R:139:VAL:HG22	1.61	0.82
17:S:3:GLN:O	17:S:21:CYS:HB3	1.78	0.82
19:U:30:SER:N	19:U:105:MET:O	2.13	0.82
38:n:9:ARG:HA	38:n:12:ARG:CZ	2.09	0.82
42:r:69:LEU:HD23	42:r:109:ASP:N	1.94	0.82
44:t:45:GLN:HB3	44:t:56:GLY:O	1.77	0.82
45:u:78:GLN:CD	45:u:88:HIS:HB3	2.05	0.82
46:v:18:GLY:N	46:v:57:VAL:O	2.11	0.82
2:B:88:ARG:NE	9:I:2213:G:N7	2.28	0.82
5:E:4:TYR:HA	5:E:39:ALA:HB1	1.61	0.82
9:I:412:G:O3'	9:I:427:G:N2	2.11	0.82
9:I:516:G:O2'	9:I:529:G:H4'	1.78	0.82
9:I:1275:G:O2'	9:I:1281:C:O4'	1.97	0.82
9:I:1479:A:N1	9:I:4328:G:O2'	2.12	0.82
9:I:1488:G:O2'	9:I:4284:U:H4'	1.80	0.82
9:I:1491:G:H2'	9:I:1492:C:C6	2.14	0.82
9:I:1904:A:H61	9:I:1921:C:H2'	1.44	0.82
9:I:2045:U:H3'	9:I:2045:U:O2	1.79	0.82
9:I:2103:A:H4'	9:I:2104:G:O5'	1.78	0.82
9:I:3320:G:H2'	9:I:3321:U:C6	2.13	0.82
9:I:3767:A:H2'	9:I:3768:A:C8	2.14	0.82
9:I:3794:C:O2	9:I:3810:G:N2	2.11	0.82
9:I:4431:U:H2'	9:I:4432:U:C6	2.13	0.82
10:J:16:C:C3'	10:J:17:G:H8	1.92	0.82
14:N:36:ASN:O	14:N:152:ASP:N	2.13	0.82
17:S:6:THR:O	17:S:8:LEU:HG	1.79	0.82
21:W:93:TRP:CZ2	21:W:98:LEU:HG	2.14	0.82
25:a:81:ASN:HB3	25:a:84:VAL:HG12	1.62	0.82
26:b:92:PRO:HA	26:b:95:ARG:CB	2.10	0.82
30:f:18:THR:HG21	30:f:80:GLY:HA3	1.61	0.82
43:s:6:ARG:NH2	43:s:37:ASP:OD2	2.12	0.82
45:u:44:HIS:HA	45:u:47:VAL:CG2	2.09	0.82
4:D:70:TRP:N	9:I:253:G:O3'	2.12	0.82
7:G:65:ILE:O	7:G:69:LYS:HE2	1.80	0.82
9:I:404:U:O2'	9:I:497:A:H3'	1.79	0.82
9:I:617:C:N4	9:I:620:A:OP2	2.13	0.82
9:I:1034:A:H2'	9:I:1035:A:C8	2.15	0.82
9:I:1105:G:H2'	9:I:1106:C:C6	2.15	0.82
9:I:1640:C:O2'	9:I:1641:G:OP2	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2039:G:H2'	9:I:2040:C:C1'	2.10	0.82
9:I:2500:C:O3'	16:R:37:ARG:NH2	2.13	0.82
9:I:2832:G:H4'	43:s:18:GLU:CG	2.08	0.82
9:I:2935:G:H2'	9:I:2936:U:C6	2.14	0.82
9:I:3014:U:H2'	9:I:3015:G:O4'	1.78	0.82
9:I:3184:A:H5''	9:I:3185:C:OP2	1.79	0.82
9:I:3839:G:H5''	9:I:3841:C:P	2.19	0.82
9:I:3972:A:C5'	37:m:32:LYS:HE2	2.09	0.82
11:K:132:ARG:CD	11:K:185:ALA:HB1	2.09	0.82
11:K:141:HIS:HA	11:K:161:VAL:HG21	1.61	0.82
14:N:55:ASP:OD1	14:N:140:ILE:HG13	1.80	0.82
15:O:3:VAL:HG13	15:O:68:ARG:NE	1.94	0.82
15:O:79:THR:HG23	15:O:80:GLU:OE1	1.79	0.82
19:U:6:ARG:HH22	19:U:8:LYS:HA	1.45	0.82
26:b:135:LYS:NZ	26:b:139:ASP:OD1	2.13	0.82
34:j:2:ILE:O	34:j:25:ARG:NH2	2.13	0.82
39:o:77:SER:O	39:o:80:VAL:HG22	1.79	0.82
39:o:86:LYS:O	39:o:87:ARG:HG2	1.80	0.82
46:v:16:PHE:O	46:v:57:VAL:HB	1.79	0.82
48:x:45:VAL:O	48:x:48:ASP:N	2.11	0.82
1:A:71:GLY:HA3	1:A:80:ARG:HB3	1.60	0.82
3:C:31:ARG:NE	9:I:230:U:OP1	2.13	0.82
9:I:274:G:H2'	9:I:275:G:H8	1.44	0.82
9:I:423:G:H2'	9:I:424:G:C8	2.14	0.82
9:I:689:G:O6	30:f:41:ARG:NH1	2.12	0.82
9:I:735:C:O2'	25:a:88:MET:SD	2.37	0.82
9:I:1260:A:N6	9:I:1273:A:O2'	2.13	0.82
9:I:2136:G:C5'	18:T:129:LYS:H	1.93	0.82
9:I:2156:G:H2'	9:I:2157:U:C6	2.14	0.82
9:I:2507:C:O2'	9:I:2508:A:H5'	1.79	0.82
9:I:2565:G:N1	9:I:2585:G:O6	2.10	0.82
9:I:2617:C:H1'	37:m:18:LYS:NZ	1.95	0.82
9:I:2789:C:C5'	20:V:71:ARG:HD3	2.08	0.82
9:I:2933:A:H3'	9:I:2934:U:H6	1.43	0.82
9:I:3283:A:OP1	11:K:220:ARG:HD3	1.80	0.82
9:I:3503:A:OP1	42:r:41:LYS:NZ	2.11	0.82
9:I:3756:U:H5'	46:v:31:ARG:NH1	1.93	0.82
9:I:4245:G:H5'	15:O:2:ARG:CB	2.10	0.82
10:J:74:G:H4'	45:u:29:ILE:HB	1.62	0.82
15:O:86:LEU:HD21	15:O:148:ARG:N	1.95	0.82
15:O:132:LEU:HD13	15:O:143:VAL:HG11	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:h:32:ILE:HD13	32:h:58:GLU:HG2	1.61	0.82
39:o:26:GLU:OE2	39:o:41:ALA:HB1	1.80	0.82
40:p:61:ILE:CD1	40:p:91:ARG:HG2	2.09	0.82
9:I:282:U:H2'	9:I:283:C:H6	1.45	0.82
9:I:370:A:H2'	9:I:371:C:O4'	1.80	0.82
9:I:569:G:H1'	9:I:819:U:C4	2.14	0.82
9:I:795:C:O3'	30:f:115:ARG:NH2	2.11	0.82
9:I:866:G:H2'	9:I:867:C:H6	1.45	0.82
9:I:894:G:N2	9:I:903:U:O2	2.11	0.82
9:I:3018:G:H2'	9:I:3019:A:C4	2.14	0.82
9:I:3078:U:H2'	9:I:3079:C:C5'	2.10	0.82
9:I:3214:U:H2'	9:I:3215:G:H1'	1.61	0.82
9:I:3320:G:H2'	9:I:3321:U:H6	1.44	0.82
9:I:3352:A:N6	9:I:3378:G:H1'	1.95	0.82
9:I:3358:U:H2'	9:I:3359:U:N3	1.94	0.82
9:I:3405:PSU:N3	9:I:3412:A:O2'	2.12	0.82
9:I:3777:C:OP1	9:I:3777:C:H4'	1.79	0.82
9:I:3824:G:H2'	9:I:3825:G:C8	2.14	0.82
10:J:103:A:C2'	10:J:104:G:H5'	2.04	0.82
11:K:124:LYS:H	11:K:127:ASN:HB2	1.43	0.82
13:M:6:LYS:H	13:M:120:VAL:HG23	1.44	0.82
13:M:18:THR:CB	13:M:106:LYS:HA	2.10	0.82
20:V:33:ILE:HG13	20:V:114:GLU:HG3	1.61	0.82
21:W:97:MET:CA	21:W:104:VAL:HG21	2.08	0.82
30:f:11:ILE:HG13	30:f:20:VAL:HG13	1.60	0.82
38:n:17:LEU:HD13	38:n:41:PRO:HB3	1.60	0.82
46:v:26:ILE:CA	46:v:50:PHE:HB2	2.10	0.82
2:B:47:LYS:HD2	9:I:807:C:OP1	1.78	0.82
9:I:156:U:C2'	9:I:157:G:H5'	2.10	0.82
9:I:1003:A:C2	9:I:1025:G:H1'	2.13	0.82
9:I:1691:A:H2'	9:I:1692:C:H6	1.43	0.82
9:I:2357:G:N2	9:I:2414:A:N1	2.26	0.82
9:I:2406:C:H2'	9:I:2407:U:H5'	1.59	0.82
9:I:3072:U:H2'	9:I:3073:A:H5'	1.62	0.82
9:I:3344:G:H2'	9:I:3345:U:C6	2.14	0.82
9:I:4225:G:H2'	9:I:4226:G:C8	2.15	0.82
12:L:123:LYS:CD	12:L:124:ARG:HH12	1.92	0.82
17:S:18:ARG:HG2	17:S:44:LYS:CB	2.09	0.82
38:n:98:TYR:HE1	38:n:106:ALA:HB3	1.44	0.82
46:v:37:ALA:HB2	46:v:49:LEU:HD22	0.88	0.82
46:v:42:GLY:O	46:v:49:LEU:HD23	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1099:C:O2'	9:I:1101:A:OP1	1.98	0.81
9:I:1105:G:H2'	9:I:1106:C:H6	1.45	0.81
9:I:2429:C:H2'	9:I:2430:A:H8	1.45	0.81
9:I:2530:G:H2'	9:I:2531:G:O4'	1.79	0.81
9:I:3158:A:H61	9:I:3490:C:N4	1.78	0.81
9:I:3181:G:O2'	9:I:3182:U:O5'	1.98	0.81
9:I:3268:C:H2'	9:I:3269:U:C5'	2.10	0.81
9:I:3585:C:H5''	9:I:3586:U:H3'	1.60	0.81
9:I:3628:A:N6	9:I:3651:G:O2'	2.13	0.81
9:I:3783:G:H5'	9:I:3878:U:C2	2.15	0.81
9:I:3937:C:H2'	9:I:3938:G:H8	1.45	0.81
10:J:18:C:H2'	10:J:19:G:C8	2.15	0.81
10:J:39:U:C2'	10:J:41:C:H5''	2.10	0.81
10:J:77:A:C2'	10:J:78:G:H5'	2.10	0.81
11:K:150:GLY:HA2	11:K:188:ARG:NH1	1.95	0.81
12:L:7:LYS:NZ	12:L:9:VAL:HA	1.95	0.81
12:L:108:ASP:O	12:L:203:VAL:HA	1.79	0.81
12:L:151:THR:HG22	12:L:152:PRO:CD	2.08	0.81
15:O:132:LEU:HD21	15:O:144:ALA:HB2	1.60	0.81
18:T:94:THR:O	18:T:98:ALA:N	2.13	0.81
37:m:1:MET:HB3	37:m:34:LYS:CD	2.10	0.81
37:m:16:ILE:CD1	37:m:25:VAL:HG22	2.09	0.81
40:p:63:ARG:HH22	40:p:99:VAL:HG21	1.43	0.81
44:t:32:LYS:HG3	44:t:63:ALA:HB1	1.62	0.81
2:B:63:ARG:NH2	9:I:2215:A:H5'	1.94	0.81
9:I:20:G:H2'	9:I:21:G:H8	1.46	0.81
9:I:69:U:O2'	9:I:70:A:N7	2.13	0.81
9:I:403:G:O6	23:Y:1:ALA:N	2.11	0.81
9:I:544:C:OP1	23:Y:58:GLN:NE2	2.13	0.81
9:I:1059:U:C5'	29:e:49:ILE:HG12	2.08	0.81
9:I:2247:5MU:O2'	9:I:2248:G:OP2	1.98	0.81
9:I:3003:A:O2'	9:I:3004:G:OP2	1.97	0.81
9:I:3015:G:H5''	9:I:3017:U:H5	1.39	0.81
9:I:3060:A:H4'	9:I:3061:G:OP2	1.78	0.81
9:I:3336:G:O6	9:I:3392:U:C4	2.33	0.81
9:I:3852:A:O2'	9:I:3853:C:H5'	1.81	0.81
9:I:4134:G:P	16:R:95:ARG:HH21	2.03	0.81
10:J:33:A:H3'	10:J:43:G:N7	1.95	0.81
13:M:140:ASP:O	13:M:141:MET:HE2	1.80	0.81
14:N:7:TYR:CE2	14:N:29:ARG:HD2	2.14	0.81
14:N:101:ARG:NH1	14:N:139:GLU:OE2	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:18:ILE:CD1	15:O:23:ILE:HA	2.09	0.81
15:O:88:LEU:HD13	15:O:161:VAL:HA	1.60	0.81
16:R:31:GLU:O	16:R:34:ARG:HG3	1.80	0.81
19:U:38:ARG:HH11	19:U:97:GLN:HG2	1.44	0.81
20:V:22:ARG:HB3	20:V:70:THR:HA	1.59	0.81
25:a:5:GLU:OE1	25:a:63:ASN:ND2	2.12	0.81
33:i:47:TYR:CE1	33:i:52:LYS:HD3	2.15	0.81
34:j:3:ARG:CZ	34:j:23:ASN:HB2	2.10	0.81
41:q:11:GLN:HG3	41:q:39:LEU:HD11	1.62	0.81
1:A:84:ARG:NH2	9:I:1058:C:H2'	1.94	0.81
1:A:96:LYS:HG2	29:e:61:TYR:HE2	1.45	0.81
3:C:31:ARG:HD2	9:I:311:C:P	2.21	0.81
9:I:30:G:H5'	9:I:305:A:N1	1.95	0.81
9:I:59:A:OP1	9:I:110:G:N2	2.12	0.81
9:I:257:G:H1	9:I:267:U:H3	0.82	0.81
9:I:285:C:H2'	9:I:286:U:C6	2.14	0.81
9:I:447:A:H3'	9:I:448:G:H8	1.42	0.81
9:I:963:A:N3	9:I:968:A:O2'	2.12	0.81
9:I:1591:A:H1'	9:I:1592:U:C5	2.15	0.81
9:I:1644:A:O4'	43:s:3:ARG:NH2	2.12	0.81
9:I:1771:G:P	9:I:1867:G:H22	2.03	0.81
9:I:1872:G:H1	9:I:1900:G:C2'	1.94	0.81
9:I:2051:G:H2'	9:I:2052:U:H6	1.43	0.81
9:I:2077:G:H2'	9:I:2078:G:C8	2.15	0.81
9:I:2192:C:H5''	11:K:38:LYS:CG	2.10	0.81
9:I:2256:A:C2	9:I:2257:G:H1'	2.15	0.81
9:I:2281:A:OP2	11:K:216:ARG:NH1	2.14	0.81
9:I:2310:U:H5''	9:I:2311:U:OP1	1.80	0.81
9:I:2328:U:C4'	9:I:2331:G:H22	1.93	0.81
9:I:2349:A:H61	9:I:2422:A:H61	1.26	0.81
9:I:2494:A:OP2	9:I:2648:G:N1	2.12	0.81
9:I:2534:A:H2'	9:I:2535:G:H8	1.44	0.81
9:I:2562:G:N2	9:I:2589:A:O2'	2.12	0.81
9:I:2878:A:N3	9:I:2899:U:H1'	1.94	0.81
9:I:2930:G:O2'	9:I:3009:A:N1	2.13	0.81
9:I:2975:U:O2	9:I:3004:G:N2	2.12	0.81
9:I:3006:C:H2'	9:I:3007:U:C1'	2.11	0.81
9:I:3283:A:OP1	11:K:220:ARG:NH1	2.13	0.81
9:I:3336:G:N2	9:I:3392:U:O2	2.12	0.81
9:I:3774:G:H4'	9:I:3821:A:H5'	1.61	0.81
9:I:3840:A:H4'	9:I:3841:C:OP2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3895:U:N3	9:I:3909:G:N1	2.28	0.81
9:I:3904:G:H2'	9:I:3905:A:O4'	1.78	0.81
9:I:4177:C:O3'	39:o:74:GLN:NE2	2.14	0.81
9:I:4203:G:H2'	9:I:4204:C:C6	2.15	0.81
9:I:4241:G:H1'	9:I:4251:A:N6	1.96	0.81
9:I:4255:A:H1'	15:O:142:GLN:NE2	1.95	0.81
10:J:39:U:N3	10:J:43:G:OP2	2.11	0.81
11:K:124:LYS:N	11:K:127:ASN:HB2	1.95	0.81
12:L:8:LYS:HE3	12:L:11:MET:HE3	1.61	0.81
12:L:25:THR:HG21	12:L:193:VAL:HG13	1.62	0.81
13:M:111:GLU:OE2	13:M:114:ARG:NH2	2.14	0.81
14:N:117:SER:H	14:N:129:MET:CE	1.94	0.81
15:O:154:GLU:OE2	15:O:157:LYS:N	2.13	0.81
16:R:42:ALA:HA	40:p:66:ALA:HB1	1.60	0.81
16:R:97:PRO:O	16:R:100:VAL:HG22	1.81	0.81
17:S:22:ILE:HG12	17:S:41:ILE:CA	2.10	0.81
19:U:69:PRO:CB	19:U:92:TRP:HB3	2.09	0.81
21:W:176:LEU:HB2	21:W:178:ILE:HG13	1.62	0.81
22:X:155:ARG:HG2	22:X:192:TYR:O	1.80	0.81
24:Z:3:GLN:HB3	24:Z:31:GLY:O	1.80	0.81
24:Z:95:GLY:CA	24:Z:113:ASN:HA	2.10	0.81
26:b:28:ILE:HG21	26:b:101:ARG:HA	1.60	0.81
26:b:106:ALA:HB1	26:b:132:THR:HB	1.61	0.81
27:c:9:MET:O	27:c:13:ILE:N	2.10	0.81
31:g:34:THR:N	31:g:53:ARG:O	2.14	0.81
39:o:6:GLN:HA	39:o:9:GLN:CD	2.05	0.81
39:o:27:VAL:HB	39:o:73:PHE:CE1	2.15	0.81
39:o:46:VAL:HG11	39:o:49:ILE:HG12	1.61	0.81
40:p:47:ARG:HG2	40:p:51:GLN:OE1	1.79	0.81
40:p:97:ILE:CD1	40:p:108:LEU:HD11	2.10	0.81
45:u:28:ALA:HB3	45:u:40:ILE:HG13	1.61	0.81
49:y:22:THR:O	49:y:46:MET:HE3	1.78	0.81
5:E:42:ARG:HG3	9:I:671:U:O2'	1.79	0.81
7:G:26:MET:HE1	7:G:55:ILE:O	1.79	0.81
9:I:1662:U:C4'	9:I:1663:C:H5	1.93	0.81
9:I:2752:U:H2'	9:I:2753:G:H8	1.44	0.81
9:I:3356:G:H3'	9:I:3357:G:H8	1.46	0.81
9:I:3806:U:H4'	14:N:67:THR:CB	2.10	0.81
9:I:4211:C:H1'	39:o:93:LYS:HD2	1.60	0.81
10:J:23:G:N7	10:J:55:G:H2'	1.95	0.81
10:J:110:U:H2'	10:J:111:G:C8	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:111:G:H2'	10:J:112:C:C6	2.15	0.81
12:L:34:VAL:HA	12:L:50:VAL:HG12	1.63	0.81
12:L:110:THR:H	12:L:202:ILE:N	1.77	0.81
15:O:43:LYS:HB2	15:O:50:THR:CG2	2.10	0.81
18:T:90:VAL:HG22	18:T:94:THR:HB	1.63	0.81
18:T:110:VAL:CB	18:T:127:VAL:HG22	2.10	0.81
18:T:127:VAL:HG11	18:T:135:ILE:CD1	2.08	0.81
20:V:90:ARG:HG3	20:V:92:GLY:O	1.81	0.81
25:a:3:HIS:HB2	25:a:92:THR:HG23	1.62	0.81
28:d:36:PHE:CD1	28:d:69:ILE:HG23	2.15	0.81
29:e:15:ASP:OD2	29:e:68:ARG:NH2	2.11	0.81
29:e:93:ASP:OD2	29:e:95:GLN:NE2	2.14	0.81
30:f:1:ARG:N	30:f:65:TYR:HA	1.95	0.81
34:j:18:TYR:CE1	34:j:20:THR:HB	2.15	0.81
1:A:2:LYS:HG3	9:I:1047:G:H4'	1.61	0.81
4:D:31:TYR:OH	31:g:10:PRO:HD3	1.81	0.81
9:I:920:U:O2'	24:Z:14:LYS:NZ	2.12	0.81
9:I:949:U:H3'	32:h:100:ARG:NH2	1.95	0.81
9:I:1487:U:H2'	9:I:1488:G:H8	1.44	0.81
9:I:2136:G:P	18:T:128:THR:HA	2.19	0.81
9:I:2242:A:H2'	9:I:2243:A:H8	1.45	0.81
9:I:2526:A:H2'	9:I:2528:G:OP2	1.79	0.81
9:I:3304:A:O2'	9:I:3305:G:H5'	1.81	0.81
9:I:3334:G:H2'	9:I:3335:U:H6	1.45	0.81
9:I:3406:A:OP2	9:I:3412:A:N6	2.13	0.81
9:I:3821:A:OP1	9:I:3882:A:N6	2.13	0.81
9:I:3824:G:O2'	9:I:3825:G:H5'	1.80	0.81
9:I:3846:A:H62	9:I:3859:G:N2	1.76	0.81
9:I:4324:C:H4'	9:I:4329:A:OP1	1.79	0.81
11:K:87:SER:CB	11:K:157:ALA:HB2	2.10	0.81
12:L:50:VAL:O	12:L:80:TRP:N	2.12	0.81
12:L:64:GLU:HA	12:L:67:HIS:CB	2.11	0.81
14:N:147:ARG:HD3	14:N:149:ARG:HG2	1.61	0.81
15:O:169:ARG:NH2	37:m:31:PRO:HD3	1.95	0.81
16:R:118:MET:O	16:R:121:LYS:NZ	2.12	0.81
17:S:64:ARG:CD	17:S:102:PRO:HG2	2.10	0.81
34:j:22:LYS:HE2	34:j:27:LYS:HB3	1.61	0.81
40:p:98:ALA:O	40:p:102:LYS:N	2.12	0.81
41:q:31:GLU:H	41:q:63:VAL:HB	1.42	0.81
3:C:42:ILE:O	3:C:44:SER:N	2.12	0.81
9:I:372:A:H61	9:I:390:G:H1'	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:651:U:N3	9:I:752:A:C6	2.48	0.81
9:I:1611:A:O2'	48:x:57:ASN:ND2	2.13	0.81
9:I:1727:A:HO2'	9:I:1728:C:H6	1.27	0.81
9:I:1779:A:H61	9:I:1861:G:H1'	1.45	0.81
9:I:2045:U:H2'	9:I:2047:A:H5'	1.62	0.81
9:I:2136:G:OP1	18:T:129:LYS:N	2.14	0.81
9:I:2150:C:H3'	9:I:2151:G:H5''	1.62	0.81
9:I:3201:G:C6	9:I:3245:U:N3	2.48	0.81
9:I:4153:G:H1'	9:I:4156:A:H62	1.45	0.81
9:I:4193:C:H3'	9:I:4194:A:O4'	1.80	0.81
12:L:106:LYS:HA	12:L:175:LEU:O	1.81	0.81
16:R:32:LEU:CD2	16:R:142:ILE:HG21	2.08	0.81
19:U:96:ILE:CG2	19:U:102:LEU:HD21	2.10	0.81
21:W:203:ALA:HB3	21:W:206:ALA:HB3	1.62	0.81
33:i:11:LYS:HA	33:i:14:MET:HE2	1.63	0.81
34:j:9:VAL:HA	34:j:17:PHE:CB	2.11	0.81
38:n:19:GLU:CG	46:v:39:ALA:HA	2.09	0.81
39:o:20:ARG:H	39:o:23:ASP:HB2	1.44	0.81
3:C:23:ASP:OD1	9:I:229:G:H1'	1.80	0.81
4:D:68:LYS:CG	9:I:252:A:H3'	2.06	0.81
5:E:19:LYS:NZ	9:I:674:A:O2'	2.14	0.81
9:I:47:C:H2'	9:I:364:U:O4	1.81	0.81
9:I:402:C:OP1	23:Y:131:ILE:HG23	1.81	0.81
9:I:1795:G:N2	9:I:1844:A:H1'	1.96	0.81
9:I:2192:C:C5'	11:K:38:LYS:HD3	2.11	0.81
9:I:2265:C:H2'	9:I:2266:U:C6	2.16	0.81
9:I:4073:C:O2'	9:I:4074:PSU:H5''	1.80	0.81
9:I:4252:A:C1'	15:O:63:GLN:HE22	1.94	0.81
10:J:69:C:H2'	10:J:70:C:C6	2.16	0.81
10:J:115:G:O2'	10:J:116:G:H5'	1.80	0.81
15:O:21:GLN:C	15:O:36:LEU:HB3	2.06	0.81
17:S:23:LYS:CB	17:S:40:LYS:HB3	2.07	0.81
18:T:108:ALA:HB3	18:T:125:LEU:HD21	1.61	0.81
19:U:74:THR:HA	19:U:88:ASN:O	1.81	0.81
39:o:12:MET:CE	39:o:53:GLY:HA2	2.10	0.81
41:q:58:VAL:O	41:q:102:SER:HB2	1.80	0.81
44:t:87:GLU:HB2	44:t:92:VAL:CG2	2.10	0.81
9:I:208:U:O2'	9:I:209:C:OP2	1.99	0.81
9:I:453:G:N2	9:I:477:A:N1	2.29	0.81
9:I:690:G:H1'	9:I:695:A:N6	1.95	0.81
9:I:780:A:H5''	9:I:799:G:N2	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1102:C:C5'	21:W:94:LEU:HB3	2.10	0.81
9:I:1476:C:O5'	9:I:1476:C:H6	1.62	0.81
9:I:1479:A:C1'	9:I:4310:G:H1'	2.10	0.81
9:I:1661:A:H2'	9:I:1662:U:C5	2.16	0.81
9:I:1960:A:OP1	43:s:73:ARG:NH2	2.13	0.81
9:I:2137:A:H4'	9:I:2138:G:O5'	1.80	0.81
9:I:2214:U:HO2'	9:I:2217:C:N4	1.79	0.81
9:I:2274:G:H5''	11:K:47:ARG:NH2	1.94	0.81
9:I:2447:G:H5'	19:U:16:ARG:NE	1.95	0.81
9:I:3009:A:H4'	9:I:3050:C:O3'	1.81	0.81
9:I:3358:U:O2	9:I:3372:G:C6	2.34	0.81
10:J:13:U:C5'	10:J:69:C:H1'	2.10	0.81
14:N:39:VAL:HG23	14:N:147:ARG:CZ	2.11	0.81
17:S:58:LEU:HD11	17:S:86:LEU:CB	2.10	0.81
20:V:67:PHE:HA	20:V:72:ASP:O	1.79	0.81
21:W:11:VAL:HG13	21:W:200:ASN:H	1.45	0.81
29:e:5:ARG:NE	29:e:67:LEU:HD12	1.95	0.81
31:g:56:LEU:HD12	31:g:60:PHE:HB2	1.62	0.81
31:g:87:LYS:HG3	31:g:88:D2T:CB1	2.09	0.81
33:i:39:ARG:HG3	33:i:40:HIS:HD1	1.45	0.81
39:o:27:VAL:HG22	39:o:58:PHE:CZ	2.15	0.81
41:q:6:GLN:HG3	41:q:10:LYS:C	2.05	0.81
41:q:29:THR:HG22	41:q:66:HIS:CD2	2.15	0.81
9:I:20:G:H5'	9:I:572:A:H61	1.46	0.81
9:I:252:A:O2'	9:I:253:G:OP1	1.98	0.81
9:I:294:C:H2'	9:I:295:U:H6	1.46	0.81
9:I:311:C:H2'	9:I:312:A:C8	2.16	0.81
9:I:677:U:H1'	9:I:776:A:C4'	2.09	0.81
9:I:841:U:C2	9:I:843:G:H5'	2.15	0.81
9:I:1064:U:N3	9:I:1108:C:OP1	2.13	0.81
9:I:1070:C:H2'	9:I:1071:G:H8	1.44	0.81
9:I:1123:G:OP1	29:e:33:ARG:NH2	2.14	0.81
9:I:1468:A:H2'	9:I:1469:A:C8	2.16	0.81
9:I:1480:U:H3	33:i:48:TYR:HH	1.24	0.81
9:I:2590:A:H2'	9:I:2591:U:C6	2.15	0.81
9:I:2619:G:OP2	9:I:2620:A:O2'	1.97	0.81
9:I:2916:G:N2	9:I:2992:C:O2'	2.14	0.81
9:I:3018:G:H2'	9:I:3019:A:N9	1.96	0.81
9:I:4430:G:H2'	9:I:4431:U:C6	2.15	0.81
11:K:143:VAL:C	11:K:152:GLN:H	1.89	0.81
12:L:124:ARG:NE	12:L:124:ARG:HA	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:157:LEU:HD11	13:M:169:VAL:CB	2.11	0.81
16:R:114:LEU:O	16:R:118:MET:HG3	1.79	0.81
19:U:24:THR:HG23	19:U:99:GLY:O	1.80	0.81
21:W:67:VAL:HG12	21:W:166:GLU:HG3	1.63	0.81
31:g:35:ARG:O	31:g:53:ARG:N	2.12	0.81
38:n:91:PHE:CE1	38:n:106:ALA:HB2	2.16	0.81
39:o:47:ILE:O	39:o:96:LEU:N	2.13	0.81
44:t:3:LYS:CG	44:t:82:VAL:HB	2.09	0.81
48:x:39:SER:HA	48:x:42:LEU:HD13	1.60	0.81
2:B:27:GLN:O	2:B:31:LEU:N	2.11	0.81
4:D:36:LYS:O	4:D:37:ARG:NH1	2.14	0.81
7:G:42:LYS:HB3	7:G:85:ALA:HB2	1.62	0.81
9:I:411:A:H1'	9:I:413:A:H4'	1.63	0.81
9:I:2453:A:H2'	9:I:2454:A:C8	2.16	0.81
9:I:2477:A:N6	9:I:2478:A:H62	1.77	0.81
9:I:3045:A:H2'	9:I:3046:A:C8	2.16	0.81
9:I:3294:C:C2'	11:K:145:MET:HE1	2.10	0.81
9:I:3787:G:O3'	38:n:97:GLN:NE2	2.14	0.81
9:I:3810:G:H2'	9:I:3811:A:C8	2.16	0.81
9:I:4034:C:H4'	9:I:4235:A:C4'	2.10	0.81
9:I:4388:C:H2'	9:I:4389:U:H6	1.45	0.81
10:J:5:G:H5''	10:J:27:C:H5'	1.63	0.81
10:J:73:U:H1'	45:u:37:PRO:CB	2.10	0.81
12:L:6:GLY:O	12:L:200:ASP:HA	1.80	0.81
13:M:129:PRO:HA	13:M:156:ASN:O	1.81	0.81
15:O:15:ASP:O	15:O:26:LYS:HG2	1.81	0.81
16:R:18:VAL:CG1	16:R:56:VAL:HG13	2.10	0.81
16:R:99:ARG:O	16:R:103:ILE:HG12	1.81	0.81
19:U:4:PRO:HA	19:U:68:PHE:HE2	1.41	0.81
20:V:10:LEU:HB2	20:V:12:ARG:HH11	1.46	0.81
20:V:45:ARG:HB3	20:V:49:GLU:HG3	1.62	0.81
39:o:50:ARG:HG2	39:o:52:ARG:HG2	1.63	0.81
43:s:40:LYS:HE2	43:s:58:VAL:O	1.81	0.81
44:t:10:VAL:HA	44:t:71:ILE:HA	1.62	0.81
44:t:47:PRO:HD3	44:t:55:GLY:HA3	1.61	0.81
1:A:7:ALA:N	9:I:1215:A:O3'	2.14	0.80
2:B:80:LEU:HD12	2:B:83:ARG:HB3	1.62	0.80
6:F:27:LYS:CG	6:F:28:PRO:HD2	2.11	0.80
9:I:7:A:N6	23:Y:201:GLU:O	2.14	0.80
9:I:54:A:OP2	9:I:351:C:N4	2.14	0.80
9:I:698:C:H2'	9:I:699:G:C8	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:719:C:H2'	9:I:720:G:C8	2.15	0.80
9:I:763:C:H2'	9:I:764:G:O4'	1.81	0.80
9:I:1215:A:H2'	9:I:1216:C:C5'	2.10	0.80
9:I:1375:U:H4'	26:b:94:ARG:NH1	1.96	0.80
9:I:1386:G:H2'	9:I:1387:C:H6	1.45	0.80
9:I:1582:U:H3'	9:I:1601:A:H62	1.46	0.80
9:I:2346:U:OP2	9:I:2346:U:H4'	1.79	0.80
9:I:3010:G:N3	9:I:3010:G:H2'	1.93	0.80
9:I:3740:G:H2'	9:I:3741:A:C8	2.16	0.80
9:I:3798:G:H4'	14:N:128:SER:C	2.06	0.80
9:I:3871:A:N1	38:n:91:PHE:HB3	1.95	0.80
9:I:3887:U:H3'	36:l:29:ARG:CZ	2.11	0.80
9:I:4121:G:O2'	9:I:4122:C:O4'	1.99	0.80
9:I:4245:G:H4'	15:O:3:VAL:CG2	2.06	0.80
9:I:4319:G:H3'	9:I:4320:A:H8	1.44	0.80
10:J:12:G:N3	10:J:15:G:H1'	1.97	0.80
13:M:19:PHE:CA	13:M:110:SER:HA	2.11	0.80
15:O:79:THR:HG23	15:O:80:GLU:CD	2.05	0.80
23:Y:76:LYS:O	23:Y:80:ARG:N	2.12	0.80
23:Y:77:GLU:OE1	23:Y:80:ARG:NE	2.11	0.80
46:v:23:ALA:HB2	46:v:53:ALA:HA	1.61	0.80
46:v:28:VAL:HG21	46:v:35:PHE:HB3	1.63	0.80
4:D:13:LYS:CE	9:I:273:A:H5'	2.11	0.80
9:I:94:C:H2'	9:I:95:U:O4'	1.82	0.80
9:I:179:U:H2'	9:I:180:A:C8	2.15	0.80
9:I:1313:C:H2'	9:I:1314:U:C6	2.16	0.80
9:I:1569:C:O2'	9:I:1570:G:H5'	1.82	0.80
9:I:1639:U:H1'	9:I:1641:G:N1	1.96	0.80
9:I:2535:G:H2'	9:I:2536:G:H8	1.46	0.80
9:I:2660:G:H2'	9:I:2661:C:H6	1.45	0.80
9:I:2674:U:H2'	9:I:2675:U:H5'	1.62	0.80
9:I:2935:G:H2'	9:I:2936:U:C5	2.16	0.80
9:I:3038:A:H2'	9:I:3039:A:H8	1.45	0.80
9:I:3160:G:H5''	17:S:7:MET:SD	2.21	0.80
9:I:3589:A:C2	9:I:3689:U:H1'	2.17	0.80
9:I:4254:C:H1'	15:O:138:GLN:CD	2.06	0.80
16:R:102:GLU:OE2	16:R:124:VAL:HG11	1.81	0.80
17:S:10:VAL:CG2	17:S:17:ARG:HA	2.10	0.80
27:c:76:ARG:HH21	27:c:79:ARG:HA	1.47	0.80
37:m:25:VAL:HB	37:m:35:GLN:CB	2.11	0.80
43:s:12:ARG:HB3	43:s:33:LYS:CG	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:u:46:LYS:HD3	45:u:50:MET:HE2	1.61	0.80
48:x:13:LEU:HD12	48:x:56:LEU:HD21	1.63	0.80
5:E:18:GLY:HA3	5:E:51:TYR:O	1.82	0.80
8:H:29:ALA:O	8:H:32:ARG:HB2	1.82	0.80
9:I:142:A:H5'	9:I:143:G:O4'	1.80	0.80
9:I:580:G:O6	9:I:757:C:H3'	1.82	0.80
9:I:970:G:H5''	9:I:971:C:H5'	1.61	0.80
9:I:1063:G:N2	9:I:1189:G:H1'	1.96	0.80
9:I:1299:G:H1'	9:I:1302:C:H41	1.46	0.80
9:I:1474:U:C4	9:I:4333:G:O6	2.34	0.80
9:I:1868:A:H2'	9:I:1869:U:H5'	1.62	0.80
9:I:2667:U:C2'	9:I:2670:U:H3	1.94	0.80
9:I:3036:U:H2'	9:I:3037:G:O4'	1.82	0.80
9:I:3064:A:H3'	9:I:3065:A:H8	1.45	0.80
9:I:3176:G:N2	9:I:3251:A:H1'	1.96	0.80
9:I:3401:G:O6	9:I:3417:U:O4	1.99	0.80
9:I:4239:C:H2'	9:I:4240:U:C6	2.15	0.80
9:I:4342:G:C8	39:o:94:ALA:HB2	2.16	0.80
10:J:41:C:N3	14:N:89:THR:OG1	2.12	0.80
13:M:131:THR:CB	13:M:163:ASN:HB3	2.11	0.80
18:T:95:LEU:CD2	18:T:100:ILE:HD11	2.10	0.80
23:Y:64:TYR:CD2	23:Y:93:LEU:HB3	2.15	0.80
28:d:32:LEU:HD21	28:d:42:ARG:HB3	1.61	0.80
34:j:19:THR:HG23	36:l:33:THR:CA	2.11	0.80
9:I:236:G:H2'	9:I:237:A:C8	2.16	0.80
9:I:651:U:H1'	9:I:652:U:C5	2.17	0.80
9:I:866:G:H2'	9:I:867:C:C6	2.15	0.80
9:I:1069:U:H2'	9:I:1070:C:C6	2.16	0.80
9:I:1375:U:H2'	9:I:1376:A:C8	2.17	0.80
9:I:2617:C:H1'	37:m:18:LYS:HZ1	1.44	0.80
9:I:3078:U:H3'	9:I:3079:C:C6	2.11	0.80
9:I:3780:G:H4'	9:I:3781:A:O4'	1.82	0.80
9:I:4024:A:C6	15:O:155:PRO:HG3	2.17	0.80
9:I:4253:G:H22	15:O:138:GLN:HG3	1.46	0.80
10:J:62:C:O2'	10:J:63:G:H5'	1.82	0.80
10:J:63:G:C2'	10:J:64:U:H5'	2.10	0.80
10:J:75:G:N1	10:J:99:G:O6	2.14	0.80
11:K:154:ALA:CA	11:K:176:ARG:HB2	2.11	0.80
13:M:193:VAL:O	13:M:197:GLU:HB2	1.80	0.80
15:O:85:LYS:HE3	15:O:164:ALA:CB	2.11	0.80
15:O:102:ILE:CB	15:O:114:HIS:HB3	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:182:ASP:OD1	22:X:201:ILE:HB	1.81	0.80
23:Y:7:LYS:HB3	23:Y:20:LEU:HD13	1.62	0.80
27:c:21:LYS:O	27:c:62:LEU:HD12	1.81	0.80
34:j:26:THR:OG1	34:j:27:LYS:NZ	2.14	0.80
38:n:40:ALA:H	38:n:47:LEU:HD23	1.45	0.80
41:q:1:MET:HG2	41:q:42:ALA:O	1.81	0.80
42:r:68:ASP:O	42:r:70:LYS:NZ	2.14	0.80
44:t:13:LEU:CG	44:t:68:ASN:HA	2.12	0.80
44:t:33:VAL:HG23	44:t:64:ILE:HG22	1.62	0.80
9:I:1067:G:H22	9:I:1107:G:H1'	1.47	0.80
9:I:1874:A:H2'	9:I:1875:G:O4'	1.82	0.80
9:I:2252:A:O2'	9:I:2253:A:OP2	1.98	0.80
9:I:2318:G:N1	9:I:2682:U:OP2	2.15	0.80
9:I:2367:C:N3	9:I:2406:C:O2'	2.13	0.80
9:I:2832:G:H2'	9:I:2833:G:H8	1.46	0.80
9:I:4020:G:O6	9:I:4031:U:O4	1.99	0.80
9:I:4326:U:H3'	9:I:4327:U:H6	1.46	0.80
14:N:48:LEU:HD11	14:N:147:ARG:CD	2.11	0.80
15:O:67:ALA:CA	15:O:70:LEU:HB2	2.07	0.80
21:W:170:ILE:HG22	21:W:174:ASN:HD21	1.45	0.80
24:Z:52:GLN:HG3	24:Z:55:MET:HE3	1.62	0.80
27:c:104:SER:O	27:c:122:GLY:HA3	1.81	0.80
29:e:80:VAL:O	29:e:84:MET:HE3	1.82	0.80
30:f:22:ILE:CG1	30:f:62:VAL:HG11	2.10	0.80
41:q:62:GLU:HB3	41:q:99:THR:HG21	1.63	0.80
44:t:25:LYS:HE3	44:t:25:LYS:HA	1.63	0.80
48:x:13:LEU:CD1	48:x:52:VAL:HG13	2.10	0.80
4:D:14:MET:H	9:I:272:U:C2'	1.93	0.80
6:F:17:VAL:HG13	6:F:42:MET:HE2	1.64	0.80
8:H:50:SER:OG	8:H:54:ARG:NH2	2.15	0.80
9:I:80:A:OP2	9:I:82:C:N4	2.12	0.80
9:I:534:A:OP1	9:I:534:A:H3'	1.82	0.80
9:I:999:A:H2'	9:I:1000:C:C6	2.17	0.80
9:I:1149:A:H1'	9:I:1279:A:C6	2.17	0.80
9:I:1215:A:H2'	9:I:1216:C:H5''	1.64	0.80
9:I:1804:U:O4	9:I:1813:G:O6	1.99	0.80
9:I:2704:G:O6	9:I:2731:A:H2'	1.81	0.80
9:I:3140:C:H5''	9:I:3141:U:H5''	1.63	0.80
9:I:3831:G:O2'	9:I:3832:C:O5'	1.99	0.80
9:I:3977:C:H4'	19:U:51:ARG:CZ	2.10	0.80
9:I:4023:G:P	15:O:171:LYS:HD2	2.22	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4189:U:O4	9:I:4208:G:O6	1.97	0.80
9:I:4214:U:OP1	39:o:52:ARG:NH2	2.12	0.80
9:I:4223:G:H5'	12:L:190:LYS:HE3	1.63	0.80
9:I:4412:A:H2'	9:I:4413:C:H6	1.43	0.80
11:K:261:ARG:HA	11:K:264:LYS:NZ	1.97	0.80
12:L:37:VAL:CG2	12:L:91:THR:HG23	2.12	0.80
15:O:51:PHE:HB3	15:O:64:ALA:CB	2.11	0.80
15:O:98:LYS:O	15:O:101:VAL:N	2.14	0.80
15:O:154:GLU:OE1	15:O:156:TYR:N	2.15	0.80
16:R:119:PHE:HA	16:R:122:LEU:CD1	2.12	0.80
21:W:123:PHE:CD2	21:W:126:LEU:HD21	2.16	0.80
30:f:12:HIS:CA	30:f:75:LYS:HD2	2.10	0.80
37:m:24:ARG:HG2	37:m:36:ARG:HD2	1.63	0.80
40:p:43:GLN:NE2	41:q:77:PHE:HB3	1.95	0.80
1:A:5:MET:HE2	9:I:982:A:H4'	1.64	0.80
8:H:48:LYS:HE3	9:I:4431:U:OP2	1.82	0.80
9:I:59:A:C6	9:I:109:C:C4	2.70	0.80
9:I:687:G:H5'	30:f:37:GLY:CA	2.12	0.80
9:I:1076:G:N2	9:I:1078:G:H3'	1.95	0.80
9:I:1576:C:OP1	48:x:47:ARG:NH1	2.14	0.80
9:I:1582:U:H5''	9:I:1583:A:OP2	1.80	0.80
9:I:1812:G:C3'	9:I:1813:G:H8	1.94	0.80
9:I:2646:C:O2'	9:I:2647:C:O4'	2.00	0.80
9:I:2924:G:H2'	9:I:2925:A:H8	1.43	0.80
11:K:87:SER:HB2	11:K:157:ALA:HB2	1.64	0.80
20:V:103:ARG:HB3	20:V:106:ASP:OD1	1.81	0.80
31:g:98:ARG:HD2	31:g:103:CYS:SG	2.22	0.80
1:A:12:ARG:CD	1:A:58:ARG:HG2	2.10	0.80
1:A:40:ARG:NH2	1:A:42:ASN:OD1	2.14	0.80
9:I:196:A:N1	9:I:219:G:O2'	2.15	0.80
9:I:345:G:H2'	9:I:346:G:O4'	1.81	0.80
9:I:368:G:N2	9:I:392:A:H1'	1.97	0.80
9:I:577:C:O2'	9:I:727:A:N3	2.13	0.80
9:I:695:A:N1	9:I:796:C:O2'	2.15	0.80
9:I:841:U:H3'	9:I:842:U:C5'	2.11	0.80
9:I:1039:U:H2'	9:I:1040:G:H8	1.47	0.80
9:I:1778:A:H3'	9:I:1778:A:N3	1.96	0.80
9:I:1836:C:P	44:t:81:ARG:HG2	2.21	0.80
9:I:2142:U:O2'	9:I:3843:G:O2'	1.95	0.80
9:I:2554:U:O2	9:I:2556:G:H5'	1.82	0.80
9:I:2700:G:N1	9:I:2734:U:N3	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3062:G:OP1	11:K:62:ARG:NH1	2.13	0.80
9:I:3329:2MG:O6	9:I:3399:C:N4	2.15	0.80
9:I:3792:A:H62	9:I:3812:G:H1'	1.45	0.80
9:I:4243:A:N7	9:I:4244:A:O2'	2.15	0.80
13:M:5:LEU:HD11	13:M:121:VAL:C	2.07	0.80
21:W:102:LYS:O	21:W:106:GLN:NE2	2.14	0.80
22:X:41:TYR:HD1	22:X:42:LEU:HD12	1.47	0.80
22:X:151:GLU:OE2	22:X:164:THR:OG1	1.98	0.80
38:n:23:THR:HA	38:n:41:PRO:HG3	1.64	0.80
39:o:91:VAL:CG2	39:o:96:LEU:HD11	2.12	0.80
44:t:24:VAL:HG23	44:t:35:VAL:HG22	1.62	0.80
47:w:53:LYS:HE2	47:w:57:VAL:CG1	2.10	0.80
2:B:2:LEU:HD11	2:B:6:ALA:HB1	1.64	0.80
3:C:5:ARG:NH2	3:C:23:ASP:O	2.15	0.80
9:I:798:G:H2'	9:I:799:G:O4'	1.81	0.80
9:I:1082:U:H4'	9:I:1085:U:C5	2.16	0.80
9:I:1122:U:O4	9:I:1150:A:N6	2.14	0.80
9:I:1611:A:H2'	9:I:1612:U:H6	1.42	0.80
9:I:2537:C:H2'	9:I:2538:C:O4'	1.82	0.80
9:I:2618:G:H4'	37:m:22:VAL:CG2	2.12	0.80
9:I:3217:G:O6	9:I:3231:G:H1'	1.81	0.80
9:I:3383:A:N1	9:I:3728:G:O2'	2.13	0.80
9:I:3444:G:N2	9:I:3450:U:O4	2.14	0.80
9:I:3823:U:H3'	9:I:3824:G:C8	2.16	0.80
9:I:4129:A:C2	9:I:4130:C:H1'	2.17	0.80
9:I:4168:G:H5''	17:S:30:ARG:HG3	1.63	0.80
11:K:143:VAL:O	11:K:152:GLN:N	2.14	0.80
12:L:13:ARG:HG3	12:L:23:PRO:CG	2.12	0.80
18:T:123:ARG:NE	18:T:143:GLU:OE2	2.14	0.80
25:a:9:MET:HE1	25:a:11:HIS:HD2	1.46	0.80
27:c:28:SER:HB3	27:c:50:VAL:HG23	1.63	0.80
40:p:81:GLY:HA3	40:p:116:LEU:HB2	1.64	0.80
43:s:12:ARG:HB3	43:s:33:LYS:HG3	1.64	0.80
45:u:60:VAL:HG22	45:u:73:LYS:CG	2.11	0.80
45:u:86:LEU:HB3	45:u:89:ILE:HD11	1.62	0.80
2:B:63:ARG:CZ	9:I:2215:A:H5'	2.12	0.80
5:E:42:ARG:NH1	9:I:735:C:O4'	2.15	0.80
9:I:453:G:H1	9:I:477:A:N6	1.78	0.80
9:I:675:A:C5'	30:f:103:PRO:HB3	2.11	0.80
9:I:1073:G:H4'	21:W:100:ASN:CA	2.11	0.80
9:I:1357:U:OP2	9:I:1358:C:N4	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1595:A:H2'	9:I:1596:C:O4'	1.81	0.80
9:I:1658:U:O4	9:I:1668:G:O6	2.00	0.80
9:I:2645:A:O2'	9:I:2646:C:H5'	1.81	0.80
9:I:2654:G:N2	41:q:8:GLY:O	2.14	0.80
9:I:3292:U:H5''	9:I:3293:G:OP1	1.82	0.80
9:I:3365:A:H1'	9:I:3366:A:H8	1.47	0.80
9:I:3599:U:H3	9:I:3678:A:N6	1.80	0.80
9:I:3793:U:H3	9:I:3811:A:H61	1.27	0.80
9:I:3874:C:H3'	9:I:3875:A:C8	2.16	0.80
9:I:4131:U:O2	9:I:4270:A:N7	2.14	0.80
9:I:4141:U:O2'	9:I:4142:G:H5'	1.82	0.80
10:J:51:A:O2'	10:J:52:A:OP2	2.00	0.80
10:J:105:G:H2'	10:J:106:G:C8	2.15	0.80
10:J:109:C:H2'	10:J:110:U:O4'	1.81	0.80
11:K:107:LYS:HD3	11:K:195:GLY:HA3	1.61	0.80
17:S:108:ARG:HH12	39:o:33:GLU:HA	1.47	0.80
19:U:113:ALA:HB1	19:U:117:PHE:CZ	2.15	0.80
23:Y:59:LYS:O	23:Y:63:ILE:HG13	1.82	0.80
26:b:55:LYS:HE2	26:b:60:ALA:HA	1.64	0.80
27:c:78:SER:OG	27:c:123:GLU:OE2	2.00	0.80
43:s:39:THR:HG22	43:s:42:GLU:OE2	1.80	0.80
1:A:20:PHE:HA	1:A:24:ALA:HB3	1.63	0.79
9:I:735:C:H4'	25:a:90:MET:CE	2.12	0.79
9:I:827:U:H3'	9:I:828:G:C5'	2.07	0.79
9:I:1325:U:H2'	9:I:1326:C:C6	2.16	0.79
9:I:1468:A:N6	9:I:4339:U:O2	2.14	0.79
9:I:1561:C:OP1	48:x:43:LYS:HE2	1.82	0.79
9:I:1578:U:H5''	48:x:3:LYS:NZ	1.96	0.79
9:I:1776:U:H1'	9:I:1862:A:N6	1.97	0.79
9:I:2107:U:OP1	13:M:98:LYS:HG3	1.83	0.79
9:I:2361:A:N6	9:I:2410:G:O2'	2.15	0.79
9:I:3199:A:O2'	9:I:3200:C:H5'	1.82	0.79
9:I:3293:G:OP2	9:I:3313:A:N6	2.16	0.79
9:I:3435:C:O2	9:I:3435:C:H2'	1.82	0.79
9:I:3880:A:H2'	9:I:3881:U:C5	2.17	0.79
9:I:4282:C:H2'	9:I:4283:C:O4'	1.82	0.79
10:J:113:C:H2'	10:J:114:A:C8	2.14	0.79
11:K:169:ALA:O	11:K:185:ALA:N	2.15	0.79
13:M:90:GLN:NE2	13:M:91:ASP:O	2.15	0.79
14:N:118:ALA:HB1	14:N:166:ARG:HH22	1.46	0.79
14:N:147:ARG:HD3	14:N:149:ARG:HG3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:119:GLY:O	15:O:120:ILE:HD13	1.81	0.79
25:a:46:GLN:HE22	25:a:56:LYS:HD3	1.45	0.79
30:f:35:ALA:CA	30:f:54:ALA:HB2	2.12	0.79
39:o:17:PRO:CG	39:o:83:ILE:HB	2.12	0.79
40:p:61:ILE:HG23	40:p:75:TYR:CE2	2.16	0.79
48:x:22:ARG:NH1	48:x:23:GLU:OE2	2.15	0.79
3:C:27:ALA:HB3	3:C:30:GLY:HA3	1.62	0.79
9:I:742:A:H2'	9:I:743:C:H6	1.47	0.79
9:I:894:G:H1	9:I:903:U:H3	0.81	0.79
9:I:938:G:N2	9:I:1374:A:H2	1.80	0.79
9:I:1115:U:H2'	9:I:1116:A:H8	1.45	0.79
9:I:1138:G:H4'	9:I:1139:C:O5'	1.81	0.79
9:I:1852:A:H2'	9:I:1853:C:N1	1.97	0.79
9:I:1895:U:O2'	9:I:1896:G:N7	2.13	0.79
9:I:2362:G:H21	10:J:99:G:C1'	1.95	0.79
9:I:2387:C:H2'	9:I:2388:U:O4'	1.83	0.79
9:I:2447:G:O3'	19:U:16:ARG:NH1	2.15	0.79
9:I:2536:G:N1	9:I:2607:U:N3	2.15	0.79
9:I:3059:C:H2'	11:K:25:LYS:NZ	1.97	0.79
9:I:3864:G:H2'	9:I:3865:G:C1'	2.11	0.79
9:I:4017:G:O2'	9:I:4018:G:H5'	1.81	0.79
13:M:105:LEU:HB2	13:M:200:LEU:CD1	2.09	0.79
16:R:125:TYR:HH	16:R:132:HIS:CD2	2.00	0.79
20:V:21:PHE:CB	20:V:69:ARG:HH12	1.94	0.79
27:c:104:SER:HB2	27:c:109:VAL:HG22	1.63	0.79
31:g:36:VAL:HG22	31:g:52:CYS:HB3	1.63	0.79
32:h:13:HIS:HA	32:h:43:LYS:HA	1.64	0.79
44:t:4:ILE:HG12	44:t:71:ILE:HD11	1.63	0.79
45:u:28:ALA:O	45:u:40:ILE:N	2.13	0.79
47:w:9:LYS:HE3	47:w:53:LYS:HD3	1.62	0.79
48:x:21:LEU:HA	48:x:24:GLN:HG2	1.63	0.79
9:I:416:G:O6	9:I:425:U:O2	1.99	0.79
9:I:696:U:H1'	9:I:784:G:N2	1.96	0.79
9:I:1265:G:N2	9:I:1268:A:OP2	2.15	0.79
9:I:1612:U:H5'	48:x:57:ASN:HD21	1.48	0.79
9:I:1658:U:N3	9:I:1668:G:N1	2.13	0.79
9:I:1660:A:C5	9:I:1666:U:O2	2.35	0.79
9:I:2229:G:H5''	9:I:2230:A:H5''	1.63	0.79
9:I:2399:A:O2'	9:I:2400:U:H5'	1.83	0.79
9:I:3366:A:C2	9:I:3367:G:H1'	2.17	0.79
9:I:3508:A:O2'	9:I:3509:A:O5'	2.01	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3865:G:N2	9:I:3866:U:H1'	1.98	0.79
9:I:3871:A:H3'	9:I:3872:A:C8	2.17	0.79
10:J:13:U:C5	10:J:70:C:H1'	2.16	0.79
10:J:16:C:H3'	10:J:17:G:H8	1.47	0.79
11:K:2:VAL:HG11	11:K:201:LEU:O	1.81	0.79
11:K:216:ARG:CG	11:K:217:PRO:HD2	2.13	0.79
12:L:36:GLN:HA	12:L:92:VAL:CG2	2.11	0.79
14:N:124:ARG:CD	14:N:160:LYS:HA	2.12	0.79
17:S:10:VAL:HG21	17:S:16:ALA:O	1.81	0.79
17:S:21:CYS:CA	17:S:41:ILE:HG22	2.07	0.79
18:T:110:VAL:CG2	18:T:127:VAL:HG22	2.12	0.79
19:U:95:LEU:O	19:U:100:LYS:NZ	2.15	0.79
23:Y:12:ARG:NE	23:Y:32:LYS:O	2.16	0.79
25:a:6:ILE:O	25:a:61:LEU:HD12	1.82	0.79
29:e:2:ILE:HB	29:e:72:ILE:O	1.82	0.79
34:j:36:PHE:HB2	34:j:43:HIS:CD2	2.17	0.79
39:o:20:ARG:NH2	39:o:91:VAL:HG13	1.97	0.79
39:o:25:VAL:O	39:o:60:VAL:HG13	1.82	0.79
43:s:20:ALA:C	43:s:24:MET:H	1.90	0.79
44:t:4:ILE:HG23	44:t:8:ASP:CB	2.12	0.79
9:I:26:G:H2'	9:I:27:A:H8	1.45	0.79
9:I:696:U:N3	9:I:797:U:O4'	2.15	0.79
9:I:1059:U:H5'	29:e:49:ILE:CG1	2.11	0.79
9:I:1560:G:H4'	48:x:46:ARG:NH2	1.92	0.79
9:I:1906:G:H2'	9:I:1907:G:C8	2.17	0.79
9:I:2059:G:N3	40:p:55:GLN:NE2	2.28	0.79
9:I:2112:G:H4'	9:I:2113:A:N6	1.97	0.79
9:I:3365:A:OP2	9:I:3365:A:H2'	1.82	0.79
9:I:3489:U:OP2	9:I:3490:C:O2'	2.00	0.79
9:I:3704:U:O2	9:I:3706:A:H2'	1.81	0.79
9:I:4153:G:N2	9:I:4156:A:OP2	2.15	0.79
9:I:4202:G:O2'	9:I:4203:G:H5'	1.81	0.79
10:J:33:A:C4'	10:J:34:C:H5'	2.12	0.79
10:J:35:C:H3'	10:J:36:C:C6	2.17	0.79
12:L:15:PHE:CD2	39:o:54:LEU:HD21	2.17	0.79
15:O:106:LEU:HD13	15:O:151:ARG:HH22	1.47	0.79
20:V:22:ARG:HG3	20:V:70:THR:N	1.95	0.79
21:W:65:LEU:HB3	21:W:158:LEU:HG	1.65	0.79
23:Y:139:ASN:N	23:Y:181:PHE:O	2.11	0.79
39:o:28:LYS:HD3	39:o:39:LEU:CD2	2.08	0.79
39:o:64:SER:HB2	39:o:68:GLY:CA	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:61:ILE:O	40:p:65:ASN:N	2.14	0.79
44:t:41:VAL:O	44:t:59:GLU:HA	1.83	0.79
47:w:50:VAL:HG13	47:w:55:MET:SD	2.22	0.79
9:I:75:G:H2'	9:I:76:A:C8	2.17	0.79
9:I:781:A:H3'	9:I:782:C:C6	2.17	0.79
9:I:1066:A:N1	9:I:1107:G:O2'	2.16	0.79
9:I:1635:U:H5''	9:I:1636:G:OP1	1.81	0.79
9:I:2365:C:C4	9:I:2403:A:N6	2.51	0.79
9:I:2855:G:H2'	9:I:2856:C:H6	1.47	0.79
9:I:2994:G:H3'	9:I:2995:G:C8	2.17	0.79
9:I:3234:G:H2'	9:I:3235:C:H6	1.43	0.79
9:I:3327:C:H2'	9:I:3328:U:C6	2.18	0.79
9:I:3336:G:H2'	9:I:3337:C:O4'	1.83	0.79
9:I:4138:G:H2'	9:I:4139:G:C4	2.17	0.79
12:L:110:THR:O	12:L:202:ILE:N	2.15	0.79
13:M:24:ASN:HB3	13:M:27:LEU:HB3	1.62	0.79
16:R:34:ARG:O	16:R:38:GLY:N	2.15	0.79
17:S:20:MET:N	17:S:44:LYS:HZ1	1.81	0.79
18:T:75:ALA:N	18:T:107:PHE:O	2.14	0.79
18:T:124:GLY:O	18:T:125:LEU:HD12	1.82	0.79
19:U:45:GLN:CA	19:U:48:ALA:HB3	2.12	0.79
20:V:95:THR:HA	20:V:116:VAL:N	1.98	0.79
37:m:25:VAL:CB	37:m:35:GLN:HB3	2.13	0.79
43:s:67:VAL:HG12	43:s:76:ARG:HG3	1.63	0.79
48:x:51:ARG:O	48:x:55:LEU:HG	1.83	0.79
49:y:1:ALA:N	49:y:38:GLU:HB3	1.97	0.79
9:I:105:C:H2'	9:I:106:G:O4'	1.82	0.79
9:I:218:U:H2'	9:I:219:G:H8	1.46	0.79
9:I:682:G:N2	9:I:706:U:O2	2.14	0.79
9:I:1054:A:N3	22:X:155:ARG:NH2	2.30	0.79
9:I:1236:C:H3'	9:I:1237:A:H5'	1.63	0.79
9:I:1475:A:P	9:I:4329:A:H62	2.05	0.79
9:I:1476:C:H2'	9:I:1477:U:H6	1.47	0.79
9:I:2017:C:OP2	33:i:9:ARG:NH1	2.16	0.79
9:I:2610:G:H2'	9:I:2611:C:H5'	1.65	0.79
9:I:2973:G:O2'	9:I:2974:C:O4'	1.99	0.79
9:I:3009:A:O3'	9:I:3050:C:O2'	2.00	0.79
9:I:3685:A:H2'	9:I:3686:U:H6	1.47	0.79
9:I:4008:U:H2'	9:I:4009:C:H6	1.43	0.79
9:I:4161:C:N4	15:O:109:SER:OG	2.15	0.79
9:I:4207:U:H3'	9:I:4208:G:H5''	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4233:U:H3	9:I:4258:A:H62	0.79	0.79
11:K:109:LEU:HD12	11:K:125:PRO:O	1.82	0.79
11:K:141:HIS:HA	11:K:161:VAL:CG2	2.12	0.79
13:M:150:THR:HA	13:M:189:THR:OG1	1.82	0.79
15:O:156:TYR:CE1	15:O:173:ALA:HA	2.18	0.79
20:V:9:GLN:O	20:V:12:ARG:HG2	1.83	0.79
22:X:63:ILE:HG22	22:X:98:ALA:HA	1.64	0.79
32:h:74:MET:HA	32:h:77:LYS:CB	2.12	0.79
36:l:38:LYS:HD2	36:l:41:ARG:HH22	1.46	0.79
38:n:70:ALA:O	38:n:104:ALA:HB1	1.81	0.79
39:o:4:ILE:HA	39:o:7:LEU:HD12	1.65	0.79
44:t:85:ARG:O	44:t:91:LYS:HG3	1.83	0.79
47:w:15:ASN:OD1	47:w:24:THR:N	2.15	0.79
47:w:53:LYS:O	47:w:57:VAL:N	2.16	0.79
49:y:26:LEU:HG	49:y:46:MET:CE	2.12	0.79
1:A:99:SER:HB2	28:d:110:ARG:HH22	1.48	0.79
4:D:63:PRO:HB3	4:D:69:SER:OG	1.81	0.79
9:I:412:G:H1'	9:I:427:G:N2	1.96	0.79
9:I:826:U:H2'	9:I:869:U:N3	1.97	0.79
9:I:1637:U:H2'	9:I:1640:C:C5	2.18	0.79
9:I:2487:G:H2'	9:I:2488:C:H6	1.45	0.79
9:I:2863:G:H2'	9:I:2864:C:C6	2.17	0.79
9:I:3080:A:H2'	9:I:3081:G:O4'	1.83	0.79
11:K:123:ILE:HD11	11:K:129:LEU:HD22	1.63	0.79
12:L:85:ALA:N	12:L:88:GLU:HB3	1.95	0.79
13:M:17:THR:HA	13:M:21:ARG:HG3	1.64	0.79
15:O:82:PHE:O	15:O:140:ILE:HG21	1.83	0.79
15:O:144:ALA:O	15:O:147:LEU:HB2	1.81	0.79
16:R:56:VAL:O	16:R:125:TYR:N	2.16	0.79
21:W:179:PRO:HB2	21:W:181:PHE:CZ	2.17	0.79
23:Y:9:LYS:HG2	23:Y:37:PRO:CG	2.11	0.79
28:d:91:LEU:HB3	28:d:95:LEU:CD1	2.12	0.79
38:n:67:LYS:CG	38:n:101:ARG:HG2	2.11	0.79
41:q:26:ASP:O	41:q:27:ILE:HD13	1.82	0.79
43:s:44:LYS:HZ1	43:s:57:VAL:N	1.80	0.79
44:t:51:LEU:H	44:t:53:GLN:HE22	1.31	0.79
45:u:6:ALA:HB2	45:u:42:LEU:CD2	2.13	0.79
47:w:29:LEU:HD12	47:w:30:PRO:HD2	1.61	0.79
8:H:34:ARG:HH21	30:f:105:PRO:HB3	1.48	0.79
9:I:640:U:H4'	9:I:641:A:H5'	1.62	0.79
9:I:750:U:H2'	9:I:751:G:O4'	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:828:G:N2	9:I:857:G:H1'	1.98	0.79
9:I:1509:G:H1	9:I:4123:U:H2'	1.46	0.79
9:I:1606:C:H2'	9:I:1607:G:C8	2.17	0.79
9:I:1621:G:O4'	9:I:1648:U:N3	2.16	0.79
9:I:2504:A:H5''	9:I:2505:G:OP2	1.83	0.79
9:I:2929:G:H2'	9:I:2930:G:C5'	2.13	0.79
9:I:3222:C:H1'	9:I:3227:G:H1	1.47	0.79
9:I:3313:A:C3'	11:K:176:ARG:HG3	2.13	0.79
9:I:3392:U:H2'	9:I:3395:A:N7	1.98	0.79
9:I:3681:U:O2'	9:I:3682:U:H5'	1.81	0.79
9:I:3779:C:C2'	9:I:3781:A:H1'	2.13	0.79
9:I:4016:U:H2'	9:I:4017:G:H5'	1.64	0.79
9:I:4024:A:H4'	9:I:4028:A:H61	1.46	0.79
9:I:4143:C:H2'	9:I:4144:U:H6	1.48	0.79
9:I:4206:C:OP1	9:I:4208:G:H4'	1.83	0.79
9:I:4337:G:H2'	9:I:4338:G:C1'	2.13	0.79
10:J:32:G:H21	10:J:34:C:H41	1.28	0.79
11:K:144:GLU:HA	11:K:150:GLY:O	1.83	0.79
12:L:110:THR:HB	12:L:202:ILE:CB	2.12	0.79
14:N:124:ARG:HD2	14:N:160:LYS:HA	1.65	0.79
21:W:158:LEU:HD22	21:W:173:ALA:HB2	1.64	0.79
24:Z:30:VAL:HG13	24:Z:58:ALA:HB1	1.64	0.79
41:q:1:MET:HE1	41:q:101:ILE:HG13	1.65	0.79
43:s:77:ARG:HH11	43:s:78:SER:H	1.31	0.79
4:D:22:ILE:N	4:D:39:THR:O	2.15	0.79
4:D:33:LYS:HD3	31:g:7:VAL:HG11	1.64	0.79
4:D:35:ILE:HB	9:I:279:C:H5	1.48	0.79
9:I:1444:U:O2	9:I:4361:G:C6	2.36	0.79
9:I:1589:A:H2'	9:I:1590:U:C6	2.17	0.79
9:I:1799:A:P	44:t:96:LYS:HE2	2.23	0.79
9:I:2151:G:OP1	36:l:18:LYS:HG2	1.83	0.79
9:I:3201:G:H2'	9:I:3202:C:C6	2.17	0.79
9:I:3798:G:H22	9:I:3806:U:H3	1.31	0.79
9:I:3822:A:O2'	9:I:3823:U:H5'	1.82	0.79
9:I:4160:C:N4	15:O:107:GLY:O	2.15	0.79
10:J:31:U:O2'	10:J:32:G:H5'	1.83	0.79
13:M:18:THR:OG1	13:M:106:LYS:HA	1.83	0.79
14:N:59:ILE:HA	14:N:139:GLU:HB2	1.63	0.79
16:R:96:ARG:HD3	16:R:99:ARG:NE	1.98	0.79
17:S:64:ARG:NE	17:S:83:ALA:HB3	1.97	0.79
18:T:90:VAL:O	18:T:123:ARG:NH1	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:11:LYS:NZ	19:U:87:GLY:O	2.13	0.79
21:W:162:ASP:CG	21:W:165:HIS:HB2	2.07	0.79
25:a:3:HIS:CE1	25:a:65:GLU:HG3	2.18	0.79
25:a:6:ILE:HD12	25:a:64:VAL:CG1	2.13	0.79
29:e:36:ILE:HG22	29:e:38:LEU:CD1	2.12	0.79
46:v:27:ILE:N	46:v:50:PHE:HA	1.98	0.79
49:y:41:PRO:O	49:y:45:GLY:N	2.16	0.79
4:D:66:LYS:NZ	9:I:251:U:H5''	1.98	0.79
9:I:337:A:H2'	9:I:338:C:H6	1.47	0.79
9:I:593:U:O4	9:I:644:G:O6	2.01	0.79
9:I:933:C:H42	9:I:937:A:H61	1.28	0.79
9:I:1260:A:H4'	9:I:1282:U:H5''	1.64	0.79
9:I:1426:C:H2'	9:I:1427:A:C8	2.18	0.79
9:I:1577:G:H5'	48:x:54:THR:HG21	1.65	0.79
9:I:1665:A:H2'	9:I:1666:U:C6	2.18	0.79
9:I:1752:G:O2'	9:I:1753:C:H5'	1.83	0.79
9:I:1808:G:N3	9:I:1829:G:N2	2.30	0.79
9:I:1873:U:H2'	9:I:1901:A:N6	1.97	0.79
9:I:2082:A:H2'	9:I:2083:G:H8	1.48	0.79
9:I:2199:A:O2'	9:I:3048:U:O4	2.00	0.79
9:I:2319:A:N6	9:I:2682:U:N3	2.19	0.79
9:I:3015:G:H5''	9:I:3017:U:C4	2.17	0.79
9:I:3225:G:O2'	9:I:3226:C:H3'	1.83	0.79
9:I:3756:U:C5'	46:v:31:ARG:HH12	1.95	0.79
10:J:32:G:C2'	10:J:33:A:H5'	2.13	0.79
11:K:15:VAL:HG13	11:K:204:LEU:O	1.82	0.79
11:K:144:GLU:N	11:K:151:GLY:HA2	1.97	0.79
12:L:34:VAL:HG11	12:L:90:PHE:HB2	1.64	0.79
13:M:147:LEU:O	13:M:148:ILE:HD13	1.83	0.79
16:R:17:VAL:HG22	16:R:55:ILE:CG2	2.12	0.79
17:S:69:VAL:N	17:S:77:ILE:O	2.15	0.79
22:X:148:ILE:HA	22:X:200:TRP:O	1.83	0.79
38:n:4:SER:HA	38:n:7:ILE:HD12	1.65	0.79
41:q:84:ARG:HG2	41:q:84:ARG:HH11	1.47	0.79
1:A:63:CYS:HB3	1:A:67:GLY:H	1.46	0.78
2:B:10:ILE:CD1	2:B:30:LEU:HD23	2.11	0.78
3:C:63:GLN:HB3	9:I:227:A:C5	2.18	0.78
4:D:66:LYS:HA	9:I:265:G:C2'	2.10	0.78
8:H:15:LEU:HA	30:f:85:ILE:HD12	1.64	0.78
9:I:113:U:H2'	9:I:114:G:C8	2.17	0.78
9:I:204:A:H2'	9:I:205:C:H5	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:224:C:H2'	9:I:225:G:H5''	1.66	0.78
9:I:714:A:OP1	9:I:804:C:O2'	2.01	0.78
9:I:2229:G:C2	9:I:3269:U:H1'	2.18	0.78
9:I:2351:C:O2'	49:y:42:ALA:HB1	1.83	0.78
9:I:2525:G:H21	37:m:23:ILE:HD11	1.46	0.78
9:I:2975:U:C2	9:I:3004:G:N1	2.51	0.78
9:I:3019:A:H2'	9:I:3020:C:H6	1.47	0.78
9:I:3314:U:OP2	11:K:176:ARG:NH2	2.16	0.78
9:I:3577:G:H2'	9:I:3578:C:O4'	1.81	0.78
9:I:3893:G:C2'	9:I:3894:G:H5'	2.12	0.78
9:I:4339:U:H5''	39:o:51:ASN:O	1.82	0.78
11:K:131:MET:SD	11:K:189:ALA:HB3	2.23	0.78
12:L:189:VAL:HG23	12:L:191:GLY:O	1.82	0.78
13:M:5:LEU:HD23	13:M:7:ASP:H	1.48	0.78
14:N:59:ILE:HG13	14:N:140:ILE:HG12	1.64	0.78
15:O:10:VAL:HG23	15:O:47:ASN:CG	2.08	0.78
16:R:84:ILE:O	16:R:84:ILE:HG23	1.83	0.78
18:T:77:ILE:CG1	18:T:110:VAL:HA	2.13	0.78
19:U:69:PRO:HG2	19:U:92:TRP:HB3	1.64	0.78
22:X:58:ARG:HA	22:X:62:SER:O	1.83	0.78
25:a:37:HIS:O	25:a:97:THR:OG1	1.99	0.78
26:b:68:VAL:HG12	26:b:134:VAL:HA	1.65	0.78
27:c:26:MET:HG2	27:c:27:PRO:CD	2.12	0.78
39:o:48:ALA:HA	39:o:95:LYS:CD	2.13	0.78
49:y:5:LYS:HD3	49:y:35:VAL:O	1.82	0.78
9:I:665:G:H5''	9:I:731:C:O2	1.83	0.78
9:I:690:G:OP2	30:f:16:ASN:ND2	2.16	0.78
9:I:877:A:H2'	9:I:878:C:C6	2.17	0.78
9:I:984:C:H2'	9:I:985:U:H6	1.48	0.78
9:I:1105:G:H5''	22:X:171:ARG:CD	2.13	0.78
9:I:1107:G:H4'	9:I:1190:A:C1'	2.13	0.78
9:I:2053:G:H2'	9:I:2054:U:C6	2.18	0.78
9:I:2144:A:H62	9:I:3843:G:H1'	1.48	0.78
9:I:2603:C:O2'	9:I:4245:G:N7	2.16	0.78
9:I:2609:G:O2'	9:I:2610:G:OP2	2.01	0.78
9:I:2892:C:O2	9:I:2892:C:H2'	1.81	0.78
9:I:3544:C:H2'	9:I:3545:A:C8	2.19	0.78
9:I:3871:A:C2	9:I:3872:A:H1'	2.18	0.78
9:I:3957:C:C2'	9:I:3958:G:H5'	2.12	0.78
9:I:3966:G:N2	9:I:3972:A:H62	1.81	0.78
9:I:4280:U:H4'	12:L:70:LYS:HD3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4340:G:OP2	39:o:51:ASN:HB2	1.82	0.78
9:I:4390:G:H2'	9:I:4391:G:C8	2.18	0.78
10:J:4:U:O2'	10:J:26:C:H1'	1.83	0.78
11:K:257:ARG:NH1	11:K:263:ASP:OD1	2.14	0.78
12:L:2:ILE:HG12	12:L:100:LEU:HD21	1.66	0.78
12:L:27:ILE:O	12:L:186:LEU:HD23	1.84	0.78
13:M:58:LYS:NZ	13:M:70:SER:O	2.15	0.78
13:M:103:GLY:HA2	13:M:106:LYS:HD3	1.63	0.78
14:N:35:LEU:CA	14:N:153:ILE:HD12	2.12	0.78
15:O:155:PRO:HG2	15:O:156:TYR:CE2	2.17	0.78
23:Y:153:ARG:O	23:Y:157:ALA:N	2.16	0.78
28:d:21:GLY:N	28:d:57:LYS:O	2.13	0.78
30:f:22:ILE:N	30:f:31:GLY:O	2.16	0.78
32:h:47:LEU:CB	32:h:52:ILE:HD11	2.12	0.78
32:h:113:LYS:HB2	32:h:114:PRO:HD3	1.63	0.78
39:o:12:MET:HE3	39:o:76:HIS:CE1	2.19	0.78
40:p:82:LEU:HD21	40:p:112:ALA:HB2	1.64	0.78
42:r:66:ILE:CG2	42:r:69:LEU:HD12	2.03	0.78
42:r:69:LEU:HD23	42:r:108:SER:C	2.09	0.78
42:r:69:LEU:O	42:r:70:LYS:HD3	1.83	0.78
43:s:78:SER:HB2	43:s:80:TRP:CZ2	2.17	0.78
5:E:13:TYR:O	5:E:21:VAL:HG22	1.82	0.78
5:E:39:ALA:O	5:E:48:LEU:HD12	1.82	0.78
9:I:391:C:O3'	9:I:482:C:O2'	2.01	0.78
9:I:518:C:H2'	9:I:519:A:O4'	1.84	0.78
9:I:1649:A:N6	9:I:1677:G:O6	2.16	0.78
9:I:1871:A:H62	9:I:1902:A:H62	1.31	0.78
9:I:2112:G:H4'	9:I:2113:A:C6	2.17	0.78
9:I:2203:U:N3	9:I:2228:G:N1	2.26	0.78
9:I:2503:A:O4'	40:p:58:GLN:NE2	2.16	0.78
9:I:3072:U:C2'	9:I:3073:A:H5'	2.12	0.78
9:I:3201:G:H1	9:I:3245:U:H2'	1.48	0.78
9:I:3624:U:O2'	9:I:3627:G:O2'	1.98	0.78
9:I:3972:A:OP1	37:m:32:LYS:HD3	1.82	0.78
9:I:4266:C:C5'	12:L:173:GLN:HE22	1.96	0.78
10:J:71:G:O2'	10:J:72:A:O5'	2.01	0.78
13:M:61:ARG:NH2	13:M:65:THR:OG1	2.15	0.78
17:S:18:ARG:CB	17:S:45:GLU:HG3	2.13	0.78
28:d:39:GLU:HG3	28:d:42:ARG:HH11	1.49	0.78
36:l:55:GLY:HA2	36:l:58:ILE:HG22	1.65	0.78
40:p:60:TRP:CE2	40:p:92:LYS:HA	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:79:ILE:HD13	40:p:82:LEU:HD12	1.66	0.78
42:r:108:SER:OG	42:r:110:ARG:O	2.00	0.78
43:s:83:ALA:CB	43:s:85:VAL:HG22	2.13	0.78
46:v:58:LYS:NZ	46:v:60:GLU:OE1	2.13	0.78
47:w:38:TRP:NE1	47:w:40:GLU:OE1	2.16	0.78
49:y:1:ALA:HB3	49:y:39:ASP:HB2	1.66	0.78
9:I:1105:G:H5''	22:X:171:ARG:HD2	1.64	0.78
9:I:1798:G:H1'	9:I:1840:A:N6	1.97	0.78
9:I:2136:G:H5''	18:T:129:LYS:H	1.48	0.78
9:I:2383:G:H2'	9:I:2384:U:O4'	1.82	0.78
9:I:2482:A:H5''	49:y:11:SER:OG	1.84	0.78
9:I:3201:G:C5'	9:I:3250:G:H1'	2.14	0.78
9:I:3966:G:H3'	9:I:3968:U:OP2	1.84	0.78
11:K:173:LEU:O	11:K:180:MET:HA	1.82	0.78
12:L:46:ARG:CZ	12:L:89:GLU:HG2	2.13	0.78
13:M:19:PHE:HA	13:M:110:SER:HA	1.64	0.78
15:O:17:LYS:O	15:O:24:THR:OG1	2.01	0.78
15:O:43:LYS:HD3	15:O:50:THR:HG21	1.65	0.78
15:O:83:THR:HG23	15:O:132:LEU:O	1.83	0.78
16:R:32:LEU:HD21	16:R:142:ILE:CG2	2.10	0.78
21:W:7:LEU:HB2	21:W:40:LEU:CD1	2.14	0.78
26:b:70:PRO:HB3	26:b:102:TRP:CH2	2.19	0.78
29:e:28:THR:HA	29:e:78:LYS:HE2	1.66	0.78
43:s:30:ILE:HG13	43:s:87:LEU:CD1	2.12	0.78
1:A:6:LYS:H	9:I:1215:A:C5'	1.97	0.78
4:D:5:LEU:HD23	4:D:22:ILE:CG2	2.13	0.78
7:G:47:LYS:O	7:G:51:GLU:N	2.14	0.78
8:H:38:GLU:N	30:f:111:PRO:O	2.16	0.78
9:I:319:A:O2'	9:I:1434:G:O2'	1.97	0.78
9:I:707:C:O4'	30:f:27:GLY:HA3	1.83	0.78
9:I:755:C:H2'	9:I:756:U:H6	1.46	0.78
9:I:1287:A:H61	9:I:1370:G:H1'	1.48	0.78
9:I:1315:G:N1	9:I:1318:A:OP2	2.16	0.78
9:I:1470:C:H5''	20:V:4:ARG:HH21	1.47	0.78
9:I:1479:A:H4'	33:i:40:HIS:NE2	1.98	0.78
9:I:2010:C:O2'	9:I:2011:U:H5'	1.84	0.78
9:I:2477:A:H62	9:I:2478:A:H62	1.31	0.78
9:I:2899:U:H2'	9:I:2900:U:C1'	2.13	0.78
9:I:2923:G:H2'	9:I:2924:G:H8	1.48	0.78
9:I:3217:G:H3'	9:I:3218:G:C8	2.13	0.78
9:I:3285:A:C5'	11:K:204:LEU:HG	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4186:G:O2'	9:I:4341:U:O2	2.02	0.78
12:L:186:LEU:HD21	39:o:3:ILE:CG2	2.13	0.78
13:M:147:LEU:HD22	13:M:179:SER:O	1.84	0.78
17:S:41:ILE:HD11	17:S:86:LEU:HD23	1.63	0.78
20:V:34:ILE:CD1	20:V:36:THR:HB	2.14	0.78
21:W:64:ILE:N	21:W:86:GLN:OE1	2.10	0.78
25:a:3:HIS:O	25:a:92:THR:OG1	2.01	0.78
27:c:84:ILE:O	27:c:123:GLU:HA	1.84	0.78
43:s:55:VAL:CA	43:s:88:LYS:HG2	2.13	0.78
1:A:48:GLN:HG3	6:F:11:LEU:HD22	1.66	0.78
1:A:68:ARG:HG2	1:A:69:PRO:HD2	1.65	0.78
1:A:72:PHE:HA	1:A:78:LEU:O	1.84	0.78
2:B:81:ILE:HA	2:B:84:LEU:HG	1.66	0.78
9:I:264:G:H2'	9:I:266:C:C5	2.18	0.78
9:I:412:G:N2	9:I:427:G:H1'	1.99	0.78
9:I:673:G:H2'	9:I:674:A:C8	2.18	0.78
9:I:1349:A:OP1	28:d:120:ARG:NE	2.15	0.78
9:I:1421:G:H1	9:I:4382:U:H3	0.81	0.78
9:I:1836:C:H2'	9:I:1837:C:C6	2.18	0.78
9:I:2832:G:H4'	43:s:18:GLU:HG3	1.66	0.78
9:I:2877:A:O2'	9:I:2878:A:O5'	2.02	0.78
9:I:3445:U:H2'	9:I:3447:A:OP2	1.84	0.78
9:I:3865:G:H2'	9:I:3866:U:H5'	1.65	0.78
9:I:4024:A:H5''	15:O:174:LYS:CG	2.13	0.78
9:I:4131:U:H5'	12:L:45:TYR:CE1	2.18	0.78
9:I:4274:G:H3'	9:I:4275:A:C5'	2.13	0.78
10:J:13:U:H5''	10:J:68:G:H22	1.49	0.78
11:K:216:ARG:HG2	11:K:217:PRO:HD2	1.66	0.78
11:K:259:ASN:OD1	11:K:260:LYS:N	2.17	0.78
13:M:131:THR:O	13:M:164:LEU:HD11	1.83	0.78
16:R:47:HIS:ND1	16:R:48:VAL:HG23	1.98	0.78
17:S:41:ILE:HD11	17:S:86:LEU:CD2	2.13	0.78
19:U:34:LYS:N	19:U:129:THR:O	2.17	0.78
20:V:48:VAL:O	20:V:52:ILE:HG12	1.83	0.78
22:X:69:THR:N	22:X:103:ALA:O	2.17	0.78
23:Y:144:ILE:CD1	23:Y:177:MET:HB3	2.14	0.78
24:Z:98:ALA:HB1	24:Z:102:MET:CE	2.13	0.78
28:d:48:PRO:HD3	28:d:77:ARG:HG3	1.65	0.78
38:n:17:LEU:HD23	38:n:24:ARG:HD2	1.65	0.78
40:p:78:PHE:CE1	40:p:109:VAL:HG22	2.18	0.78
41:q:6:GLN:OE1	41:q:11:GLN:NE2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:u:4:ILE:HD11	45:u:50:MET:CB	2.10	0.78
45:u:20:LEU:HA	45:u:23:ALA:HB3	1.64	0.78
8:H:4:LYS:O	30:f:96:THR:N	2.15	0.78
9:I:92:U:C3'	9:I:93:G:H5''	2.14	0.78
9:I:142:A:H2	9:I:219:G:H1	1.31	0.78
9:I:966:5MC:H3'	9:I:967:A:H8	1.47	0.78
9:I:1303:G:H1'	9:I:1332:A:H61	1.48	0.78
9:I:1422:G:H1	9:I:4381:U:H3	0.82	0.78
9:I:1488:G:O2'	9:I:4285:G:OP2	2.01	0.78
9:I:2201:G:C2	9:I:2202:U:H1'	2.19	0.78
9:I:2788:U:O3'	20:V:71:ARG:NH1	2.17	0.78
9:I:3014:U:C2'	9:I:3015:G:H5'	2.14	0.78
9:I:3014:U:O2'	9:I:3015:G:H5'	1.83	0.78
9:I:3314:U:OP1	11:K:176:ARG:NE	2.16	0.78
9:I:3336:G:H3'	9:I:3337:C:C6	2.19	0.78
9:I:3544:C:H2'	9:I:3545:A:H8	1.49	0.78
9:I:3823:U:H3'	9:I:3824:G:H8	1.47	0.78
9:I:3968:U:P	9:I:3969:C:H41	2.05	0.78
9:I:4193:C:H2'	9:I:4194:A:H1'	1.65	0.78
9:I:4381:U:H2'	9:I:4382:U:C6	2.19	0.78
12:L:25:THR:HG1	12:L:192:ALA:HA	1.48	0.78
12:L:111:GLY:C	12:L:169:ARG:HA	2.08	0.78
15:O:41:GLU:HA	15:O:54:ARG:NH2	1.98	0.78
17:S:78:ARG:CB	39:o:70:GLU:HB3	2.10	0.78
17:S:94:PRO:CG	17:S:115:ILE:HD11	2.13	0.78
19:U:30:SER:HB2	19:U:106:ASP:HA	1.64	0.78
23:Y:123:MET:HE2	23:Y:145:ARG:CB	2.13	0.78
25:a:66:ALA:HB1	25:a:70:VAL:HG21	1.65	0.78
43:s:17:SER:O	43:s:18:GLU:HG3	1.83	0.78
45:u:18:ARG:HA	45:u:21:ARG:CB	2.13	0.78
46:v:12:GLY:O	46:v:29:ARG:N	2.17	0.78
4:D:20:VAL:HG21	4:D:58:ILE:CG2	2.13	0.78
9:I:401:G:H4'	9:I:619:C:C2	2.19	0.78
9:I:963:A:H5'	29:e:52:HIS:CE1	2.17	0.78
9:I:966:5MC:H3'	9:I:967:A:C8	2.18	0.78
9:I:1343:C:O2'	9:I:1347:U:O2'	1.99	0.78
9:I:1367:A:OP2	28:d:111:LYS:NZ	2.13	0.78
9:I:1554:G:N2	9:I:1555:G:H1'	1.99	0.78
9:I:1796:U:H4'	44:t:86:PHE:HE1	1.43	0.78
9:I:1835:C:O3'	44:t:81:ARG:HG2	1.83	0.78
9:I:1859:G:H2'	9:I:1860:U:O4'	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2038:A:H5''	16:R:7:LYS:HZ1	1.43	0.78
9:I:2136:G:C3'	18:T:128:THR:HB	2.02	0.78
9:I:2144:A:H2'	9:I:2145:C:O4'	1.83	0.78
9:I:2633:G:O3'	16:R:26:GLY:N	2.16	0.78
9:I:2900:U:H2'	9:I:2901:G:C8	2.17	0.78
9:I:3314:U:O2'	11:K:156:SER:OG	2.01	0.78
9:I:3587:G:H2'	9:I:3692:A:H61	1.46	0.78
9:I:4149:G:H1'	9:I:4158:G:O6	1.84	0.78
9:I:4212:G:H1'	9:I:4342:G:P	2.24	0.78
12:L:50:VAL:C	12:L:79:LEU:HA	2.07	0.78
13:M:172:ALA:CA	13:M:175:ILE:HG23	2.13	0.78
29:e:6:LEU:CD2	29:e:94:VAL:HG12	2.13	0.78
34:j:23:ASN:CG	34:j:26:THR:HG22	2.09	0.78
39:o:25:VAL:HG21	39:o:60:VAL:HA	1.63	0.78
41:q:6:GLN:HA	41:q:10:LYS:O	1.83	0.78
4:D:43:VAL:HG13	4:D:71:THR:HA	1.65	0.78
4:D:68:LYS:HG2	9:I:252:A:C3'	2.11	0.78
9:I:158:G:N2	9:I:161:A:OP2	2.12	0.78
9:I:828:G:N2	9:I:856:C:O2	2.17	0.78
9:I:832:G:H2'	9:I:833:U:C6	2.18	0.78
9:I:2138:G:O2'	9:I:2139:U:O5'	2.01	0.78
9:I:2238:G:O2'	9:I:2239:A:O5'	2.02	0.78
9:I:3062:G:O3'	11:K:58:LYS:NZ	2.17	0.78
9:I:3182:U:H2'	9:I:3183:A:N7	1.99	0.78
10:J:43:G:H4'	10:J:44:A:C5	2.19	0.78
12:L:4:LEU:HB2	12:L:101:PHE:HE2	1.48	0.78
17:S:58:LEU:CD1	17:S:86:LEU:HB3	2.14	0.78
18:T:108:ALA:H	18:T:125:LEU:HG	1.49	0.78
20:V:103:ARG:HA	20:V:110:MET:CE	2.14	0.78
22:X:149:LYS:HE2	22:X:200:TRP:CD1	2.18	0.78
38:n:9:ARG:CD	38:n:12:ARG:HH22	1.97	0.78
38:n:33:HIS:N	38:n:64:THR:O	2.15	0.78
43:s:57:VAL:HG13	43:s:86:THR:OG1	1.84	0.78
46:v:25:SER:O	46:v:50:PHE:HB2	1.84	0.78
48:x:5:LEU:HD11	48:x:52:VAL:HG22	1.64	0.78
1:A:58:ARG:HG3	9:I:979:C:H1'	1.66	0.78
9:I:338:C:O2'	9:I:339:U:H5'	1.84	0.78
9:I:598:C:C4'	27:c:87:ARG:HA	2.14	0.78
9:I:1465:G:H22	9:I:4186:G:H4'	1.47	0.78
9:I:2534:A:O2'	9:I:2535:G:O4'	2.02	0.78
9:I:2633:G:O2'	16:R:26:GLY:HA3	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3009:A:C5	9:I:3010:G:H1'	2.18	0.78
9:I:3216:A:H2'	9:I:3217:G:O4'	1.84	0.78
9:I:3392:U:H5''	9:I:3393:A:OP1	1.84	0.78
9:I:3851:G:H5'	9:I:3852:A:OP2	1.83	0.78
9:I:3957:C:O2'	9:I:3958:G:H5'	1.83	0.78
9:I:4038:G:O2'	9:I:4039:G:H5'	1.83	0.78
9:I:4131:U:OP1	12:L:83:ARG:HD3	1.84	0.78
9:I:4222:U:H5''	17:S:70:ARG:NH1	1.94	0.78
9:I:4308:A:H3'	9:I:4309:C:H5	1.47	0.78
12:L:84:LEU:HA	12:L:88:GLU:HB3	1.65	0.78
13:M:105:LEU:CB	13:M:200:LEU:HD11	2.11	0.78
15:O:37:ASN:ND2	15:O:63:GLN:HG3	1.98	0.78
17:S:73:ASP:OD1	17:S:75:SER:OG	2.00	0.78
21:W:217:THR:O	21:W:221:GLY:N	2.16	0.78
30:f:48:PRO:O	30:f:83:SER:OG	2.00	0.78
42:r:55:ILE:HG22	42:r:59:GLU:OE2	1.83	0.78
43:s:45:ALA:HA	43:s:48:GLN:HE21	1.49	0.78
1:A:11:LYS:HD3	9:I:1216:C:H4'	1.63	0.77
3:C:40:ASN:HB3	3:C:43:ALA:HB2	1.67	0.77
3:C:48:GLU:HG2	3:C:49:GLY:H	1.47	0.77
4:D:12:ASP:OD1	4:D:18:ILE:HA	1.83	0.77
9:I:39:C:H2'	9:I:40:G:H8	1.49	0.77
9:I:1250:A:H2'	9:I:1251:A:C8	2.20	0.77
9:I:1257:G:H2'	9:I:1258:C:C6	2.19	0.77
9:I:1371:U:OP1	28:d:70:SER:OG	2.00	0.77
9:I:1528:A:C2	9:I:2013:A:C4	2.73	0.77
9:I:2499:C:H4'	9:I:2506:U:C6	2.18	0.77
9:I:3340:G:H2'	9:I:3341:A:H8	1.47	0.77
9:I:3857:G:C2'	9:I:3858:C:H5'	2.14	0.77
9:I:4173:A:H4'	12:L:194:PRO:CD	2.13	0.77
10:J:14:A:O5'	10:J:107:A:H5'	1.84	0.77
11:K:143:VAL:CG2	11:K:153:LEU:HB2	2.15	0.77
12:L:5:VAL:O	12:L:29:VAL:HG22	1.84	0.77
12:L:52:THR:HG22	12:L:80:TRP:CH2	2.19	0.77
14:N:31:GLU:HG3	14:N:32:LYS:H	1.49	0.77
14:N:102:LEU:O	14:N:107:VAL:HG23	1.84	0.77
14:N:131:VAL:HG11	14:N:137:PHE:CZ	2.18	0.77
16:R:23:LYS:CG	16:R:28:LEU:HB2	2.14	0.77
19:U:43:ALA:C	19:U:46:ILE:H	1.91	0.77
20:V:10:LEU:HD12	20:V:12:ARG:CZ	2.14	0.77
20:V:32:GLU:OE1	20:V:120:GLU:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:32:GLU:CB	20:V:118:ARG:HH11	1.96	0.77
22:X:173:PRO:HB2	22:X:176:THR:HG23	1.66	0.77
24:Z:30:VAL:HG22	24:Z:38:GLY:O	1.84	0.77
37:m:27:CYS:SG	37:m:30:GLU:N	2.55	0.77
44:t:40:LEU:HB3	44:t:59:GLU:HG2	1.66	0.77
9:I:389:U:H2'	9:I:390:G:C8	2.20	0.77
9:I:411:A:O2'	9:I:413:A:H5'	1.83	0.77
9:I:780:A:OP2	9:I:799:G:N1	2.17	0.77
9:I:1235:A:HO2'	9:I:1333:G:H21	0.79	0.77
9:I:1422:G:O6	9:I:4381:U:O4	2.02	0.77
9:I:1591:A:H1'	9:I:1592:U:C6	2.19	0.77
9:I:1630:C:H2'	9:I:1631:A:C4'	2.12	0.77
9:I:1745:G:OP1	18:T:69:ARG:HD2	1.84	0.77
9:I:1979:A:C4	9:I:1981:G:H5''	2.19	0.77
9:I:2145:C:N4	9:I:3843:G:N3	2.27	0.77
9:I:2970:U:C2	9:I:3009:A:N6	2.48	0.77
9:I:3602:A:H4'	9:I:3644:C:O2'	1.85	0.77
9:I:3693:A:O2'	9:I:3694:C:H5'	1.83	0.77
9:I:3840:A:OP1	9:I:3840:A:H2'	1.83	0.77
9:I:3887:U:P	36:l:29:ARG:HE	2.07	0.77
9:I:4018:G:O2'	9:I:4019:G:H5'	1.83	0.77
9:I:4026:G:O2'	9:I:4158:G:O2'	2.01	0.77
9:I:4211:C:H1'	39:o:93:LYS:CE	2.14	0.77
9:I:4296:G:H2'	9:I:4297:G:C8	2.20	0.77
10:J:75:G:OP1	45:u:9:ARG:NH1	2.16	0.77
12:L:22:ILE:HG22	12:L:24:VAL:CG1	2.14	0.77
13:M:130:LYS:CB	13:M:133:LEU:HB2	2.14	0.77
13:M:147:LEU:O	13:M:187:VAL:N	2.16	0.77
16:R:102:GLU:O	16:R:105:VAL:N	2.17	0.77
16:R:114:LEU:HG	16:R:118:MET:HE2	1.67	0.77
22:X:179:ALA:HA	22:X:205:GLU:HA	1.65	0.77
23:Y:64:TYR:CE2	23:Y:93:LEU:HB3	2.20	0.77
28:d:25:ILE:HG23	28:d:60:LEU:HD11	1.65	0.77
30:f:41:ARG:HE	30:f:42:GLY:H	1.29	0.77
44:t:52:ASN:C	44:t:54:PRO:HD2	2.09	0.77
45:u:6:ALA:HB2	45:u:42:LEU:HD23	1.67	0.77
46:v:21:VAL:O	46:v:55:GLY:N	2.17	0.77
8:H:44:ARG:O	8:H:48:LYS:HG3	1.84	0.77
9:I:15:A:N3	9:I:1079:A:O2'	2.16	0.77
9:I:1347:U:H4'	28:d:119:ARG:CD	2.12	0.77
9:I:1501:G:H2'	9:I:1501:G:N3	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1581:G:H2'	9:I:1582:U:O4'	1.84	0.77
9:I:1832:A:H1'	9:I:1834:C:P	2.25	0.77
9:I:1837:C:H2'	9:I:1838:G:C1'	2.14	0.77
9:I:1982:A:N6	9:I:2006:G:O2'	2.18	0.77
9:I:2134:C:H2'	9:I:2135:C:H6	1.49	0.77
9:I:2319:A:N7	9:I:2682:U:O4	2.17	0.77
9:I:3334:G:H2'	9:I:3335:U:C6	2.19	0.77
9:I:3339:G:H2'	9:I:3340:G:C5'	2.15	0.77
9:I:3704:U:O4	9:I:3708:C:N4	2.16	0.77
9:I:3791:A:N6	9:I:3815:U:H5	1.83	0.77
9:I:3806:U:OP2	14:N:70:ARG:NH2	2.16	0.77
9:I:3846:A:H2'	9:I:3847:G:H5'	1.65	0.77
9:I:4183:U:OP1	9:I:4213:G:N1	2.17	0.77
9:I:4223:G:H4'	12:L:190:LYS:CE	2.14	0.77
12:L:35:THR:O	12:L:92:VAL:HG13	1.83	0.77
12:L:101:PHE:HE1	12:L:205:PRO:HD3	1.49	0.77
12:L:105:LYS:C	12:L:177:VAL:HG13	2.09	0.77
13:M:18:THR:HA	13:M:106:LYS:HA	1.64	0.77
15:O:18:ILE:HG23	15:O:22:VAL:O	1.84	0.77
15:O:102:ILE:HB	15:O:114:HIS:CB	2.14	0.77
20:V:47:VAL:O	20:V:51:LEU:HD23	1.84	0.77
31:g:98:ARG:NE	31:g:104:SER:O	2.17	0.77
39:o:52:ARG:N	39:o:56:SER:OG	2.17	0.77
44:t:23:LYS:H	44:t:36:GLU:HG2	1.49	0.77
1:A:4:SER:OG	9:I:1214:G:H3'	1.85	0.77
2:B:88:ARG:CZ	9:I:2214:U:H5	1.98	0.77
5:E:2:ILE:HD13	5:E:35:GLN:OE1	1.85	0.77
5:E:24:ARG:NH2	9:I:721:G:OP1	2.18	0.77
9:I:58:A:H5''	9:I:60:G:OP1	1.83	0.77
9:I:468:C:O2	9:I:468:C:H2'	1.82	0.77
9:I:990:U:C4'	9:I:991:U:H5''	2.13	0.77
9:I:1002:G:C3'	9:I:1003:A:H5''	2.14	0.77
9:I:1776:U:H2'	9:I:1778:A:N7	1.99	0.77
9:I:2214:U:O4'	9:I:2218:A:N6	2.17	0.77
9:I:2542:A:H2'	9:I:2607:U:C1'	2.14	0.77
9:I:3353:U:H2'	9:I:3354:G:H8	1.49	0.77
9:I:3801:G:H4'	9:I:3802:G:C5'	2.14	0.77
9:I:4017:G:C2'	9:I:4018:G:H5'	2.15	0.77
10:J:50:G:OP1	38:n:62:LYS:NZ	2.17	0.77
10:J:74:G:HO2'	45:u:88:HIS:HE2	1.30	0.77
10:J:82:G:H4'	49:y:52:PHE:CD2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:1:MET:O	12:L:205:PRO:HG2	1.83	0.77
12:L:8:LYS:HB3	12:L:199:SER:H	1.47	0.77
16:R:72:LYS:HE2	16:R:74:TYR:OH	1.83	0.77
17:S:64:ARG:HD3	17:S:102:PRO:CG	2.15	0.77
20:V:44:LEU:O	20:V:48:VAL:HG22	1.83	0.77
20:V:45:ARG:HA	20:V:48:VAL:HG22	1.64	0.77
20:V:95:THR:C	20:V:116:VAL:HG23	2.09	0.77
39:o:47:ILE:CG2	39:o:99:LEU:HB2	2.15	0.77
43:s:5:GLU:N	43:s:5:GLU:OE1	2.17	0.77
1:A:84:ARG:NH1	9:I:1059:U:O5'	2.17	0.77
2:B:59:VAL:O	2:B:63:ARG:HG2	1.82	0.77
3:C:74:LEU:O	3:C:78:VAL:HG12	1.84	0.77
4:D:18:ILE:HD13	4:D:50:CYS:O	1.84	0.77
5:E:42:ARG:NH1	25:a:88:MET:HG2	1.99	0.77
9:I:874:U:O2'	27:c:11:THR:HG23	1.83	0.77
9:I:2089:U:O2'	9:I:2090:A:H5'	1.84	0.77
9:I:2508:A:H2'	9:I:2509:U:C6	2.19	0.77
9:I:3125:G:H21	9:I:3129:A:H62	1.31	0.77
9:I:3189:G:H3'	9:I:3189:G:N3	2.00	0.77
9:I:3233:A:H3'	9:I:3234:G:C8	2.19	0.77
9:I:3312:U:H5''	11:K:155:ARG:C	2.09	0.77
9:I:3371:A:H2'	9:I:3372:G:O4'	1.83	0.77
9:I:4242:A:H2'	9:I:4243:A:H5'	1.65	0.77
10:J:11:C:H3'	46:v:66:ASN:HD21	1.50	0.77
12:L:39:ASP:HB2	12:L:46:ARG:HG2	1.66	0.77
12:L:172:VAL:HG21	12:L:194:PRO:CG	2.14	0.77
12:L:180:VAL:HG23	12:L:186:LEU:O	1.85	0.77
14:N:22:ASN:OD1	14:N:23:SER:N	2.17	0.77
17:S:8:LEU:HB3	17:S:19:VAL:CG2	2.14	0.77
18:T:79:LEU:HD22	18:T:116:VAL:HB	1.66	0.77
19:U:6:ARG:NH2	19:U:8:LYS:HA	1.99	0.77
19:U:67:VAL:HB	19:U:94:ALA:CB	2.14	0.77
20:V:21:PHE:C	20:V:69:ARG:HH12	1.93	0.77
21:W:22:PRO:HA	21:W:25:LYS:HE2	1.65	0.77
23:Y:61:ARG:NH1	23:Y:68:GLU:OE2	2.17	0.77
27:c:51:GLU:HB3	27:c:57:GLU:HB3	1.66	0.77
34:j:19:THR:O	36:l:33:THR:HA	1.85	0.77
40:p:78:PHE:CE2	40:p:82:LEU:HD11	2.19	0.77
41:q:11:GLN:HG3	41:q:39:LEU:CD1	2.15	0.77
47:w:37:PHE:HB2	47:w:46:VAL:HG13	1.66	0.77
1:A:84:ARG:NH1	9:I:1059:U:O4'	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:63:GLN:CB	9:I:226:G:C4	2.68	0.77
5:E:2:ILE:HA	5:E:35:GLN:OE1	1.84	0.77
8:H:48:LYS:HE3	9:I:4431:U:P	2.24	0.77
9:I:787:U:H3	9:I:791:A:H2'	1.50	0.77
9:I:788:U:O2'	9:I:790:G:N7	2.16	0.77
9:I:957:A:O2'	9:I:958:A:H5'	1.85	0.77
9:I:1860:U:H2'	9:I:1861:G:C1'	2.15	0.77
9:I:2039:G:N1	9:I:2054:U:N3	2.31	0.77
9:I:2082:A:O3'	40:p:10:ARG:NH2	2.14	0.77
9:I:2463:G:OP1	49:y:17:PRO:HG3	1.83	0.77
9:I:2983:C:H2'	9:I:2985:G:N7	1.98	0.77
9:I:3225:G:C2'	9:I:3226:C:H3'	2.15	0.77
9:I:3405:PSU:H2'	9:I:3412:A:C2	2.20	0.77
9:I:3805:A:H3'	9:I:3806:U:C5	2.19	0.77
9:I:3882:A:H5'	9:I:3883:G:OP2	1.82	0.77
9:I:3913:U:O2'	9:I:3914:C:H5'	1.83	0.77
9:I:4250:U:H4'	9:I:4251:A:OP1	1.85	0.77
10:J:29:C:H2'	10:J:30:C:C6	2.19	0.77
11:K:77:VAL:HG11	11:K:91:ALA:CB	2.15	0.77
13:M:2:GLU:HB3	13:M:11:ALA:CB	2.14	0.77
17:S:73:ASP:HB3	39:o:79:VAL:CG2	2.15	0.77
19:U:44:ARG:O	19:U:48:ALA:HB2	1.84	0.77
21:W:17:THR:HG21	21:W:31:ALA:HB1	1.66	0.77
22:X:9:ILE:HG23	22:X:10:ARG:HD2	1.66	0.77
23:Y:75:TYR:HE1	23:Y:200:VAL:HG13	1.50	0.77
31:g:13:ARG:HE	31:g:14:LYS:H	1.32	0.77
3:C:46:LYS:NZ	9:I:624:U:H1'	1.99	0.77
5:E:23:SER:OG	5:E:28:THR:OG1	2.03	0.77
5:E:46:LEU:CD2	25:a:86:ARG:HB2	2.06	0.77
6:F:48:ALA:HB1	6:F:55:HIS:HB3	1.67	0.77
9:I:450:A:H4'	9:I:451:A:O4'	1.83	0.77
9:I:1213:C:H2'	9:I:1214:G:H8	1.50	0.77
9:I:1837:C:OP2	44:t:3:LYS:HE3	1.85	0.77
9:I:2489:C:O2'	40:p:92:LYS:NZ	2.16	0.77
9:I:2535:G:O6	9:I:2608:C:N4	2.16	0.77
9:I:2538:C:H4'	9:I:2605:A:N1	1.99	0.77
9:I:2915:G:N2	9:I:3072:U:O2	2.18	0.77
9:I:2971:A:H61	9:I:3051:C:HO2'	1.30	0.77
9:I:3336:G:H2'	9:I:3337:C:C1'	2.13	0.77
9:I:3906:A:H2'	9:I:3907:G:O4'	1.84	0.77
10:J:56:A:N7	14:N:25:MET:HE2	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:4:LYS:NZ	11:K:13:ARG:O	2.18	0.77
12:L:16:THR:HG21	12:L:20:VAL:HB	1.67	0.77
12:L:151:THR:O	12:L:153:GLY:N	2.17	0.77
21:W:100:ASN:O	21:W:104:VAL:HG23	1.84	0.77
22:X:136:ALA:HA	22:X:139:ASN:HD21	1.49	0.77
24:Z:139:ASN:HD22	24:Z:144:VAL:HG23	1.49	0.77
39:o:90:ALA:HB1	39:o:112:ARG:CZ	2.15	0.77
43:s:11:LEU:HD22	48:x:25:PHE:CE1	2.20	0.77
1:A:8:ARG:HG2	9:I:1217:C:OP2	1.85	0.77
5:E:47:SER:HA	25:a:49:TYR:CZ	2.20	0.77
5:E:51:TYR:OH	9:I:673:G:H5''	1.84	0.77
9:I:730:G:H5'	9:I:765:A:H4'	1.67	0.77
9:I:1307:U:H4'	32:h:90:HIS:HE1	1.49	0.77
9:I:1755:A:H2'	9:I:1756:A:O4'	1.84	0.77
9:I:2090:A:H2'	9:I:2091:U:H6	1.50	0.77
9:I:2133:A:C3'	9:I:2134:C:H5'	2.15	0.77
9:I:2156:G:H2'	9:I:2157:U:H6	1.47	0.77
9:I:2328:U:H4'	9:I:2331:G:C2	2.19	0.77
9:I:2539:C:H4'	9:I:2540:A:H5'	1.66	0.77
9:I:2634:C:OP1	16:R:25:LEU:HB3	1.83	0.77
9:I:3312:U:C5'	11:K:155:ARG:HB3	2.15	0.77
9:I:3576:A:H2'	9:I:3577:G:O4'	1.85	0.77
14:N:55:ASP:O	14:N:140:ILE:HD11	1.85	0.77
19:U:43:ALA:HA	19:U:46:ILE:CB	2.12	0.77
30:f:12:HIS:HB3	30:f:19:ILE:CG1	2.15	0.77
31:g:28:GLN:HG3	31:g:80:LEU:CD2	2.14	0.77
32:h:95:PRO:HA	32:h:108:ARG:NE	2.00	0.77
45:u:29:ILE:HG13	45:u:38:LEU:O	1.84	0.77
45:u:83:LYS:HB2	45:u:85:LYS:HZ3	1.46	0.77
1:A:96:LYS:HG2	29:e:61:TYR:CE2	2.20	0.77
9:I:122:U:H1'	9:I:289:C:H1'	1.67	0.77
9:I:274:G:H2'	9:I:275:G:C8	2.20	0.77
9:I:726:G:N2	9:I:728:A:H3'	2.00	0.77
9:I:966:5MC:O5'	9:I:967:A:H2'	1.85	0.77
9:I:1575:G:O5'	48:x:47:ARG:NH2	2.18	0.77
9:I:1604:A:H2'	9:I:1605:C:C6	2.19	0.77
9:I:1796:U:H4'	44:t:86:PHE:CZ	2.19	0.77
9:I:2302:A:H2'	9:I:2302:A:N3	1.98	0.77
9:I:2667:U:H3'	9:I:2668:U:C4'	2.15	0.77
9:I:2932:U:H3	9:I:3047:A:N6	1.82	0.77
9:I:3027:C:H3'	9:I:3028:U:H5	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3258:C:O2'	9:I:3259:U:H5'	1.83	0.77
9:I:3887:U:O2'	9:I:3888:C:H5'	1.84	0.77
9:I:3962:A:H2'	9:I:3970:A:C5	2.20	0.77
9:I:4048:U:H2'	9:I:4049:U:H6	1.50	0.77
9:I:4178:U:H5''	39:o:72:VAL:CG1	2.15	0.77
11:K:123:ILE:HD11	11:K:129:LEU:CD2	2.14	0.77
11:K:125:PRO:HA	11:K:192:GLY:HA3	1.65	0.77
11:K:140:VAL:H	11:K:161:VAL:N	1.82	0.77
12:L:12:THR:HG23	12:L:24:VAL:HG22	1.66	0.77
22:X:67:ILE:HD11	22:X:100:ILE:HD11	1.66	0.77
24:Z:9:VAL:HG23	24:Z:25:THR:O	1.85	0.77
31:g:71:HIS:NE2	31:g:73:LEU:HB2	1.99	0.77
37:m:2:LYS:O	37:m:35:GLN:HG3	1.84	0.77
39:o:96:LEU:CD2	39:o:99:LEU:HD11	2.15	0.77
41:q:4:VAL:O	41:q:38:VAL:HA	1.84	0.77
45:u:30:ILE:HG13	45:u:40:ILE:HD13	1.65	0.77
48:x:23:GLU:HA	48:x:26:ASN:HB2	1.66	0.77
1:A:6:LYS:H	9:I:1215:A:H5''	1.50	0.77
2:B:10:ILE:HG23	2:B:29:ALA:HB3	1.66	0.77
4:D:16:LYS:H	9:I:273:A:P	2.08	0.77
5:E:14:ILE:HG21	5:E:49:LEU:HD13	1.66	0.77
5:E:33:GLN:NE2	9:I:718:C:O2	2.18	0.77
9:I:37:G:H1'	9:I:396:A:N6	1.99	0.77
9:I:415:G:H1	9:I:426:U:H3	0.80	0.77
9:I:519:A:H61	9:I:532:A:H61	1.29	0.77
9:I:562:A:H2'	9:I:566:G:C8	2.21	0.77
9:I:1111:C:N3	22:X:177:LEU:HD23	2.00	0.77
9:I:1479:A:O2'	9:I:4325:G:N3	2.15	0.77
9:I:1964:U:O2'	9:I:1965:G:H5'	1.85	0.77
9:I:2422:A:H5'	49:y:38:GLU:OE2	1.85	0.77
9:I:2877:A:H2	9:I:2900:U:H1'	1.50	0.77
9:I:3016:A:H3'	9:I:3017:U:C6	2.19	0.77
9:I:3058:C:O2'	9:I:3059:C:O5'	2.02	0.77
9:I:3185:C:H2'	9:I:3186:U:C6	2.20	0.77
9:I:3359:U:C4	9:I:3369:G:H2'	2.19	0.77
9:I:3603:U:O2	9:I:3674:U:N3	2.16	0.77
9:I:3849:G:O2'	9:I:3850:U:H5'	1.85	0.77
9:I:4157:G:H2'	9:I:4158:G:C8	2.19	0.77
9:I:4175:C:OP1	12:L:11:MET:SD	2.43	0.77
10:J:23:G:H1	10:J:58:A:H61	1.29	0.77
12:L:1:MET:HA	12:L:100:LEU:HD11	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:39:ALA:O	13:M:41:GLN:NE2	2.17	0.77
13:M:88:ARG:CD	13:M:89:PRO:HD2	2.14	0.77
13:M:101:TYR:OH	13:M:105:LEU:HD11	1.84	0.77
16:R:23:LYS:HE2	16:R:28:LEU:CD1	2.14	0.77
16:R:115:GLY:CA	16:R:118:MET:HE3	2.15	0.77
17:S:1:MET:N	17:S:65:THR:HG21	2.00	0.77
17:S:24:VAL:HA	17:S:39:ILE:CB	2.14	0.77
18:T:124:GLY:N	18:T:144:GLU:OXT	2.17	0.77
19:U:44:ARG:CZ	19:U:91:TYR:HB2	2.15	0.77
19:U:67:VAL:HB	19:U:94:ALA:HB1	1.67	0.77
21:W:108:ILE:HG22	21:W:112:LYS:HE2	1.67	0.77
23:Y:10:LEU:HB3	23:Y:62:ARG:CD	2.14	0.77
23:Y:53:GLN:HA	23:Y:198:LEU:CD2	2.15	0.77
27:c:76:ARG:HA	27:c:126:CYS:CB	2.15	0.77
29:e:49:ILE:CG2	29:e:57:ALA:HB1	2.15	0.77
31:g:32:VAL:HG22	31:g:78:VAL:CG2	2.09	0.77
41:q:22:LEU:HB2	41:q:25:LEU:HD11	1.64	0.77
41:q:49:ILE:HG22	41:q:54:VAL:N	2.00	0.77
42:r:55:ILE:O	42:r:59:GLU:HG3	1.84	0.77
45:u:1:MET:HE2	45:u:1:MET:H2	1.49	0.77
46:v:29:ARG:HA	46:v:48:THR:HG23	1.67	0.77
2:B:37:HIS:HD2	2:B:38:LEU:HD22	1.50	0.76
9:I:376:G:OP2	9:I:376:G:H3'	1.84	0.76
9:I:412:G:H21	9:I:427:G:H1'	1.50	0.76
9:I:605:G:H21	9:I:630:C:H3'	1.48	0.76
9:I:857:G:O6	9:I:868:G:H3'	1.85	0.76
9:I:1111:C:H2'	9:I:1112:C:H5'	1.67	0.76
9:I:1877:G:C2'	9:I:1878:C:H5'	2.15	0.76
9:I:3088:U:O2'	9:I:3089:C:H5'	1.85	0.76
9:I:3309:A:O4'	9:I:3311:G:H1'	1.86	0.76
9:I:3412:A:O2'	9:I:3414:C:N4	2.18	0.76
9:I:3564:A:H2'	9:I:3565:A:H8	1.50	0.76
9:I:3681:U:C2'	9:I:3682:U:H5'	2.15	0.76
9:I:3777:C:O2'	9:I:3778:A:H5'	1.85	0.76
9:I:3825:G:H21	9:I:3830:A:H1'	1.51	0.76
9:I:4212:G:N3	9:I:4341:U:H4'	2.00	0.76
12:L:110:THR:CB	12:L:202:ILE:HB	2.13	0.76
16:R:101:ILE:O	16:R:104:ALA:HB3	1.85	0.76
17:S:52:VAL:CG2	17:S:56:ASP:HB2	2.16	0.76
19:U:26:VAL:CG2	19:U:134:THR:HG23	2.15	0.76
20:V:95:THR:N	20:V:116:VAL:HG23	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:6:PRO:O	22:X:10:ARG:HB2	1.85	0.76
25:a:70:VAL:HA	25:a:73:GLU:CG	2.13	0.76
27:c:77:VAL:HG23	27:c:126:CYS:HA	1.67	0.76
38:n:10:ALA:HB1	38:n:94:SER:HB3	1.67	0.76
39:o:47:ILE:HG22	39:o:99:LEU:HD12	1.66	0.76
40:p:56:PHE:HB3	40:p:60:TRP:CH2	2.20	0.76
43:s:55:VAL:C	43:s:88:LYS:HE2	2.10	0.76
44:t:28:LEU:O	44:t:31:GLY:N	2.18	0.76
44:t:92:VAL:HB	44:t:101:THR:HG23	1.65	0.76
45:u:6:ALA:HB3	45:u:63:ILE:HD13	1.65	0.76
48:x:37:GLN:CG	48:x:38:GLN:HG3	2.15	0.76
2:B:21:THR:HA	2:B:26:VAL:HG21	1.67	0.76
3:C:2:VAL:HG21	9:I:228:U:O2'	1.85	0.76
5:E:7:ILE:HG12	25:a:45:ARG:NH2	2.00	0.76
9:I:374:U:H2'	9:I:375:G:O4'	1.85	0.76
9:I:545:A:P	23:Y:67:LEU:HD22	2.24	0.76
9:I:1185:G:H4'	28:d:109:GLU:OE2	1.86	0.76
9:I:1595:A:C3'	9:I:1596:C:H5''	2.14	0.76
9:I:3201:G:C6	9:I:3245:U:C2	2.73	0.76
9:I:3791:A:H2'	9:I:3792:A:H5'	1.66	0.76
9:I:4426:U:H5''	30:f:116:ARG:NH2	2.01	0.76
11:K:4:LYS:HA	11:K:16:VAL:HG22	1.67	0.76
11:K:76:VAL:HB	11:K:114:GLN:OE1	1.84	0.76
11:K:105:ALA:HA	11:K:109:LEU:HD13	1.67	0.76
11:K:143:VAL:N	11:K:153:LEU:H	1.83	0.76
11:K:146:LYS:HB2	11:K:149:LYS:CB	2.11	0.76
11:K:157:ALA:O	11:K:194:VAL:HG22	1.84	0.76
12:L:54:ALA:HA	12:L:75:ALA:O	1.85	0.76
13:M:21:ARG:O	13:M:114:ARG:NH2	2.18	0.76
14:N:35:LEU:HD22	14:N:88:VAL:CG2	2.15	0.76
14:N:128:SER:CB	14:N:154:THR:HG23	2.13	0.76
14:N:133:GLU:OE2	14:N:135:ILE:HG13	1.85	0.76
15:O:101:VAL:HG22	15:O:115:GLN:OE1	1.85	0.76
16:R:32:LEU:HD23	16:R:142:ILE:HG12	1.67	0.76
17:S:40:LYS:HA	17:S:59:LYS:HG3	1.67	0.76
20:V:45:ARG:HB3	20:V:49:GLU:OE2	1.84	0.76
21:W:11:VAL:HG22	21:W:206:ALA:HB1	1.65	0.76
27:c:9:MET:HE3	27:c:13:ILE:HG12	1.65	0.76
28:d:32:LEU:HD11	28:d:42:ARG:HG2	1.65	0.76
39:o:62:LYS:O	39:o:63:ILE:HD13	1.85	0.76
40:p:12:ARG:HA	40:p:15:LYS:NZ	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:t:42:LYS:HG3	44:t:59:GLU:HG3	1.66	0.76
45:u:29:ILE:HG13	45:u:38:LEU:C	2.09	0.76
2:B:10:ILE:CD1	2:B:30:LEU:HA	2.14	0.76
2:B:11:VAL:HA	2:B:26:VAL:HG22	1.66	0.76
9:I:46:C:H5''	9:I:364:U:H2'	1.67	0.76
9:I:106:G:OP1	9:I:324:A:N6	2.16	0.76
9:I:249:A:H5''	9:I:251:U:O4'	1.85	0.76
9:I:265:G:OP2	9:I:266:C:N4	2.19	0.76
9:I:582:A:N6	9:I:757:C:O2	2.16	0.76
9:I:736:C:H5'	25:a:89:VAL:CG1	2.14	0.76
9:I:738:C:C2'	9:I:739:U:H5'	2.16	0.76
9:I:1194:C:H2'	9:I:1196:A:O4'	1.85	0.76
9:I:1820:A:H4'	9:I:1821:U:OP1	1.85	0.76
9:I:2045:U:O2	9:I:2046:U:H4'	1.84	0.76
9:I:2481:C:H5''	49:y:10:ARG:NH1	2.01	0.76
9:I:2636:A:H2'	9:I:2636:A:N3	2.00	0.76
9:I:2707:A:H2'	9:I:2708:A:H8	1.49	0.76
9:I:3788:G:H2'	9:I:3789:C:O5'	1.86	0.76
9:I:3992:OMC:HM22	9:I:3993:C:O4'	1.85	0.76
9:I:4189:U:C4	9:I:4208:G:O6	2.38	0.76
12:L:4:LEU:HB2	12:L:101:PHE:CE2	2.19	0.76
12:L:9:VAL:HG11	39:o:3:ILE:HG21	1.68	0.76
12:L:50:VAL:HG22	12:L:80:TRP:HB2	1.66	0.76
13:M:7:ASP:OD1	13:M:122:GLU:HG3	1.85	0.76
14:N:3:LEU:CD1	14:N:100:GLU:HG3	2.15	0.76
19:U:96:ILE:HD13	19:U:100:LYS:HZ3	1.48	0.76
20:V:95:THR:HA	20:V:116:VAL:H	1.50	0.76
24:Z:27:LEU:HD13	24:Z:125:ILE:HD12	1.67	0.76
25:a:16:GLU:O	25:a:19:PRO:HD2	1.84	0.76
33:i:27:LEU:HD21	33:i:36:LYS:HD2	1.64	0.76
41:q:24:LYS:HA	41:q:94:THR:OG1	1.84	0.76
3:C:15:PRO:HB2	3:C:41:PRO:CG	2.15	0.76
4:D:35:ILE:HB	9:I:279:C:C5	2.21	0.76
9:I:663:G:H2'	9:I:665:G:OP1	1.85	0.76
9:I:1391:G:H2'	9:I:1392:U:C6	2.20	0.76
9:I:1921:C:O2'	9:I:1922:A:OP2	2.04	0.76
9:I:1929:A:H2'	9:I:1930:A:C5	2.20	0.76
9:I:2173:C:C2'	9:I:2174:G:H5'	2.16	0.76
9:I:2488:C:H1'	41:q:10:LYS:HZ3	1.50	0.76
9:I:2632:G:C6	9:I:2633:G:H1'	2.21	0.76
9:I:3073:A:H2'	9:I:3074:A:N9	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3159:A:H5'	17:S:66:LYS:HD2	1.67	0.76
9:I:3216:A:H1'	9:I:3233:A:H1'	1.67	0.76
9:I:3409:3TD:O5'	9:I:3409:3TD:H6	1.86	0.76
9:I:3722:G:H2'	9:I:3723:U:C6	2.20	0.76
9:I:3805:A:N3	14:N:76:PHE:HB3	2.00	0.76
9:I:4022:U:OP1	37:m:31:PRO:HG2	1.84	0.76
9:I:4229:G:N1	9:I:4263:U:C2	2.48	0.76
11:K:80:LEU:HD22	11:K:90:ILE:C	2.11	0.76
11:K:182:LYS:HD2	11:K:265:PHE:CB	2.15	0.76
12:L:8:LYS:NZ	12:L:194:PRO:O	2.18	0.76
12:L:15:PHE:HD2	39:o:54:LEU:HD21	1.50	0.76
12:L:25:THR:CG2	12:L:193:VAL:HG22	2.15	0.76
13:M:177:PRO:CA	13:M:180:LEU:HD12	2.14	0.76
18:T:62:PRO:CD	36:l:26:ALA:HB2	2.15	0.76
18:T:112:LEU:CB	18:T:131:ALA:HB2	2.13	0.76
24:Z:3:GLN:CD	24:Z:108:VAL:HA	2.11	0.76
26:b:64:ALA:HB1	26:b:126:ALA:CB	2.15	0.76
38:n:22:ALA:HB1	38:n:90:SER:OG	1.85	0.76
44:t:23:LYS:H	44:t:36:GLU:H	1.31	0.76
46:v:58:LYS:NZ	46:v:60:GLU:HB3	2.00	0.76
1:A:5:MET:H	9:I:1215:A:P	2.08	0.76
1:A:80:ARG:NH1	29:e:51:PRO:O	2.18	0.76
3:C:2:VAL:CG2	3:C:21:VAL:HG12	2.13	0.76
7:G:22:ARG:N	9:I:4363:G:OP2	2.19	0.76
7:G:71:ALA:HA	7:G:74:LYS:CE	2.15	0.76
9:I:78:G:N2	9:I:89:C:O2	2.18	0.76
9:I:148:A:H2'	9:I:149:U:C6	2.21	0.76
9:I:851:G:H2'	9:I:852:C:H6	1.48	0.76
9:I:1808:G:O2'	9:I:1829:G:N2	2.18	0.76
9:I:1919:U:H2'	9:I:1920:C:C6	2.20	0.76
9:I:2282:A:C5	11:K:224:MET:HE1	2.19	0.76
9:I:3824:G:H2'	9:I:3825:G:H8	1.49	0.76
9:I:4228:A:H2'	9:I:4229:G:C5'	2.12	0.76
9:I:4390:G:H2'	9:I:4391:G:H8	1.49	0.76
10:J:92:C:OP1	45:u:18:ARG:HD3	1.85	0.76
12:L:35:THR:HA	12:L:93:GLY:H	1.49	0.76
13:M:58:LYS:HD2	13:M:59:PRO:HD2	1.67	0.76
17:S:36:GLY:HA2	17:S:107:LEU:HD21	1.65	0.76
18:T:118:THR:HG23	18:T:120:VAL:HG23	1.68	0.76
22:X:22:PHE:HB3	29:e:91:GLY:O	1.84	0.76
24:Z:26:ALA:CB	24:Z:51:ILE:HA	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:e:6:LEU:HD23	29:e:94:VAL:HG12	1.68	0.76
34:j:26:THR:HG23	34:j:27:LYS:HG2	1.66	0.76
41:q:6:GLN:HA	41:q:11:GLN:HA	1.67	0.76
45:u:29:ILE:HG22	45:u:90:ASP:CG	2.10	0.76
3:C:2:VAL:HG11	3:C:60:TRP:HZ3	1.49	0.76
9:I:937:A:O2'	26:b:94:ARG:NH2	2.17	0.76
9:I:1102:C:H5''	21:W:94:LEU:HD13	1.68	0.76
9:I:1691:A:H2'	9:I:1692:C:C6	2.21	0.76
9:I:1829:G:C2'	44:t:15:GLY:HA2	2.16	0.76
9:I:2837:G:H1'	9:I:3091:A:C4	2.20	0.76
9:I:2954:U:O2'	9:I:2955:C:O5'	2.01	0.76
9:I:3083:U:H2'	9:I:3084:A:H8	1.51	0.76
9:I:3313:A:O2'	11:K:177:SER:HA	1.84	0.76
9:I:3354:G:H2'	9:I:3355:G:C8	2.21	0.76
9:I:3417:U:H2'	9:I:3418:C:H6	1.48	0.76
9:I:4290:U:O2'	9:I:4291:U:H3'	1.86	0.76
11:K:123:ILE:HG23	11:K:191:LEU:CB	2.15	0.76
13:M:6:LYS:N	13:M:120:VAL:HG23	2.01	0.76
13:M:131:THR:CG2	13:M:163:ASN:H	1.99	0.76
14:N:30:VAL:CG1	14:N:168:LEU:HD21	2.16	0.76
19:U:72:PRO:HD3	19:U:92:TRP:CZ3	2.21	0.76
24:Z:27:LEU:HD22	24:Z:125:ILE:HD13	1.68	0.76
24:Z:72:LEU:HD21	24:Z:138:MET:SD	2.26	0.76
30:f:5:SER:HA	30:f:68:LYS:N	1.99	0.76
31:g:55:ARG:NH2	31:g:59:GLY:HA2	1.99	0.76
38:n:107:ASP:O	38:n:110:ARG:HB2	1.86	0.76
42:r:49:LYS:HA	42:r:52:GLU:OE1	1.85	0.76
44:t:5:ARG:NH1	44:t:93:ARG:HG3	2.00	0.76
47:w:46:VAL:CG2	47:w:48:LEU:HD21	2.15	0.76
49:y:27:GLY:HA3	49:y:37:ARG:NH2	2.01	0.76
9:I:50:A:C2	9:I:115:A:H1'	2.21	0.76
9:I:563:C:OP2	31:g:11:ARG:NH1	2.18	0.76
9:I:719:C:H3'	9:I:720:G:H2'	1.67	0.76
9:I:1368:C:H2'	9:I:1369:G:C8	2.21	0.76
9:I:1649:A:H2'	9:I:1650:U:C6	2.20	0.76
9:I:1872:G:H1	9:I:1900:G:H2'	1.48	0.76
9:I:1937:U:O2'	9:I:1938:G:H5'	1.86	0.76
9:I:2120:G:H4'	9:I:2121:A:O5'	1.85	0.76
9:I:2700:G:H2'	9:I:2701:C:C6	2.20	0.76
9:I:2955:C:H2'	9:I:2956:C:C6	2.20	0.76
9:I:3858:C:H4'	46:v:46:ASP:OD2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4233:U:C2	9:I:4258:A:N6	2.52	0.76
9:I:4340:G:OP1	39:o:52:ARG:NH1	2.17	0.76
10:J:33:A:N6	10:J:43:G:O2'	2.18	0.76
13:M:18:THR:HA	13:M:106:LYS:C	2.10	0.76
15:O:153:PRO:HA	15:O:159:LYS:O	1.86	0.76
16:R:32:LEU:CD2	16:R:142:ILE:HG12	2.15	0.76
18:T:109:LYS:HA	18:T:126:ARG:O	1.86	0.76
29:e:5:ARG:HH11	29:e:69:LEU:HB2	1.51	0.76
31:g:66:ILE:HA	31:g:96:THR:OG1	1.86	0.76
36:l:3:ILE:N	36:l:63:TYR:OH	2.19	0.76
37:m:16:ILE:HG23	37:m:24:ARG:O	1.86	0.76
41:q:1:MET:HA	41:q:42:ALA:O	1.85	0.76
41:q:4:VAL:HG12	41:q:39:LEU:HD13	1.68	0.76
45:u:77:VAL:CG2	45:u:86:LEU:HD22	2.15	0.76
45:u:78:GLN:HB2	45:u:88:HIS:N	2.01	0.76
4:D:64:LEU:HA	9:I:265:G:OP1	1.85	0.76
8:H:3:ILE:HG12	30:f:98:ILE:HA	1.68	0.76
9:I:228:U:HO2'	9:I:229:G:P	2.09	0.76
9:I:451:A:H2'	9:I:452:G:O4'	1.86	0.76
9:I:1067:G:N2	9:I:1107:G:H1'	2.01	0.76
9:I:1945:C:OP1	40:p:1:ALA:N	2.19	0.76
9:I:2045:U:C2'	9:I:2047:A:H5'	2.15	0.76
9:I:2346:U:C2'	9:I:2347:U:H5''	2.15	0.76
9:I:2367:C:H2'	9:I:2368:U:H6	1.49	0.76
9:I:2498:U:C2'	9:I:2505:G:H2'	2.14	0.76
9:I:2501:C:H3'	9:I:2502:A:C8	2.18	0.76
9:I:2963:A:H2'	9:I:2964:A:H8	1.50	0.76
9:I:2992:C:H2'	9:I:2993:C:H6	1.47	0.76
9:I:3638:G:H1'	9:I:3642:G:H22	1.50	0.76
9:I:3678:A:H2'	9:I:3679:U:C6	2.20	0.76
9:I:3823:U:H2'	9:I:3824:G:N9	2.01	0.76
9:I:4024:A:C4'	9:I:4028:A:H61	1.98	0.76
9:I:4211:C:H1'	39:o:93:LYS:HE3	1.68	0.76
9:I:4242:A:C2'	9:I:4243:A:H5'	2.16	0.76
10:J:5:G:H5'	10:J:26:C:O3'	1.86	0.76
11:K:5:CYS:N	11:K:15:VAL:O	2.19	0.76
20:V:66:ALA:CB	20:V:76:VAL:HG12	2.16	0.76
21:W:53:GLU:HG2	21:W:195:PHE:CE2	2.21	0.76
29:e:6:LEU:O	29:e:67:LEU:HA	1.86	0.76
45:u:4:ILE:HG21	45:u:42:LEU:HD13	1.66	0.76
45:u:28:ALA:CB	45:u:40:ILE:HG13	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:u:61:LEU:HD21	45:u:91:PHE:CG	2.21	0.76
5:E:42:ARG:CB	9:I:733:G:H22	1.98	0.76
9:I:92:U:H3'	9:I:93:G:H5''	1.68	0.76
9:I:169:U:O2'	9:I:170:A:O4'	2.03	0.76
9:I:450:A:N6	9:I:479:U:H2'	2.01	0.76
9:I:564:U:OP2	9:I:565:G:O2'	2.00	0.76
9:I:739:U:H2'	9:I:740:G:C8	2.21	0.76
9:I:1045:A:N6	9:I:1212:A:H61	1.84	0.76
9:I:1600:U:H4'	9:I:1601:A:OP1	1.86	0.76
9:I:1791:G:H2'	9:I:1792:U:C6	2.20	0.76
9:I:2523:A:H2'	9:I:2524:C:H5'	1.66	0.76
9:I:3089:C:O2'	9:I:3090:A:H5'	1.86	0.76
9:I:3296:A:O2'	9:I:3297:A:O4'	2.04	0.76
9:I:3363:G:H21	9:I:3366:A:H62	1.33	0.76
9:I:4174:U:H4'	12:L:11:MET:CE	2.16	0.76
9:I:4221:A:O2'	9:I:4222:U:H5'	1.86	0.76
10:J:4:U:C1'	10:J:25:C:H42	1.99	0.76
10:J:11:C:C2'	46:v:64:PRO:HA	2.16	0.76
10:J:27:C:H41	38:n:32:ARG:HH12	1.31	0.76
10:J:41:C:H1'	14:N:63:LYS:O	1.85	0.76
11:K:153:LEU:HD12	11:K:175:LEU:HB3	1.68	0.76
13:M:119:ILE:CG1	13:M:185:LYS:HB3	2.15	0.76
15:O:87:GLN:HG2	15:O:164:ALA:HA	1.65	0.76
16:R:4:PHE:HA	40:p:100:PHE:CZ	2.20	0.76
16:R:80:HIS:O	16:R:83:GLY:N	2.19	0.76
16:R:129:GLU:CG	16:R:130:HIS:H	1.99	0.76
20:V:25:ALA:CB	20:V:70:THR:HB	2.16	0.76
41:q:3:ALA:N	41:q:14:VAL:O	2.19	0.76
8:H:5:VAL:HG21	30:f:70:LEU:H	1.50	0.76
9:I:106:G:H3'	9:I:107:G:H5''	1.68	0.76
9:I:571:A:O2'	9:I:915:U:O2'	1.99	0.76
9:I:687:G:H5'	30:f:37:GLY:HA2	1.66	0.76
9:I:769:C:O2'	9:I:770:G:H5'	1.84	0.76
9:I:931:C:H5'	26:b:3:ARG:CB	2.16	0.76
9:I:1347:U:H2'	9:I:1348:A:H8	1.50	0.76
9:I:1904:A:H4'	9:I:1905:U:O5'	1.85	0.76
9:I:2215:A:H3'	9:I:2216:A:H8	1.50	0.76
9:I:2361:A:C3'	9:I:2362:G:H8	1.98	0.76
9:I:2518:G:H3'	9:I:2519:G:H8	1.51	0.76
9:I:3017:U:H3'	9:I:3018:G:H8	1.50	0.76
9:I:3286:G:P	11:K:204:LEU:HB2	2.25	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3357:G:C2'	9:I:3358:U:H5'	2.16	0.76
9:I:3785:U:N3	9:I:3835:G:O6	2.19	0.76
9:I:3808:A:H4'	14:N:156:THR:HA	1.66	0.76
9:I:4024:A:O3'	15:O:174:LYS:HE3	1.86	0.76
9:I:4133:A:O3'	16:R:95:ARG:NH2	2.18	0.76
9:I:4217:C:H2'	9:I:4218:U:O4'	1.86	0.76
10:J:75:G:OP1	45:u:27:PRO:HB3	1.84	0.76
23:Y:105:GLY:HA3	23:Y:161:ALA:HB2	1.68	0.76
24:Z:63:ILE:HG13	24:Z:64:ASN:H	1.51	0.76
25:a:68:GLN:O	25:a:72:ASP:N	2.16	0.76
26:b:145:GLU:HG2	26:b:148:LYS:NZ	2.00	0.76
37:m:17:VAL:HG11	37:m:19:ARG:NE	2.01	0.76
44:t:64:ILE:HG23	44:t:69:VAL:HG11	1.68	0.76
46:v:61:VAL:HG13	46:v:66:ASN:O	1.85	0.76
5:E:50:PRO:HA	25:a:49:TYR:CD1	2.20	0.75
8:H:27:VAL:CG2	30:f:102:THR:HG22	2.16	0.75
9:I:136:U:O2	9:I:225:G:O6	2.04	0.75
9:I:182:C:O2	9:I:223:U:H1'	1.86	0.75
9:I:223:U:H2'	9:I:224:C:C6	2.21	0.75
9:I:510:C:O2	23:Y:40:HIS:NE2	2.18	0.75
9:I:1578:U:P	48:x:6:ARG:HH22	2.08	0.75
9:I:1584:A:H5''	44:t:6:ARG:NE	2.00	0.75
9:I:1784:U:O2	9:I:1856:G:C6	2.39	0.75
9:I:1840:A:H2'	9:I:1841:C:O4'	1.86	0.75
9:I:2133:A:H2'	9:I:2134:C:H5'	1.68	0.75
9:I:2964:A:H3'	9:I:2965:G:C8	2.12	0.75
9:I:3090:A:O2'	9:I:3091:A:H5'	1.87	0.75
9:I:3790:U:O2'	9:I:3814:U:O4	2.01	0.75
9:I:3818:U:C4'	9:I:3831:G:H5''	2.16	0.75
9:I:4210:C:H2'	9:I:4211:C:C6	2.21	0.75
13:M:46:GLN:HB2	13:M:86:ALA:HB1	1.66	0.75
16:R:64:VAL:HG21	16:R:68:LYS:HE2	1.68	0.75
17:S:8:LEU:HD13	17:S:19:VAL:HG23	1.67	0.75
17:S:15:GLY:HA3	17:S:47:ILE:CG1	2.15	0.75
17:S:77:ILE:HG22	39:o:69:VAL:HG12	1.68	0.75
17:S:110:GLU:HA	17:S:113:MET:CB	2.11	0.75
18:T:5:THR:C	18:T:6:LEU:HD22	2.11	0.75
19:U:4:PRO:HG2	19:U:92:TRP:CZ3	2.21	0.75
23:Y:18:LEU:HB2	23:Y:20:LEU:HG	1.67	0.75
30:f:14:SER:N	30:f:17:ASN:O	2.20	0.75
33:i:39:ARG:HG3	33:i:40:HIS:ND1	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:29:ARG:NH2	38:n:100:GLY:H	1.84	0.75
40:p:97:ILE:HD12	40:p:108:LEU:HD11	1.69	0.75
43:s:56:GLU:HG3	43:s:88:LYS:NZ	2.01	0.75
1:A:8:ARG:HB3	1:A:12:ARG:CZ	2.16	0.75
3:C:8:ARG:NE	9:I:389:U:H4'	2.01	0.75
8:H:5:VAL:HG13	30:f:94:ARG:C	2.11	0.75
9:I:15:A:H4'	24:Z:13:SER:H	1.50	0.75
9:I:552:A:H2'	9:I:553:A:H8	1.48	0.75
9:I:569:G:H2'	9:I:570:U:C6	2.20	0.75
9:I:650:C:H2'	9:I:651:U:C6	2.21	0.75
9:I:988:U:O2	9:I:1215:A:N6	2.18	0.75
9:I:1541:C:N3	9:I:1938:G:N1	2.32	0.75
9:I:1792:U:H2'	9:I:1793:U:C6	2.21	0.75
9:I:2362:G:H2'	10:J:98:A:N1	2.01	0.75
9:I:3445:U:OP1	17:S:54:LYS:NZ	2.19	0.75
9:I:3549:C:H5'	9:I:3550:G:H5''	1.67	0.75
9:I:4149:G:H4'	9:I:4150:U:O5'	1.85	0.75
9:I:4234:A:H3'	9:I:4257:G:H22	1.51	0.75
9:I:4306:G:H2'	9:I:4307:A:O4'	1.86	0.75
9:I:4341:U:H2'	9:I:4342:G:O4'	1.87	0.75
9:I:4369:A:O2'	9:I:4370:C:H5'	1.85	0.75
12:L:24:VAL:HA	12:L:189:VAL:O	1.86	0.75
12:L:186:LEU:HD12	39:o:7:LEU:HD21	1.66	0.75
13:M:65:THR:HG22	13:M:67:ARG:H	1.49	0.75
14:N:117:SER:HB3	14:N:129:MET:SD	2.26	0.75
14:N:125:GLY:N	14:N:162:ASP:OD1	2.14	0.75
15:O:88:LEU:HD13	15:O:161:VAL:CA	2.15	0.75
21:W:159:PHE:HE2	21:W:161:ILE:HD11	1.51	0.75
29:e:18:THR:O	29:e:21:ILE:HG22	1.86	0.75
35:k:1:MET:HG3	35:k:2:LYS:N	2.00	0.75
39:o:50:ARG:O	39:o:56:SER:HB3	1.86	0.75
41:q:2:TYR:CG	41:q:13:ARG:HD3	2.21	0.75
47:w:52:ALA:HA	47:w:55:MET:HE2	1.68	0.75
47:w:65:THR:O	47:w:68:ALA:N	2.12	0.75
48:x:1:LYS:HE2	48:x:5:LEU:CD2	2.14	0.75
48:x:50:ALA:O	48:x:54:THR:N	2.11	0.75
2:B:63:ARG:HE	2:B:87:ARG:NH2	1.85	0.75
4:D:13:LYS:HB3	9:I:273:A:C5'	2.15	0.75
4:D:20:VAL:HG11	4:D:58:ILE:HG21	1.67	0.75
4:D:22:ILE:HD11	4:D:58:ILE:HD11	1.68	0.75
7:G:52:MET:O	7:G:56:VAL:HG23	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1248:C:O2'	28:d:72:GLN:NE2	2.20	0.75
9:I:1308:G:OP2	32:h:97:ARG:NH2	2.19	0.75
9:I:1524:G:H2'	9:I:1525:U:C5	2.20	0.75
9:I:1634:G:H3'	9:I:1635:U:H5	1.51	0.75
9:I:1809:A:H5''	9:I:1810:A:OP2	1.86	0.75
9:I:2404:A:H2'	9:I:2405:A:H8	1.45	0.75
9:I:2631:G:O2'	9:I:2632:G:H5'	1.86	0.75
9:I:2663:A:C2'	9:I:2664:C:H5'	2.16	0.75
9:I:2789:C:OP1	20:V:71:ARG:NH2	2.20	0.75
9:I:2850:G:H2'	9:I:2851:C:C6	2.21	0.75
9:I:2886:A:H2'	9:I:2887:A:N3	2.01	0.75
9:I:3780:G:C5'	34:j:27:LYS:HE3	2.15	0.75
9:I:3792:A:C8	9:I:3812:G:N2	2.55	0.75
12:L:9:VAL:CB	12:L:26:VAL:HG12	2.16	0.75
12:L:46:ARG:HE	12:L:89:GLU:HG2	1.51	0.75
14:N:7:TYR:CD1	14:N:11:VAL:HG21	2.20	0.75
15:O:21:GLN:NE2	15:O:40:VAL:O	2.20	0.75
15:O:100:ASN:C	15:O:116:LEU:HB2	2.11	0.75
16:R:36:LEU:HD22	16:R:121:LYS:HE2	1.67	0.75
17:S:2:ILE:HG22	17:S:21:CYS:HB2	1.68	0.75
17:S:13:ASN:N	17:S:98:ARG:O	2.18	0.75
17:S:58:LEU:HD11	17:S:86:LEU:HD13	1.68	0.75
20:V:16:HIS:CD2	20:V:20:MET:HB3	2.21	0.75
20:V:19:ALA:O	20:V:22:ARG:HB2	1.86	0.75
20:V:66:ALA:HB3	20:V:76:VAL:HG12	1.68	0.75
25:a:10:VAL:O	25:a:58:HIS:HB3	1.87	0.75
41:q:29:THR:HB	41:q:65:ALA:CA	2.10	0.75
43:s:12:ARG:HG2	43:s:33:LYS:HG2	1.68	0.75
43:s:20:ALA:O	43:s:24:MET:HG3	1.86	0.75
48:x:10:VAL:HG22	48:x:59:LYS:HD2	1.67	0.75
49:y:18:LYS:HD2	49:y:22:THR:OG1	1.87	0.75
9:I:833:U:H2'	9:I:834:U:C6	2.21	0.75
9:I:1200:A:H4'	9:I:1201:U:O5'	1.85	0.75
9:I:1224:A:OP1	32:h:100:ARG:HA	1.87	0.75
9:I:1274:A:N1	9:I:1281:C:O2'	2.19	0.75
9:I:1572:U:O4	9:I:1611:A:O2'	2.04	0.75
9:I:1668:G:H2'	9:I:1669:G:H8	1.48	0.75
9:I:1970:A:N6	43:s:72:GLN:OE1	2.17	0.75
9:I:2100:G:O2'	13:M:100:MET:HE1	1.87	0.75
9:I:2835:G:OP1	9:I:3096:U:O2'	2.04	0.75
9:I:2944:G:H3'	9:I:2945:C:H5	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3649:U:H2'	9:I:3650:G:O4'	1.87	0.75
9:I:3956:C:H2'	9:I:3957:C:C6	2.22	0.75
9:I:3965:A:H2'	9:I:3966:G:H1'	1.68	0.75
9:I:4214:U:H4'	9:I:4339:U:O2	1.85	0.75
9:I:4421:G:H2'	9:I:4422:MA6:H8	1.68	0.75
10:J:32:G:H21	10:J:34:C:N4	1.83	0.75
10:J:42:C:O2'	14:N:91:ARG:HB3	1.87	0.75
11:K:2:VAL:HG21	11:K:201:LEU:CB	2.15	0.75
11:K:16:VAL:CG1	11:K:202:ARG:HA	2.16	0.75
12:L:50:VAL:HG11	12:L:82:PHE:HE2	1.50	0.75
18:T:73:ILE:HD11	18:T:106:GLU:HB2	1.66	0.75
20:V:23:ASN:O	20:V:27:SER:OG	2.04	0.75
20:V:40:LYS:O	20:V:44:LEU:HG	1.85	0.75
21:W:183:ILE:HD13	21:W:197:ILE:HB	1.67	0.75
38:n:26:VAL:HG13	38:n:92:ASP:O	1.86	0.75
40:p:89:ILE:N	41:q:49:ILE:HD11	2.01	0.75
40:p:90:ASP:O	40:p:94:LEU:N	2.15	0.75
40:p:112:ALA:O	40:p:116:LEU:HB2	1.85	0.75
45:u:18:ARG:CB	45:u:21:ARG:HH11	1.98	0.75
4:D:54:ASP:OD2	4:D:78:LYS:HD3	1.85	0.75
8:H:27:VAL:HB	30:f:76:GLY:CA	2.16	0.75
9:I:326:A:H3'	9:I:327:C:H5''	1.66	0.75
9:I:1107:G:H4'	9:I:1190:A:O4'	1.87	0.75
9:I:2126:A:H2'	18:T:78:ARG:NH2	2.01	0.75
9:I:2126:A:H2'	18:T:78:ARG:CZ	2.16	0.75
9:I:2333:A:H2'	9:I:2334:G:H8	1.51	0.75
9:I:3419:C:O2	9:I:3423:G:N2	2.17	0.75
9:I:3783:G:C2	9:I:3784:G:H1'	2.21	0.75
9:I:3848:C:H4'	46:v:25:SER:CB	2.17	0.75
9:I:3887:U:OP1	36:l:27:ASN:N	2.18	0.75
9:I:4131:U:H3'	9:I:4132:G:C8	2.21	0.75
14:N:146:ASP:HB2	14:N:149:ARG:HH22	1.51	0.75
15:O:139:VAL:O	15:O:143:VAL:HG23	1.87	0.75
25:a:51:ILE:HD12	25:a:85:ILE:HD13	1.67	0.75
40:p:52:ARG:O	40:p:57:ARG:NH1	2.19	0.75
40:p:63:ARG:HA	40:p:66:ALA:CB	2.16	0.75
41:q:40:MET:O	41:q:41:ILE:HG13	1.86	0.75
44:t:85:ARG:NH2	44:t:92:VAL:HG23	2.01	0.75
46:v:58:LYS:HZ2	46:v:60:GLU:HB3	1.49	0.75
9:I:302:A:O2'	9:I:554:U:O2'	2.02	0.75
9:I:643:U:H2'	9:I:644:G:H5'	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:859:A:H2'	9:I:860:G:O4'	1.86	0.75
9:I:951:U:H4'	9:I:963:A:H61	1.51	0.75
9:I:1094:U:OP1	9:I:1107:G:N2	2.12	0.75
9:I:1497:C:H5'	9:I:1500:U:C4'	2.16	0.75
9:I:1787:G:H2'	9:I:1788:U:C5'	2.16	0.75
9:I:2149:G:H2'	9:I:2150:C:O4'	1.87	0.75
9:I:2214:U:H3	9:I:2216:A:H3'	1.49	0.75
9:I:2441:A:H2'	9:I:2442:C:H6	1.50	0.75
9:I:2518:G:H3'	9:I:2519:G:C8	2.22	0.75
9:I:2525:G:H21	37:m:23:ILE:CG1	1.99	0.75
9:I:2753:G:H2'	9:I:2754:A:H8	1.52	0.75
9:I:3048:U:C4	9:I:3128:A:N7	2.54	0.75
9:I:3159:A:C5'	17:S:66:LYS:HD2	2.16	0.75
9:I:3233:A:H3'	9:I:3234:G:H8	1.49	0.75
9:I:3235:C:H2'	9:I:3236:U:O4'	1.86	0.75
9:I:3807:C:O2'	14:N:34:THR:O	2.03	0.75
9:I:3825:G:N2	9:I:3830:A:H1'	2.02	0.75
9:I:3839:G:O6	9:I:3865:G:O6	2.05	0.75
9:I:4093:G:O2'	9:I:4094:A:H5'	1.86	0.75
9:I:4168:G:H2'	9:I:4169:A:C8	2.21	0.75
9:I:4231:G:H2'	9:I:4232:A:C8	2.22	0.75
10:J:28:A:OP1	38:n:2:LYS:NZ	2.18	0.75
11:K:109:LEU:N	11:K:125:PRO:HB2	2.02	0.75
13:M:107:SER:O	13:M:110:SER:HB2	1.86	0.75
14:N:147:ARG:HG2	14:N:148:VAL:N	2.01	0.75
15:O:28:LYS:N	15:O:78:VAL:O	2.19	0.75
16:R:16:TYR:CE2	16:R:52:ASP:HB3	2.19	0.75
18:T:112:LEU:HB2	18:T:131:ALA:CB	2.14	0.75
19:U:53:MET:O	19:U:57:VAL:HG22	1.86	0.75
19:U:97:GLN:H	19:U:100:LYS:CD	1.98	0.75
27:c:13:ILE:O	27:c:17:GLN:HG3	1.86	0.75
36:l:24:LYS:HG2	36:l:25:HIS:N	2.00	0.75
40:p:79:ILE:O	40:p:82:LEU:HB2	1.86	0.75
41:q:5:PHE:CE2	41:q:12:HIS:HB3	2.21	0.75
43:s:4:GLU:O	43:s:7:LEU:HG	1.87	0.75
43:s:20:ALA:HA	43:s:23:ALA:CB	2.17	0.75
5:E:41:LYS:HD2	9:I:733:G:H1'	1.67	0.75
9:I:524:C:H2'	9:I:525:C:C6	2.22	0.75
9:I:725:C:H2'	9:I:726:G:C8	2.22	0.75
9:I:924:G:O6	9:I:1390:U:O4	2.05	0.75
9:I:1118:C:O2'	9:I:1119:C:H5'	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1599:U:O2'	44:t:6:ARG:NH1	2.15	0.75
9:I:1604:A:H2'	9:I:1605:C:H6	1.51	0.75
9:I:1637:U:O2'	9:I:1638:U:OP2	2.05	0.75
9:I:1804:U:O2	9:I:1813:G:C2	2.39	0.75
9:I:1999:U:H5''	44:t:42:LYS:HE3	1.69	0.75
9:I:3382:G:O3'	9:I:3383:A:C8	2.40	0.75
9:I:3721:A:H2'	9:I:3722:G:C8	2.21	0.75
9:I:3763:G:N2	9:I:3764:A:H1'	2.02	0.75
9:I:3798:G:N2	14:N:152:ASP:OD2	2.19	0.75
9:I:4024:A:H62	15:O:171:LYS:NZ	1.85	0.75
9:I:4173:A:O3'	12:L:194:PRO:HA	1.87	0.75
10:J:12:G:O2'	10:J:14:A:H2'	1.87	0.75
11:K:150:GLY:HA2	11:K:188:ARG:HH11	1.50	0.75
12:L:125:TRP:CZ2	12:L:165:MET:HE1	2.21	0.75
13:M:172:ALA:HB3	13:M:195:GLN:OE1	1.86	0.75
16:R:92:MET:CE	16:R:96:ARG:HB3	2.17	0.75
17:S:11:ALA:O	17:S:100:PHE:N	2.17	0.75
21:W:111:LEU:HD12	21:W:141:LEU:CB	2.17	0.75
27:c:86:LYS:NZ	27:c:91:LEU:HG	2.02	0.75
31:g:3:VAL:O	31:g:7:VAL:HG23	1.87	0.75
43:s:28:ASN:O	43:s:87:LEU:HB2	1.87	0.75
48:x:40:HIS:CE1	48:x:41:LEU:HG	2.22	0.75
1:A:53:ASP:HB2	9:I:1217:C:H5''	1.67	0.75
9:I:531:A:N6	22:X:191:THR:OG1	2.19	0.75
9:I:588:U:O2	9:I:649:G:C6	2.40	0.75
9:I:722:U:O4	9:I:855:C:H5'	1.87	0.75
9:I:1385:G:H2'	9:I:1386:G:H8	1.52	0.75
9:I:1792:U:O2'	9:I:1793:U:H5'	1.87	0.75
9:I:1812:G:H3'	9:I:1813:G:C8	2.19	0.75
9:I:1876:G:C2'	9:I:1877:G:H5'	2.17	0.75
9:I:2048:G:C4'	9:I:2049:G:H5'	2.16	0.75
9:I:2133:A:C2'	9:I:2134:C:H5'	2.17	0.75
9:I:2618:G:H4'	37:m:22:VAL:HG22	1.67	0.75
9:I:2930:G:H21	9:I:3009:A:C1'	2.00	0.75
9:I:3586:U:O4	9:I:3721:A:N6	2.15	0.75
9:I:3919:A:H4'	9:I:3920:A:C5'	2.17	0.75
9:I:4191:G:H2'	9:I:4192:U:C1'	2.17	0.75
11:K:24:HIS:HB2	11:K:79:ARG:CZ	2.16	0.75
11:K:141:HIS:NE2	11:K:194:VAL:HB	2.01	0.75
11:K:182:LYS:HD2	11:K:265:PHE:HB3	1.69	0.75
11:K:182:LYS:CB	11:K:265:PHE:HB3	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:143:LEU:CD1	13:M:187:VAL:HG21	2.17	0.75
14:N:147:ARG:NH1	14:N:149:ARG:HA	2.00	0.75
15:O:89:VAL:HB	15:O:162:ARG:NH2	2.01	0.75
18:T:79:LEU:HA	18:T:82:LEU:HD21	1.68	0.75
18:T:90:VAL:HG13	18:T:95:LEU:H	1.51	0.75
18:T:93:ASN:OD1	18:T:94:THR:N	2.19	0.75
23:Y:102:TYR:O	23:Y:164:ARG:NH2	2.18	0.75
24:Z:140:SER:OG	24:Z:141:PRO:HD2	1.86	0.75
26:b:30:MET:HE3	26:b:33:GLY:HA2	1.68	0.75
27:c:16:GLY:HA2	27:c:21:LYS:HE2	1.68	0.75
30:f:12:HIS:N	30:f:19:ILE:O	2.19	0.75
31:g:4:ASN:HA	31:g:7:VAL:CB	2.10	0.75
31:g:109:ARG:HB2	31:g:118:VAL:HG11	1.68	0.75
42:r:30:SER:OG	42:r:31:GLN:OE1	2.04	0.75
45:u:1:MET:HE2	45:u:1:MET:N	2.02	0.75
45:u:74:ALA:HA	45:u:91:PHE:HD1	1.50	0.75
46:v:28:VAL:N	46:v:49:LEU:O	2.20	0.75
1:A:48:GLN:CG	6:F:11:LEU:HD22	2.17	0.75
1:A:94:GLY:HA2	22:X:17:TRP:CD1	2.22	0.75
7:G:60:ALA:HB2	7:G:70:ALA:HB2	1.69	0.75
9:I:552:A:H2'	9:I:553:A:C8	2.22	0.75
9:I:580:G:N1	9:I:758:A:OP2	2.18	0.75
9:I:603:G:H2'	9:I:604:U:O4'	1.86	0.75
9:I:766:A:O2'	9:I:4429:G:O4'	2.03	0.75
9:I:841:U:O3'	9:I:843:G:N2	2.20	0.75
9:I:885:G:N2	9:I:910:U:O2	2.14	0.75
9:I:1165:G:O2'	9:I:1169:A:N6	2.20	0.75
9:I:1375:U:O4	26:b:9:ARG:NH1	2.19	0.75
9:I:1809:A:N7	9:I:1830:A:N6	2.34	0.75
9:I:1848:A:O2'	9:I:1849:U:O4'	2.03	0.75
9:I:2124:C:H2'	9:I:2125:G:C8	2.21	0.75
9:I:2441:A:H2'	9:I:2442:C:C6	2.22	0.75
9:I:2707:A:OP2	9:I:2707:A:H3'	1.87	0.75
9:I:3164:C:H2'	9:I:3165:U:O4'	1.86	0.75
9:I:3798:G:H4'	14:N:128:SER:O	1.87	0.75
9:I:3807:C:H1'	14:N:36:ASN:HB3	1.69	0.75
9:I:3829:A:OP2	38:n:9:ARG:NH2	2.20	0.75
9:I:3883:G:O2'	9:I:3884:U:OP2	2.03	0.75
9:I:4252:A:H1'	15:O:63:GLN:HE22	1.52	0.75
9:I:4304:A:H4'	12:L:62:LYS:HE3	1.68	0.75
9:I:4341:U:P	39:o:95:LYS:HZ3	2.09	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:108:A:C2'	10:J:109:C:H5'	2.16	0.75
11:K:16:VAL:H	11:K:202:ARG:NH1	1.85	0.75
12:L:11:MET:SD	12:L:192:ALA:CB	2.73	0.75
12:L:12:THR:O	12:L:23:PRO:HA	1.87	0.75
14:N:28:PRO:O	14:N:29:ARG:HD3	1.87	0.75
15:O:158:GLY:CA	15:O:168:VAL:HG11	2.16	0.75
17:S:19:VAL:C	17:S:44:LYS:HZ1	1.95	0.75
18:T:90:VAL:CA	18:T:94:THR:HB	2.15	0.75
24:Z:71:THR:HB	24:Z:113:ASN:HD21	1.51	0.75
40:p:63:ARG:HH22	40:p:99:VAL:CG2	1.98	0.75
43:s:30:ILE:HD12	43:s:87:LEU:HD22	1.68	0.75
49:y:7:THR:O	49:y:55:LYS:HG2	1.86	0.75
4:D:63:PRO:O	9:I:264:G:H4'	1.87	0.74
4:D:66:LYS:CE	9:I:250:G:H1'	2.17	0.74
9:I:1576:C:O2	48:x:54:THR:HG21	1.86	0.74
9:I:1876:G:O2'	9:I:1877:G:H5'	1.86	0.74
9:I:2556:G:H2'	9:I:2557:G:H8	1.52	0.74
9:I:2785:C:O2'	9:I:2786:G:H5'	1.86	0.74
9:I:2888:U:H5''	9:I:3098:C:OP1	1.87	0.74
9:I:2908:C:H2'	9:I:2909:U:O4'	1.86	0.74
9:I:3356:G:H2'	9:I:3357:G:C8	2.22	0.74
12:L:107:VAL:HA	12:L:204:LYS:O	1.86	0.74
24:Z:74:HIS:HB3	27:c:96:ALA:CB	2.16	0.74
24:Z:75:PRO:HB3	24:Z:88:GLN:OE1	1.87	0.74
29:e:1:ARG:HH21	29:e:75:PRO:HG3	1.51	0.74
29:e:8:ALA:HB2	29:e:92:VAL:HG22	1.69	0.74
31:g:81:ILE:HG23	31:g:95:HIS:O	1.86	0.74
41:q:37:GLU:HB2	41:q:53:PHE:CZ	2.22	0.74
49:y:15:ARG:NE	49:y:53:MET:SD	2.60	0.74
4:D:22:ILE:CG1	4:D:41:LEU:HD12	2.14	0.74
9:I:569:G:H1'	9:I:819:U:O4	1.86	0.74
9:I:1231:U:OP1	28:d:123:GLN:HG2	1.85	0.74
9:I:1577:G:OP2	48:x:2:ALA:HB1	1.87	0.74
9:I:1849:U:H5''	9:I:1850:G:OP1	1.87	0.74
9:I:2525:G:H21	37:m:23:ILE:CD1	2.00	0.74
9:I:2963:A:H8	9:I:3016:A:H62	1.35	0.74
9:I:3003:A:H1'	9:I:3004:G:H5'	1.70	0.74
9:I:3159:A:O2'	17:S:67:LYS:HE3	1.87	0.74
9:I:3248:A:N6	9:I:4211:C:O4'	2.21	0.74
9:I:3309:A:H4'	9:I:3311:G:H1'	1.68	0.74
9:I:3377:U:H2'	9:I:3378:G:H5'	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3418:C:H3'	9:I:3419:C:C6	2.22	0.74
9:I:3459:C:H5''	9:I:3460:A:H2'	1.69	0.74
9:I:3587:G:N2	9:I:3691:U:O2	2.20	0.74
9:I:3640:C:O2'	9:I:3641:A:O5'	2.05	0.74
9:I:3778:A:H1'	9:I:3819:G:N2	2.02	0.74
9:I:3803:A:C2'	9:I:3804:C:H5'	2.17	0.74
9:I:4119:G:H2'	9:I:4120:C:C6	2.21	0.74
9:I:4129:A:H4'	12:L:49:GLN:CG	2.16	0.74
9:I:4192:U:H2'	9:I:4193:C:H5	1.48	0.74
9:I:4307:A:H2'	9:I:4308:A:C8	2.22	0.74
9:I:4428:C:O3'	30:f:110:ARG:NH2	2.20	0.74
9:I:4430:G:H2'	9:I:4431:U:C5	2.22	0.74
11:K:15:VAL:HA	11:K:205:GLY:CA	2.17	0.74
11:K:140:VAL:HG12	11:K:141:HIS:N	2.02	0.74
11:K:171:VAL:O	11:K:182:LYS:HA	1.86	0.74
11:K:172:THR:HB	11:K:180:MET:HE3	1.67	0.74
11:K:249:VAL:HG13	11:K:254:LYS:NZ	2.01	0.74
13:M:18:THR:HA	13:M:106:LYS:CA	2.17	0.74
13:M:102:ARG:CA	13:M:200:LEU:HB3	2.17	0.74
15:O:21:GLN:HA	15:O:36:LEU:HD23	1.69	0.74
15:O:83:THR:OG1	15:O:133:LYS:HA	1.88	0.74
15:O:122:ALA:HA	15:O:133:LYS:HD3	1.70	0.74
19:U:69:PRO:CG	19:U:92:TRP:HB3	2.17	0.74
20:V:32:GLU:HB2	20:V:118:ARG:NH1	2.02	0.74
21:W:46:MET:HE1	21:W:195:PHE:HD1	1.52	0.74
34:j:4:GLU:HB2	34:j:24:LYS:NZ	2.02	0.74
36:l:30:HIS:ND1	36:l:31:ILE:HG13	2.02	0.74
38:n:29:ARG:NH2	38:n:102:VAL:HG23	2.02	0.74
39:o:102:ARG:NH2	39:o:109:ILE:HG23	2.02	0.74
1:A:9:GLU:CG	1:A:62:ARG:HG3	2.15	0.74
4:D:68:LYS:HD2	9:I:252:A:C4	2.22	0.74
9:I:778:C:H3'	9:I:779:A:C8	2.20	0.74
9:I:1202:C:C2'	9:I:1203:A:H5'	2.16	0.74
9:I:1287:A:N6	9:I:1370:G:H1'	2.02	0.74
9:I:1416:G:H2'	9:I:4386:G:H22	1.53	0.74
9:I:1660:A:C8	9:I:1666:U:N3	2.48	0.74
9:I:2328:U:H2'	9:I:2329:A:C8	2.22	0.74
9:I:2539:C:N4	9:I:2605:A:H2'	2.02	0.74
9:I:2542:A:C1'	9:I:2606:G:H21	1.99	0.74
9:I:2621:A:H2'	9:I:2622:G:H5''	1.70	0.74
9:I:2665:G:H2'	9:I:2666:C:N1	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2746:G:O2'	9:I:2747:A:H5''	1.85	0.74
9:I:2853:A:N1	9:I:2854:G:H1'	2.01	0.74
9:I:2916:G:O2'	9:I:2986:G:N2	2.16	0.74
9:I:3793:U:H3	9:I:3811:A:N6	1.84	0.74
9:I:3949:G:H2'	9:I:3950:C:C6	2.20	0.74
9:I:4167:G:H3'	9:I:4168:G:C8	2.20	0.74
9:I:4266:C:H5''	12:L:173:GLN:OE1	1.86	0.74
11:K:250:GLN:HE22	11:K:254:LYS:HB2	1.52	0.74
12:L:24:VAL:HB	12:L:189:VAL:H	1.52	0.74
13:M:108:ILE:HG13	13:M:109:LEU:N	2.03	0.74
22:X:96:VAL:HB	22:X:97:PRO:HD2	1.68	0.74
28:d:94:GLU:O	28:d:98:ALA:N	2.19	0.74
32:h:69:ARG:HH21	32:h:72:ILE:HG21	1.51	0.74
39:o:17:PRO:CD	39:o:83:ILE:HD12	2.17	0.74
40:p:64:ILE:HA	40:p:67:ALA:CB	2.16	0.74
9:I:20:G:H2'	9:I:21:G:C8	2.21	0.74
9:I:467:A:H3'	9:I:468:C:C6	2.23	0.74
9:I:651:U:O4	9:I:752:A:N7	2.20	0.74
9:I:653:G:H2'	9:I:654:A:O4'	1.88	0.74
9:I:672:A:H5'	25:a:86:ARG:HH21	1.53	0.74
9:I:689:G:H2'	9:I:690:G:C8	2.22	0.74
9:I:894:G:H2'	9:I:895:C:C6	2.23	0.74
9:I:937:A:C2	9:I:1375:U:H1'	2.21	0.74
9:I:1054:A:H5''	9:I:1195:A:C2	2.23	0.74
9:I:1089:U:H5'	9:I:1169:A:C2	2.21	0.74
9:I:1165:G:C6	9:I:1167:U:H5''	2.21	0.74
9:I:1306:U:H2'	9:I:1307:U:N1	2.01	0.74
9:I:1344:U:C4'	9:I:1345:A:H5'	2.17	0.74
9:I:1345:A:H5''	28:d:119:ARG:NH1	2.02	0.74
9:I:1479:A:H5'	33:i:40:HIS:CD2	2.22	0.74
9:I:1837:C:P	44:t:3:LYS:HE3	2.28	0.74
9:I:2526:A:H5''	9:I:2527:U:OP1	1.87	0.74
9:I:3312:U:OP2	11:K:155:ARG:HD2	1.87	0.74
9:I:3461:C:O2'	9:I:3462:G:H5'	1.86	0.74
9:I:3819:G:C2'	9:I:3820:C:C5'	2.63	0.74
9:I:3920:A:H4'	9:I:3921:C:OP2	1.85	0.74
13:M:22:ASP:HA	13:M:114:ARG:HH12	1.52	0.74
14:N:48:LEU:CD1	14:N:147:ARG:HD2	2.17	0.74
20:V:12:ARG:CG	20:V:17:ARG:HG2	2.02	0.74
26:b:115:MET:HA	26:b:118:ARG:HB2	1.70	0.74
33:i:2:VAL:HG12	33:i:3:GLN:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:i:42:ILE:CA	33:i:48:TYR:HB2	2.17	0.74
40:p:56:PHE:HB2	40:p:57:ARG:NH1	2.03	0.74
42:r:19:LEU:O	42:r:19:LEU:HD23	1.87	0.74
43:s:48:GLN:HA	43:s:53:VAL:O	1.88	0.74
44:t:28:LEU:HD12	44:t:32:LYS:HB3	1.69	0.74
9:I:157:G:H2'	9:I:158:G:C8	2.22	0.74
9:I:1247:A:N3	28:d:69:ILE:HD11	2.03	0.74
9:I:1342:G:N2	9:I:1348:A:O2'	2.21	0.74
9:I:1349:A:O2'	26:b:32:ASP:OD1	2.05	0.74
9:I:1662:U:O2	9:I:1664:C:N4	2.21	0.74
9:I:1864:C:H2'	9:I:1864:C:O2	1.87	0.74
9:I:1867:G:H5'	9:I:1868:A:OP2	1.88	0.74
9:I:2147:G:H2'	9:I:2148:G:C8	2.22	0.74
9:I:2402:C:H2'	9:I:2403:A:C8	2.22	0.74
9:I:2530:G:N1	9:I:2613:U:C2	2.55	0.74
9:I:2788:U:H2'	9:I:2789:C:H5'	1.69	0.74
9:I:3040:G:H5''	9:I:3041:C:OP1	1.86	0.74
9:I:3488:C:O2'	9:I:3489:U:O5'	2.02	0.74
9:I:3914:C:H5''	34:j:5:LYS:HZ1	1.52	0.74
9:I:4033:C:O4'	37:m:1:MET:HE3	1.88	0.74
9:I:4173:A:O2'	12:L:194:PRO:HD3	1.87	0.74
9:I:4242:A:O2'	15:O:65:GLY:HA3	1.87	0.74
9:I:4288:C:H3'	9:I:4289:C:C6	2.23	0.74
12:L:3:GLY:HA3	12:L:204:LYS:HA	1.68	0.74
14:N:37:MET:HG2	14:N:150:GLY:O	1.88	0.74
15:O:54:ARG:HB3	15:O:57:TYR:CD2	2.22	0.74
15:O:92:GLY:HA2	15:O:94:ARG:NH2	2.03	0.74
15:O:151:ARG:N	15:O:161:VAL:HB	2.03	0.74
22:X:56:ILE:HG23	22:X:65:VAL:HG22	1.70	0.74
29:e:48:LEU:HD11	29:e:55:LYS:HZ3	1.52	0.74
32:h:36:ALA:HB1	32:h:55:LEU:HD12	1.70	0.74
44:t:21:ARG:HD3	44:t:72:PHE:CZ	2.23	0.74
45:u:80:HIS:ND1	45:u:85:LYS:O	2.19	0.74
47:w:70:LEU:HD12	47:w:75:GLU:HB3	1.68	0.74
49:y:3:THR:HG23	49:y:36:GLU:OE2	1.86	0.74
49:y:26:LEU:O	49:y:37:ARG:NE	2.18	0.74
9:I:85:G:O2'	9:I:86:C:O5'	2.02	0.74
9:I:131:C:H2'	9:I:132:U:C6	2.21	0.74
9:I:1376:A:C3'	26:b:6:ILE:HD11	2.18	0.74
9:I:3006:C:H2'	9:I:3007:U:N1	2.02	0.74
9:I:3914:C:H2'	9:I:3915:G:C8	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3953:A:C2	9:I:3954:U:H1'	2.23	0.74
9:I:4148:A:C2	9:I:4159:A:H5''	2.22	0.74
12:L:28:GLU:OE2	12:L:30:GLU:HG3	1.86	0.74
12:L:62:LYS:CA	12:L:65:ALA:HB3	2.16	0.74
13:M:18:THR:CA	13:M:106:LYS:HA	2.18	0.74
14:N:34:THR:OG1	14:N:154:THR:O	2.03	0.74
17:S:71:ARG:NH2	17:S:106:GLU:OE1	2.20	0.74
21:W:110:ARG:NH2	21:W:137:GLU:OE2	2.21	0.74
23:Y:1:ALA:C	23:Y:67:LEU:HD11	2.12	0.74
23:Y:8:LEU:HD13	23:Y:31:CYS:HB3	1.69	0.74
31:g:35:ARG:HG2	31:g:53:ARG:HH12	1.52	0.74
39:o:61:ARG:CZ	39:o:100:ARG:HA	2.18	0.74
40:p:93:ILE:HG22	41:q:40:MET:HE2	1.70	0.74
43:s:57:VAL:O	43:s:86:THR:OG1	2.02	0.74
46:v:56:LYS:HG3	46:v:75:GLU:CD	2.12	0.74
47:w:38:TRP:CZ2	47:w:40:GLU:HA	2.22	0.74
48:x:12:GLU:O	48:x:16:GLU:HG2	1.87	0.74
1:A:52:ARG:HD3	9:I:1218:A:H4'	1.69	0.74
1:A:68:ARG:HE	9:I:1201:U:H5'	1.53	0.74
7:G:52:MET:HA	7:G:55:ILE:HG22	1.68	0.74
8:H:6:ARG:O	30:f:94:ARG:HB3	1.88	0.74
8:H:45:LYS:O	8:H:49:ALA:N	2.11	0.74
9:I:296:G:H2'	9:I:298:G:OP2	1.88	0.74
9:I:376:G:H2'	9:I:377:G:H8	1.52	0.74
9:I:662:A:H2	9:I:741:G:H22	1.35	0.74
9:I:955:U:H2'	9:I:956:U:C2	2.22	0.74
9:I:1075:U:H2'	9:I:1076:G:C8	2.23	0.74
9:I:1193:U:O2'	9:I:1194:C:H5'	1.87	0.74
9:I:1829:G:N9	44:t:15:GLY:HA2	2.03	0.74
9:I:2090:A:H2'	9:I:2091:U:C6	2.22	0.74
9:I:2145:C:C5	9:I:3844:C:H4'	2.21	0.74
9:I:2333:A:H2'	9:I:2334:G:C8	2.22	0.74
9:I:2366:A:H61	9:I:2407:U:C4'	2.00	0.74
9:I:2483:G:OP2	49:y:11:SER:OG	2.04	0.74
9:I:2663:A:H2	9:I:2675:U:H1'	1.53	0.74
9:I:2912:G:O6	9:I:3072:U:H3'	1.88	0.74
9:I:3772:A:H5'	19:U:10:ARG:HH12	1.52	0.74
9:I:3872:A:N6	9:I:3873:G:N3	2.35	0.74
9:I:4101:G:H2'	9:I:4102:G:C8	2.22	0.74
9:I:4161:C:N3	15:O:109:SER:N	2.34	0.74
9:I:4213:G:P	39:o:95:LYS:HG3	2.27	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:25:C:C3'	10:J:26:C:H6	2.01	0.74
10:J:74:G:C2'	45:u:88:HIS:HE2	2.01	0.74
13:M:6:LYS:CE	13:M:120:VAL:HG22	2.14	0.74
13:M:157:LEU:HD11	13:M:169:VAL:HG11	1.68	0.74
32:h:2:ARG:O	32:h:3:ILE:HG12	1.87	0.74
46:v:11:LEU:HA	46:v:29:ARG:NH1	2.03	0.74
5:E:4:TYR:CD2	5:E:48:LEU:HD11	2.23	0.74
9:I:242:A:N6	9:I:280:G:H1'	2.02	0.74
9:I:517:C:H4'	9:I:518:C:C5'	2.17	0.74
9:I:562:A:H4'	9:I:565:G:O2'	1.88	0.74
9:I:672:A:H2'	9:I:673:G:H8	1.51	0.74
9:I:828:G:O2'	9:I:829:G:H5'	1.88	0.74
9:I:977:A:O2'	9:I:1321:C:N3	2.21	0.74
9:I:1036:C:H2'	9:I:1037:C:C6	2.23	0.74
9:I:1111:C:O2	22:X:177:LEU:HB2	1.87	0.74
9:I:1380:U:H2'	9:I:1381:C:C6	2.22	0.74
9:I:1555:G:H2'	9:I:1556:A:H8	1.51	0.74
9:I:1558:G:H2'	9:I:1559:U:C6	2.22	0.74
9:I:1607:G:H21	9:I:1846:A:N6	1.85	0.74
9:I:1860:U:H2'	9:I:1861:G:N9	2.03	0.74
9:I:2038:A:H2'	9:I:2039:G:C5'	2.17	0.74
9:I:2145:C:N4	9:I:3844:C:O4'	2.18	0.74
9:I:2245:1MG:H2'	9:I:2246:PSU:O4'	1.88	0.74
9:I:2309:G:H2'	9:I:2310:U:H6	1.51	0.74
9:I:2347:U:O2'	9:I:2428:U:H1'	1.88	0.74
9:I:2956:C:H2'	9:I:2957:C:H6	1.50	0.74
9:I:3336:G:H3'	9:I:3337:C:H6	1.52	0.74
9:I:3398:G:C2'	9:I:3399:C:H5'	2.16	0.74
9:I:3459:C:H3'	9:I:3460:A:C8	2.23	0.74
9:I:3921:C:H4'	9:I:3922:G:C5'	2.18	0.74
9:I:3961:C:OP2	37:m:4:ARG:NH1	2.18	0.74
9:I:4203:G:H2'	9:I:4204:C:H6	1.51	0.74
9:I:4316:G:H1	20:V:2:ARG:NH2	1.86	0.74
10:J:65:A:H61	10:J:106:G:H2'	1.53	0.74
12:L:111:GLY:HA3	12:L:201:LEU:HD23	1.68	0.74
14:N:133:GLU:HG3	14:N:135:ILE:H	1.53	0.74
23:Y:143:SER:HB3	23:Y:178:GLU:CB	2.18	0.74
32:h:14:ALA:HA	32:h:44:ILE:CD1	2.17	0.74
37:m:12:ARG:NH2	37:m:13:ASN:OD1	2.21	0.74
39:o:17:PRO:HG3	39:o:83:ILE:CB	2.14	0.74
45:u:32:GLY:HA3	45:u:92:VAL:HG13	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:4:ILE:HG13	3:C:21:VAL:HG22	1.69	0.74
8:H:27:VAL:HB	30:f:76:GLY:N	2.03	0.74
8:H:33:ARG:HA	30:f:112:PRO:HD3	1.69	0.74
8:H:50:SER:O	8:H:54:ARG:HG3	1.87	0.74
9:I:112:G:H2'	9:I:113:U:C6	2.22	0.74
9:I:480:G:O2'	9:I:482:C:N4	2.15	0.74
9:I:482:C:OP2	9:I:483:G:O2'	2.05	0.74
9:I:777:G:H5''	9:I:778:C:OP2	1.88	0.74
9:I:1083:G:H1'	9:I:1101:A:N7	2.02	0.74
9:I:1586:G:O2'	9:I:1587:U:H5'	1.87	0.74
9:I:1626:A:OP1	35:k:45:SER:OG	2.05	0.74
9:I:2036:G:H2'	9:I:2037:G:H5'	1.70	0.74
9:I:2618:G:H2'	9:I:2619:G:O4'	1.87	0.74
9:I:2853:A:C2	9:I:2854:G:H1'	2.22	0.74
9:I:3044:C:H2'	9:I:3045:A:C8	2.22	0.74
9:I:3079:C:OP2	9:I:3080:A:N6	2.21	0.74
9:I:3594:G:O2'	9:I:3595:A:O4'	2.05	0.74
9:I:4196:G:H2'	9:I:4197:C:C5	2.22	0.74
9:I:4318:C:H3'	9:I:4319:G:N3	2.02	0.74
9:I:4325:G:H5''	9:I:4328:G:C4'	2.16	0.74
12:L:8:LYS:CE	12:L:11:MET:HE3	2.18	0.74
12:L:37:VAL:HG22	12:L:91:THR:HA	1.68	0.74
15:O:31:GLU:O	15:O:31:GLU:HG3	1.87	0.74
15:O:155:PRO:HB2	15:O:171:LYS:CE	2.18	0.74
28:d:16:VAL:CA	28:d:62:ILE:HG22	2.08	0.74
32:h:2:ARG:HA	32:h:8:ILE:CD1	2.17	0.74
33:i:48:TYR:CD2	33:i:49:ARG:HG3	2.23	0.74
40:p:75:TYR:O	40:p:78:PHE:HB3	1.88	0.74
41:q:2:TYR:HB2	41:q:13:ARG:CD	2.16	0.74
41:q:3:ALA:HA	41:q:40:MET:O	1.88	0.74
45:u:30:ILE:CG1	45:u:40:ILE:HD13	2.18	0.74
45:u:80:HIS:CE1	45:u:85:LYS:HG3	2.23	0.74
46:v:17:GLY:HA2	46:v:57:VAL:C	2.13	0.74
9:I:1634:G:H3'	9:I:1635:U:C5	2.23	0.74
9:I:1828:U:O2'	44:t:65:GLN:HG3	1.87	0.74
9:I:1829:G:C8	44:t:15:GLY:HA2	2.22	0.74
9:I:1866:C:H2'	9:I:1867:G:H4'	1.68	0.74
9:I:1991:G:H3'	9:I:1992:A:H8	1.50	0.74
9:I:2377:A:H2'	9:I:2394:A:N6	2.03	0.74
9:I:2505:G:OP1	40:p:76:SER:OG	2.04	0.74
9:I:2535:G:C2	9:I:2609:G:C6	2.75	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3016:A:H4'	9:I:3017:U:O5'	1.87	0.74
9:I:3175:G:H4'	9:I:3176:G:OP2	1.86	0.74
9:I:3357:G:O2'	9:I:3358:U:H5'	1.88	0.74
9:I:3359:U:H3	9:I:3371:A:N6	1.85	0.74
9:I:3781:A:O2'	9:I:3782:A:O5'	2.06	0.74
9:I:3812:G:C2'	9:I:3813:G:H5'	2.16	0.74
9:I:3825:G:H2'	9:I:3826:C:O4'	1.88	0.74
9:I:4214:U:H5''	9:I:4340:G:H5'	1.70	0.74
9:I:4226:G:H3'	9:I:4227:A:O4'	1.88	0.74
9:I:4245:G:H3'	9:I:4246:C:C5	2.22	0.74
9:I:4331:A:H2'	9:I:4332:G:C8	2.22	0.74
10:J:4:U:O4'	10:J:25:C:N4	2.20	0.74
10:J:39:U:H2'	10:J:41:C:H5''	1.69	0.74
11:K:132:ARG:HD3	11:K:185:ALA:HB1	1.69	0.74
12:L:39:ASP:HA	12:L:46:ARG:CA	2.18	0.74
13:M:19:PHE:CG	13:M:113:VAL:HG21	2.23	0.74
13:M:24:ASN:HB3	13:M:27:LEU:HB2	1.67	0.74
13:M:58:LYS:CE	13:M:71:GLY:HA2	2.18	0.74
13:M:122:GLU:HA	13:M:190:ALA:CB	2.16	0.74
14:N:107:VAL:HG22	14:N:110:ILE:CD1	2.18	0.74
15:O:53:PRO:HA	15:O:60:GLY:C	2.12	0.74
16:R:53:TYR:HD1	16:R:123:LYS:HZ1	1.35	0.74
20:V:18:GLN:HB3	20:V:22:ARG:NH2	2.03	0.74
20:V:41:ALA:O	20:V:45:ARG:HG3	1.87	0.74
23:Y:104:MET:HE3	23:Y:179:GLY:HA3	1.69	0.74
26:b:50:ALA:HB2	26:b:57:GLU:CG	2.17	0.74
26:b:145:GLU:HG2	26:b:148:LYS:HZ1	1.51	0.74
34:j:5:LYS:HA	34:j:21:THR:CG2	2.17	0.74
38:n:87:LYS:C	38:n:114:LEU:HD12	2.13	0.74
43:s:44:LYS:O	43:s:48:GLN:HG3	1.88	0.74
45:u:2:PHE:CE1	45:u:50:MET:HA	2.21	0.74
47:w:32:LEU:HA	47:w:51:SER:CA	2.17	0.74
48:x:37:GLN:HG2	48:x:38:GLN:CG	2.16	0.74
1:A:3:GLN:HA	9:I:1215:A:H5'	1.69	0.73
3:C:19:VAL:HG23	3:C:38:PHE:HA	1.70	0.73
3:C:27:ALA:HB1	9:I:110:G:OP1	1.87	0.73
3:C:68:SER:HB3	3:C:71:VAL:CG2	2.18	0.73
9:I:265:G:H1'	9:I:267:U:OP2	1.88	0.73
9:I:664:A:H5'	9:I:732:G:H21	1.54	0.73
9:I:677:U:H4'	9:I:777:G:OP1	1.87	0.73
9:I:774:G:H3'	9:I:775:G:C8	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:833:U:H2'	9:I:834:U:H6	1.52	0.73
9:I:2038:A:C2'	9:I:2039:G:H5'	2.18	0.73
9:I:2245:1MG:O2'	9:I:2248:G:O2'	2.05	0.73
9:I:2530:G:H2'	9:I:2531:G:C8	2.22	0.73
9:I:2909:U:O2	9:I:3081:G:C2	2.41	0.73
9:I:3076:C:H3'	9:I:3077:A:C5'	2.15	0.73
9:I:3431:A:O2'	9:I:3432:A:O5'	2.03	0.73
9:I:3694:C:N3	9:I:3718:G:N2	2.36	0.73
9:I:3784:G:H2'	9:I:3784:G:N3	2.03	0.73
9:I:3809:G:H5'	14:N:157:THR:O	1.88	0.73
9:I:3975:G:O2'	9:I:3976:A:O5'	2.04	0.73
9:I:4031:U:H2'	9:I:4032:C:C6	2.23	0.73
9:I:4129:A:C4'	12:L:49:GLN:HE21	2.01	0.73
9:I:4210:C:H2'	9:I:4211:C:C5	2.22	0.73
9:I:4337:G:H3'	9:I:4338:G:C8	2.22	0.73
9:I:4425:C:H2'	9:I:4426:U:C6	2.22	0.73
10:J:72:A:H2	45:u:37:PRO:HG3	1.53	0.73
12:L:39:ASP:HA	12:L:46:ARG:HG2	1.70	0.73
12:L:51:THR:CB	12:L:79:LEU:HD23	2.18	0.73
16:R:17:VAL:HG11	16:R:130:HIS:CD2	2.23	0.73
19:U:76:LYS:HE3	19:U:80:VAL:HG12	1.69	0.73
21:W:163:ALA:HB1	21:W:170:ILE:CD1	2.18	0.73
25:a:11:HIS:HB2	25:a:14:GLN:OE1	1.89	0.73
32:h:16:ILE:O	32:h:19:THR:OG1	2.03	0.73
39:o:45:VAL:CG1	39:o:61:ARG:HB3	2.16	0.73
40:p:61:ILE:HA	40:p:75:TYR:OH	1.88	0.73
42:r:69:LEU:HB3	42:r:107:VAL:HG22	1.68	0.73
45:u:23:ALA:O	45:u:25:LYS:HG2	1.87	0.73
9:I:27:A:O2'	9:I:295:U:H5''	1.88	0.73
9:I:296:G:N2	9:I:299:A:OP2	2.21	0.73
9:I:453:G:H1	9:I:477:A:H61	1.34	0.73
9:I:677:U:O2'	9:I:776:A:O3'	2.01	0.73
9:I:711:A:H2'	9:I:712:G:C8	2.23	0.73
9:I:832:G:H2'	9:I:833:U:H6	1.52	0.73
9:I:867:C:H2'	9:I:868:G:O4'	1.89	0.73
9:I:1777:G:H2'	9:I:1777:G:N3	2.02	0.73
9:I:1810:A:H5''	44:t:18:LYS:CE	2.13	0.73
9:I:2019:U:H2'	9:I:2020:G:C8	2.22	0.73
9:I:2214:U:O2'	9:I:2217:C:N4	2.20	0.73
9:I:2957:C:H2'	9:I:2958:G:C8	2.23	0.73
9:I:3753:U:H4'	9:I:3921:C:H2'	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3898:U:H2'	9:I:3899:G:C8	2.23	0.73
9:I:3961:C:OP1	37:m:8:LYS:NZ	2.20	0.73
9:I:3978:G:O2'	19:U:123:LYS:HB3	1.88	0.73
9:I:4132:G:N2	9:I:4269:G:H2'	2.04	0.73
9:I:4149:G:H5'	9:I:4150:U:H5'	1.69	0.73
9:I:4223:G:H4'	12:L:190:LYS:HE2	1.70	0.73
9:I:4250:U:O2	9:I:4251:A:H3'	1.87	0.73
10:J:112:C:H2'	10:J:113:C:C6	2.21	0.73
12:L:38:LYS:O	12:L:46:ARG:HA	1.89	0.73
12:L:50:VAL:HG11	12:L:82:PHE:CE2	2.23	0.73
15:O:82:PHE:C	15:O:140:ILE:HD13	2.12	0.73
21:W:170:ILE:HG22	21:W:174:ASN:ND2	2.03	0.73
22:X:22:PHE:HD2	29:e:93:ASP:H	1.36	0.73
22:X:151:GLU:OE2	22:X:153:SER:OG	2.06	0.73
23:Y:57:LYS:HG3	23:Y:199:ILE:HG23	1.70	0.73
26:b:129:ASN:CA	26:b:134:VAL:HG11	2.17	0.73
31:g:71:HIS:HE2	31:g:73:LEU:HB2	1.51	0.73
36:l:51:LYS:HA	36:l:54:LEU:HD12	1.69	0.73
40:p:85:ALA:HB2	40:p:111:LYS:O	1.87	0.73
3:C:13:LYS:N	9:I:390:G:OP1	2.19	0.73
4:D:37:ARG:HD2	9:I:278:A:P	2.28	0.73
5:E:38:ARG:HA	9:I:734:C:C4'	2.15	0.73
9:I:62:C:C5'	9:I:382:A:H61	2.00	0.73
9:I:837:G:H2'	9:I:838:C:O4'	1.88	0.73
9:I:1217:C:H2'	9:I:1218:A:H8	1.53	0.73
9:I:1637:U:H2'	9:I:1640:C:C6	2.22	0.73
9:I:1769:C:H2'	9:I:1769:C:O2	1.86	0.73
9:I:1770:A:O2'	9:I:1771:G:OP2	2.04	0.73
9:I:2000:G:OP1	44:t:42:LYS:NZ	2.18	0.73
9:I:2136:G:H5''	18:T:129:LYS:N	2.03	0.73
9:I:2242:A:H2'	9:I:2243:A:C8	2.23	0.73
9:I:2833:G:H5''	43:s:19:LYS:HB2	1.69	0.73
9:I:2910:G:N2	9:I:3077:A:H1'	2.02	0.73
9:I:3051:C:H5''	9:I:3052:C:H2'	1.70	0.73
9:I:3201:G:O6	9:I:3245:U:C5	2.41	0.73
9:I:3810:G:H2'	9:I:3811:A:C1'	2.18	0.73
9:I:3820:C:H3'	9:I:3822:A:OP2	1.89	0.73
9:I:4181:U:H3'	9:I:4182:G:C8	2.23	0.73
9:I:4339:U:O3'	39:o:52:ARG:HD3	1.88	0.73
10:J:73:U:H1'	45:u:37:PRO:HG2	1.69	0.73
12:L:46:ARG:HB3	12:L:84:LEU:HD12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:108:ASP:C	12:L:203:VAL:HA	2.13	0.73
17:S:111:LYS:HA	17:S:111:LYS:CE	2.18	0.73
18:T:82:LEU:HD11	18:T:116:VAL:HG23	1.68	0.73
19:U:96:ILE:HA	19:U:100:LYS:NZ	2.03	0.73
21:W:190:PRO:HB3	21:W:196:VAL:HG21	1.68	0.73
30:f:8:VAL:HG22	30:f:71:GLU:HG3	1.68	0.73
32:h:69:ARG:O	32:h:73:SER:N	2.21	0.73
38:n:74:GLY:HA3	38:n:108:ALA:CB	2.16	0.73
43:s:6:ARG:NH1	43:s:38:ALA:HA	1.97	0.73
46:v:41:VAL:CG1	46:v:49:LEU:HB3	2.18	0.73
49:y:44:ARG:HH11	49:y:44:ARG:C	1.95	0.73
2:B:1:SER:N	9:I:738:C:H4'	2.04	0.73
3:C:12:LYS:HD3	9:I:44:G:P	2.28	0.73
4:D:64:LEU:HD13	9:I:255:U:OP2	1.88	0.73
9:I:8:G:C5'	24:Z:100:GLY:H	2.01	0.73
9:I:1427:A:C2'	9:I:1428:A:H5''	2.18	0.73
9:I:1491:G:H2'	9:I:1492:C:O4'	1.87	0.73
9:I:1639:U:C1'	9:I:1641:G:H1	2.01	0.73
9:I:2020:G:H2'	9:I:2021:U:C6	2.22	0.73
9:I:2094:U:H2'	9:I:2095:C:C6	2.23	0.73
9:I:2422:A:H4'	49:y:38:GLU:CD	2.13	0.73
9:I:2515:A:N3	9:I:2515:A:H3'	2.04	0.73
9:I:3131:A:H2'	9:I:3132:C:C6	2.24	0.73
9:I:3217:G:H2'	9:I:3218:G:O4'	1.87	0.73
9:I:3775:A:C2'	9:I:3776:G:H5''	2.17	0.73
9:I:4168:G:H2'	9:I:4169:A:H8	1.51	0.73
9:I:4193:C:C3'	9:I:4194:A:O4'	2.36	0.73
9:I:4282:C:H2'	9:I:4283:C:C6	2.22	0.73
11:K:140:VAL:HG22	11:K:191:LEU:HD22	1.70	0.73
11:K:147:PRO:HD3	11:K:184:GLU:OE1	1.88	0.73
12:L:50:VAL:N	12:L:80:TRP:O	2.20	0.73
12:L:108:ASP:O	12:L:203:VAL:HG13	1.89	0.73
20:V:43:GLU:CD	20:V:46:ARG:HE	1.97	0.73
21:W:114:LEU:HD13	21:W:117:GLN:NE2	2.03	0.73
26:b:108:ARG:O	26:b:118:ARG:NH2	2.20	0.73
27:c:113:ARG:NH1	27:c:114:ALA:HA	2.02	0.73
30:f:18:THR:HG21	30:f:80:GLY:CA	2.17	0.73
39:o:54:LEU:O	39:o:76:HIS:HB2	1.88	0.73
40:p:50:ARG:O	40:p:53:LYS:HB2	1.88	0.73
44:t:48:VAL:CG2	44:t:52:ASN:HB2	2.17	0.73
8:H:28:LEU:HB3	30:f:15:PHE:CZ	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:334:C:H2'	9:I:335:A:H8	1.53	0.73
9:I:1151:A:H4'	29:e:15:ASP:OD2	1.87	0.73
9:I:1409:A:N6	9:I:4394:U:O4	2.19	0.73
9:I:1576:C:H5'	48:x:51:ARG:CZ	2.18	0.73
9:I:1833:G:H2'	9:I:1834:C:C5	2.23	0.73
9:I:1869:U:H3	9:I:1922:A:P	2.11	0.73
9:I:2114:A:O2'	9:I:2115:U:OP2	2.05	0.73
9:I:2757:U:H4'	9:I:2758:A:OP1	1.88	0.73
9:I:2781:A:H5'	20:V:103:ARG:NH1	2.03	0.73
9:I:3023:G:C2'	9:I:3024:G:H5'	2.19	0.73
9:I:3057:U:H2'	9:I:3058:C:H6	1.51	0.73
9:I:3342:A:N6	9:I:3388:C:H1'	2.03	0.73
9:I:4020:G:H2'	9:I:4021:C:C6	2.23	0.73
12:L:13:ARG:CG	12:L:23:PRO:HG3	2.18	0.73
12:L:103:ASP:O	12:L:105:LYS:N	2.21	0.73
12:L:149:ASN:O	12:L:151:THR:N	2.20	0.73
14:N:35:LEU:O	14:N:87:LYS:HB2	1.87	0.73
15:O:86:LEU:HA	15:O:163:TYR:CA	2.16	0.73
17:S:8:LEU:CD1	17:S:19:VAL:HG23	2.17	0.73
17:S:12:ASP:HA	17:S:99:ILE:HA	1.70	0.73
19:U:73:ILE:O	19:U:89:VAL:HA	1.88	0.73
22:X:113:LYS:HB2	22:X:184:ASN:ND2	2.03	0.73
26:b:46:LEU:HG	26:b:57:GLU:OE2	1.89	0.73
32:h:73:SER:O	32:h:77:LYS:N	2.21	0.73
39:o:13:LYS:HD2	39:o:75:THR:O	1.88	0.73
41:q:49:ILE:HG22	41:q:53:PHE:CA	2.18	0.73
46:v:19:GLU:C	46:v:56:LYS:HA	2.13	0.73
1:A:56:PRO:O	1:A:59:GLN:HB2	1.89	0.73
5:E:36:LEU:O	5:E:40:ILE:HG13	1.89	0.73
9:I:409:G:O2'	9:I:431:A:N6	2.20	0.73
9:I:671:U:HO2'	25:a:86:ARG:HH22	1.36	0.73
9:I:861:C:H2'	9:I:862:U:C6	2.24	0.73
9:I:969:C:N4	28:d:125:SER:OG	2.22	0.73
9:I:990:U:H4'	9:I:991:U:OP1	1.86	0.73
9:I:1056:G:H4'	22:X:196:GLY:N	2.03	0.73
9:I:2199:A:H2'	9:I:2200:G:H5'	1.70	0.73
9:I:2499:C:H4'	9:I:2506:U:C5	2.24	0.73
9:I:2706:G:N2	9:I:2730:G:O2'	2.22	0.73
9:I:2835:G:N2	43:s:84:TYR:O	2.21	0.73
9:I:2859:A:N3	9:I:2859:A:H2'	2.03	0.73
9:I:3117:G:H2'	9:I:3118:U:C6	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3502:C:O2'	9:I:3503:A:H5'	1.88	0.73
9:I:4034:C:O4'	9:I:4235:A:O2'	2.04	0.73
9:I:4178:U:OP2	39:o:72:VAL:HG12	1.87	0.73
9:I:4182:G:C3'	9:I:4213:G:H1	1.99	0.73
9:I:4222:U:H5'	17:S:70:ARG:HH22	1.53	0.73
9:I:4268:C:H2'	9:I:4269:G:O4'	1.89	0.73
10:J:56:A:H2'	10:J:57:A:C8	2.24	0.73
11:K:173:LEU:CD2	11:K:175:LEU:HD23	2.18	0.73
13:M:172:ALA:O	13:M:175:ILE:HG12	1.89	0.73
13:M:196:VAL:HA	13:M:199:MET:CB	2.14	0.73
14:N:33:ILE:HD11	14:N:99:PHE:HD1	1.53	0.73
19:U:126:ILE:HG13	19:U:128:THR:HG23	1.71	0.73
20:V:65:LEU:HA	20:V:68:ALA:HB2	1.70	0.73
21:W:97:MET:HA	21:W:104:VAL:CG2	2.15	0.73
21:W:107:SER:HA	21:W:110:ARG:CD	2.18	0.73
23:Y:75:TYR:CE1	23:Y:200:VAL:HG13	2.23	0.73
24:Z:1:GLU:O	24:Z:32:ASP:HA	1.89	0.73
28:d:85:MET:HE1	28:d:101:VAL:CG1	2.19	0.73
30:f:33:ALA:HB3	30:f:58:CYS:HB2	1.70	0.73
32:h:1:ALA:O	32:h:8:ILE:HG23	1.87	0.73
37:m:25:VAL:CG2	37:m:35:GLN:HB3	2.18	0.73
41:q:64:VAL:HG23	41:q:96:VAL:C	2.14	0.73
45:u:6:ALA:O	45:u:65:VAL:HA	1.88	0.73
45:u:12:GLN:O	45:u:16:ALA:HB3	1.88	0.73
46:v:23:ALA:HA	46:v:52:LYS:C	2.14	0.73
46:v:62:LYS:HE3	46:v:71:SER:HB3	1.69	0.73
9:I:112:G:O4'	9:I:353:G:H5'	1.89	0.73
9:I:236:G:H2'	9:I:237:A:H8	1.49	0.73
9:I:307:C:O2'	9:I:308:A:H5'	1.88	0.73
9:I:522:A:H1'	9:I:526:G7M:N2	2.04	0.73
9:I:665:G:O2'	9:I:666:G:H5'	1.88	0.73
9:I:1375:U:H4'	26:b:94:ARG:HH12	1.54	0.73
9:I:2213:G:H2'	9:I:2218:A:H61	1.52	0.73
9:I:2363:A:H4'	10:J:99:G:N2	2.04	0.73
9:I:2488:C:OP1	40:p:49:ARG:NH2	2.22	0.73
9:I:2505:G:OP1	40:p:74:SER:HB2	1.87	0.73
9:I:2615:C:O2'	9:I:2616:G:H5'	1.89	0.73
9:I:2912:G:C2'	9:I:3074:A:H61	2.00	0.73
9:I:2912:G:N1	9:I:3073:A:OP2	2.21	0.73
9:I:2974:C:H2'	9:I:2975:U:C6	2.24	0.73
9:I:2996:A:N3	9:I:2996:A:H2'	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3000:U:H2'	9:I:3001:C:O4'	1.89	0.73
10:J:19:G:H2'	10:J:20:G:H8	1.52	0.73
12:L:8:LYS:HB3	12:L:199:SER:N	2.03	0.73
13:M:143:LEU:CA	13:M:146:VAL:HG21	2.18	0.73
14:N:30:VAL:CA	14:N:168:LEU:HD21	2.18	0.73
15:O:3:VAL:HG12	15:O:68:ARG:HB3	1.71	0.73
15:O:49:LEU:HD13	15:O:71:LEU:HD21	1.70	0.73
15:O:120:ILE:HG13	15:O:143:VAL:CG2	2.17	0.73
20:V:96:ARG:HH22	20:V:116:VAL:HG13	1.53	0.73
21:W:118:SER:HA	21:W:123:PHE:CE1	2.23	0.73
23:Y:66:VAL:HG22	23:Y:96:ARG:NH1	2.02	0.73
29:e:15:ASP:HB3	29:e:68:ARG:HE	1.54	0.73
30:f:76:GLY:O	30:f:81:ARG:HD3	1.88	0.73
32:h:70:ARG:HD2	32:h:71:GLU:N	2.03	0.73
38:n:19:GLU:HG2	46:v:39:ALA:N	2.02	0.73
43:s:25:GLU:HG3	43:s:26:LYS:HE3	1.70	0.73
45:u:26:PHE:HZ	45:u:89:ILE:HD12	1.53	0.73
46:v:20:SER:HA	46:v:55:GLY:C	2.14	0.73
1:A:2:LYS:CG	9:I:1047:G:H4'	2.17	0.73
4:D:19:VAL:HG23	4:D:42:HIS:HD2	1.54	0.73
4:D:68:LYS:HD3	9:I:253:G:C8	2.23	0.73
6:F:67:HIS:HE1	32:h:84:CYS:HB3	1.50	0.73
9:I:426:U:OP2	9:I:427:G:O2'	2.05	0.73
9:I:871:A:H4'	9:I:872:A:OP1	1.89	0.73
9:I:1870:G:H2'	9:I:1923:A:C8	2.24	0.73
9:I:1910:G:H5''	9:I:1911:G:C5'	2.18	0.73
9:I:2341:G:O2'	9:I:2342:U:H5'	1.89	0.73
9:I:2700:G:C6	9:I:2734:U:C4	2.77	0.73
9:I:3291:G:H3'	11:K:270:ARG:NH1	2.02	0.73
9:I:3648:A:H2'	9:I:3649:U:H6	1.54	0.73
9:I:3721:A:H2'	9:I:3722:G:H8	1.54	0.73
9:I:3864:G:H2'	9:I:3865:G:O4'	1.89	0.73
9:I:3865:G:H21	34:j:43:HIS:CE1	2.04	0.73
9:I:3953:A:H2'	9:I:3954:U:O4'	1.89	0.73
9:I:4151:A:H3'	9:I:4152:C:H6	1.51	0.73
9:I:4200:A:H5'	9:I:4345:A:O3'	1.88	0.73
9:I:4388:C:H2'	9:I:4389:U:C6	2.23	0.73
10:J:18:C:H2'	10:J:19:G:H8	1.51	0.73
11:K:128:THR:OG1	11:K:190:THR:HA	1.89	0.73
13:M:16:GLU:HG3	13:M:20:GLY:CA	2.18	0.73
13:M:123:LYS:HD2	13:M:152:GLU:OE2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:30:VAL:HG12	14:N:168:LEU:CD2	2.17	0.73
15:O:86:LEU:HB2	15:O:130:ILE:HD12	1.71	0.73
16:R:38:GLY:HA3	16:R:41:LYS:HG2	1.71	0.73
17:S:11:ALA:HB2	17:S:64:ARG:NH2	2.03	0.73
18:T:90:VAL:CG1	18:T:95:LEU:HG	2.15	0.73
18:T:127:VAL:HG23	18:T:132:ARG:NH2	2.03	0.73
19:U:26:VAL:HG23	19:U:134:THR:HG23	1.70	0.73
19:U:119:LEU:O	19:U:123:LYS:HG2	1.88	0.73
19:U:120:ALA:O	19:U:124:LEU:HG	1.89	0.73
19:U:133:LYS:NZ	19:U:135:VAL:HG22	2.03	0.73
21:W:114:LEU:HD13	21:W:117:GLN:HE21	1.53	0.73
21:W:190:PRO:CB	21:W:196:VAL:HG21	2.19	0.73
34:j:9:VAL:HA	34:j:17:PHE:HB2	1.70	0.73
37:m:7:VAL:HG11	37:m:36:ARG:C	2.14	0.73
38:n:87:LYS:O	38:n:114:LEU:HD12	1.89	0.73
41:q:2:TYR:HB3	41:q:15:SER:OG	1.89	0.73
43:s:4:GLU:HG3	43:s:7:LEU:HD11	1.69	0.73
5:E:41:LYS:HD3	9:I:672:A:H2	1.52	0.73
9:I:455:A:H3'	9:I:456:G:C8	2.22	0.73
9:I:739:U:H2'	9:I:740:G:O4'	1.89	0.73
9:I:780:A:H8	9:I:800:U:H3	1.26	0.73
9:I:1043:A:C8	9:I:1044:C:H1'	2.24	0.73
9:I:1804:U:C4	9:I:1813:G:O6	2.42	0.73
9:I:2975:U:C2	9:I:3004:G:C2	2.76	0.73
9:I:3696:U:O2	9:I:3715:G:N2	2.20	0.73
9:I:3896:U:O3'	9:I:3897:C:H3'	1.89	0.73
9:I:4027:U:H2'	9:I:4028:A:O4'	1.89	0.73
9:I:4034:C:H1'	9:I:4235:A:H1'	1.70	0.73
9:I:4234:A:N7	9:I:4257:G:H2'	2.03	0.73
10:J:1:G:H2'	10:J:2:C:C6	2.23	0.73
10:J:74:G:H5''	45:u:39:ALA:HB2	1.70	0.73
10:J:92:C:H2'	10:J:93:A:H8	1.52	0.73
11:K:90:ILE:HG22	11:K:104:LEU:HD13	1.70	0.73
11:K:196:ASN:CG	11:K:199:HIS:HB2	2.14	0.73
15:O:8:VAL:HG22	15:O:72:ASN:ND2	2.03	0.73
17:S:105:ARG:CZ	17:S:122:VAL:HA	2.19	0.73
22:X:13:ILE:HG22	22:X:14:VAL:HG13	1.69	0.73
26:b:67:ASN:ND2	26:b:129:ASN:HB3	2.04	0.73
37:m:22:VAL:HA	37:m:37:GLN:OE1	1.89	0.73
38:n:25:LEU:HA	38:n:37:GLN:O	1.88	0.73
39:o:102:ARG:NH1	39:o:107:ALA:O	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:98:ALA:HB1	40:p:102:LYS:HA	1.70	0.73
43:s:10:VAL:HA	43:s:35:ALA:HB2	1.71	0.73
46:v:9:LYS:CD	46:v:11:LEU:HD11	2.19	0.73
9:I:44:G:H2'	9:I:45:G:H8	1.52	0.73
9:I:284:C:H2'	9:I:285:C:C6	2.24	0.73
9:I:1329:U:H4'	32:h:22:TYR:CD1	2.24	0.73
9:I:1506:A:O2'	9:I:1507:G:H5'	1.89	0.73
9:I:1643:C:H2'	43:s:3:ARG:NH1	2.04	0.73
9:I:1718:A:H3'	9:I:1719:A:H8	1.53	0.73
9:I:1794:A:N6	9:I:1845:A:O4'	2.22	0.73
9:I:1805:C:H2'	9:I:1806:U:O4'	1.89	0.73
9:I:2371:U:C2'	9:I:2372:U:C6	2.72	0.73
9:I:2530:G:N2	9:I:2613:U:O2	2.22	0.73
9:I:2578:A:O2'	9:I:2599:U:O2'	2.05	0.73
9:I:3115:U:H5''	9:I:3116:G:OP1	1.89	0.73
9:I:3225:G:H2'	9:I:3226:C:H3'	1.69	0.73
9:I:4151:A:H3'	9:I:4152:C:C5	2.23	0.73
9:I:4170:C:O2	9:I:4226:G:N2	2.22	0.73
9:I:4342:G:OP1	39:o:93:LYS:HD3	1.87	0.73
10:J:34:C:N4	10:J:49:A:H1'	2.04	0.73
10:J:61:C:H2'	10:J:62:C:C6	2.24	0.73
12:L:129:THR:HG22	12:L:130:GLN:O	1.89	0.73
14:N:95:MET:SD	14:N:99:PHE:HB2	2.28	0.73
15:O:90:GLY:O	15:O:91:VAL:HG12	1.88	0.73
15:O:120:ILE:HD12	15:O:134:GLY:HA3	1.70	0.73
22:X:151:GLU:HG2	22:X:165:GLU:C	2.14	0.73
22:X:179:ALA:HB1	22:X:202:PHE:CE1	2.23	0.73
26:b:29:LEU:HD11	26:b:41:ILE:CG2	2.19	0.73
28:d:3:TYR:O	28:d:17:PHE:HA	1.89	0.73
31:g:109:ARG:CB	31:g:118:VAL:HG21	2.18	0.73
39:o:103:THR:CA	39:o:107:ALA:HB2	2.19	0.73
41:q:4:VAL:HG21	41:q:40:MET:HE3	1.70	0.73
43:s:83:ALA:HB3	43:s:85:VAL:HG22	1.70	0.73
48:x:1:LYS:HB2	48:x:5:LEU:HD23	1.69	0.73
1:A:88:MET:HB2	9:I:1058:C:H4'	1.70	0.72
4:D:64:LEU:HB2	9:I:254:G:H5''	1.70	0.72
9:I:61:U:OP1	9:I:384:C:O2'	2.06	0.72
9:I:1484:C:H2'	9:I:1484:C:O2	1.89	0.72
9:I:1817:G:H2'	9:I:1818:C:C5'	2.19	0.72
9:I:1905:U:H3'	9:I:1906:G:H5'	1.71	0.72
9:I:1982:A:H4'	44:t:44:HIS:ND1	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2377:A:H2'	9:I:2394:A:H61	1.54	0.72
9:I:2449:PSU:H5'	9:I:2450:G:OP2	1.89	0.72
9:I:3221:C:C2'	9:I:3222:C:H5'	2.19	0.72
9:I:3846:A:N6	9:I:3859:G:C2	2.56	0.72
9:I:4159:A:O2'	9:I:4160:C:H5'	1.88	0.72
9:I:4178:U:O3'	39:o:72:VAL:HG11	1.89	0.72
9:I:4296:G:H2'	9:I:4297:G:H8	1.53	0.72
10:J:116:G:H2'	10:J:117:C:H6	1.51	0.72
11:K:63:ILE:HG23	11:K:101:ARG:HH22	1.54	0.72
11:K:81:GLU:HG2	11:K:90:ILE:HD11	1.70	0.72
13:M:112:LEU:HD23	13:M:115:GLN:NE2	2.04	0.72
13:M:148:ILE:HD12	13:M:187:VAL:HB	1.70	0.72
14:N:33:ILE:HG12	14:N:155:ILE:CG1	2.17	0.72
15:O:82:PHE:CE1	15:O:137:LYS:HG3	2.24	0.72
22:X:61:LYS:O	22:X:96:VAL:HB	1.89	0.72
22:X:129:PHE:O	22:X:133:MET:HG3	1.88	0.72
24:Z:52:GLN:O	24:Z:56:GLU:HG2	1.88	0.72
29:e:5:ARG:NH1	29:e:38:LEU:HD13	2.03	0.72
29:e:7:LYS:HA	29:e:66:HIS:O	1.87	0.72
30:f:10:HIS:N	30:f:21:THR:O	2.18	0.72
32:h:2:ARG:HA	32:h:8:ILE:HD12	1.71	0.72
40:p:62:ALA:O	40:p:65:ASN:HB3	1.88	0.72
42:r:77:ASP:O	42:r:102:HIS:N	2.22	0.72
47:w:3:VAL:O	47:w:32:LEU:HD11	1.89	0.72
1:A:31:SER:HA	1:A:41:TRP:CZ2	2.24	0.72
9:I:111:G:H22	9:I:314:A:H2	1.34	0.72
9:I:737:C:H2'	9:I:738:C:O4'	1.89	0.72
9:I:2522:A:H2'	9:I:2523:A:O4'	1.89	0.72
9:I:2542:A:N1	9:I:2606:G:O2'	2.21	0.72
9:I:2618:G:C4'	37:m:22:VAL:HG22	2.19	0.72
9:I:2987:C:H3'	9:I:2988:A:H5'	1.70	0.72
9:I:3148:A:OP1	20:V:1:MET:N	2.20	0.72
9:I:3336:G:C2	9:I:3392:U:C2	2.74	0.72
9:I:3485:U:O2'	9:I:3486:G:H5'	1.88	0.72
9:I:3798:G:H5'	14:N:120:SER:HB2	1.71	0.72
9:I:3846:A:C6	9:I:3859:G:N2	2.55	0.72
9:I:4199:A:O2'	9:I:4346:G:OP1	2.07	0.72
12:L:52:THR:O	12:L:77:ARG:HG2	1.89	0.72
12:L:82:PHE:CB	12:L:88:GLU:OE2	2.37	0.72
15:O:8:VAL:HG23	15:O:51:PHE:HE1	1.54	0.72
17:S:38:ILE:HA	17:S:60:ALA:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:190:PRO:HB2	21:W:196:VAL:HG11	1.70	0.72
22:X:181:ILE:HD13	22:X:202:PHE:HA	1.69	0.72
28:d:32:LEU:CD1	28:d:42:ARG:HG2	2.18	0.72
30:f:10:HIS:HA	30:f:73:MET:HB3	1.69	0.72
38:n:29:ARG:HH21	38:n:102:VAL:HG23	1.55	0.72
39:o:27:VAL:HG11	39:o:80:VAL:HG12	1.71	0.72
39:o:71:ARG:HG2	39:o:73:PHE:CE1	2.23	0.72
41:q:21:ARG:HG3	41:q:95:ASP:OD1	1.89	0.72
42:r:55:ILE:CG2	42:r:66:ILE:HG13	2.18	0.72
43:s:44:LYS:HE3	43:s:56:GLU:O	1.89	0.72
47:w:38:TRP:CE2	47:w:40:GLU:HA	2.24	0.72
1:A:84:ARG:HG2	9:I:1058:C:O2'	1.89	0.72
4:D:16:LYS:N	9:I:272:U:O3'	2.22	0.72
7:G:27:ARG:HD3	9:I:1438:G:P	2.29	0.72
9:I:467:A:H5'	9:I:468:C:C5	2.24	0.72
9:I:911:C:H2'	9:I:912:A:C8	2.25	0.72
9:I:925:G:H5''	9:I:926:G:C5'	2.19	0.72
9:I:1266:C:H4'	9:I:1267:G:OP1	1.87	0.72
9:I:1328:A:H5''	32:h:25:GLY:N	2.03	0.72
9:I:1636:G:H3'	9:I:1636:G:OP2	1.90	0.72
9:I:1863:G:N3	9:I:1863:G:H2'	2.02	0.72
9:I:1873:U:H2'	9:I:1901:A:H62	1.52	0.72
9:I:2033:G:H2'	9:I:2034:U:O4'	1.89	0.72
9:I:2256:A:H2'	9:I:2257:G:O4'	1.88	0.72
9:I:3043:A:H2'	9:I:3044:C:H6	1.54	0.72
9:I:3601:G:H2'	9:I:3602:A:O4'	1.88	0.72
9:I:3788:G:C8	9:I:3788:G:H3'	2.23	0.72
14:N:107:VAL:CG1	14:N:110:ILE:HD12	2.18	0.72
15:O:104:LEU:O	15:O:112:VAL:N	2.23	0.72
16:R:74:TYR:HB2	16:R:87:ALA:HB3	1.70	0.72
21:W:93:TRP:CE3	21:W:97:MET:HE3	2.24	0.72
31:g:98:ARG:HA	31:g:103:CYS:SG	2.29	0.72
32:h:18:LEU:CD1	32:h:33:LEU:HG	2.19	0.72
38:n:19:GLU:OE2	46:v:39:ALA:HA	1.89	0.72
40:p:74:SER:HG	40:p:77:LYS:H	1.36	0.72
40:p:75:TYR:CE1	40:p:79:ILE:HD11	2.24	0.72
45:u:76:ASP:O	45:u:89:ILE:HG23	1.89	0.72
48:x:49:VAL:O	48:x:52:VAL:HB	1.89	0.72
1:A:3:GLN:O	9:I:1214:G:N2	2.22	0.72
3:C:31:ARG:HD2	9:I:311:C:OP1	1.88	0.72
4:D:15:GLU:H	9:I:273:A:H5''	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:471:U:O2'	9:I:472:U:H5'	1.90	0.72
9:I:787:U:H2'	9:I:788:U:C6	2.24	0.72
9:I:949:U:H2'	9:I:950:G:H8	1.53	0.72
9:I:1801:G:OP2	9:I:1834:C:H1'	1.89	0.72
9:I:1805:C:O2'	9:I:1806:U:H5'	1.89	0.72
9:I:2199:A:C2'	9:I:2200:G:H5'	2.19	0.72
9:I:3325:G:H2'	9:I:3326:C:O4'	1.89	0.72
9:I:3841:C:N3	9:I:3865:G:N2	2.37	0.72
9:I:3842:U:O2'	34:j:38:PRO:HB3	1.89	0.72
9:I:4215:A:H2'	9:I:4216:G:O4'	1.89	0.72
9:I:4221:A:O3'	17:S:70:ARG:NH2	2.22	0.72
10:J:16:C:H2'	10:J:17:G:C8	2.24	0.72
14:N:41:GLU:OE2	14:N:147:ARG:NH2	2.23	0.72
14:N:64:PRO:HG3	14:N:88:VAL:HG12	1.70	0.72
16:R:102:GLU:O	16:R:106:LYS:N	2.22	0.72
17:S:20:MET:O	17:S:41:ILE:HB	1.90	0.72
19:U:45:GLN:HA	19:U:48:ALA:CB	2.17	0.72
22:X:133:MET:HE3	22:X:152:VAL:HG13	1.70	0.72
26:b:105:GLU:HB3	26:b:108:ARG:HH21	1.55	0.72
34:j:6:ILE:CG2	34:j:24:LYS:HZ2	2.01	0.72
41:q:1:MET:HE1	41:q:101:ILE:CG1	2.19	0.72
41:q:5:PHE:HE1	41:q:14:VAL:HG13	1.53	0.72
42:r:26:GLY:H	42:r:71:VAL:CB	2.03	0.72
45:u:4:ILE:CG2	45:u:42:LEU:HD22	2.16	0.72
46:v:20:SER:HA	46:v:56:LYS:CA	2.18	0.72
46:v:55:GLY:HA2	46:v:75:GLU:HB3	1.71	0.72
1:A:88:MET:HE1	29:e:49:ILE:CG1	2.20	0.72
4:D:14:MET:HE2	9:I:274:G:H1'	1.68	0.72
4:D:17:SER:CB	9:I:272:U:H4'	2.20	0.72
4:D:63:PRO:HG2	9:I:264:G:H4'	1.72	0.72
9:I:191:A:H2'	9:I:192:C:C6	2.24	0.72
9:I:425:U:H2'	9:I:426:U:C6	2.25	0.72
9:I:1083:G:O5'	9:I:1084:U:H2'	1.89	0.72
9:I:1174:G:O2'	9:I:1175:A:H5'	1.90	0.72
9:I:1197:G:H2'	9:I:1198:U:C6	2.24	0.72
9:I:1505:A:O2'	9:I:1506:A:H5'	1.89	0.72
9:I:2144:A:H5''	9:I:2145:C:OP2	1.90	0.72
9:I:2434:G:H2'	9:I:2435:A:C5'	2.19	0.72
9:I:2746:G:H1	40:p:36:GLN:HE21	1.35	0.72
9:I:2900:U:H3'	9:I:2901:G:H8	1.53	0.72
9:I:3701:C:O2'	9:I:3702:C:H5'	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3814:U:H1'	9:I:3816:A:N7	2.05	0.72
9:I:4318:C:O5'	9:I:4319:G:N2	2.21	0.72
9:I:4411:A:O2'	9:I:4412:A:H5'	1.90	0.72
10:J:114:A:OP2	10:J:114:A:H3'	1.90	0.72
12:L:1:MET:HA	12:L:100:LEU:CD1	2.20	0.72
12:L:26:VAL:HG22	12:L:188:LEU:HD22	1.69	0.72
12:L:48:ILE:HD13	12:L:90:PHE:CD1	2.24	0.72
14:N:3:LEU:HD12	14:N:100:GLU:HG3	1.70	0.72
17:S:2:ILE:HD11	17:S:65:THR:CG2	2.19	0.72
17:S:24:VAL:CA	17:S:39:ILE:HG22	2.17	0.72
23:Y:117:VAL:HG11	23:Y:132:ALA:CA	2.17	0.72
23:Y:123:MET:HE2	23:Y:145:ARG:HB2	1.69	0.72
32:h:15:VAL:O	32:h:19:THR:HG23	1.89	0.72
38:n:17:LEU:CB	38:n:41:PRO:HB3	2.20	0.72
39:o:13:LYS:CE	39:o:80:VAL:HG23	2.18	0.72
46:v:28:VAL:HG21	46:v:35:PHE:CB	2.19	0.72
49:y:51:SER:HA	49:y:54:VAL:HG22	1.71	0.72
1:A:20:PHE:CG	1:A:55:SER:HA	2.24	0.72
2:B:86:LEU:HD12	2:B:87:ARG:H	1.54	0.72
5:E:13:TYR:C	5:E:21:VAL:HG22	2.14	0.72
8:H:14:ALA:HB1	30:f:98:ILE:HD11	1.70	0.72
9:I:111:G:N2	9:I:353:G:O5'	2.22	0.72
9:I:196:A:H4'	9:I:197:G:O5'	1.88	0.72
9:I:1148:C:H2'	9:I:1149:A:H8	1.53	0.72
9:I:1168:A:O2'	21:W:136:ARG:NH2	2.22	0.72
9:I:1247:A:C2	28:d:69:ILE:HD11	2.23	0.72
9:I:1572:U:C5'	48:x:53:LYS:HD2	2.19	0.72
9:I:1806:U:H2'	9:I:1807:G:N9	2.05	0.72
9:I:1832:A:HO2'	9:I:1834:C:P	2.11	0.72
9:I:1960:A:H5''	43:s:73:ARG:NH2	2.05	0.72
9:I:2522:A:C2'	9:I:2523:A:H8	2.03	0.72
9:I:3592:U:H2'	9:I:3593:U:C6	2.25	0.72
9:I:3808:A:H5''	14:N:156:THR:OG1	1.88	0.72
9:I:3955:A:H1'	9:I:3986:U:C4	2.25	0.72
9:I:4148:A:N1	9:I:4159:A:H3'	2.04	0.72
9:I:4177:C:N3	9:I:4221:A:H1'	2.05	0.72
9:I:4203:G:C2'	9:I:4204:C:H5'	2.19	0.72
11:K:43:ASN:OD1	11:K:45:ASN:N	2.21	0.72
12:L:13:ARG:CD	12:L:23:PRO:HG3	2.20	0.72
12:L:115:GLY:O	12:L:116:LYS:HD3	1.89	0.72
14:N:30:VAL:HG13	14:N:168:LEU:HD11	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:43:ILE:HG23	14:N:84:ILE:CD1	2.19	0.72
16:R:18:VAL:HB	16:R:56:VAL:CA	2.17	0.72
16:R:88:THR:N	16:R:91:GLU:OE2	2.21	0.72
17:S:40:LYS:HD2	17:S:59:LYS:CE	2.19	0.72
18:T:29:LYS:O	18:T:30:THR:OG1	2.08	0.72
18:T:95:LEU:HD22	18:T:100:ILE:CD1	2.18	0.72
22:X:62:SER:CB	22:X:97:PRO:HG2	2.19	0.72
22:X:69:THR:O	22:X:104:GLU:HA	1.90	0.72
30:f:51:ALA:HB3	30:f:83:SER:OG	1.89	0.72
31:g:2:THR:HB	31:g:5:GLN:HG3	1.72	0.72
41:q:1:MET:HG3	41:q:43:ASN:HB2	1.71	0.72
45:u:25:LYS:HD2	45:u:42:LEU:O	1.90	0.72
45:u:61:LEU:HG	45:u:72:VAL:HG23	1.72	0.72
1:A:4:SER:CB	9:I:1214:G:H3'	2.18	0.72
1:A:5:MET:CE	9:I:982:A:H4'	2.19	0.72
8:H:9:GLU:O	30:f:94:ARG:HA	1.90	0.72
9:I:313:C:O2'	9:I:314:A:H5'	1.88	0.72
9:I:334:C:H4'	9:I:1433:A:C4'	2.18	0.72
9:I:340:C:H2'	9:I:341:C:C6	2.24	0.72
9:I:379:G:N2	9:I:382:A:OP2	2.21	0.72
9:I:1011:A:H2	9:I:1017:G:H1	1.36	0.72
9:I:1054:A:O2'	22:X:160:GLU:O	2.06	0.72
9:I:1069:U:H2'	9:I:1070:C:H6	1.53	0.72
9:I:1665:A:H2'	9:I:1666:U:H6	1.54	0.72
9:I:1797:G:P	44:t:84:PHE:HB3	2.28	0.72
9:I:1820:A:N9	13:M:132:LYS:HB2	2.04	0.72
9:I:1820:A:O2'	9:I:1822:A:OP2	2.05	0.72
9:I:2192:C:O5'	11:K:38:LYS:HD3	1.90	0.72
9:I:2328:U:O2'	9:I:2329:A:O5'	2.08	0.72
9:I:2708:A:H62	9:I:2729:G:H21	1.35	0.72
9:I:2840:G:C2	9:I:2841:A:H1'	2.24	0.72
9:I:3009:A:C4	9:I:3010:G:H1'	2.25	0.72
9:I:3182:U:H1'	9:I:3194:A:C8	2.25	0.72
9:I:3337:C:H2'	9:I:3338:C:H6	1.55	0.72
9:I:3912:A:P	34:j:16:HIS:HE2	2.12	0.72
9:I:4015:C:H2'	9:I:4016:U:O4'	1.90	0.72
9:I:4047:G:H21	9:I:4077:G:H1'	1.52	0.72
9:I:4180:G:H3'	9:I:4181:U:H6	1.54	0.72
9:I:4316:G:OP1	12:L:116:LYS:N	2.23	0.72
10:J:73:U:H1'	45:u:37:PRO:HB2	1.72	0.72
12:L:85:ALA:H	12:L:88:GLU:CB	2.01	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:120:VAL:HA	13:M:188:MET:CG	2.14	0.72
13:M:170:ARG:CZ	13:M:175:ILE:HA	2.18	0.72
17:S:5:GLN:HA	17:S:20:MET:CG	2.18	0.72
19:U:69:PRO:HB3	19:U:93:VAL:N	2.05	0.72
19:U:96:ILE:CG2	19:U:100:LYS:HB2	2.20	0.72
28:d:17:PHE:O	28:d:61:TYR:N	2.16	0.72
38:n:98:TYR:CE1	38:n:103:GLN:HA	2.24	0.72
38:n:108:ALA:O	38:n:111:GLU:HB2	1.90	0.72
40:p:73:ILE:HD13	40:p:78:PHE:HA	1.72	0.72
41:q:64:VAL:H	41:q:96:VAL:HA	1.53	0.72
43:s:48:GLN:C	43:s:49:LYS:HD3	2.14	0.72
44:t:39:ASN:HB3	44:t:62:ALA:N	2.03	0.72
45:u:32:GLY:O	45:u:93:ARG:HB2	1.90	0.72
45:u:70:ILE:HD11	45:u:93:ARG:HG2	1.71	0.72
46:v:23:ALA:HA	46:v:53:ALA:N	2.04	0.72
47:w:40:GLU:O	47:w:43:LYS:HD3	1.89	0.72
4:D:13:LYS:HA	9:I:273:A:P	2.29	0.72
4:D:66:LYS:O	4:D:68:LYS:N	2.21	0.72
5:E:4:TYR:HB2	5:E:48:LEU:HD11	1.70	0.72
5:E:46:LEU:HD21	25:a:86:ARG:CB	2.07	0.72
9:I:12:U:H3'	9:I:13:U:C6	2.25	0.72
9:I:17:C:H4'	9:I:1078:G:H21	1.55	0.72
9:I:275:G:H2'	9:I:276:C:H5'	1.70	0.72
9:I:520:G:OP1	31:g:69:GLU:HG2	1.90	0.72
9:I:781:A:O3'	9:I:4419:G:H4'	1.89	0.72
9:I:874:U:O2	27:c:15:ASN:ND2	2.23	0.72
9:I:876:G:H5'	27:c:7:ALA:HB1	1.71	0.72
9:I:1376:A:H4'	9:I:1377:C:C6	2.24	0.72
9:I:1474:U:O2	9:I:4333:G:N2	2.21	0.72
9:I:1761:G:H2'	9:I:1762:A:C8	2.24	0.72
9:I:1807:G:N1	9:I:1810:A:OP2	2.22	0.72
9:I:2163:G:N2	9:I:2164:G:H1'	2.04	0.72
9:I:3073:A:H2'	9:I:3074:A:C8	2.24	0.72
9:I:3122:G:O2'	9:I:3123:U:H5'	1.90	0.72
9:I:3492:A:H2'	9:I:3493:C:H6	1.55	0.72
9:I:3602:A:C5'	9:I:3644:C:H4'	2.17	0.72
9:I:3694:C:H2'	9:I:3695:G:C8	2.24	0.72
9:I:3724:G:H2'	9:I:3725:U:H6	1.54	0.72
9:I:3913:U:C5'	34:j:19:THR:HB	2.18	0.72
9:I:4243:A:C5'	15:O:1:SER:HB3	2.18	0.72
9:I:4279:C:P	12:L:42:ASN:HD21	2.13	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:114:HIS:HB2	15:O:150:TYR:OH	1.90	0.72
18:T:75:ALA:O	18:T:108:ALA:HA	1.89	0.72
18:T:95:LEU:HB2	18:T:101:ILE:HD13	1.71	0.72
20:V:8:ARG:C	20:V:12:ARG:HH12	1.98	0.72
20:V:38:LEU:CG	20:V:42:LYS:HG2	2.18	0.72
31:g:34:THR:HG21	31:g:61:GLU:OE2	1.90	0.72
31:g:65:TYR:N	31:g:94:TYR:O	2.18	0.72
32:h:18:LEU:HA	32:h:21:ILE:HD13	1.70	0.72
32:h:88:LEU:HD23	32:h:91:ARG:NH2	2.05	0.72
34:j:5:LYS:CA	34:j:21:THR:HG22	2.18	0.72
46:v:58:LYS:HB2	46:v:73:GLU:CD	2.14	0.72
49:y:11:SER:HG	49:y:31:ILE:HD13	1.53	0.72
49:y:19:HIS:O	49:y:22:THR:HB	1.90	0.72
4:D:13:LYS:HB2	9:I:274:G:O5'	1.90	0.72
4:D:43:VAL:HG21	4:D:58:ILE:CG2	2.18	0.72
9:I:85:G:HO2'	9:I:86:C:P	2.13	0.72
9:I:139:U:C2'	9:I:182:C:H41	2.01	0.72
9:I:160:A:H61	9:I:346:G:H1'	1.54	0.72
9:I:950:G:H2'	9:I:951:U:O4'	1.89	0.72
9:I:1479:A:O4'	9:I:4310:G:O2'	2.07	0.72
9:I:1608:G:H2'	9:I:1609:C:H6	1.50	0.72
9:I:1631:A:H4'	9:I:1631:A:OP1	1.87	0.72
9:I:1851:C:N3	9:I:1852:A:N6	2.38	0.72
9:I:1852:A:H2'	9:I:1853:C:C6	2.25	0.72
9:I:2578:A:H1'	9:I:2599:U:O2'	1.89	0.72
9:I:2579:A:OP2	9:I:2579:A:H3'	1.90	0.72
9:I:2670:U:H2'	9:I:2671:G:N9	2.04	0.72
9:I:3221:C:H2'	9:I:3222:C:H5'	1.71	0.72
9:I:3235:C:H2'	9:I:3236:U:H6	1.55	0.72
9:I:3239:A:H2'	9:I:3240:A:H8	1.54	0.72
9:I:4096:A:H4'	9:I:4097:G:OP2	1.88	0.72
10:J:75:G:H4'	45:u:88:HIS:CD2	2.24	0.72
12:L:186:LEU:HD11	39:o:3:ILE:CG2	2.19	0.72
14:N:69:ALA:HB3	14:N:79:ARG:O	1.89	0.72
16:R:43:GLU:OE1	16:R:43:GLU:N	2.22	0.72
17:S:2:ILE:CD1	17:S:65:THR:HG22	2.20	0.72
17:S:9:ASN:OD1	17:S:10:VAL:N	2.22	0.72
19:U:47:GLU:HA	19:U:50:ARG:HB3	1.71	0.72
20:V:99:LYS:HB3	33:i:41:HIS:CD2	2.25	0.72
21:W:126:LEU:HD12	21:W:130:GLU:C	2.15	0.72
22:X:37:LYS:HB2	22:X:93:ILE:HG21	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:155:ARG:H	22:X:162:ALA:CB	2.03	0.72
25:a:7:VAL:CB	25:a:61:LEU:HD13	2.15	0.72
26:b:50:ALA:HB2	26:b:57:GLU:HB2	1.72	0.72
27:c:9:MET:HE3	27:c:13:ILE:CG1	2.19	0.72
33:i:47:TYR:OH	33:i:52:LYS:HB2	1.89	0.72
35:k:27:GLY:HA2	35:k:30:VAL:HB	1.72	0.72
37:m:4:ARG:HG2	37:m:35:GLN:NE2	2.04	0.72
37:m:7:VAL:HG12	37:m:35:GLN:CG	2.20	0.72
39:o:4:ILE:CG1	39:o:7:LEU:HD12	2.19	0.72
40:p:56:PHE:HB3	40:p:60:TRP:CZ3	2.24	0.72
41:q:66:HIS:CE1	41:q:94:THR:HG23	2.25	0.72
43:s:61:LEU:HD11	43:s:63:VAL:CG2	2.19	0.72
45:u:4:ILE:CD1	45:u:50:MET:HB2	2.11	0.72
5:E:5:LYS:HD3	25:a:7:VAL:CG2	2.20	0.72
9:I:337:A:O2'	9:I:338:C:H5'	1.90	0.72
9:I:716:U:H2'	9:I:733:G:O4'	1.89	0.72
9:I:1474:U:O4	9:I:4333:G:O6	2.08	0.72
9:I:1577:G:H5'	48:x:54:THR:CG2	2.19	0.72
9:I:1762:A:H5''	9:I:1763:G:OP2	1.90	0.72
9:I:2141:U:H3'	9:I:2142:U:C6	2.25	0.72
9:I:2146:U:C5'	9:I:2147:G:H5''	2.20	0.72
9:I:2743:U:O2'	9:I:2744:G:O5'	2.07	0.72
9:I:3059:C:O3'	9:I:3060:A:H2'	1.90	0.72
9:I:3335:U:H2'	9:I:3336:G:H8	1.54	0.72
9:I:3827:A:O5'	46:v:65:LYS:NZ	2.22	0.72
9:I:4173:A:H4'	12:L:194:PRO:HD3	1.72	0.72
9:I:4240:U:O4'	15:O:138:GLN:HA	1.90	0.72
9:I:4245:G:P	15:O:2:ARG:HH21	2.13	0.72
10:J:5:G:O2'	10:J:6:G:H5'	1.89	0.72
12:L:38:LYS:HD2	12:L:81:GLU:CD	2.14	0.72
12:L:68:PHE:HD1	12:L:73:VAL:HG13	1.54	0.72
17:S:71:ARG:HB3	17:S:72:PRO:CD	2.20	0.72
18:T:82:LEU:CD1	18:T:118:THR:HG22	2.20	0.72
18:T:83:ALA:CA	18:T:118:THR:HB	2.20	0.72
19:U:133:LYS:HZ1	19:U:135:VAL:HG22	1.55	0.72
21:W:6:MET:HG2	21:W:40:LEU:HD22	1.70	0.72
27:c:28:SER:HB2	27:c:58:LEU:HB3	1.71	0.72
28:d:28:ASN:ND2	28:d:64:VAL:O	2.20	0.72
28:d:41:ALA:O	28:d:44:VAL:HG12	1.90	0.72
4:D:15:GLU:O	4:D:16:LYS:HB2	1.90	0.71
6:F:13:LEU:HD22	6:F:33:SER:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:72:ARG:HE	9:I:258:G:H5''	1.55	0.71
9:I:122:U:H1'	9:I:289:C:O2'	1.90	0.71
9:I:186:G:N2	9:I:188:A:H5''	2.05	0.71
9:I:212:G:H2'	9:I:213:C:O4'	1.90	0.71
9:I:312:A:H2'	9:I:313:C:C5	2.24	0.71
9:I:863:A:H5''	24:Z:81:THR:HG23	1.71	0.71
9:I:1115:U:H2'	9:I:1116:A:C8	2.25	0.71
9:I:1480:U:N3	33:i:48:TYR:OH	2.19	0.71
9:I:1577:G:H2'	9:I:1578:U:O4'	1.89	0.71
9:I:1825:G:H2'	9:I:1826:G:C8	2.25	0.71
9:I:1836:C:OP2	44:t:3:LYS:NZ	2.22	0.71
9:I:2022:A:H2'	9:I:2023:C:C6	2.25	0.71
9:I:3298:C:H2'	9:I:3299:A:H8	1.53	0.71
9:I:3383:A:H2'	9:I:3384:A:O4'	1.90	0.71
9:I:3490:C:OP2	17:S:31:ARG:NH2	2.22	0.71
9:I:3803:A:H2'	9:I:3804:C:H5'	1.72	0.71
9:I:3824:G:H22	9:I:3830:A:H2	1.36	0.71
9:I:3909:G:H2'	9:I:3910:C:H6	1.55	0.71
9:I:4183:U:OP2	9:I:4213:G:N2	2.22	0.71
9:I:4238:G:H4'	15:O:148:ARG:HH21	1.54	0.71
10:J:28:A:N7	38:n:32:ARG:NH2	2.38	0.71
11:K:140:VAL:CG2	11:K:191:LEU:HD22	2.19	0.71
12:L:25:THR:HG21	12:L:193:VAL:CG1	2.20	0.71
12:L:194:PRO:C	12:L:201:LEU:HD11	2.14	0.71
13:M:112:LEU:CB	13:M:118:LEU:HD21	2.19	0.71
13:M:124:PHE:CD2	13:M:148:ILE:HG21	2.25	0.71
17:S:38:ILE:HG23	17:S:60:ALA:O	1.89	0.71
18:T:133:ALA:O	18:T:136:GLU:HB2	1.90	0.71
21:W:108:ILE:HG21	21:W:151:MET:HE1	1.70	0.71
22:X:178:ARG:HB3	22:X:205:GLU:O	1.90	0.71
24:Z:11:ARG:HA	24:Z:23:SER:O	1.90	0.71
26:b:139:ASP:HA	26:b:142:ARG:NH1	2.04	0.71
30:f:40:PHE:CA	30:f:44:ARG:HG3	2.20	0.71
31:g:65:TYR:O	31:g:96:THR:N	2.23	0.71
37:m:4:ARG:HG2	37:m:35:GLN:HE21	1.55	0.71
39:o:25:VAL:HB	39:o:60:VAL:HG22	1.72	0.71
40:p:97:ILE:O	40:p:104:ALA:HB3	1.90	0.71
7:G:16:ARG:HD2	9:I:1435:U:OP1	1.90	0.71
9:I:170:A:H2'	9:I:171:A:C8	2.25	0.71
9:I:274:G:N2	9:I:275:G:H1'	2.05	0.71
9:I:1300:U:H3'	9:I:1301:C:H5''	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1306:U:H2'	9:I:1307:U:C6	2.25	0.71
9:I:1426:C:H2'	9:I:1427:A:H8	1.54	0.71
9:I:1642:A:O4'	43:s:1:MET:HG3	1.89	0.71
9:I:2193:A:P	11:K:38:LYS:HD2	2.30	0.71
9:I:2204:G:O3'	9:I:2226:G:N2	2.22	0.71
9:I:2356:G:H2'	9:I:2357:G:N7	2.05	0.71
9:I:2789:C:H2'	9:I:2790:G:H8	1.55	0.71
9:I:2992:C:OP2	9:I:2992:C:H3'	1.90	0.71
9:I:3001:C:H2'	9:I:3002:A:O4'	1.89	0.71
9:I:3384:A:H2'	9:I:3385:G:C8	2.24	0.71
9:I:3401:G:N1	9:I:3417:U:N3	2.11	0.71
9:I:3587:G:O6	9:I:3719:A:H5''	1.89	0.71
12:L:64:GLU:HA	12:L:67:HIS:HB2	1.71	0.71
13:M:121:VAL:HG21	13:M:187:VAL:HG12	1.72	0.71
14:N:111:ARG:HH22	14:N:131:VAL:HA	1.54	0.71
17:S:23:LYS:N	17:S:40:LYS:O	2.22	0.71
20:V:94:TYR:O	20:V:116:VAL:N	2.22	0.71
30:f:11:ILE:HG23	30:f:20:VAL:HG22	1.71	0.71
39:o:6:GLN:HA	39:o:9:GLN:OE1	1.89	0.71
43:s:18:GLU:N	43:s:21:SER:HB2	2.03	0.71
44:t:43:LYS:O	44:t:58:VAL:N	2.23	0.71
4:D:73:VAL:HG12	4:D:74:ARG:HG3	1.73	0.71
5:E:42:ARG:H	9:I:733:G:N2	1.88	0.71
9:I:663:G:H1'	9:I:725:C:C5'	2.19	0.71
9:I:720:G:H4'	9:I:721:G:C5'	2.19	0.71
9:I:1018:A:O2'	9:I:1019:G:H5'	1.90	0.71
9:I:1355:G:H2'	9:I:1356:A:C8	2.25	0.71
9:I:1829:G:C8	44:t:15:GLY:CA	2.74	0.71
9:I:2357:G:C5'	46:v:59:PHE:HB3	2.18	0.71
9:I:2482:A:P	49:y:10:ARG:HE	2.14	0.71
9:I:2901:G:H2'	9:I:2902:G:C8	2.25	0.71
9:I:2920:G:C8	9:I:2921:A:H2'	2.25	0.71
9:I:3121:G:H2'	9:I:3122:G:H5'	1.72	0.71
9:I:3869:G:H21	9:I:3872:A:H62	1.38	0.71
9:I:4179:G:P	39:o:72:VAL:HG21	2.30	0.71
9:I:4201:U:C3'	9:I:4202:G:H8	2.02	0.71
9:I:4243:A:H8	9:I:4243:A:O5'	1.72	0.71
10:J:80:G:H2'	10:J:81:U:O4'	1.89	0.71
11:K:141:HIS:HB2	11:K:153:LEU:O	1.90	0.71
12:L:186:LEU:CD1	39:o:7:LEU:HD11	2.20	0.71
13:M:131:THR:HB	13:M:163:ASN:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:96:ILE:HA	19:U:100:LYS:HD3	1.72	0.71
22:X:41:TYR:CZ	22:X:89:VAL:HG21	2.24	0.71
30:f:40:PHE:HB3	30:f:44:ARG:HG3	1.71	0.71
37:m:7:VAL:HG12	37:m:35:GLN:CD	2.16	0.71
39:o:12:MET:HG3	39:o:76:HIS:ND1	2.04	0.71
41:q:25:LEU:CB	41:q:94:THR:HG21	2.19	0.71
42:r:56:ALA:HA	42:r:59:GLU:CB	2.21	0.71
43:s:25:GLU:CG	43:s:26:LYS:HG2	2.20	0.71
43:s:64:LYS:HA	43:s:79:ASP:CG	2.15	0.71
43:s:82:LYS:HD3	43:s:84:TYR:CE1	2.25	0.71
1:A:20:PHE:CB	1:A:56:PRO:HD3	2.21	0.71
1:A:84:ARG:NH1	29:e:50:SER:HA	2.05	0.71
9:I:588:U:C2	9:I:649:G:O6	2.43	0.71
9:I:725:C:N4	9:I:726:G:O6	2.23	0.71
9:I:750:U:H2'	9:I:751:G:C8	2.24	0.71
9:I:777:G:N2	9:I:803:U:O2	2.24	0.71
9:I:1005:G:H2'	9:I:1006:U:C6	2.25	0.71
9:I:1376:A:OP1	26:b:91:ARG:NH2	2.23	0.71
9:I:1421:G:H2'	9:I:1422:G:O4'	1.89	0.71
9:I:1690:A:H2'	9:I:1691:A:C8	2.26	0.71
9:I:2032:A:H2'	9:I:2032:A:N3	2.04	0.71
9:I:2048:G:OP1	9:I:2050:C:N4	2.23	0.71
9:I:2057:C:H2'	9:I:2058:U:C6	2.25	0.71
9:I:2163:G:O3'	18:T:17:LYS:NZ	2.23	0.71
9:I:2214:U:C1'	9:I:2217:C:H5	2.02	0.71
9:I:2489:C:H42	16:R:2:LYS:HA	1.53	0.71
9:I:2542:A:H2'	9:I:2542:A:N3	2.04	0.71
9:I:2659:A:H2'	9:I:2660:G:H8	1.55	0.71
9:I:2666:C:H2'	9:I:2667:U:H1'	1.72	0.71
9:I:2834:U:H4'	9:I:2835:G:OP2	1.90	0.71
9:I:3446:A:H5'	17:S:55:GLY:O	1.90	0.71
9:I:3838:U:H1'	9:I:3840:A:O2'	1.90	0.71
9:I:3924:A:H5'	9:I:3925:U:OP2	1.90	0.71
9:I:4018:G:H2'	9:I:4019:G:H5'	1.71	0.71
9:I:4194:A:H2'	9:I:4195:U:C6	2.26	0.71
9:I:4243:A:H5''	15:O:1:SER:CB	2.18	0.71
9:I:4282:C:O4'	9:I:4304:A:H1'	1.90	0.71
9:I:4428:C:H5''	30:f:110:ARG:HH12	1.54	0.71
11:K:76:VAL:N	11:K:94:LEU:O	2.22	0.71
12:L:178:VAL:HG21	12:L:190:LYS:N	2.04	0.71
12:L:186:LEU:HD13	39:o:7:LEU:HD11	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:196:VAL:CA	13:M:199:MET:HB2	2.15	0.71
14:N:49:LEU:HD21	14:N:66:ILE:HD12	1.71	0.71
15:O:67:ALA:HA	15:O:70:LEU:CB	2.13	0.71
16:R:106:LYS:HB2	16:R:119:PHE:HE1	1.55	0.71
17:S:5:GLN:HA	17:S:20:MET:HG2	1.71	0.71
18:T:4:ASN:OD1	18:T:5:THR:HG23	1.90	0.71
19:U:111:GLU:OE1	19:U:111:GLU:N	2.19	0.71
22:X:149:LYS:HB3	22:X:200:TRP:HB2	1.70	0.71
27:c:26:MET:O	27:c:58:LEU:HG	1.89	0.71
30:f:8:VAL:O	30:f:22:ILE:HA	1.89	0.71
31:g:2:THR:N	31:g:5:GLN:OE1	2.18	0.71
32:h:13:HIS:HB2	32:h:16:ILE:HD12	1.71	0.71
34:j:6:ILE:HG21	34:j:22:LYS:CB	2.20	0.71
43:s:39:THR:N	43:s:42:GLU:OE2	2.22	0.71
45:u:18:ARG:HA	45:u:21:ARG:HG3	1.72	0.71
46:v:60:GLU:OE2	46:v:71:SER:OG	2.08	0.71
5:E:1:GLU:OE2	5:E:32:TYR:HB3	1.90	0.71
9:I:467:A:H5'	9:I:468:C:H5	1.56	0.71
9:I:500:C:H2'	9:I:501:A:C8	2.25	0.71
9:I:506:C:OP2	9:I:507:U:O2'	2.09	0.71
9:I:729:G:H3'	9:I:730:G:H8	1.56	0.71
9:I:1089:U:O2'	9:I:1170:A:O2'	2.01	0.71
9:I:1257:G:H2'	9:I:1258:C:H6	1.54	0.71
9:I:1325:U:H2'	9:I:1326:C:H6	1.54	0.71
9:I:2841:A:C2'	9:I:2842:C:H5'	2.19	0.71
9:I:3038:A:H2'	9:I:3039:A:C8	2.24	0.71
9:I:3792:A:N6	9:I:3812:G:H1'	2.06	0.71
9:I:4215:A:OP1	9:I:4339:U:H1'	1.91	0.71
9:I:4242:A:H1'	15:O:66:THR:CA	2.20	0.71
11:K:107:LYS:CA	11:K:195:GLY:HA3	2.20	0.71
11:K:260:LYS:HA	11:K:263:ASP:HB2	1.70	0.71
12:L:5:VAL:HG13	12:L:201:LEU:O	1.91	0.71
12:L:38:LYS:NZ	12:L:81:GLU:OE2	2.18	0.71
12:L:39:ASP:CA	12:L:46:ARG:HG2	2.21	0.71
13:M:112:LEU:HB3	13:M:118:LEU:HD21	1.72	0.71
16:R:125:TYR:OH	16:R:132:HIS:NE2	2.14	0.71
18:T:79:LEU:CD1	18:T:112:LEU:HD12	2.21	0.71
18:T:110:VAL:HB	18:T:127:VAL:CG2	2.21	0.71
20:V:40:LYS:C	20:V:44:LEU:HG	2.15	0.71
21:W:174:ASN:OD1	21:W:180:VAL:HG21	1.91	0.71
22:X:133:MET:CE	22:X:152:VAL:HG13	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:e:22:VAL:HG13	29:e:32:VAL:CG1	2.21	0.71
30:f:16:ASN:C	30:f:46:SER:HB3	2.15	0.71
35:k:1:MET:O	35:k:3:ARG:HD2	1.90	0.71
40:p:74:SER:OG	40:p:77:LYS:N	2.19	0.71
43:s:55:VAL:N	43:s:88:LYS:HG2	2.05	0.71
46:v:16:PHE:C	46:v:57:VAL:HB	2.15	0.71
1:A:20:PHE:HB2	1:A:54:SER:O	1.91	0.71
3:C:26:ASN:O	9:I:109:C:H5''	1.89	0.71
4:D:16:LYS:N	9:I:273:A:OP2	2.15	0.71
6:F:41:ASN:OD1	6:F:42:MET:HG2	1.91	0.71
9:I:483:G:H4'	9:I:484:U:O5'	1.90	0.71
9:I:554:U:H2'	9:I:555:C:C6	2.26	0.71
9:I:704:G:H1	30:f:32:TRP:CG	2.08	0.71
9:I:936:A:H1'	9:I:1377:C:N4	2.06	0.71
9:I:1146:C:H4'	28:d:4:TYR:CE2	2.26	0.71
9:I:1444:U:C2	9:I:4361:G:O6	2.44	0.71
9:I:1563:A:O2'	9:I:1564:A:O4'	2.09	0.71
9:I:2106:U:OP2	13:M:99:LYS:NZ	2.23	0.71
9:I:2348:C:H3'	9:I:2349:A:H8	1.56	0.71
9:I:2406:C:H2'	9:I:2407:U:C5'	2.20	0.71
9:I:2823:U:H3'	9:I:2824:C:H5'	1.72	0.71
9:I:2997:A:H2'	9:I:2997:A:N3	2.04	0.71
9:I:3226:C:OP1	9:I:3226:C:H2'	1.91	0.71
9:I:3312:U:O5'	11:K:155:ARG:HB3	1.91	0.71
9:I:3599:U:H3	9:I:3678:A:H61	1.36	0.71
9:I:3722:G:H2'	9:I:3723:U:H6	1.52	0.71
9:I:3788:G:H2'	9:I:3789:C:C5'	2.20	0.71
9:I:3963:A:N6	9:I:3975:G:H1'	2.05	0.71
9:I:3972:A:H5'	37:m:32:LYS:CE	2.19	0.71
9:I:4331:A:H2'	9:I:4332:G:C1'	2.19	0.71
10:J:25:C:H2'	10:J:26:C:O4'	1.91	0.71
10:J:95:G:H5''	10:J:96:C:OP2	1.91	0.71
15:O:51:PHE:O	15:O:61:TRP:CZ3	2.43	0.71
15:O:85:LYS:HE3	15:O:164:ALA:HB3	1.72	0.71
16:R:47:HIS:CE1	16:R:48:VAL:HG23	2.26	0.71
18:T:92:LEU:HD11	18:T:105:ILE:HG23	1.71	0.71
23:Y:78:ALA:CB	23:Y:89:LEU:HB2	2.21	0.71
23:Y:90:LEU:HD11	23:Y:196:GLU:HB3	1.71	0.71
25:a:39:LEU:HD13	25:a:62:MET:HG3	1.72	0.71
34:j:6:ILE:HB	34:j:49:ALA:CA	2.20	0.71
39:o:36:LYS:HD3	39:o:37:LYS:N	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:75:TYR:CA	40:p:78:PHE:HB3	2.21	0.71
45:u:5:ASN:HD21	45:u:43:ASP:CB	2.02	0.71
45:u:27:PRO:HG2	45:u:88:HIS:CD2	2.25	0.71
1:A:84:ARG:CZ	9:I:1058:C:H2'	2.20	0.71
5:E:29:ARG:HD3	5:E:32:TYR:CE2	2.25	0.71
9:I:975:G:H1'	9:I:1362:A:N6	2.05	0.71
9:I:1022:U:H2'	9:I:1023:G:O4'	1.90	0.71
9:I:2070:G:H2'	9:I:3524:6MZ:N7	2.06	0.71
9:I:2148:G:H2'	9:I:2149:G:H8	1.53	0.71
9:I:2366:A:N6	9:I:2407:U:O4'	2.24	0.71
9:I:3313:A:H1'	9:I:3315:A:C6	2.25	0.71
9:I:3329:2MG:H1'	9:I:3425:U:H1'	1.72	0.71
9:I:3410:A:H2'	9:I:3411:PSU:C6	2.25	0.71
9:I:3888:C:H2'	9:I:3889:C:H6	1.54	0.71
9:I:4288:C:H3'	9:I:4289:C:H6	1.54	0.71
9:I:4346:G:H2'	9:I:4347:G:H8	1.54	0.71
11:K:68:ARG:NE	11:K:128:THR:HG21	2.04	0.71
14:N:66:ILE:CG2	14:N:83:PRO:HB3	2.17	0.71
15:O:41:GLU:HA	15:O:54:ARG:HH21	1.52	0.71
16:R:17:VAL:HG13	16:R:55:ILE:HG22	1.70	0.71
19:U:18:ARG:O	19:U:97:GLN:NE2	2.23	0.71
26:b:70:PRO:HG3	26:b:98:LEU:HB2	1.70	0.71
26:b:115:MET:O	26:b:119:LEU:N	2.21	0.71
28:d:113:VAL:HG21	29:e:58:ARG:HD2	1.72	0.71
33:i:11:LYS:HE2	33:i:14:MET:CE	2.21	0.71
37:m:8:LYS:O	37:m:16:ILE:HD11	1.90	0.71
43:s:54:GLU:CG	43:s:88:LYS:HG3	2.20	0.71
46:v:5:ASP:OD1	46:v:6:SER:N	2.21	0.71
2:B:60:SER:O	2:B:64:LYS:HG3	1.91	0.71
9:I:735:C:H5'	25:a:90:MET:SD	2.31	0.71
9:I:790:G:N2	9:I:4401:G:H4'	2.04	0.71
9:I:926:G:O6	9:I:1389:U:O4	2.09	0.71
9:I:1576:C:O2'	48:x:51:ARG:HA	1.89	0.71
9:I:2364:G:OP1	10:J:100:A:O2'	2.09	0.71
9:I:2567:A:O2'	9:I:3968:U:H5'	1.90	0.71
9:I:2832:G:O3'	43:s:17:SER:HB2	1.91	0.71
9:I:2845:C:H2'	9:I:2846:U:H6	1.56	0.71
9:I:2934:U:H2'	9:I:2935:G:C8	2.25	0.71
9:I:3309:A:H4'	9:I:3310:C:OP1	1.89	0.71
9:I:3587:G:C5	9:I:3719:A:H2'	2.26	0.71
9:I:3760:A:H5''	9:I:3761:A:H5'	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4131:U:H5'	12:L:45:TYR:CE2	2.26	0.71
9:I:4142:G:N2	9:I:4167:G:H1'	2.06	0.71
9:I:4169:A:H2'	9:I:4170:C:O4'	1.90	0.71
11:K:2:VAL:HG13	11:K:17:LYS:C	2.15	0.71
11:K:64:VAL:HG21	11:K:86:ARG:NE	2.02	0.71
11:K:140:VAL:HG22	11:K:191:LEU:HA	1.73	0.71
11:K:176:ARG:NH1	11:K:176:ARG:O	2.23	0.71
12:L:34:VAL:CG2	12:L:50:VAL:HG12	2.19	0.71
12:L:46:ARG:NH2	12:L:89:GLU:HG2	2.04	0.71
12:L:106:LYS:HD3	12:L:174:SER:C	2.15	0.71
15:O:49:LEU:HD12	15:O:71:LEU:HD21	1.72	0.71
15:O:136:ASP:HB3	15:O:139:VAL:HB	1.71	0.71
16:R:14:ASP:O	16:R:53:TYR:N	2.20	0.71
23:Y:71:PHE:CD1	23:Y:93:LEU:HD21	2.26	0.71
25:a:36:ILE:CD1	25:a:39:LEU:HB2	2.18	0.71
26:b:96:ASN:CG	26:b:100:MET:HE2	2.15	0.71
30:f:11:ILE:HG13	30:f:20:VAL:CG1	2.20	0.71
31:g:51:VAL:HG23	31:g:64:SER:O	1.90	0.71
37:m:13:ASN:HB2	37:m:29:ALA:HB2	1.73	0.71
38:n:87:LYS:O	38:n:114:LEU:HA	1.91	0.71
39:o:12:MET:HE3	39:o:76:HIS:NE2	2.05	0.71
40:p:73:ILE:CD1	40:p:113:LYS:HG3	2.12	0.71
41:q:64:VAL:HG23	41:q:97:LYS:N	2.05	0.71
46:v:56:LYS:HB2	46:v:75:GLU:OE1	1.90	0.71
2:B:88:ARG:NH2	9:I:2214:U:OP2	2.22	0.71
4:D:14:MET:HB2	9:I:272:U:C2	2.25	0.71
9:I:15:A:O4'	24:Z:13:SER:OG	2.08	0.71
9:I:515:PSU:H2'	9:I:516:G:C8	2.26	0.71
9:I:1611:A:H4'	48:x:58:GLU:HB2	1.72	0.71
9:I:2065:C:H2'	9:I:2066:U:H6	1.55	0.71
9:I:2237:C:O2'	9:I:2238:G:H5'	1.91	0.71
9:I:2535:G:H2'	9:I:2536:G:C8	2.25	0.71
9:I:2647:C:P	40:p:79:ILE:HG21	2.30	0.71
9:I:2848:A:H62	9:I:2871:G:N2	1.87	0.71
9:I:3292:U:O5'	11:K:269:ARG:NH2	2.24	0.71
9:I:3315:A:OP2	9:I:3315:A:H3'	1.89	0.71
9:I:3611:A:O2'	9:I:3613:A:OP2	2.06	0.71
9:I:3753:U:H1'	9:I:3921:C:N3	2.06	0.71
9:I:3896:U:H1'	9:I:3898:U:C6	2.24	0.71
9:I:4316:G:H1	20:V:2:ARG:HH21	1.37	0.71
9:I:4418:G:O2'	9:I:4419:G:H5'	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:63:ILE:HG21	11:K:101:ARG:HH22	1.55	0.71
11:K:209:ALA:HA	11:K:212:TRP:CH2	2.25	0.71
12:L:33:ARG:O	12:L:50:VAL:HA	1.90	0.71
13:M:1:MET:HE1	13:M:16:GLU:HA	1.72	0.71
14:N:45:ASP:OD2	14:N:48:LEU:HD22	1.91	0.71
20:V:22:ARG:CD	20:V:69:ARG:HG3	2.21	0.71
20:V:36:THR:CG2	20:V:41:ALA:HB2	2.21	0.71
21:W:7:LEU:CD1	21:W:40:LEU:HD11	2.19	0.71
23:Y:49:ASP:O	23:Y:52:VAL:HG22	1.90	0.71
24:Z:131:THR:O	24:Z:135:LEU:HG	1.91	0.71
26:b:102:TRP:O	26:b:136:LYS:NZ	2.23	0.71
27:c:16:GLY:HA2	27:c:21:LYS:CE	2.21	0.71
28:d:52:VAL:CG2	28:d:84:LEU:HD23	2.20	0.71
29:e:21:ILE:HD12	29:e:83:LEU:HD21	1.72	0.71
29:e:21:ILE:CD1	29:e:83:LEU:HD21	2.21	0.71
38:n:14:ARG:HH21	38:n:26:VAL:HG21	1.56	0.71
38:n:17:LEU:HD23	38:n:24:ARG:CD	2.20	0.71
38:n:34:ILE:O	38:n:51:SER:OG	2.05	0.71
46:v:14:LYS:HG3	46:v:26:ILE:HG22	1.72	0.71
1:A:3:GLN:HG3	9:I:1214:G:O2'	1.91	0.71
2:B:25:GLU:OE1	2:B:25:GLU:N	2.23	0.71
2:B:66:LEU:CD2	2:B:81:ILE:HG22	2.21	0.71
4:D:17:SER:N	9:I:272:U:O3'	2.22	0.71
9:I:376:G:H2'	9:I:377:G:C8	2.25	0.71
9:I:676:U:H1'	30:f:109:CYS:SG	2.31	0.71
9:I:859:A:H61	9:I:868:G:H1'	1.55	0.71
9:I:1260:A:H3'	9:I:1261:C:C6	2.26	0.71
9:I:1847:A:H2'	9:I:1848:A:N9	2.05	0.71
9:I:2224:U:O2'	9:I:2225:G:H5'	1.90	0.71
9:I:2483:G:C8	49:y:13:ILE:HD12	2.26	0.71
9:I:2497:G:H2'	9:I:2498:U:C6	2.26	0.71
9:I:2521:A:H2'	9:I:2620:A:C6	2.26	0.71
9:I:2550:G:O2'	9:I:2580:A:H1'	1.91	0.71
9:I:2578:A:H2'	9:I:2579:A:N7	2.06	0.71
9:I:2840:G:H2'	9:I:2841:A:O4'	1.89	0.71
9:I:3373:C:H2'	9:I:3374:U:H6	1.54	0.71
9:I:3587:G:C2'	9:I:3692:A:H61	2.03	0.71
9:I:3696:U:O2'	9:I:3698:G:OP2	2.06	0.71
9:I:3838:U:H1'	9:I:3840:A:H2'	1.72	0.71
9:I:4024:A:H5''	15:O:174:LYS:HG2	1.72	0.71
9:I:4308:A:H3'	9:I:4309:C:C5	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:28:VAL:HG22	13:M:108:ILE:HG22	1.73	0.71
14:N:19:PHE:HB2	14:N:21:TYR:CE1	2.25	0.71
14:N:37:MET:HA	14:N:151:LEU:CA	2.20	0.71
14:N:133:GLU:OE1	14:N:148:VAL:HG13	1.91	0.71
15:O:23:ILE:O	15:O:33:THR:HG23	1.90	0.71
18:T:132:ARG:HH12	18:T:142:ILE:CG2	2.03	0.71
24:Z:2:LEU:HB3	24:Z:4:GLU:OE2	1.91	0.71
24:Z:72:LEU:CG	24:Z:138:MET:HE2	2.21	0.71
27:c:103:VAL:CB	27:c:124:ILE:HD13	2.21	0.71
31:g:109:ARG:HB2	31:g:118:VAL:HG21	1.71	0.71
35:k:25:LYS:HD2	35:k:26:ASN:N	2.05	0.71
38:n:17:LEU:O	38:n:21:GLY:HA2	1.91	0.71
39:o:27:VAL:HG22	39:o:58:PHE:HZ	1.53	0.71
44:t:64:ILE:CG2	44:t:69:VAL:HG11	2.21	0.71
45:u:9:ARG:HB2	45:u:39:ALA:HB3	1.73	0.71
45:u:42:LEU:HB2	45:u:47:VAL:HG22	1.72	0.71
4:D:14:MET:HE3	9:I:274:G:H1'	1.73	0.70
4:D:40:LYS:HB2	9:I:276:C:P	2.31	0.70
6:F:13:LEU:HD23	6:F:36:SER:CB	2.20	0.70
9:I:618:U:C2'	9:I:619:C:H5'	2.20	0.70
9:I:676:U:H2'	9:I:677:U:H5'	1.73	0.70
9:I:1433:A:H2'	9:I:1434:G:O4'	1.91	0.70
9:I:1605:C:H2'	9:I:1606:C:C6	2.25	0.70
9:I:1777:G:H2'	9:I:1861:G:C6	2.26	0.70
9:I:1788:U:O4	9:I:1852:A:N6	2.24	0.70
9:I:2044:C:H2'	9:I:2045:U:C6	2.26	0.70
9:I:2531:G:H2'	9:I:2532:G:H8	1.55	0.70
9:I:2536:G:N1	9:I:2607:U:C2	2.56	0.70
9:I:2859:A:OP2	47:w:1:SER:HB2	1.90	0.70
9:I:2951:U:H5''	9:I:2952:U:OP1	1.90	0.70
9:I:2994:G:C3'	9:I:2995:G:H8	2.02	0.70
9:I:3049:G:H3'	9:I:3050:C:H6	1.55	0.70
9:I:3059:C:C4	11:K:25:LYS:HB3	2.24	0.70
9:I:3093:U:OP1	43:s:39:THR:OG1	2.09	0.70
9:I:3284:C:H2'	9:I:3285:A:H8	1.53	0.70
9:I:3702:C:H2'	9:I:3703:G:C8	2.26	0.70
9:I:3805:A:H5'	14:N:76:PHE:HE2	1.55	0.70
9:I:3960:C:C5'	37:m:6:SER:HB2	2.21	0.70
9:I:4022:U:H3'	9:I:4024:A:N7	2.05	0.70
9:I:4024:A:N7	15:O:171:LYS:NZ	2.39	0.70
9:I:4069:C:H5''	9:I:4070:G:OP2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4153:G:O2'	9:I:4156:A:N6	2.24	0.70
9:I:4278:U:H4'	12:L:42:ASN:OD1	1.90	0.70
10:J:42:C:H2'	10:J:43:G:H5'	1.72	0.70
11:K:3:VAL:HG13	11:K:19:VAL:CG2	2.19	0.70
13:M:159:LEU:O	13:M:162:ARG:N	2.21	0.70
13:M:170:ARG:NH2	13:M:176:ASP:H	1.88	0.70
14:N:52:ALA:HB2	14:N:149:ARG:CD	2.21	0.70
16:R:18:VAL:HB	16:R:56:VAL:HG13	1.72	0.70
16:R:55:ILE:HG13	16:R:123:LYS:CB	2.21	0.70
22:X:11:LEU:HA	22:X:15:LYS:O	1.91	0.70
23:Y:48:SER:O	23:Y:52:VAL:N	2.20	0.70
24:Z:11:ARG:HB2	24:Z:24:PHE:CE2	2.26	0.70
31:g:2:THR:O	31:g:5:GLN:HB2	1.91	0.70
32:h:38:ILE:CG1	32:h:55:LEU:HD11	2.21	0.70
41:q:4:VAL:HG22	41:q:13:ARG:HB2	1.71	0.70
43:s:67:VAL:C	43:s:68:LYS:HD3	2.16	0.70
44:t:85:ARG:HG3	44:t:94:PHE:CE2	2.26	0.70
44:t:93:ARG:NH2	44:t:102:ILE:HG21	2.05	0.70
45:u:72:VAL:HA	45:u:92:VAL:O	1.91	0.70
45:u:80:HIS:CD2	45:u:83:LYS:HE2	2.26	0.70
9:I:8:G:H4'	24:Z:100:GLY:H	1.55	0.70
9:I:696:U:C1'	9:I:784:G:H21	2.01	0.70
9:I:978:C:O2'	9:I:1219:G:OP2	2.08	0.70
9:I:986:G:H22	9:I:1014:G:H22	1.39	0.70
9:I:993:A:H1'	9:I:1215:A:O2'	1.91	0.70
9:I:1260:A:O2'	9:I:1282:U:OP1	2.09	0.70
9:I:1485:C:N4	9:I:1486:G:O6	2.24	0.70
9:I:1636:G:O2'	9:I:1637:U:O4'	2.08	0.70
9:I:1798:G:N1	9:I:1839:U:OP2	2.13	0.70
9:I:2038:A:O3'	16:R:7:LYS:HE3	1.90	0.70
9:I:2147:G:O2'	9:I:2148:G:OP1	2.08	0.70
9:I:2204:G:O2'	9:I:2226:G:N1	2.23	0.70
9:I:2261:A:H5''	9:I:2262:U:OP1	1.90	0.70
9:I:2450:G:H4'	19:U:82:MET:HE1	1.72	0.70
9:I:2530:G:N1	9:I:2613:U:N3	2.39	0.70
9:I:2616:G:H2'	9:I:2617:C:O4'	1.90	0.70
9:I:3146:A:H5''	9:I:3147:G:OP2	1.88	0.70
9:I:3683:U:H2'	9:I:3684:G:H8	1.54	0.70
9:I:4131:U:H2'	9:I:4132:G:O4'	1.90	0.70
9:I:4228:A:H61	9:I:4264:G:C2'	2.05	0.70
9:I:4229:G:O6	9:I:4263:U:O4	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:4:U:OP2	10:J:60:G:H1'	1.91	0.70
10:J:33:A:H2'	10:J:43:G:C6	2.25	0.70
10:J:35:C:N4	10:J:48:C:H1'	2.07	0.70
11:K:153:LEU:HG	11:K:175:LEU:HD22	1.73	0.70
11:K:235:GLU:O	11:K:235:GLU:HG3	1.91	0.70
13:M:119:ILE:O	13:M:187:VAL:HA	1.91	0.70
13:M:129:PRO:HB2	13:M:159:LEU:CB	2.17	0.70
14:N:35:LEU:CB	14:N:153:ILE:HD12	2.21	0.70
17:S:38:ILE:HD11	17:S:112:PHE:CZ	2.26	0.70
18:T:82:LEU:CD1	18:T:116:VAL:HG23	2.21	0.70
23:Y:60:VAL:HA	23:Y:63:ILE:CD1	2.20	0.70
28:d:4:TYR:HE1	28:d:15:ARG:HA	1.54	0.70
35:k:44:VAL:HG13	35:k:45:SER:H	1.55	0.70
40:p:53:LYS:HA	40:p:57:ARG:CZ	2.21	0.70
46:v:30:GLN:CB	46:v:34:LYS:HB2	2.21	0.70
47:w:68:ALA:O	47:w:71:ARG:HG3	1.90	0.70
1:A:65:GLN:OE1	9:I:1202:C:H4'	1.91	0.70
1:A:89:ARG:HH11	9:I:1057:G:H1'	1.55	0.70
7:G:33:VAL:HG22	7:G:49:PHE:N	2.06	0.70
9:I:49:A:H4'	9:I:51:C:H5''	1.72	0.70
9:I:203:G:H2'	9:I:204:A:O4'	1.91	0.70
9:I:924:G:H1	9:I:1390:U:H3	0.75	0.70
9:I:1713:A:O2'	9:I:1714:G:H5'	1.91	0.70
9:I:1836:C:H3'	44:t:3:LYS:NZ	2.06	0.70
9:I:2224:U:H2'	9:I:2225:G:O4'	1.91	0.70
9:I:2507:C:H2'	9:I:2508:A:H5'	1.71	0.70
9:I:2855:G:H2'	9:I:2856:C:C6	2.27	0.70
9:I:3797:G:C4'	14:N:122:ASP:H	2.03	0.70
9:I:4242:A:H5'	9:I:4246:C:OP2	1.90	0.70
11:K:244:VAL:HG12	11:K:250:GLN:HB3	1.73	0.70
11:K:250:GLN:O	11:K:254:LYS:CD	2.39	0.70
14:N:131:VAL:HG21	14:N:137:PHE:CE1	2.25	0.70
15:O:36:LEU:HD11	15:O:40:VAL:CG1	2.17	0.70
16:R:17:VAL:HG22	16:R:55:ILE:HB	1.72	0.70
16:R:17:VAL:O	16:R:139:VAL:HG13	1.90	0.70
19:U:30:SER:OG	19:U:106:ASP:HB2	1.90	0.70
20:V:63:ARG:HA	20:V:80:PHE:HZ	1.55	0.70
21:W:184:VAL:CG1	21:W:188:SER:HB2	2.21	0.70
22:X:68:HIS:HA	22:X:103:ALA:HB3	1.73	0.70
34:j:5:LYS:HA	34:j:21:THR:HA	1.74	0.70
38:n:16:LYS:HB2	38:n:24:ARG:HH21	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:t:9:GLU:HG2	44:t:72:PHE:HB3	1.73	0.70
47:w:39:VAL:HG22	47:w:44:ARG:O	1.91	0.70
1:A:63:CYS:HB3	1:A:67:GLY:N	2.06	0.70
2:B:38:LEU:HB3	2:B:42:PHE:CD2	2.27	0.70
9:I:237:A:H2'	9:I:238:U:C6	2.26	0.70
9:I:377:G:H2'	9:I:378:C:H6	1.54	0.70
9:I:530:U:H4'	9:I:531:A:H4'	1.73	0.70
9:I:663:G:H2'	9:I:665:G:P	2.32	0.70
9:I:1679:C:O2'	9:I:1680:G:H5'	1.91	0.70
9:I:1797:G:N1	9:I:1841:C:N3	2.39	0.70
9:I:2402:C:N3	9:I:2403:A:N6	2.38	0.70
9:I:2534:A:H2'	9:I:2535:G:C8	2.25	0.70
9:I:2749:U:C5	13:M:68:ALA:HA	2.26	0.70
9:I:2983:C:O2'	9:I:2984:A:H2'	1.90	0.70
9:I:3009:A:H3'	9:I:3010:G:O4'	1.91	0.70
9:I:3313:A:H3'	11:K:176:ARG:HG2	1.71	0.70
9:I:3339:G:H2'	9:I:3340:G:H5'	1.73	0.70
9:I:3347:A:N3	9:I:3727:U:O2'	2.19	0.70
9:I:3416:G:O2'	9:I:3417:U:H5'	1.91	0.70
9:I:3715:G:H2'	9:I:3716:C:C6	2.26	0.70
9:I:3753:U:H1'	9:I:3921:C:C2	2.25	0.70
9:I:3898:U:O4	9:I:3907:G:O6	2.10	0.70
9:I:3952:G:N3	9:I:3984:G:N2	2.39	0.70
9:I:4006:C:H2'	9:I:4007:A:O4'	1.91	0.70
9:I:4135:G:H2'	9:I:4136:G:C8	2.26	0.70
10:J:41:C:H4'	14:N:63:LYS:CG	2.21	0.70
10:J:56:A:H1'	14:N:25:MET:C	2.16	0.70
11:K:250:GLN:O	11:K:254:LYS:HD3	1.91	0.70
14:N:24:VAL:HG13	14:N:25:MET:SD	2.32	0.70
16:R:88:THR:OG1	16:R:91:GLU:HG2	1.92	0.70
17:S:64:ARG:HE	17:S:83:ALA:CB	2.00	0.70
17:S:113:MET:HA	17:S:116:ILE:CG1	2.21	0.70
18:T:132:ARG:NH1	18:T:142:ILE:HG21	2.06	0.70
20:V:60:VAL:CA	20:V:63:ARG:HD2	2.19	0.70
20:V:72:ASP:OD1	20:V:74:GLU:N	2.14	0.70
23:Y:63:ILE:HG22	23:Y:64:TYR:CD1	2.26	0.70
23:Y:143:SER:HB3	23:Y:178:GLU:HG3	1.72	0.70
24:Z:11:ARG:HD3	24:Z:24:PHE:CZ	2.26	0.70
25:a:6:ILE:HD13	25:a:74:LEU:CD2	2.21	0.70
27:c:8:ASP:HB3	27:c:26:MET:CE	2.22	0.70
37:m:2:LYS:O	37:m:35:GLN:HA	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:o:4:ILE:HG12	39:o:7:LEU:CD1	2.21	0.70
39:o:27:VAL:HB	39:o:73:PHE:CZ	2.27	0.70
45:u:79:ARG:HD3	45:u:80:HIS:N	2.06	0.70
49:y:3:THR:OG1	49:y:36:GLU:HG2	1.91	0.70
5:E:45:TYR:HB2	9:I:672:A:H4'	1.73	0.70
9:I:222:A:H2'	9:I:223:U:C6	2.26	0.70
9:I:322:U:H2'	9:I:323:G:O4'	1.90	0.70
9:I:405:G:H21	23:Y:115:GLN:HE22	1.39	0.70
9:I:501:A:H2'	9:I:502:C:C6	2.27	0.70
9:I:780:A:C3'	9:I:781:A:H8	2.02	0.70
9:I:840:C:H5'	9:I:841:U:OP2	1.91	0.70
9:I:1011:A:H2'	9:I:1012:G:C8	2.27	0.70
9:I:1050:C:H2'	9:I:1051:U:H6	1.57	0.70
9:I:1137:G:C2'	9:I:1139:C:H5'	2.22	0.70
9:I:1471:C:H4'	39:o:1:SER:CB	2.21	0.70
9:I:2523:A:O2'	9:I:2524:C:H5'	1.91	0.70
9:I:2991:U:H3'	9:I:2992:C:C5	2.27	0.70
9:I:3017:U:H3'	9:I:3018:G:C8	2.27	0.70
9:I:3075:G:H2'	9:I:3076:C:C1'	2.20	0.70
9:I:3813:G:H4'	9:I:3814:U:OP1	1.89	0.70
9:I:3845:G:H1'	9:I:3861:G:C2	2.26	0.70
9:I:3911:C:H2'	34:j:16:HIS:CD2	2.27	0.70
9:I:3966:G:H21	9:I:3972:A:N6	1.89	0.70
11:K:129:LEU:N	11:K:129:LEU:HD23	2.06	0.70
11:K:143:VAL:HB	11:K:153:LEU:CB	2.19	0.70
12:L:6:GLY:H	12:L:27:ILE:HD11	1.55	0.70
12:L:64:GLU:HA	12:L:67:HIS:HB3	1.73	0.70
12:L:110:THR:HG22	12:L:169:ARG:HG3	1.72	0.70
13:M:137:LYS:HD2	13:M:137:LYS:N	2.06	0.70
13:M:148:ILE:HG12	13:M:168:ASP:O	1.91	0.70
13:M:157:LEU:HD11	13:M:169:VAL:CG1	2.22	0.70
19:U:126:ILE:HG13	19:U:128:THR:CG2	2.22	0.70
23:Y:3:TYR:CZ	23:Y:10:LEU:HD11	2.26	0.70
24:Z:60:ARG:HG3	24:Z:61:ASN:H	1.56	0.70
28:d:24:LYS:HE2	28:d:26:VAL:CG2	2.21	0.70
43:s:12:ARG:CG	43:s:33:LYS:HG2	2.21	0.70
45:u:89:ILE:HG22	45:u:91:PHE:CZ	2.27	0.70
46:v:40:ASN:CA	46:v:52:LYS:HB2	2.22	0.70
7:G:36:ALA:HB1	7:G:44:ALA:HB3	1.74	0.70
9:I:121:G:H2'	9:I:122:U:C6	2.27	0.70
9:I:781:A:H61	9:I:799:G:C2'	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:978:C:H2'	9:I:978:C:O2	1.92	0.70
9:I:1066:A:N6	9:I:1108:C:OP1	2.24	0.70
9:I:1083:G:OP2	9:I:1084:U:O2'	2.10	0.70
9:I:1172:U:H2'	9:I:1173:G:C8	2.26	0.70
9:I:1327:C:H5''	32:h:27:THR:CG2	2.21	0.70
9:I:1700:U:H2'	9:I:1886:G:H21	1.57	0.70
9:I:1855:U:H2'	9:I:1856:G:C5'	2.20	0.70
9:I:2135:C:H5''	18:T:129:LYS:HZ1	1.56	0.70
9:I:2136:G:P	18:T:129:LYS:H	2.14	0.70
9:I:2371:U:H2'	9:I:2372:U:C5	2.27	0.70
9:I:3249:A:H5''	9:I:3250:G:OP2	1.92	0.70
9:I:3286:G:P	11:K:204:LEU:HD23	2.31	0.70
9:I:3312:U:P	11:K:155:ARG:HD2	2.32	0.70
9:I:3938:G:OP1	13:M:63:LYS:HD2	1.90	0.70
9:I:3941:G:H2'	9:I:3994:U:OP2	1.90	0.70
9:I:4225:G:O2'	9:I:4226:G:O4'	2.10	0.70
9:I:4242:A:H4'	15:O:3:VAL:HG21	1.73	0.70
10:J:63:G:H2'	10:J:64:U:H5'	1.74	0.70
10:J:73:U:H1'	45:u:37:PRO:CG	2.22	0.70
12:L:4:LEU:O	12:L:203:VAL:HB	1.91	0.70
12:L:9:VAL:HG11	39:o:3:ILE:CB	2.22	0.70
12:L:109:VAL:HG13	12:L:201:LEU:HB2	1.72	0.70
13:M:16:GLU:HG2	13:M:21:ARG:NH1	2.07	0.70
13:M:168:ASP:OD1	13:M:169:VAL:N	2.24	0.70
16:R:15:TRP:O	16:R:137:PRO:HB3	1.91	0.70
20:V:86:ARG:NH2	20:V:117:ASP:HB3	2.07	0.70
21:W:64:ILE:HA	21:W:157:ALA:O	1.91	0.70
22:X:38:VAL:CG1	22:X:90:VAL:HG23	2.21	0.70
23:Y:173:ASP:O	23:Y:177:MET:N	2.24	0.70
23:Y:187:ARG:NH2	23:Y:196:GLU:OE1	2.24	0.70
24:Z:77:LYS:HG3	24:Z:86:PHE:CD1	2.20	0.70
24:Z:103:ARG:O	24:Z:107:GLU:HG2	1.92	0.70
29:e:6:LEU:HD12	29:e:68:ARG:HB2	1.74	0.70
44:t:50:ALA:O	44:t:51:LEU:HB2	1.91	0.70
47:w:31:ASN:N	47:w:51:SER:OG	2.25	0.70
1:A:66:THR:HB	9:I:1048:U:O4	1.91	0.70
3:C:60:TRP:HB3	3:C:65:ALA:CB	2.22	0.70
5:E:46:LEU:HG	25:a:86:ARG:CD	2.21	0.70
7:G:26:MET:SD	7:G:55:ILE:HG13	2.32	0.70
9:I:23:U:O2'	9:I:523:G:O2'	1.98	0.70
9:I:145:G:N2	9:I:176:G:H1'	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:631:U:C3'	9:I:632:G:H5'	2.19	0.70
9:I:691:U:N3	9:I:694:A:OP2	2.19	0.70
9:I:752:A:H5'	9:I:753:C:C2	2.26	0.70
9:I:936:A:C2	9:I:1376:A:H1'	2.27	0.70
9:I:947:C:O2'	9:I:948:A:H5'	1.92	0.70
9:I:1108:C:H2'	9:I:1109:A:C8	2.26	0.70
9:I:1226:A:O2'	32:h:114:PRO:HB2	1.90	0.70
9:I:1265:G:O2'	9:I:1267:G:O6	2.08	0.70
9:I:1427:A:C3'	9:I:1428:A:H5''	2.21	0.70
9:I:1837:C:OP1	44:t:1:ALA:HB1	1.90	0.70
9:I:2100:G:H2'	9:I:2101:C:H6	1.56	0.70
9:I:2340:C:O2'	9:I:2341:G:H5'	1.92	0.70
9:I:2646:C:H2'	9:I:2647:C:H6	1.56	0.70
9:I:3490:C:H4'	9:I:3491:C:OP1	1.91	0.70
9:I:3581:G:H2'	9:I:3582:A:H8	1.54	0.70
9:I:4161:C:C1'	15:O:108:PHE:HD1	2.03	0.70
10:J:12:G:H5'	10:J:14:A:N7	2.07	0.70
11:K:77:VAL:CG1	11:K:91:ALA:HB1	2.19	0.70
12:L:15:PHE:CD1	39:o:78:PRO:HD2	2.26	0.70
16:R:82:GLY:O	16:R:84:ILE:N	2.23	0.70
17:S:3:GLN:N	17:S:6:THR:OG1	2.23	0.70
18:T:94:THR:HA	18:T:97:ALA:CB	2.21	0.70
19:U:38:ARG:CG	19:U:98:PRO:HD3	2.21	0.70
24:Z:98:ALA:HB1	24:Z:102:MET:HE1	1.73	0.70
25:a:2:ARG:HD2	25:a:4:TYR:CZ	2.26	0.70
25:a:3:HIS:CB	25:a:92:THR:HG23	2.21	0.70
29:e:5:ARG:HH22	29:e:38:LEU:CB	2.04	0.70
31:g:49:ARG:HD2	31:g:65:TYR:OH	1.92	0.70
31:g:86:VAL:HG11	31:g:89:LEU:HD23	1.74	0.70
34:j:4:GLU:CG	34:j:24:LYS:HD3	2.22	0.70
36:l:3:ILE:HB	36:l:63:TYR:CE2	2.27	0.70
37:m:2:LYS:HG2	37:m:34:LYS:O	1.90	0.70
39:o:96:LEU:HB3	39:o:99:LEU:CG	2.16	0.70
40:p:59:LEU:CG	40:p:63:ARG:HG3	2.21	0.70
40:p:75:TYR:O	40:p:79:ILE:N	2.20	0.70
41:q:31:GLU:N	41:q:63:VAL:HB	2.07	0.70
47:w:68:ALA:HA	47:w:71:ARG:NH2	2.06	0.70
48:x:55:LEU:HB3	48:x:59:LYS:CE	2.16	0.70
1:A:57:SER:HB3	9:I:978:C:H42	1.56	0.70
4:D:15:GLU:HB3	9:I:272:U:OP1	1.92	0.70
8:H:28:LEU:HA	8:H:31:VAL:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:394:C:O2'	9:I:395:C:H5'	1.92	0.70
9:I:416:G:N2	9:I:539:G:O2'	2.25	0.70
9:I:862:U:H2'	9:I:864:A:OP2	1.91	0.70
9:I:981:U:H4'	9:I:982:A:C5'	2.21	0.70
9:I:1070:C:H2'	9:I:1071:G:C8	2.27	0.70
9:I:1445:A:HO2'	9:I:1446:A:C5'	2.04	0.70
9:I:1479:A:H3'	9:I:4326:U:C5	2.26	0.70
9:I:2104:G:C6	9:I:2125:G:N1	2.60	0.70
9:I:2127:A:H61	9:I:2137:A:C5'	2.04	0.70
9:I:2205:A:H2'	9:I:2206:A:C8	2.26	0.70
9:I:2205:A:P	9:I:2226:G:H22	2.15	0.70
9:I:2573:C:H2'	9:I:2573:C:O2	1.91	0.70
9:I:2622:G:O2'	9:I:2623:A:O4'	2.10	0.70
9:I:2919:G:H2'	9:I:2920:G:C8	2.25	0.70
9:I:3609:G:C2'	9:I:3610:G:H5''	2.22	0.70
9:I:3797:G:O2'	14:N:120:SER:HB2	1.92	0.70
9:I:3846:A:N6	9:I:3859:G:H21	1.80	0.70
9:I:3944:A:O2'	9:I:3945:A:H5'	1.92	0.70
9:I:4175:C:O4'	9:I:4176:A:C5	2.45	0.70
9:I:4178:U:H5''	39:o:72:VAL:HG12	1.73	0.70
11:K:15:VAL:HG22	11:K:205:GLY:CA	2.20	0.70
14:N:7:TYR:HE2	14:N:29:ARG:HD2	1.55	0.70
14:N:90:LEU:CD1	14:N:98:PHE:HB2	2.22	0.70
14:N:127:TYR:O	14:N:155:ILE:N	2.23	0.70
17:S:61:VAL:CB	17:S:87:LEU:HD21	2.21	0.70
17:S:70:ARG:HD3	17:S:75:SER:O	1.91	0.70
18:T:82:LEU:HD21	18:T:116:VAL:HG23	1.73	0.70
19:U:42:THR:C	19:U:46:ILE:HG13	2.16	0.70
32:h:74:MET:HA	32:h:77:LYS:CG	2.22	0.70
33:i:30:ASP:HB2	33:i:37:HIS:ND1	2.06	0.70
38:n:27:VAL:CB	38:n:105:LEU:HD13	2.22	0.70
42:r:68:ASP:C	42:r:109:ASP:HA	2.16	0.70
45:u:42:LEU:HB2	45:u:47:VAL:CG2	2.21	0.70
48:x:1:LYS:HB2	48:x:5:LEU:CD2	2.21	0.70
1:A:99:SER:OG	9:I:1186:G:O2'	1.86	0.70
2:B:10:ILE:HD12	2:B:30:LEU:HA	1.74	0.70
3:C:61:VAL:O	9:I:136:U:H1'	1.90	0.70
4:D:63:PRO:HG2	9:I:264:G:C4'	2.22	0.70
4:D:76:VAL:HG12	4:D:77:GLU:HG3	1.72	0.70
5:E:22:PRO:O	5:E:25:ILE:HG12	1.92	0.70
9:I:345:G:H3'	9:I:345:G:N3	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:510:C:O2'	9:I:511:U:OP2	2.07	0.70
9:I:641:A:O2'	27:c:108:GLY:HA2	1.92	0.70
9:I:649:G:H2'	9:I:650:C:H6	1.56	0.70
9:I:924:G:N1	9:I:1390:U:N3	2.14	0.70
9:I:1011:A:H2'	9:I:1012:G:H8	1.57	0.70
9:I:1311:G:C2'	9:I:1312:U:H5'	2.22	0.70
9:I:1366:C:H5''	28:d:113:VAL:CG2	2.12	0.70
9:I:1691:A:O2'	9:I:1692:C:O4'	2.10	0.70
9:I:1918:C:H3'	9:I:1919:U:H6	1.55	0.70
9:I:2422:A:C2'	9:I:2423:U:H5'	2.21	0.70
9:I:2448:G:P	19:U:16:ARG:HH11	2.15	0.70
9:I:3059:C:O2'	9:I:3060:A:H3'	1.92	0.70
9:I:3586:U:O3'	9:I:3587:G:H4'	1.83	0.70
9:I:3715:G:H2'	9:I:3716:C:H6	1.56	0.70
9:I:3784:G:N1	9:I:3837:U:H1'	2.06	0.70
9:I:3797:G:H2'	9:I:3798:G:O4'	1.91	0.70
9:I:3965:A:H2'	9:I:3966:G:O4'	1.92	0.70
9:I:4031:U:H2'	9:I:4032:C:H6	1.57	0.70
9:I:4143:C:H2'	9:I:4144:U:C6	2.26	0.70
9:I:4334:C:H1'	20:V:91:ALA:CB	2.18	0.70
12:L:27:ILE:HG22	12:L:187:LEU:HB3	1.74	0.70
13:M:124:PHE:CZ	13:M:148:ILE:HG21	2.26	0.70
15:O:51:PHE:CB	15:O:64:ALA:HB1	2.21	0.70
15:O:52:GLY:HA2	15:O:61:TRP:CZ3	2.27	0.70
17:S:1:MET:H3	17:S:65:THR:HG21	1.56	0.70
17:S:61:VAL:HB	17:S:87:LEU:CD1	2.22	0.70
17:S:61:VAL:HG11	17:S:87:LEU:HD21	1.73	0.70
26:b:50:ALA:HB2	26:b:57:GLU:CB	2.21	0.70
28:d:96:ARG:CD	28:d:101:VAL:HG21	2.04	0.70
30:f:40:PHE:HB3	30:f:44:ARG:C	2.17	0.70
33:i:52:LYS:HE3	33:i:55:ALA:HA	1.74	0.70
45:u:47:VAL:HG12	45:u:86:LEU:CD1	2.21	0.70
45:u:64:VAL:HG13	45:u:67:GLY:CA	2.14	0.70
48:x:5:LEU:HB3	48:x:55:LEU:HD12	1.74	0.70
4:D:22:ILE:HG13	4:D:41:LEU:CD1	2.18	0.70
5:E:42:ARG:CZ	25:a:88:MET:HG2	2.21	0.70
7:G:36:ALA:HB1	7:G:44:ALA:CB	2.21	0.70
9:I:26:G:H2'	9:I:27:A:C8	2.26	0.70
9:I:502:C:H2'	9:I:503:C:C5	2.27	0.70
9:I:603:G:O2'	9:I:604:U:H5'	1.92	0.70
9:I:956:U:H2'	9:I:958:A:OP2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1241:G:H1	9:I:1294:U:H3	1.40	0.70
9:I:1425:G:H1	9:I:4378:U:H3	1.39	0.70
9:I:1433:A:H3'	9:I:1434:G:C8	2.26	0.70
9:I:1808:G:C4'	44:t:16:LYS:HE2	2.21	0.70
9:I:2045:U:C5	9:I:2047:A:H4'	2.27	0.70
9:I:2214:U:O2'	9:I:2216:A:N6	2.24	0.70
9:I:2608:C:O2'	9:I:2609:G:H5'	1.92	0.70
9:I:3286:G:H1	9:I:3321:U:H3	0.75	0.70
9:I:3560:C:O2'	9:I:3561:G:H5'	1.91	0.70
9:I:4026:G:N2	9:I:4157:G:O2'	2.24	0.70
9:I:4304:A:H5''	9:I:4305:G:OP2	1.90	0.70
9:I:4331:A:H3'	9:I:4332:G:H8	1.55	0.70
10:J:12:G:H21	10:J:15:G:H1'	1.56	0.70
10:J:32:G:C3'	10:J:33:A:H5'	2.22	0.70
11:K:77:VAL:HG21	11:K:91:ALA:HB1	1.72	0.70
12:L:109:VAL:HG11	12:L:193:VAL:CB	2.20	0.70
15:O:32:LEU:HD22	15:O:74:MET:HG3	1.73	0.70
16:R:8:PRO:HA	16:R:11:VAL:CG2	2.21	0.70
17:S:52:VAL:HG23	17:S:56:ASP:HB2	1.74	0.70
17:S:89:ASN:OD1	17:S:90:ASN:N	2.25	0.70
20:V:65:LEU:HA	20:V:68:ALA:HB3	1.71	0.70
28:d:27:ILE:HD11	28:d:64:VAL:CG1	2.22	0.70
29:e:1:ARG:HD3	29:e:73:VAL:CG1	2.22	0.70
40:p:87:VAL:HG22	41:q:49:ILE:O	1.92	0.70
42:r:55:ILE:O	42:r:66:ILE:HD11	1.92	0.70
46:v:20:SER:CA	46:v:56:LYS:HA	2.22	0.70
46:v:33:THR:HB	46:v:36:HIS:CE1	2.27	0.70
2:B:41:HIS:NE2	2:B:48:ASP:OD2	2.22	0.69
2:B:66:LEU:HD21	2:B:84:LEU:HD11	1.74	0.69
7:G:11:GLN:HA	7:G:14:LYS:HB3	1.73	0.69
8:H:37:TYR:HE2	9:I:4428:C:H5'	1.57	0.69
9:I:54:A:N6	9:I:356:G:O2'	2.25	0.69
9:I:648:A:H2'	9:I:649:G:H5''	1.74	0.69
9:I:650:C:H2'	9:I:651:U:H6	1.55	0.69
9:I:903:U:H2'	9:I:904:U:H6	1.54	0.69
9:I:1588:G:H2'	9:I:1589:A:H8	1.56	0.69
9:I:1730:G:H2'	9:I:1731:A:O4'	1.91	0.69
9:I:2039:G:P	16:R:7:LYS:HE3	2.31	0.69
9:I:2162:G:O2'	9:I:2163:G:H5'	1.91	0.69
9:I:2363:A:C2	9:I:2364:G:C8	2.80	0.69
9:I:2400:U:H2'	9:I:2401:G:C4'	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2468:G:O2'	9:I:2469:A:OP2	2.08	0.69
9:I:2554:U:C2	9:I:2556:G:H5'	2.26	0.69
9:I:2781:A:H5'	20:V:103:ARG:HH11	1.56	0.69
9:I:2849:G:O2'	9:I:2850:G:H5'	1.92	0.69
9:I:3267:A:C6	11:K:13:ARG:HD3	2.26	0.69
9:I:3639:C:H4'	9:I:3640:C:OP2	1.92	0.69
9:I:3729:G:H2'	9:I:3730:U:C6	2.26	0.69
9:I:4266:C:OP1	12:L:207:VAL:HG11	1.91	0.69
12:L:8:LYS:NZ	12:L:193:VAL:O	2.22	0.69
12:L:108:ASP:HA	12:L:172:VAL:O	1.92	0.69
13:M:191:ASP:OD1	13:M:194:LYS:HE2	1.92	0.69
17:S:9:ASN:HB3	17:S:83:ALA:HB2	1.74	0.69
17:S:10:VAL:HG21	17:S:17:ARG:HA	1.74	0.69
20:V:30:ARG:O	20:V:30:ARG:NE	2.22	0.69
20:V:96:ARG:NH2	20:V:116:VAL:HG13	2.07	0.69
21:W:31:ALA:HB2	21:W:36:HIS:CE1	2.27	0.69
22:X:70:ALA:HB2	22:X:105:VAL:HB	1.73	0.69
29:e:15:ASP:HA	29:e:18:THR:HG22	1.74	0.69
32:h:38:ILE:CD1	32:h:55:LEU:HD11	2.22	0.69
41:q:1:MET:HG3	41:q:43:ASN:CB	2.21	0.69
43:s:30:ILE:H	43:s:87:LEU:CD2	2.05	0.69
43:s:44:LYS:HZ2	43:s:55:VAL:HG12	1.57	0.69
45:u:6:ALA:O	45:u:65:VAL:HG22	1.92	0.69
2:B:10:ILE:HD13	2:B:29:ALA:C	2.17	0.69
3:C:26:ASN:ND2	9:I:229:G:H4'	2.07	0.69
9:I:242:A:H62	9:I:280:G:H1'	1.56	0.69
9:I:503:C:H2'	9:I:510:C:C5	2.26	0.69
9:I:663:G:N3	9:I:725:C:H4'	2.07	0.69
9:I:744:G:H4'	9:I:835:G:N3	2.07	0.69
9:I:885:G:H1	9:I:910:U:H3	0.80	0.69
9:I:925:G:OP2	9:I:926:G:H5''	1.92	0.69
9:I:970:G:H1'	9:I:1364:G:O2'	1.92	0.69
9:I:1400:G:H2'	9:I:1401:4OC:C6	2.22	0.69
9:I:2175:A:O2'	9:I:2176:A:O5'	2.06	0.69
9:I:2523:A:N6	37:m:5:ALA:HB1	2.03	0.69
9:I:3348:A:H2'	9:I:3349:U:C5'	2.13	0.69
9:I:3880:A:H5''	46:v:45:ARG:NH2	1.98	0.69
9:I:3914:C:O3'	34:j:5:LYS:HE2	1.92	0.69
9:I:4045:C:H2'	9:I:4046:OMU:H6	1.75	0.69
9:I:4204:C:H2'	9:I:4205:A:C8	2.27	0.69
10:J:76:U:O2	10:J:98:A:C6	2.45	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:115:G:H2'	10:J:116:G:H8	1.56	0.69
11:K:141:HIS:HB2	11:K:154:ALA:HB3	1.73	0.69
11:K:257:ARG:HD2	11:K:269:ARG:NH1	2.07	0.69
13:M:57:LYS:NZ	13:M:59:PRO:HA	2.07	0.69
14:N:43:ILE:HG21	14:N:78:ILE:HG22	1.74	0.69
15:O:23:ILE:CG1	15:O:36:LEU:HB2	2.23	0.69
15:O:40:VAL:O	15:O:54:ARG:NH2	2.25	0.69
18:T:124:GLY:H	18:T:144:GLU:C	2.00	0.69
19:U:64:TRP:HB3	19:U:66:ARG:HH22	1.56	0.69
20:V:10:LEU:HB2	20:V:12:ARG:NH1	2.06	0.69
20:V:114:GLU:HB3	20:V:118:ARG:CD	2.22	0.69
22:X:63:ILE:HD13	22:X:90:VAL:CG2	2.22	0.69
24:Z:43:LYS:O	24:Z:53:LYS:NZ	2.21	0.69
25:a:22:ILE:HG21	25:a:39:LEU:HD21	1.74	0.69
27:c:76:ARG:NE	27:c:78:SER:O	2.25	0.69
38:n:19:GLU:OE2	46:v:40:ASN:N	2.20	0.69
43:s:7:LEU:HD12	43:s:8:LEU:HG	1.72	0.69
43:s:25:GLU:CG	43:s:26:LYS:HE3	2.22	0.69
45:u:20:LEU:HA	45:u:23:ALA:HB2	1.71	0.69
49:y:41:PRO:CA	49:y:44:ARG:HB3	2.22	0.69
2:B:62:ARG:NH2	9:I:2215:A:O2'	2.23	0.69
9:I:36:U:C5'	31:g:120:ARG:HD3	2.15	0.69
9:I:157:G:H2'	9:I:158:G:H8	1.57	0.69
9:I:298:G:H2'	9:I:299:A:N9	2.06	0.69
9:I:409:G:N1	9:I:430:A:OP2	2.25	0.69
9:I:438:U:O4'	23:Y:119:HIS:HA	1.92	0.69
9:I:1296:G:H21	26:b:113:LYS:CB	2.05	0.69
9:I:1486:G:O5'	9:I:4302:G:N2	2.25	0.69
9:I:1513:A:O2'	9:I:1515:G:N7	2.24	0.69
9:I:1790:U:H2'	9:I:1791:G:C1'	2.22	0.69
9:I:1801:G:HO2'	9:I:1802:C:H6	1.40	0.69
9:I:1949:A:H4'	40:p:2:ARG:HH12	1.57	0.69
9:I:2083:G:H2'	9:I:2084:C:H6	1.57	0.69
9:I:2108:A:H2'	9:I:2109:A:C8	2.27	0.69
9:I:2108:A:H2'	9:I:2109:A:O4'	1.93	0.69
9:I:2349:A:N6	9:I:2422:A:H61	1.90	0.69
9:I:2378:A:N6	9:I:2393:A:O2'	2.23	0.69
9:I:3323:A:H2'	11:K:14:HIS:CD2	2.25	0.69
9:I:3342:A:C6	9:I:3388:C:H1'	2.27	0.69
9:I:3656:G:H3'	9:I:3658:C:C4	2.28	0.69
9:I:3704:U:H4'	9:I:3705:A:OP1	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4160:C:N3	15:O:108:PHE:HA	2.07	0.69
9:I:4242:A:C3'	9:I:4247:A:H62	2.05	0.69
9:I:4321:C:O2'	9:I:4322:G:H5'	1.92	0.69
10:J:16:C:H3'	10:J:17:G:C8	2.26	0.69
10:J:59:C:C2'	10:J:60:G:H5'	2.22	0.69
10:J:98:A:H2'	10:J:99:G:H8	1.57	0.69
11:K:173:LEU:HD12	11:K:174:ARG:H	1.56	0.69
17:S:18:ARG:HB2	17:S:45:GLU:CG	2.22	0.69
20:V:77:ALA:O	20:V:81:ASN:ND2	2.24	0.69
20:V:86:ARG:HH21	20:V:117:ASP:CB	2.03	0.69
22:X:173:PRO:HB2	22:X:176:THR:CG2	2.22	0.69
27:c:39:LEU:HD23	27:c:100:ILE:HD11	1.74	0.69
30:f:7:GLY:O	30:f:70:LEU:HA	1.93	0.69
30:f:62:VAL:O	30:f:67:ILE:HD12	1.92	0.69
31:g:4:ASN:CA	31:g:7:VAL:HB	2.12	0.69
42:r:92:ARG:NE	42:r:92:ARG:HA	2.07	0.69
43:s:28:ASN:HD21	43:s:89:GLU:C	2.00	0.69
44:t:4:ILE:CG1	44:t:71:ILE:HD11	2.21	0.69
46:v:41:VAL:HG13	46:v:50:PHE:N	2.07	0.69
47:w:68:ALA:HA	47:w:71:ARG:CZ	2.22	0.69
1:A:8:ARG:O	1:A:12:ARG:N	2.16	0.69
3:C:12:LYS:NZ	9:I:307:C:OP1	2.23	0.69
4:D:18:ILE:CG2	4:D:45:ASP:HB3	2.22	0.69
9:I:25:A:N3	23:Y:205:LYS:HE3	2.07	0.69
9:I:36:U:H5''	31:g:120:ARG:CD	2.15	0.69
9:I:526:G7M:H2'	9:I:534:A:H2	1.58	0.69
9:I:682:G:N2	30:f:28:ASN:HA	2.08	0.69
9:I:740:G:H2'	9:I:741:G:H8	1.57	0.69
9:I:925:G:N2	9:I:4409:G:H2'	2.07	0.69
9:I:1816:C:O2	9:I:1816:C:H2'	1.92	0.69
9:I:2117:G:H5'	13:M:199:MET:CE	2.21	0.69
9:I:2147:G:O2'	9:I:2148:G:H5'	1.92	0.69
9:I:2166:A:H2'	9:I:2167:U:H6	1.57	0.69
9:I:2488:C:H1'	41:q:10:LYS:NZ	2.06	0.69
9:I:2633:G:H2'	9:I:2634:C:C6	2.28	0.69
9:I:2861:A:H2'	9:I:2862:G:H5'	1.74	0.69
9:I:3210:U:H2'	9:I:3211:A:O4'	1.92	0.69
9:I:3579:U:C2	9:I:3728:G:O6	2.45	0.69
9:I:3792:A:C2	9:I:3815:U:H2'	2.27	0.69
9:I:4273:U:H4'	9:I:4274:G:C5'	2.22	0.69
13:M:122:GLU:C	13:M:190:ALA:H	1.98	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:66:ILE:HG21	14:N:83:PRO:CB	2.18	0.69
17:S:40:LYS:HD2	17:S:59:LYS:HE3	1.75	0.69
18:T:108:ALA:N	18:T:125:LEU:HG	2.07	0.69
22:X:151:GLU:HG2	22:X:165:GLU:O	1.93	0.69
30:f:49:PHE:HA	30:f:52:GLN:HB3	1.73	0.69
30:f:55:ALA:CB	30:f:87:ALA:HB3	2.21	0.69
39:o:19:PHE:HD2	39:o:46:VAL:HG21	1.55	0.69
44:t:10:VAL:HG21	44:t:69:VAL:CG2	2.23	0.69
48:x:56:LEU:HD23	48:x:59:LYS:HD2	1.73	0.69
49:y:8:GLN:HB3	49:y:31:ILE:HA	1.74	0.69
1:A:2:LYS:O	9:I:1215:A:H5'	1.92	0.69
8:H:4:LYS:HG3	30:f:96:THR:HB	1.74	0.69
9:I:663:G:N2	9:I:725:C:O3'	2.18	0.69
9:I:768:G:O2'	9:I:769:C:H5'	1.92	0.69
9:I:962:G:H2'	29:e:52:HIS:CE1	2.27	0.69
9:I:978:C:H5''	9:I:979:C:OP2	1.91	0.69
9:I:1342:G:O2'	28:d:120:ARG:HD2	1.92	0.69
9:I:1639:U:O3'	9:I:1641:G:N1	2.25	0.69
9:I:1733:A:C2	9:I:1734:U:H1'	2.27	0.69
9:I:2042:C:H2'	9:I:2043:G:C8	2.27	0.69
9:I:2135:C:H5''	18:T:129:LYS:NZ	2.07	0.69
9:I:3052:C:H4'	9:I:3053:U:H5''	1.75	0.69
9:I:3062:G:O6	11:K:27:LYS:NZ	2.17	0.69
9:I:3067:G:H5''	9:I:3068:C:OP2	1.92	0.69
9:I:3308:G:H3'	9:I:3309:A:H2'	1.73	0.69
9:I:3587:G:N7	9:I:3719:A:C2'	2.54	0.69
9:I:3881:U:OP2	9:I:3881:U:H3'	1.93	0.69
9:I:4077:G:H2'	9:I:4078:U:C6	2.26	0.69
9:I:4201:U:C3'	9:I:4202:G:C8	2.75	0.69
12:L:8:LYS:HE3	12:L:11:MET:CE	2.22	0.69
12:L:13:ARG:HD2	12:L:23:PRO:HG3	1.73	0.69
14:N:36:ASN:HA	14:N:87:LYS:HB3	1.74	0.69
15:O:76:ILE:O	15:O:79:THR:HG22	1.93	0.69
16:R:96:ARG:NH1	16:R:99:ARG:HG3	2.07	0.69
21:W:184:VAL:HG13	21:W:188:SER:CB	2.21	0.69
25:a:46:GLN:HA	25:a:56:LYS:CA	2.22	0.69
34:j:7:LYS:HG2	34:j:50:LYS:HB2	1.74	0.69
35:k:18:PHE:CZ	35:k:45:SER:HB3	2.27	0.69
39:o:98:TYR:O	39:o:102:ARG:HD2	1.93	0.69
40:p:79:ILE:HD13	40:p:82:LEU:CD1	2.23	0.69
49:y:5:LYS:HD2	49:y:35:VAL:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:y:8:GLN:CG	49:y:31:ILE:HG22	2.21	0.69
1:A:20:PHE:HB3	1:A:56:PRO:HD3	1.73	0.69
1:A:52:ARG:HH11	9:I:1218:A:C4'	2.04	0.69
8:H:6:ARG:HE	30:f:96:THR:HA	1.55	0.69
8:H:18:PHE:CZ	30:f:74:VAL:HA	2.26	0.69
9:I:419:U:O2'	9:I:422:G:O6	2.09	0.69
9:I:546:A:H4'	9:I:547:G:O5'	1.93	0.69
9:I:1096:C:H2'	9:I:1097:C:H6	1.58	0.69
9:I:1178:A:H2'	9:I:1179:A:O4'	1.92	0.69
9:I:1226:A:OP2	32:h:94:LEU:HD21	1.93	0.69
9:I:1286:A:H2	9:I:1352:G:H1'	1.58	0.69
9:I:1467:U:O2'	9:I:4339:U:O4	2.07	0.69
9:I:1571:A:N1	9:I:1614:U:H1'	2.07	0.69
9:I:1859:G:C2'	9:I:1860:U:H5'	2.22	0.69
9:I:2140:C:H2'	9:I:2141:U:H6	1.54	0.69
9:I:2147:G:H2'	9:I:2148:G:H8	1.56	0.69
9:I:2310:U:C4	18:T:30:THR:HG22	2.28	0.69
9:I:2362:G:N2	10:J:99:G:O2'	2.26	0.69
9:I:2547:C:H2'	9:I:2548:A:C8	2.28	0.69
9:I:2670:U:O2'	9:I:2671:G:O4'	2.08	0.69
9:I:2757:U:H2'	9:I:2758:A:N3	2.07	0.69
9:I:2807:U:O2	9:I:2807:U:H2'	1.92	0.69
9:I:3099:C:H5''	9:I:3100:C:OP2	1.93	0.69
9:I:3756:U:H5'	46:v:31:ARG:HH22	1.58	0.69
9:I:3857:G:OP1	36:l:39:ARG:HD2	1.93	0.69
9:I:4142:G:H2'	9:I:4143:C:H6	1.58	0.69
9:I:4281:C:O2'	9:I:4282:C:O5'	2.11	0.69
11:K:67:LYS:O	11:K:68:ARG:HG2	1.93	0.69
11:K:153:LEU:CG	11:K:175:LEU:HD22	2.21	0.69
16:R:36:LEU:CD2	16:R:121:LYS:HE2	2.23	0.69
17:S:68:GLY:HA2	17:S:79:PHE:CD2	2.28	0.69
17:S:70:ARG:CZ	17:S:74:GLY:HA2	2.23	0.69
18:T:83:ALA:CB	18:T:118:THR:HB	2.22	0.69
20:V:42:LYS:HE3	20:V:45:ARG:NH2	2.06	0.69
20:V:115:LEU:HB3	20:V:118:ARG:HA	1.73	0.69
21:W:29:PHE:HE2	21:W:32:ARG:HH22	1.40	0.69
22:X:112:ALA:HB2	22:X:201:ILE:HD13	1.74	0.69
23:Y:50:TYR:CE2	23:Y:54:LEU:HD11	2.27	0.69
24:Z:1:GLU:CG	24:Z:32:ASP:HB2	2.22	0.69
25:a:67:PRO:HD2	25:a:70:VAL:HG21	1.73	0.69
29:e:11:HIS:CE1	29:e:12:ARG:HD2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:o:96:LEU:HD23	39:o:99:LEU:HD11	1.75	0.69
43:s:86:THR:O	43:s:87:LEU:HD23	1.93	0.69
45:u:21:ARG:HA	45:u:25:LYS:O	1.92	0.69
45:u:28:ALA:HA	45:u:90:ASP:OD1	1.91	0.69
47:w:50:VAL:HG11	47:w:58:ILE:CD1	2.21	0.69
49:y:41:PRO:O	49:y:44:ARG:HB3	1.92	0.69
49:y:47:ILE:HG22	49:y:51:SER:CB	2.23	0.69
1:A:100:TRP:NE1	9:I:1367:A:H4'	2.08	0.69
3:C:52:LEU:CD2	3:C:74:LEU:HD13	2.19	0.69
5:E:20:ILE:HD11	5:E:40:ILE:HG21	1.73	0.69
7:G:69:LYS:HA	7:G:72:ARG:NH2	2.08	0.69
9:I:1303:G:H1'	9:I:1332:A:N6	2.07	0.69
9:I:1422:G:H2'	9:I:1423:U:C6	2.28	0.69
9:I:1432:A:H2'	9:I:1433:A:O4'	1.93	0.69
9:I:1484:C:O2	9:I:1485:C:C5	2.45	0.69
9:I:1583:A:O2'	9:I:1584:A:OP2	2.10	0.69
9:I:2499:C:H1'	9:I:2506:U:O4	1.93	0.69
9:I:3182:U:O2'	9:I:3194:A:N7	2.25	0.69
9:I:3625:U:H5'	9:I:3626:U:H5''	1.75	0.69
9:I:3863:A:H62	9:I:3876:G:H1	1.40	0.69
9:I:3951:PSU:H2'	9:I:3952:G:C8	2.27	0.69
9:I:4033:C:O2'	9:I:4034:C:H5'	1.92	0.69
9:I:4212:G:N2	9:I:4213:G:H1'	2.08	0.69
11:K:5:CYS:HB3	11:K:12:ARG:HG3	1.74	0.69
11:K:162:GLN:HE21	11:K:174:ARG:CG	2.05	0.69
12:L:33:ARG:HG3	12:L:95:SER:CA	2.16	0.69
12:L:104:VAL:HG21	12:L:107:VAL:HG13	1.73	0.69
13:M:119:ILE:HB	13:M:186:VAL:O	1.93	0.69
13:M:121:VAL:O	13:M:190:ALA:N	2.24	0.69
15:O:95:ALA:HA	15:O:103:ASN:O	1.92	0.69
16:R:92:MET:HE1	16:R:96:ARG:HB3	1.73	0.69
17:S:8:LEU:CB	17:S:19:VAL:HG23	2.23	0.69
23:Y:150:LYS:O	23:Y:155:LYS:NZ	2.25	0.69
24:Z:104:ALA:HA	24:Z:107:GLU:OE2	1.92	0.69
28:d:32:LEU:HD21	28:d:42:ARG:CB	2.23	0.69
30:f:8:VAL:HB	30:f:23:THR:CG2	2.23	0.69
39:o:21:PRO:HB2	39:o:96:LEU:HD13	1.72	0.69
41:q:31:GLU:O	41:q:63:VAL:HG23	1.92	0.69
41:q:62:GLU:HB3	41:q:99:THR:CG2	2.23	0.69
49:y:56:VAL:HG22	49:y:58:GLU:CG	2.22	0.69
1:A:1:ALA:CB	1:A:6:LYS:HD3	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:LYS:CB	9:I:1215:A:H5''	2.23	0.69
2:B:10:ILE:HG21	2:B:30:LEU:N	2.07	0.69
2:B:11:VAL:HG22	2:B:26:VAL:CG1	2.22	0.69
2:B:62:ARG:O	2:B:66:LEU:HD13	1.93	0.69
3:C:62:GLY:HA3	9:I:225:G:H22	1.58	0.69
3:C:68:SER:HB3	3:C:71:VAL:HG23	1.75	0.69
4:D:68:LYS:HE3	9:I:252:A:C2'	2.23	0.69
7:G:59:GLN:OE1	7:G:64:LEU:HD11	1.91	0.69
8:H:28:LEU:HB2	30:f:77:PRO:CD	2.22	0.69
8:H:39:LYS:NZ	9:I:4429:G:N7	2.40	0.69
9:I:413:A:H3'	9:I:414:A:H8	1.56	0.69
9:I:418:C:H2'	9:I:419:U:O4'	1.92	0.69
9:I:468:C:N3	9:I:469:C:C5	2.61	0.69
9:I:566:G:H2'	9:I:567:G:O4'	1.93	0.69
9:I:690:G:H2'	9:I:691:U:C6	2.27	0.69
9:I:945:A:H1'	9:I:1333:G:O4'	1.92	0.69
9:I:976:A:N6	9:I:1223:U:O4'	2.26	0.69
9:I:1296:G:H21	26:b:113:LYS:HB3	1.58	0.69
9:I:1357:U:H5''	9:I:1358:C:OP2	1.93	0.69
9:I:1372:G:C1'	26:b:33:GLY:HA3	2.23	0.69
9:I:1526:G:O2'	9:I:1527:G:H5'	1.91	0.69
9:I:1577:G:H4'	48:x:55:LEU:HD21	1.74	0.69
9:I:1625:A:C6	35:k:10:LEU:HD11	2.27	0.69
9:I:1818:C:H3'	9:I:1819:G:H8	1.58	0.69
9:I:1971:A:H3'	9:I:1972:A:H8	1.58	0.69
9:I:1977:A:H2'	9:I:1978:A:O4'	1.93	0.69
9:I:1983:A:O2'	44:t:55:GLY:O	2.10	0.69
9:I:2349:A:H2'	9:I:2350:U:C6	2.28	0.69
9:I:2481:C:H5''	49:y:10:ARG:CZ	2.23	0.69
9:I:2506:U:O4	16:R:30:THR:HG21	1.93	0.69
9:I:2925:A:H2'	9:I:2926:G:H8	1.57	0.69
9:I:2969:G:H1'	9:I:3226:C:H5	1.58	0.69
9:I:3282:C:H2'	9:I:3283:A:O4'	1.93	0.69
9:I:3313:A:C5	11:K:177:SER:HB3	2.28	0.69
9:I:3358:U:O2	9:I:3372:G:O6	2.11	0.69
9:I:3598:C:H2'	9:I:3599:U:O4'	1.93	0.69
9:I:3764:A:H2'	9:I:3765:G:C8	2.28	0.69
9:I:3777:C:OP2	34:j:1:GLY:N	2.25	0.69
9:I:3961:C:P	37:m:4:ARG:HH12	2.14	0.69
9:I:4015:C:O2'	9:I:4016:U:H5'	1.93	0.69
10:J:11:C:C3'	46:v:66:ASN:HD21	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:94:U:P	45:u:19:ARG:HH22	2.16	0.69
12:L:104:VAL:HG21	12:L:107:VAL:HG12	1.74	0.69
12:L:179:ARG:HD3	12:L:180:VAL:H	1.57	0.69
14:N:110:ILE:HA	14:N:136:ILE:HD13	1.74	0.69
14:N:116:LEU:HD12	14:N:129:MET:CE	2.23	0.69
15:O:151:ARG:HH11	15:O:161:VAL:HG23	1.56	0.69
17:S:44:LYS:HD3	17:S:44:LYS:N	2.07	0.69
20:V:33:ILE:HG13	20:V:114:GLU:CG	2.22	0.69
21:W:123:PHE:HD2	21:W:126:LEU:HD21	1.57	0.69
22:X:38:VAL:O	22:X:42:LEU:HD13	1.93	0.69
23:Y:97:LEU:HB2	23:Y:134:TYR:O	1.92	0.69
28:d:44:VAL:HG11	28:d:73:ALA:HB1	1.75	0.69
31:g:110:LYS:HA	31:g:113:ARG:HD3	1.73	0.69
32:h:9:PRO:HG3	32:h:17:ALA:O	1.92	0.69
40:p:48:ASP:HA	40:p:51:GLN:NE2	2.08	0.69
40:p:82:LEU:O	40:p:85:ALA:HB3	1.93	0.69
43:s:24:MET:SD	43:s:25:GLU:N	2.66	0.69
44:t:40:LEU:HA	44:t:60:LYS:C	2.18	0.69
49:y:43:ILE:O	49:y:46:MET:HB3	1.92	0.69
5:E:13:TYR:CE2	5:E:28:THR:HG21	2.28	0.69
9:I:349:G:HO2'	9:I:350:G:C1'	2.06	0.69
9:I:439:C:H2'	9:I:440:A:H5'	1.74	0.69
9:I:526:G7M:H2'	9:I:534:A:C2	2.27	0.69
9:I:950:G:H2'	9:I:951:U:C6	2.28	0.69
9:I:1540:U:H2'	9:I:1541:C:C6	2.28	0.69
9:I:1572:U:OP2	48:x:53:LYS:HE3	1.92	0.69
9:I:1583:A:H2'	9:I:1601:A:N1	2.08	0.69
9:I:1661:A:H2'	9:I:1662:U:C6	2.27	0.69
9:I:1703:A:H5''	9:I:1704:A:O5'	1.92	0.69
9:I:2101:C:H5''	9:I:2102:A:OP2	1.93	0.69
9:I:2175:A:H4'	13:M:62:GLN:CD	2.17	0.69
9:I:2487:G:H1'	41:q:91:GLN:CD	2.18	0.69
9:I:2674:U:C2'	9:I:2675:U:H5'	2.23	0.69
9:I:2834:U:N3	9:I:3097:A:H1'	2.08	0.69
9:I:3003:A:O2'	9:I:3004:G:H5'	1.93	0.69
9:I:3059:C:H2'	11:K:25:LYS:HZ2	1.56	0.69
9:I:3787:G:N1	9:I:3834:A:H1'	2.07	0.69
9:I:3808:A:O3'	14:N:156:THR:HG23	1.93	0.69
9:I:4061:G:H2'	9:I:4062:U:H6	1.56	0.69
9:I:4242:A:H5''	9:I:4242:A:H8	1.57	0.69
9:I:4328:G:H5''	9:I:4329:A:OP2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4382:U:H2'	9:I:4383:C:C6	2.28	0.69
10:J:17:G:H3'	10:J:18:C:C5	2.28	0.69
10:J:32:G:O6	10:J:48:C:N4	2.20	0.69
10:J:34:C:O2'	10:J:35:C:H5'	1.93	0.69
10:J:40:G:H5'	10:J:41:C:O5'	1.93	0.69
11:K:146:LYS:CB	11:K:149:LYS:HB2	2.13	0.69
11:K:182:LYS:HZ3	11:K:265:PHE:HA	1.58	0.69
12:L:103:ASP:HB3	12:L:105:LYS:NZ	2.07	0.69
12:L:108:ASP:H	12:L:204:LYS:H	1.41	0.69
15:O:86:LEU:O	15:O:164:ALA:HB2	1.92	0.69
17:S:42:THR:OG1	17:S:57:VAL:HG22	1.92	0.69
18:T:96:LYS:NZ	18:T:103:ILE:O	2.18	0.69
18:T:96:LYS:NZ	18:T:105:ILE:O	2.23	0.69
22:X:149:LYS:HD2	22:X:166:TRP:CE3	2.27	0.69
26:b:45:ALA:CB	26:b:119:LEU:HD22	2.22	0.69
28:d:18:ILE:HG23	28:d:58:LEU:CD1	2.13	0.69
37:m:25:VAL:HG12	37:m:33:HIS:O	1.92	0.69
39:o:36:LYS:HD3	39:o:37:LYS:H	1.58	0.69
41:q:3:ALA:O	41:q:13:ARG:HA	1.92	0.69
44:t:4:ILE:HG23	44:t:8:ASP:HB2	1.73	0.69
44:t:11:ILE:HD11	44:t:19:GLY:O	1.93	0.69
47:w:31:ASN:ND2	47:w:52:ALA:HB2	2.08	0.69
3:C:4:ILE:HD13	3:C:66:THR:O	1.93	0.69
6:F:40:PRO:HG3	6:F:65:VAL:HG11	1.75	0.69
9:I:59:A:C6	9:I:109:C:N4	2.61	0.69
9:I:1150:A:H1'	29:e:37:PRO:CB	2.23	0.69
9:I:1214:G:H2'	9:I:1214:G:N3	2.08	0.69
9:I:1265:G:H21	9:I:1267:G:H8	1.39	0.69
9:I:1340:U:O2'	9:I:1341:C:H5'	1.93	0.69
9:I:1473:G:H2'	9:I:1474:U:H5'	1.75	0.69
9:I:1700:U:H2'	9:I:1886:G:N2	2.08	0.69
9:I:1700:U:O2'	47:w:21:LEU:HD23	1.93	0.69
9:I:1744:A:H4'	18:T:69:ARG:HH21	1.58	0.69
9:I:1875:G:O6	9:I:1899:U:O2	2.10	0.69
9:I:2205:A:N6	9:I:2226:G:H1'	2.07	0.69
9:I:2218:A:C2	9:I:2219:C:H1'	2.28	0.69
9:I:2348:C:H2'	9:I:2349:A:C8	2.27	0.69
9:I:2518:G:P	9:I:2519:G:H3'	2.32	0.69
9:I:2569:C:H2'	9:I:2570:C:C6	2.28	0.69
9:I:2974:C:H2'	9:I:2975:U:O4'	1.92	0.69
9:I:3019:A:O2'	9:I:3020:C:O4'	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3023:G:N1	9:I:3037:G:H1'	2.08	0.69
9:I:3080:A:H2'	9:I:3081:G:C1'	2.23	0.69
9:I:3131:A:H2'	9:I:3132:C:H6	1.58	0.69
9:I:3585:C:H5''	9:I:3586:U:C3'	2.23	0.69
9:I:4085:C:P	11:K:237:ARG:HH12	2.16	0.69
9:I:4426:U:H5''	30:f:116:ARG:HH21	1.55	0.69
11:K:140:VAL:CG2	11:K:191:LEU:HD13	2.22	0.69
11:K:142:ASN:O	11:K:151:GLY:HA3	1.92	0.69
12:L:3:GLY:HA2	12:L:205:PRO:HD3	1.74	0.69
13:M:17:THR:CG2	13:M:106:LYS:HE3	2.21	0.69
15:O:83:THR:N	15:O:140:ILE:HD13	2.06	0.69
16:R:36:LEU:HD22	16:R:121:LYS:HB2	1.74	0.69
17:S:61:VAL:HG13	17:S:61:VAL:O	1.92	0.69
19:U:3:GLN:OE1	19:U:92:TRP:NE1	2.26	0.69
22:X:13:ILE:HG13	22:X:177:LEU:HD12	1.73	0.69
28:d:85:MET:HE2	28:d:92:ARG:CG	2.21	0.69
34:j:10:SER:HB3	34:j:14:THR:OG1	1.93	0.69
38:n:22:ALA:O	38:n:41:PRO:HG3	1.93	0.69
38:n:39:ILE:HG23	38:n:45:GLU:O	1.93	0.69
40:p:64:ILE:CG1	40:p:95:ALA:HB2	2.22	0.69
44:t:85:ARG:CZ	44:t:92:VAL:HG23	2.23	0.69
47:w:53:LYS:HG3	47:w:57:VAL:CG1	2.23	0.69
1:A:51:PRO:HB3	9:I:1014:G:H4'	1.74	0.68
3:C:12:LYS:HD2	3:C:12:LYS:H	1.57	0.68
4:D:66:LYS:HZ3	9:I:251:U:H5''	1.57	0.68
5:E:38:ARG:HG2	9:I:734:C:H5''	1.75	0.68
9:I:696:U:H2'	9:I:697:G:H5'	1.73	0.68
9:I:722:U:N3	9:I:854:U:O3'	2.26	0.68
9:I:737:C:H4'	25:a:68:GLN:HE22	1.58	0.68
9:I:936:A:H1'	9:I:1377:C:H42	1.57	0.68
9:I:1011:A:N1	9:I:1017:G:O6	2.26	0.68
9:I:1396:C:OP2	24:Z:20:ARG:NH1	2.26	0.68
9:I:1545:G:H5''	9:I:1546:G:OP1	1.91	0.68
9:I:1828:U:H1'	44:t:67:SER:OG	1.93	0.68
9:I:2036:G:P	40:p:52:ARG:HH21	2.15	0.68
9:I:2083:G:H2'	9:I:2084:C:C6	2.28	0.68
9:I:2377:A:C2'	9:I:2394:A:H61	2.07	0.68
9:I:2513:U:H6	9:I:2513:U:OP2	1.76	0.68
9:I:2989:A:O2'	9:I:2990:A:O4'	2.11	0.68
9:I:3023:G:O2'	9:I:3024:G:H5'	1.92	0.68
9:I:3024:G:H2'	9:I:3025:C:O4'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3426:A:H2'	9:I:3427:G:O4'	1.92	0.68
9:I:3436:C:H2'	9:I:3437:U:C4	2.28	0.68
9:I:3584:A:H2'	9:I:3585:C:O4'	1.93	0.68
9:I:3812:G:H2'	9:I:3813:G:O4'	1.93	0.68
9:I:3814:U:H1'	9:I:3816:A:C8	2.28	0.68
10:J:48:C:P	38:n:101:ARG:HE	2.16	0.68
11:K:2:VAL:HG22	11:K:18:VAL:CA	2.22	0.68
12:L:104:VAL:HG13	12:L:105:LYS:N	2.08	0.68
12:L:109:VAL:CG2	12:L:193:VAL:HG12	2.21	0.68
20:V:95:THR:CA	20:V:116:VAL:HG23	2.23	0.68
23:Y:56:GLU:CB	23:Y:198:LEU:HD23	2.23	0.68
30:f:40:PHE:CB	30:f:44:ARG:HG3	2.23	0.68
33:i:23:ALA:HB2	42:r:23:LEU:HD11	1.75	0.68
35:k:44:VAL:HG13	35:k:45:SER:N	2.08	0.68
41:q:27:ILE:HG22	41:q:31:GLU:HG3	1.76	0.68
42:r:1:MET:SD	42:r:3:THR:OG1	2.51	0.68
45:u:25:LYS:HD2	45:u:43:ASP:HA	1.74	0.68
3:C:2:VAL:HA	3:C:23:ASP:OD2	1.93	0.68
3:C:13:LYS:O	3:C:14:ARG:HD2	1.92	0.68
4:D:20:VAL:HG11	4:D:58:ILE:CG2	2.23	0.68
5:E:19:LYS:CD	30:f:104:ILE:HB	2.20	0.68
6:F:10:ASP:N	6:F:36:SER:OG	2.17	0.68
9:I:39:C:H2'	9:I:40:G:C8	2.29	0.68
9:I:726:G:H22	9:I:728:A:H3'	1.58	0.68
9:I:1005:G:H2'	9:I:1006:U:H6	1.57	0.68
9:I:1025:G:O6	9:I:1033:G:N1	2.27	0.68
9:I:2077:G:H2'	9:I:2078:G:H8	1.57	0.68
9:I:3021:G:H3'	9:I:3037:G:N2	2.07	0.68
9:I:3182:U:O2	9:I:3194:A:H8	1.75	0.68
9:I:3222:C:H2'	9:I:3224:C:C2	2.27	0.68
9:I:3285:A:C2	9:I:3323:A:H4'	2.28	0.68
9:I:3357:G:H2'	9:I:3358:U:H6	1.55	0.68
9:I:3843:G:C6	9:I:3863:A:C6	2.81	0.68
9:I:4236:G:H2'	9:I:4237:U:O4'	1.93	0.68
9:I:4238:G:N2	15:O:142:GLN:OE1	2.26	0.68
10:J:32:G:H2'	10:J:33:A:H5'	1.73	0.68
11:K:119:VAL:CA	11:K:129:LEU:HB2	2.24	0.68
13:M:19:PHE:HE1	13:M:109:LEU:CD2	2.06	0.68
13:M:113:VAL:HA	13:M:118:LEU:HD11	1.75	0.68
14:N:46:LYS:NZ	14:N:83:PRO:HB2	2.08	0.68
14:N:111:ARG:NH1	14:N:133:GLU:O	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:135:GLN:C	16:R:137:PRO:HD3	2.18	0.68
17:S:40:LYS:HZ2	17:S:59:LYS:NZ	1.91	0.68
18:T:92:LEU:HD11	18:T:105:ILE:O	1.93	0.68
18:T:122:VAL:HB	18:T:142:ILE:HG23	1.74	0.68
21:W:43:THR:OG1	21:W:198:PRO:HG2	1.91	0.68
23:Y:3:TYR:CE2	23:Y:10:LEU:HD11	2.28	0.68
23:Y:106:PHE:HE2	23:Y:142:VAL:HG13	1.57	0.68
24:Z:84:ARG:HG3	24:Z:119:TYR:HB2	1.75	0.68
27:c:68:LYS:HD2	27:c:69:ALA:O	1.94	0.68
30:f:5:SER:O	30:f:69:ASN:N	2.26	0.68
31:g:109:ARG:O	31:g:110:LYS:HD3	1.93	0.68
38:n:98:TYR:HE1	38:n:106:ALA:CB	2.06	0.68
3:C:2:VAL:HG11	9:I:228:U:H1'	1.74	0.68
3:C:56:ARG:O	3:C:60:TRP:N	2.26	0.68
4:D:11:SER:HB3	9:I:275:G:OP1	1.94	0.68
4:D:59:ARG:HG2	4:D:73:VAL:HG23	1.75	0.68
9:I:66:C:H2'	9:I:67:G:C8	2.28	0.68
9:I:159:A:H2'	9:I:160:A:O4'	1.94	0.68
9:I:802:G:H2'	9:I:803:U:C6	2.29	0.68
9:I:1074:U:P	21:W:99:THR:HB	2.33	0.68
9:I:1665:A:O2'	9:I:1666:U:H5'	1.94	0.68
9:I:1986:C:H4'	42:r:60:HIS:CD2	2.28	0.68
9:I:2000:G:H5''	9:I:2001:A:OP2	1.91	0.68
9:I:2134:C:H2'	9:I:2135:C:C6	2.27	0.68
9:I:2225:G:H2'	9:I:2226:G:N9	2.08	0.68
9:I:2556:G:H2'	9:I:2557:G:C8	2.27	0.68
9:I:2577:U:O3'	9:I:2578:A:H3'	1.93	0.68
9:I:2610:G:H2'	9:I:2611:C:C5'	2.23	0.68
9:I:2678:U:C2'	9:I:2679:G:H5'	2.23	0.68
9:I:3303:A:O2'	9:I:3304:A:O5'	2.08	0.68
9:I:3328:U:H5''	9:I:3329:2MG:OP1	1.94	0.68
9:I:3371:A:C2'	9:I:3372:G:H5'	2.24	0.68
9:I:3521:G:H2'	9:I:3522:U:C6	2.27	0.68
9:I:3528:U:O2'	9:I:3529:G:H5'	1.94	0.68
9:I:3958:G:H2'	9:I:3959:C:H6	1.59	0.68
9:I:4005:U:O2'	9:I:4006:C:H5'	1.93	0.68
9:I:4049:U:C2'	9:I:4050:C:H5'	2.23	0.68
10:J:95:G:H3'	10:J:96:C:H6	1.56	0.68
12:L:3:GLY:HA2	12:L:101:PHE:CZ	2.28	0.68
21:W:78:LYS:HG3	21:W:88:PHE:CZ	2.27	0.68
22:X:151:GLU:HA	22:X:166:TRP:HA	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:b:77:ARG:HG3	26:b:79:VAL:CG2	2.23	0.68
29:e:53:VAL:HG22	29:e:54:ASN:H	1.57	0.68
30:f:7:GLY:N	30:f:69:ASN:O	2.24	0.68
32:h:78:ARG:HG2	32:h:82:LEU:CD1	2.23	0.68
39:o:22:GLY:CA	39:o:96:LEU:HD22	2.23	0.68
40:p:78:PHE:HE1	40:p:109:VAL:HG22	1.57	0.68
41:q:21:ARG:NE	41:q:95:ASP:OD1	2.26	0.68
41:q:41:ILE:HB	41:q:47:VAL:CG2	2.20	0.68
41:q:60:LYS:NZ	41:q:102:SER:HA	2.08	0.68
44:t:10:VAL:HG12	44:t:71:ILE:HA	1.75	0.68
44:t:13:LEU:HG	44:t:68:ASN:HA	1.75	0.68
5:E:14:ILE:CG2	5:E:49:LEU:HD13	2.24	0.68
5:E:19:LYS:NZ	9:I:674:A:H4'	2.08	0.68
7:G:43:ALA:O	7:G:46:GLN:HB2	1.94	0.68
8:H:27:VAL:O	8:H:31:VAL:HG23	1.92	0.68
9:I:462:U:H2'	9:I:463:U:O4'	1.93	0.68
9:I:576:G:H2'	9:I:577:C:H6	1.59	0.68
9:I:599:A:H5''	27:c:88:LYS:CE	2.23	0.68
9:I:674:A:N3	30:f:106:HIS:N	2.38	0.68
9:I:833:U:O2'	9:I:834:U:H5'	1.92	0.68
9:I:1039:U:H2'	9:I:1040:G:C8	2.28	0.68
9:I:1122:U:H4'	29:e:34:GLY:HA3	1.74	0.68
9:I:1156:A:N6	9:I:1177:G:H1'	2.08	0.68
9:I:1238:A:H61	9:I:1296:G:C4'	2.06	0.68
9:I:1642:A:C1'	43:s:1:MET:HG3	2.23	0.68
9:I:1676:A:H3'	9:I:1676:A:OP2	1.93	0.68
9:I:1996:G:H2'	9:I:1996:G:N3	2.07	0.68
9:I:3178:G:C6	9:I:3199:A:C6	2.80	0.68
9:I:3242:C:O2	9:I:3242:C:H2'	1.92	0.68
9:I:3336:G:O6	9:I:3392:U:O4	2.10	0.68
9:I:3410:A:H2'	9:I:3411:PSU:C5	2.28	0.68
9:I:3421:A:O2'	9:I:3422:A:O4'	2.12	0.68
9:I:3783:G:H2'	9:I:3784:G:O4'	1.93	0.68
9:I:3818:U:C5'	9:I:3831:G:H5''	2.23	0.68
12:L:22:ILE:HG21	12:L:178:VAL:CG1	2.23	0.68
12:L:113:SER:O	12:L:167:ASN:HA	1.94	0.68
13:M:17:THR:OG1	13:M:106:LYS:HE2	1.93	0.68
13:M:131:THR:HA	13:M:160:ALA:O	1.93	0.68
17:S:61:VAL:HB	17:S:87:LEU:HD21	1.74	0.68
21:W:59:SER:HB2	21:W:224:GLN:OE1	1.93	0.68
30:f:38:SER:CB	30:f:57:ARG:HD3	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:f:38:SER:OG	30:f:57:ARG:HD3	1.93	0.68
32:h:73:SER:C	32:h:77:LYS:HG3	2.18	0.68
34:j:23:ASN:HB3	34:j:26:THR:HG22	1.76	0.68
38:n:4:SER:O	38:n:7:ILE:N	2.27	0.68
39:o:47:ILE:HB	39:o:96:LEU:C	2.18	0.68
40:p:61:ILE:CG2	40:p:75:TYR:HE2	2.07	0.68
40:p:93:ILE:HG22	41:q:40:MET:HE1	1.76	0.68
41:q:71:LYS:HG2	41:q:90:ARG:HG3	1.76	0.68
45:u:30:ILE:HG21	45:u:70:ILE:CD1	2.23	0.68
45:u:72:VAL:CG1	45:u:93:ARG:HA	2.19	0.68
48:x:27:LEU:HA	48:x:30:GLN:HB3	1.75	0.68
2:B:79:GLN:O	2:B:83:ARG:HB2	1.93	0.68
5:E:20:ILE:CD1	5:E:40:ILE:HD13	2.23	0.68
9:I:218:U:O2'	9:I:219:G:H5'	1.93	0.68
9:I:383:G:O2'	9:I:384:C:H5'	1.94	0.68
9:I:475:U:H2'	9:I:476:C:C6	2.28	0.68
9:I:562:A:H5''	9:I:563:C:OP1	1.94	0.68
9:I:690:G:H22	9:I:694:A:H5''	1.59	0.68
9:I:735:C:C4'	25:a:90:MET:HE1	2.23	0.68
9:I:736:C:H5'	25:a:89:VAL:HG13	1.74	0.68
9:I:759:G:H2'	9:I:760:G:H5'	1.73	0.68
9:I:787:U:H2'	9:I:788:U:O4'	1.94	0.68
9:I:841:U:O2'	9:I:844:A:OP1	2.11	0.68
9:I:1096:C:H2'	9:I:1097:C:C6	2.28	0.68
9:I:1102:C:H5'	21:W:94:LEU:HB3	1.73	0.68
9:I:1489:A:H62	9:I:4283:C:C2'	2.07	0.68
9:I:1658:U:H5''	9:I:1659:G:OP2	1.93	0.68
9:I:1675:G:H2'	9:I:1676:A:C8	2.28	0.68
9:I:1968:G:C2'	9:I:1969:G:H5'	2.23	0.68
9:I:2173:C:O2'	9:I:2174:G:H5'	1.92	0.68
9:I:2533:A:N1	9:I:2610:G:O6	2.26	0.68
9:I:2618:G:N2	37:m:5:ALA:O	2.25	0.68
9:I:2635:U:H4'	9:I:2636:A:O5'	1.93	0.68
9:I:2655:C:H1'	41:q:8:GLY:O	1.94	0.68
9:I:2822:A:O2'	9:I:2823:U:OP2	2.12	0.68
9:I:3076:C:C3'	9:I:3077:A:H5''	2.20	0.68
9:I:3134:A:O2'	9:I:3135:A:H5'	1.92	0.68
9:I:3215:G:C2'	9:I:3216:A:H5'	2.23	0.68
9:I:3279:A:C6	9:I:3281:A:H1'	2.27	0.68
9:I:3781:A:N6	9:I:3840:A:C5	2.59	0.68
9:I:3825:G:C2'	9:I:3826:C:H5'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4235:A:H3'	9:I:4236:G:H8	1.57	0.68
9:I:4330:U:O4	9:I:4331:A:N6	2.25	0.68
10:J:78:G:O6	45:u:14:LYS:HD3	1.92	0.68
11:K:141:HIS:CB	11:K:154:ALA:HB3	2.24	0.68
12:L:2:ILE:HD12	12:L:82:PHE:CE1	2.29	0.68
12:L:22:ILE:O	12:L:24:VAL:HG13	1.93	0.68
13:M:121:VAL:N	13:M:188:MET:O	2.21	0.68
15:O:151:ARG:CG	15:O:160:GLY:HA2	2.23	0.68
16:R:45:THR:HG22	16:R:48:VAL:N	2.09	0.68
16:R:59:ALA:HB1	16:R:97:PRO:O	1.94	0.68
20:V:49:GLU:HB2	20:V:50:PRO:HD3	1.75	0.68
20:V:115:LEU:HD23	20:V:117:ASP:N	2.04	0.68
21:W:193:VAL:HB	21:W:196:VAL:HB	1.75	0.68
39:o:16:VAL:CG1	39:o:17:PRO:HD2	2.23	0.68
45:u:25:LYS:NZ	45:u:43:ASP:HB2	2.08	0.68
45:u:46:LYS:HD3	45:u:50:MET:CE	2.23	0.68
46:v:28:VAL:HG21	46:v:49:LEU:HD12	1.75	0.68
2:B:44:GLU:HG2	2:B:45:HIS:N	2.07	0.68
2:B:62:ARG:NH2	9:I:2215:A:H1'	2.08	0.68
8:H:36:PHE:HB2	30:f:112:PRO:HB3	1.75	0.68
8:H:43:GLU:HA	8:H:46:ARG:CB	2.18	0.68
9:I:159:A:N6	9:I:342:U:H1'	2.09	0.68
9:I:489:C:H2'	9:I:490:G:C8	2.29	0.68
9:I:665:G:C5'	9:I:725:C:H1'	2.12	0.68
9:I:673:G:HO2'	9:I:674:A:C5'	2.06	0.68
9:I:791:A:H1'	9:I:793:A:N7	2.08	0.68
9:I:793:A:H2'	9:I:794:C:H6	1.57	0.68
9:I:1055:U:H4'	22:X:162:ALA:CB	2.24	0.68
9:I:1060:G:H5'	29:e:57:ALA:CB	2.13	0.68
9:I:1094:U:P	9:I:1107:G:H1	2.17	0.68
9:I:1148:C:H2'	9:I:1149:A:C8	2.29	0.68
9:I:1311:G:O2'	9:I:1312:U:H5'	1.92	0.68
9:I:1635:U:H2'	9:I:1644:A:N6	2.09	0.68
9:I:1717:A:H3'	9:I:1718:A:C8	2.15	0.68
9:I:1772:A:N6	9:I:1865:U:O4	2.19	0.68
9:I:2085:G:H5''	9:I:2086:A:OP2	1.94	0.68
9:I:2149:G:H2'	9:I:2150:C:C6	2.28	0.68
9:I:2411:A:O2'	9:I:2412:A:H5'	1.93	0.68
9:I:2542:A:C2'	9:I:2606:G:H21	2.07	0.68
9:I:2986:G:O5'	9:I:2987:C:H5'	1.94	0.68
9:I:3051:C:H3'	9:I:3052:C:C6	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3518:G:O2'	9:I:3519:C:H5'	1.93	0.68
9:I:3820:C:O2	9:I:3882:A:N6	2.27	0.68
9:I:3845:G:N2	9:I:3860:A:C8	2.61	0.68
9:I:4047:G:H3'	9:I:4048:U:H5''	1.76	0.68
9:I:4234:A:H62	9:I:4257:G:C2'	2.06	0.68
12:L:25:THR:HG23	12:L:193:VAL:HG22	1.75	0.68
12:L:48:ILE:CD1	12:L:82:PHE:HB2	2.24	0.68
14:N:30:VAL:N	14:N:168:LEU:HD11	2.08	0.68
17:S:8:LEU:HD12	17:S:19:VAL:C	2.19	0.68
17:S:15:GLY:CA	17:S:47:ILE:HG23	2.24	0.68
18:T:82:LEU:HD12	18:T:118:THR:HG22	1.76	0.68
20:V:41:ALA:HA	20:V:44:LEU:HD12	1.75	0.68
20:V:93:GLY:O	20:V:116:VAL:HG21	1.93	0.68
21:W:126:LEU:HG	21:W:131:ALA:CB	2.24	0.68
21:W:154:LEU:HD13	21:W:176:LEU:HD13	1.74	0.68
31:g:66:ILE:HG12	31:g:96:THR:CG2	2.20	0.68
32:h:70:ARG:CZ	32:h:71:GLU:HG2	2.24	0.68
34:j:9:VAL:HA	34:j:17:PHE:HB3	1.74	0.68
38:n:67:LYS:HG3	38:n:101:ARG:CG	2.22	0.68
39:o:21:PRO:CG	39:o:91:VAL:HG11	2.23	0.68
42:r:56:ALA:HA	42:r:59:GLU:CG	2.24	0.68
46:v:21:VAL:O	46:v:54:ASP:HA	1.93	0.68
48:x:27:LEU:CD1	48:x:36:LEU:HD13	2.24	0.68
49:y:44:ARG:HA	49:y:47:ILE:CD1	2.23	0.68
1:A:4:SER:N	9:I:1215:A:P	2.62	0.68
7:G:1:ASN:OD1	7:G:2:ILE:N	2.25	0.68
7:G:48:ALA:O	7:G:52:MET:N	2.17	0.68
9:I:544:C:C5'	23:Y:61:ARG:HH12	2.05	0.68
9:I:993:A:C8	9:I:1215:A:H1'	2.29	0.68
9:I:1089:U:H5'	9:I:1169:A:N1	2.09	0.68
9:I:1367:A:O5'	28:d:111:LYS:HD2	1.93	0.68
9:I:1372:G:H1'	26:b:33:GLY:HA3	1.75	0.68
9:I:1570:G:H4'	9:I:1571:A:OP1	1.94	0.68
9:I:1588:G:H2'	9:I:1589:A:C8	2.28	0.68
9:I:1606:C:H2'	9:I:1607:G:H8	1.55	0.68
9:I:1661:A:O2'	9:I:3702:C:O4'	2.12	0.68
9:I:1836:C:C5'	44:t:3:LYS:HD2	2.06	0.68
9:I:1991:G:N3	9:I:1991:G:H2'	2.07	0.68
9:I:2266:U:H2'	9:I:2267:U:C6	2.29	0.68
9:I:2654:G:H2'	9:I:2655:C:C6	2.29	0.68
9:I:2878:A:H1'	9:I:2899:U:C1'	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2993:C:C2'	9:I:2994:G:C8	2.76	0.68
9:I:3160:G:H2'	9:I:3160:G:N3	2.09	0.68
9:I:3587:G:H2'	9:I:3587:G:N3	2.08	0.68
9:I:3779:C:O3'	9:I:3781:A:H1'	1.93	0.68
9:I:3806:U:H1'	14:N:36:ASN:HD21	1.58	0.68
9:I:3830:A:H1'	9:I:3879:C:C6	2.29	0.68
9:I:3898:U:N3	9:I:3907:G:N1	2.27	0.68
9:I:3999:G:N1	9:I:4070:G:N7	2.41	0.68
9:I:4142:G:N1	9:I:4166:U:C2	2.59	0.68
9:I:4243:A:OP1	15:O:1:SER:HB3	1.94	0.68
9:I:4266:C:O3'	12:L:171:THR:HG21	1.93	0.68
10:J:78:G:H2'	10:J:79:U:C1'	2.24	0.68
11:K:44:ASN:OD1	11:K:45:ASN:N	2.27	0.68
11:K:140:VAL:HG11	11:K:189:ALA:HB1	1.75	0.68
13:M:177:PRO:HA	13:M:180:LEU:HB2	1.76	0.68
17:S:77:ILE:HG13	39:o:71:ARG:NH1	2.09	0.68
19:U:44:ARG:CZ	19:U:92:TRP:H	2.07	0.68
19:U:59:ARG:HH11	19:U:60:GLN:HG3	1.58	0.68
20:V:14:SER:HA	20:V:17:ARG:HB2	1.76	0.68
31:g:38:THR:CB	31:g:48:LEU:HB3	2.22	0.68
31:g:55:ARG:HH22	31:g:59:GLY:HA2	1.59	0.68
32:h:89:ARG:HG2	32:h:96:VAL:HA	1.76	0.68
38:n:30:THR:C	38:n:101:ARG:HH12	2.02	0.68
44:t:82:VAL:HG11	44:t:93:ARG:HD2	1.74	0.68
47:w:33:HIS:H	47:w:50:VAL:C	2.02	0.68
4:D:68:LYS:HB2	9:I:253:G:H8	1.59	0.68
6:F:64:MET:CE	6:F:67:HIS:HB2	2.22	0.68
7:G:26:MET:HE2	7:G:59:GLN:HG3	1.75	0.68
9:I:130:A:H2'	9:I:131:C:C6	2.28	0.68
9:I:529:G:H3'	9:I:529:G:N3	2.09	0.68
9:I:719:C:H2'	9:I:720:G:N7	2.08	0.68
9:I:825:C:H1'	27:c:15:ASN:ND2	2.05	0.68
9:I:1060:G:H2'	9:I:1061:U:C6	2.29	0.68
9:I:1525:U:O2'	9:I:1526:G:H5'	1.94	0.68
9:I:2215:A:H3'	9:I:2216:A:C8	2.29	0.68
9:I:2421:A:O2'	9:I:2422:A:O4'	2.06	0.68
9:I:2579:A:H5'	9:I:2599:U:H4'	1.75	0.68
9:I:2585:G:O2'	9:I:2586:C:H5'	1.94	0.68
9:I:2837:G:O4'	9:I:3091:A:H2'	1.92	0.68
9:I:3638:G:H1'	9:I:3642:G:N2	2.09	0.68
9:I:3737:U:H2'	9:I:3738:U:C6	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3849:G:OP1	46:v:15:ARG:NH1	2.27	0.68
10:J:65:A:N6	10:J:106:G:H2'	2.07	0.68
11:K:3:VAL:O	11:K:17:LYS:N	2.25	0.68
12:L:2:ILE:HD12	12:L:82:PHE:CZ	2.29	0.68
13:M:126:VAL:HG22	13:M:154:ASP:OD2	1.93	0.68
14:N:1:ALA:HA	14:N:93:GLU:OE1	1.94	0.68
17:S:58:LEU:HD21	17:S:86:LEU:HD13	1.75	0.68
20:V:102:PHE:C	20:V:110:MET:HG3	2.19	0.68
20:V:114:GLU:HB3	20:V:118:ARG:HD3	1.76	0.68
27:c:74:ILE:CD1	27:c:128:VAL:HG22	2.24	0.68
32:h:13:HIS:HB2	32:h:16:ILE:CD1	2.24	0.68
40:p:63:ARG:CA	40:p:66:ALA:HB3	2.22	0.68
45:u:67:GLY:C	45:u:68:LYS:HD2	2.19	0.68
1:A:4:SER:CA	9:I:1215:A:H8	2.00	0.68
2:B:59:VAL:HG13	2:B:62:ARG:HH21	1.58	0.68
5:E:42:ARG:HG2	25:a:86:ARG:NH1	2.09	0.68
9:I:137:G:O2'	9:I:138:A:H5'	1.94	0.68
9:I:675:A:N1	9:I:714:A:N6	2.41	0.68
9:I:695:A:N1	9:I:796:C:H1'	2.08	0.68
9:I:1858:U:O2	9:I:1859:G:N7	2.27	0.68
9:I:1995:G:C4'	42:r:57:ASN:HD21	2.07	0.68
9:I:2045:U:H2'	9:I:2047:A:C5'	2.23	0.68
9:I:2154:A:H2'	9:I:2155:A:C5'	2.23	0.68
9:I:2367:C:C2	9:I:2407:U:H5''	2.27	0.68
9:I:2520:G:H2'	9:I:2521:A:H8	1.59	0.68
9:I:2545:G:H4'	9:I:4246:C:O4'	1.93	0.68
9:I:2548:A:H2'	9:I:2549:G:C8	2.29	0.68
9:I:2728:U:H2'	9:I:2729:G:O4'	1.93	0.68
9:I:2912:G:H1	9:I:3073:A:P	2.16	0.68
9:I:3114:G:H2'	9:I:3115:U:C6	2.29	0.68
9:I:3194:A:H3'	9:I:3195:A:C8	2.22	0.68
9:I:3238:A:H2'	9:I:3239:A:C8	2.28	0.68
9:I:3393:A:H5''	9:I:3394:A:OP1	1.93	0.68
9:I:3719:A:H4'	9:I:3720:C:H5'	1.75	0.68
9:I:3778:A:C2'	9:I:3779:C:H5'	2.23	0.68
9:I:3816:A:C2'	9:I:3817:G:H5'	2.23	0.68
9:I:4171:G:H2'	9:I:4172:C:C6	2.29	0.68
11:K:119:VAL:HA	11:K:129:LEU:CD1	2.22	0.68
11:K:166:ARG:CA	11:K:171:VAL:HG12	2.18	0.68
11:K:170:TYR:CB	11:K:184:GLU:HA	2.24	0.68
11:K:172:THR:HA	11:K:181:ARG:O	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:56:LEU:HD13	14:N:64:PRO:HB3	1.74	0.68
15:O:8:VAL:HG21	15:O:71:LEU:CD2	2.20	0.68
17:S:23:LYS:HB2	17:S:40:LYS:CB	2.11	0.68
22:X:63:ILE:CG2	22:X:98:ALA:HA	2.23	0.68
23:Y:8:LEU:HD22	23:Y:31:CYS:SG	2.34	0.68
23:Y:168:THR:O	23:Y:182:LYS:NZ	2.26	0.68
32:h:15:VAL:CG1	32:h:40:GLU:HA	2.23	0.68
41:q:35:PHE:O	41:q:58:VAL:HA	1.93	0.68
41:q:79:ARG:HG3	41:q:80:ARG:HG3	1.75	0.68
48:x:37:GLN:HE21	48:x:38:GLN:HG3	1.57	0.68
4:D:27:LYS:CG	4:D:32:GLY:HA2	2.24	0.68
7:G:8:ARG:HH12	9:I:328:A:N6	1.92	0.68
9:I:275:G:C2'	9:I:276:C:H5'	2.23	0.68
9:I:649:G:H2'	9:I:650:C:C6	2.29	0.68
9:I:651:U:N3	9:I:752:A:N6	2.42	0.68
9:I:765:A:C2	9:I:766:A:H1'	2.29	0.68
9:I:1102:C:O2	21:W:103:THR:HG21	1.94	0.68
9:I:1479:A:H1'	9:I:4310:G:H1'	1.75	0.68
9:I:1493:U:H2'	9:I:1494:U:C6	2.28	0.68
9:I:1726:A:H2'	9:I:1727:A:C8	2.28	0.68
9:I:1823:C:H2'	13:M:163:ASN:OD1	1.94	0.68
9:I:1945:C:H2'	9:I:1946:G:H8	1.58	0.68
9:I:2284:G:H4'	9:I:2285:G:OP1	1.94	0.68
9:I:2451:C:O2'	9:I:2452:U:H5''	1.94	0.68
9:I:2858:G:C5'	47:w:1:SER:HA	2.23	0.68
9:I:2928:A:H2'	9:I:2929:G:H8	1.59	0.68
9:I:2935:G:O2'	9:I:3122:G:OP1	2.12	0.68
9:I:3887:U:H2'	9:I:3888:C:H6	1.58	0.68
9:I:3972:A:H5'	37:m:32:LYS:HG2	1.76	0.68
9:I:4051:G:O2'	9:I:4052:C:H5'	1.93	0.68
9:I:4055:U:H4'	17:S:40:LYS:CE	2.24	0.68
9:I:4235:A:H2'	9:I:4236:G:O4'	1.93	0.68
9:I:4242:A:C4'	15:O:3:VAL:HG11	2.22	0.68
9:I:4426:U:H2'	9:I:4427:G:H8	1.58	0.68
10:J:87:C:OP2	10:J:87:C:H2'	1.94	0.68
12:L:7:LYS:CE	12:L:198:GLY:HA2	2.20	0.68
13:M:1:MET:HE1	13:M:16:GLU:CA	2.24	0.68
13:M:138:LEU:CD2	13:M:143:LEU:HD12	2.23	0.68
14:N:163:GLU:OE2	14:N:167:ALA:HB2	1.94	0.68
15:O:86:LEU:CB	15:O:130:ILE:HD12	2.23	0.68
17:S:8:LEU:HD12	17:S:20:MET:CA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:19:LEU:O	18:T:21:ARG:HG2	1.94	0.68
20:V:8:ARG:HE	20:V:43:GLU:CG	2.07	0.68
23:Y:104:MET:SD	23:Y:170:LEU:HB3	2.34	0.68
28:d:44:VAL:CG1	28:d:73:ALA:HB1	2.24	0.68
30:f:5:SER:CA	30:f:68:LYS:H	2.05	0.68
31:g:35:ARG:NH1	31:g:37:TYR:HB2	2.09	0.68
33:i:21:LEU:HD23	33:i:22:THR:N	2.10	0.68
38:n:9:ARG:HA	38:n:12:ARG:NH1	2.08	0.68
38:n:93:ARG:CZ	38:n:98:TYR:H	2.06	0.68
43:s:15:HIS:CD2	43:s:33:LYS:HB2	2.29	0.68
44:t:24:VAL:HG13	44:t:34:ILE:N	2.09	0.68
45:u:28:ALA:N	45:u:40:ILE:O	2.27	0.68
49:y:8:GLN:OE1	49:y:9:THR:N	2.26	0.68
1:A:1:ALA:CA	1:A:6:LYS:HD3	2.24	0.67
1:A:5:MET:HE2	9:I:982:A:O5'	1.94	0.67
2:B:80:LEU:HA	2:B:83:ARG:CB	2.24	0.67
5:E:38:ARG:CB	9:I:734:C:H4'	2.24	0.67
8:H:36:PHE:C	30:f:112:PRO:HA	2.20	0.67
9:I:3:U:H5'	9:I:4:U:OP1	1.94	0.67
9:I:113:U:H2'	9:I:114:G:H8	1.56	0.67
9:I:140:G:H2'	9:I:141:G:H5''	1.76	0.67
9:I:337:A:H2'	9:I:338:C:O4'	1.93	0.67
9:I:413:A:OP2	9:I:427:G:N1	2.27	0.67
9:I:427:G:OP1	9:I:429:A:H1'	1.94	0.67
9:I:1127:C:O2'	9:I:1128:C:H5'	1.94	0.67
9:I:1205:G:C2	9:I:1206:2MG:H1'	2.28	0.67
9:I:1605:C:H2'	9:I:1606:C:H6	1.58	0.67
9:I:1647:C:O2'	9:I:1648:U:H5'	1.92	0.67
9:I:1778:A:OP2	9:I:1861:G:N1	2.26	0.67
9:I:1838:G:H3'	9:I:1839:U:C5	2.30	0.67
9:I:2121:A:H2'	9:I:2122:G:O4'	1.94	0.67
9:I:2123:C:H2'	9:I:2124:C:C6	2.29	0.67
9:I:2265:C:H2'	9:I:2266:U:H6	1.55	0.67
9:I:2487:G:H1'	41:q:91:GLN:NE2	2.09	0.67
9:I:2525:G:H2'	9:I:2526:A:C8	2.29	0.67
9:I:2858:G:H5''	47:w:1:SER:CA	2.22	0.67
9:I:2902:G:H1	9:I:3088:U:H3	0.72	0.67
9:I:3160:G:C5'	17:S:82:ASN:ND2	2.57	0.67
9:I:3358:U:H2'	9:I:3359:U:C2	2.29	0.67
10:J:14:A:OP2	10:J:14:A:H3'	1.94	0.67
10:J:23:G:C5	10:J:55:G:H2'	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:75:ALA:CB	11:K:95:TYR:HA	2.24	0.67
12:L:48:ILE:O	12:L:81:GLU:HA	1.93	0.67
14:N:58:ALA:HB3	14:N:140:ILE:CD1	2.23	0.67
15:O:83:THR:HG23	15:O:132:LEU:C	2.19	0.67
15:O:150:TYR:HB3	15:O:161:VAL:HG21	1.76	0.67
16:R:17:VAL:HA	16:R:55:ILE:C	2.19	0.67
16:R:55:ILE:HA	16:R:123:LYS:O	1.94	0.67
16:R:119:PHE:CE1	16:R:122:LEU:HD22	2.29	0.67
18:T:90:VAL:HA	18:T:94:THR:OG1	1.92	0.67
18:T:95:LEU:O	18:T:100:ILE:HG12	1.94	0.67
18:T:127:VAL:N	18:T:132:ARG:HH21	1.92	0.67
19:U:88:ASN:OD1	19:U:89:VAL:N	2.27	0.67
20:V:28:LEU:O	20:V:32:GLU:HA	1.95	0.67
22:X:151:GLU:O	22:X:197:VAL:HA	1.93	0.67
23:Y:56:GLU:HB2	23:Y:198:LEU:HD23	1.76	0.67
23:Y:66:VAL:CG1	23:Y:70:GLN:HG2	2.23	0.67
27:c:51:GLU:O	27:c:57:GLU:N	2.26	0.67
30:f:4:VAL:HG22	30:f:6:ASP:OD1	1.94	0.67
40:p:64:ILE:CA	40:p:67:ALA:HB3	2.23	0.67
49:y:30:ARG:HG3	49:y:33:HIS:HB2	1.75	0.67
1:A:84:ARG:HD3	29:e:51:PRO:CB	2.23	0.67
2:B:24:THR:CG2	2:B:65:LEU:HB3	2.23	0.67
4:D:9:VAL:HG21	4:D:18:ILE:HD11	1.75	0.67
4:D:44:HIS:CE1	9:I:254:G:H1'	2.29	0.67
5:E:47:SER:OG	25:a:49:TYR:O	2.05	0.67
6:F:20:ALA:HB3	6:F:42:MET:CE	2.22	0.67
7:G:27:ARG:HG2	7:G:30:ILE:HD12	1.76	0.67
9:I:693:A:H5''	30:f:43:SER:N	2.09	0.67
9:I:1107:G:H4'	9:I:1190:A:H1'	1.76	0.67
9:I:1299:G:H1'	9:I:1302:C:N4	2.08	0.67
9:I:1376:A:OP1	26:b:94:ARG:HD2	1.94	0.67
9:I:1405:U:H2'	9:I:1406:5MC:H6	1.59	0.67
9:I:1555:G:H2'	9:I:1556:A:C8	2.28	0.67
9:I:1678:G:O2'	9:I:1679:C:H5'	1.94	0.67
9:I:1810:A:OP2	44:t:18:LYS:NZ	2.18	0.67
9:I:1882:A:H2	9:I:1893:C:C2	2.11	0.67
9:I:2565:G:H2'	9:I:2566:C:C5	2.29	0.67
9:I:2873:U:H2'	9:I:2873:U:O2	1.93	0.67
9:I:3009:A:OP1	9:I:3051:C:H5'	1.93	0.67
9:I:3216:A:H2'	9:I:3217:G:C8	2.28	0.67
9:I:3777:C:C6	9:I:3883:G:H1'	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3799:U:H1'	14:N:132:ARG:CD	2.24	0.67
9:I:3848:C:C4'	46:v:25:SER:HA	2.25	0.67
9:I:3905:A:O2'	9:I:3906:A:H5'	1.95	0.67
9:I:4162:G:H1'	15:O:109:SER:CB	2.17	0.67
11:K:144:GLU:OE2	11:K:150:GLY:N	2.26	0.67
11:K:198:GLU:CD	11:K:198:GLU:H	1.98	0.67
11:K:251:THR:O	11:K:252:LYS:HG2	1.93	0.67
12:L:33:ARG:CZ	12:L:52:THR:HA	2.24	0.67
12:L:38:LYS:HD3	12:L:45:TYR:OH	1.95	0.67
16:R:17:VAL:HG22	16:R:55:ILE:CB	2.24	0.67
17:S:38:ILE:HD11	17:S:112:PHE:HZ	1.59	0.67
17:S:63:VAL:CG1	17:S:103:VAL:HG12	2.24	0.67
17:S:67:LYS:C	17:S:78:ARG:HD2	2.18	0.67
17:S:105:ARG:NE	17:S:122:VAL:HG22	2.09	0.67
20:V:90:ARG:HH21	20:V:91:ALA:HB3	1.59	0.67
22:X:146:LYS:C	22:X:202:PHE:HB3	2.18	0.67
30:f:70:LEU:HD12	30:f:70:LEU:O	1.94	0.67
44:t:43:LYS:HG2	44:t:58:VAL:HB	1.75	0.67
45:u:68:LYS:HE3	45:u:68:LYS:HA	1.74	0.67
46:v:61:VAL:HG13	46:v:66:ASN:C	2.19	0.67
47:w:37:PHE:HZ	47:w:50:VAL:HG11	1.59	0.67
1:A:73:LEU:HD22	9:I:1357:U:H4'	1.77	0.67
3:C:2:VAL:O	9:I:134:C:N4	2.27	0.67
3:C:7:ALA:HB3	3:C:18:GLN:O	1.95	0.67
9:I:334:C:H4'	9:I:1433:A:O4'	1.94	0.67
9:I:789:A:H2'	9:I:790:G:O4'	1.94	0.67
9:I:990:U:H3	9:I:1211:U:H5'	1.59	0.67
9:I:1116:A:H5'	28:d:107:GLN:NE2	2.10	0.67
9:I:1826:G:H2'	9:I:1827:G:C8	2.28	0.67
9:I:1875:G:O2'	9:I:1876:G:H5'	1.93	0.67
9:I:1994:G:H5'	42:r:6:LYS:HE3	1.76	0.67
9:I:2028:A:C2	9:I:3536:A:H2'	2.30	0.67
9:I:2127:A:N6	9:I:2137:A:O5'	2.26	0.67
9:I:2174:G:O2'	13:M:69:ARG:HD3	1.94	0.67
9:I:2281:A:H5'	11:K:216:ARG:HH12	1.60	0.67
9:I:2403:A:O2'	9:I:2404:A:O5'	2.10	0.67
9:I:2615:C:C2'	9:I:2616:G:H5'	2.25	0.67
9:I:2656:G:H4'	41:q:24:LYS:HB3	1.76	0.67
9:I:2680:G:N2	9:I:2681:G:H1'	2.09	0.67
9:I:2863:G:H2'	9:I:2864:C:H6	1.56	0.67
9:I:2916:G:O6	9:I:3070:U:C2	2.46	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2962:U:N3	9:I:3018:G:N1	2.06	0.67
9:I:3366:A:N1	9:I:3367:G:H1'	2.10	0.67
9:I:3446:A:P	17:S:55:GLY:HA2	2.35	0.67
9:I:3788:G:H4'	10:J:45:A:N1	2.09	0.67
9:I:3793:U:C2	9:I:3812:G:N2	2.62	0.67
9:I:3852:A:H8	9:I:3852:A:OP1	1.77	0.67
9:I:3864:G:H2'	9:I:3865:G:C8	2.27	0.67
9:I:3870:A:N1	38:n:106:ALA:HB1	2.09	0.67
9:I:4177:C:H4'	12:L:13:ARG:NH2	2.09	0.67
9:I:4229:G:C6	9:I:4263:U:N3	2.59	0.67
11:K:132:ARG:HD2	11:K:185:ALA:HB1	1.77	0.67
12:L:8:LYS:HB3	12:L:198:GLY:N	2.10	0.67
14:N:73:VAL:HG21	14:N:76:PHE:HD2	1.59	0.67
14:N:124:ARG:HD3	14:N:160:LYS:O	1.94	0.67
14:N:126:ASN:OD1	14:N:157:THR:N	2.27	0.67
15:O:47:ASN:O	15:O:48:THR:HG23	1.95	0.67
15:O:151:ARG:H	15:O:161:VAL:HB	1.59	0.67
18:T:1:MET:C	18:T:2:ARG:HD2	2.19	0.67
21:W:199:GLY:HA3	21:W:210:TYR:OH	1.94	0.67
24:Z:42:GLY:CA	24:Z:53:LYS:HB3	2.24	0.67
26:b:26:VAL:CG1	26:b:42:VAL:HG21	2.24	0.67
29:e:4:ILE:HD11	29:e:70:VAL:CB	2.24	0.67
38:n:42:ASN:ND2	38:n:45:GLU:OE2	2.26	0.67
41:q:64:VAL:N	41:q:96:VAL:HA	2.09	0.67
44:t:22:GLY:HA3	44:t:35:VAL:HG12	1.77	0.67
45:u:29:ILE:HA	45:u:38:LEU:O	1.93	0.67
46:v:22:LEU:HA	46:v:54:ASP:OD1	1.94	0.67
46:v:33:THR:HG22	46:v:47:HIS:HD1	1.57	0.67
47:w:17:ARG:HE	47:w:21:LEU:HD13	1.59	0.67
49:y:22:THR:O	49:y:46:MET:CE	2.43	0.67
3:C:47:GLU:OE1	9:I:625:G:H4'	1.94	0.67
4:D:65:SER:HA	9:I:265:G:N2	2.10	0.67
5:E:14:ILE:HG22	5:E:20:ILE:CD1	2.23	0.67
5:E:20:ILE:HB	9:I:717:A:H2	1.54	0.67
5:E:42:ARG:N	9:I:733:G:N2	2.42	0.67
9:I:149:U:H3'	9:I:169:U:O4	1.94	0.67
9:I:334:C:H2'	9:I:335:A:C8	2.30	0.67
9:I:546:A:OP2	23:Y:1:ALA:HA	1.94	0.67
9:I:627:G:H2'	9:I:628:A:O4'	1.94	0.67
9:I:729:G:O2'	9:I:765:A:O4'	2.13	0.67
9:I:881:C:O2'	9:I:882:C:O5'	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1301:C:H5	32:h:16:ILE:HD11	1.59	0.67
9:I:1354:G:H2'	9:I:1355:G:C8	2.29	0.67
9:I:1404:G:O2'	9:I:4423:MA6:O4'	2.13	0.67
9:I:1584:A:H3'	44:t:6:ARG:HD3	1.76	0.67
9:I:1584:A:H2'	44:t:6:ARG:NH1	2.08	0.67
9:I:1789:G:O2'	9:I:1790:U:H5'	1.94	0.67
9:I:2136:G:H5''	18:T:129:LYS:CB	2.25	0.67
9:I:2739:G:O2'	9:I:2740:A:H5'	1.93	0.67
9:I:3059:C:H5''	11:K:25:LYS:HZ1	1.58	0.67
9:I:3212:G:N2	9:I:3236:U:O2	2.24	0.67
9:I:3691:U:H1'	9:I:3692:A:C8	2.30	0.67
9:I:3790:U:O4	38:n:9:ARG:NH1	2.26	0.67
9:I:4085:C:H2'	9:I:4086:G:H8	1.59	0.67
9:I:4171:G:C6	9:I:4225:G:N1	2.62	0.67
10:J:96:C:H5''	10:J:97:G:OP2	1.94	0.67
11:K:109:LEU:HD12	11:K:126:GLY:HA3	1.76	0.67
12:L:9:VAL:HG11	39:o:3:ILE:CG2	2.25	0.67
13:M:101:TYR:O	13:M:104:ALA:HB3	1.95	0.67
13:M:102:ARG:HB3	13:M:200:LEU:O	1.94	0.67
16:R:15:TRP:HB2	16:R:137:PRO:CG	2.24	0.67
20:V:2:ARG:HA	20:V:5:LYS:CE	2.25	0.67
20:V:78:LYS:HA	20:V:82:GLU:OE2	1.94	0.67
24:Z:95:GLY:HA3	24:Z:112:HIS:O	1.94	0.67
30:f:4:VAL:O	30:f:5:SER:OG	2.13	0.67
30:f:8:VAL:HB	30:f:23:THR:HG23	1.77	0.67
34:j:20:THR:HA	36:l:33:THR:OG1	1.94	0.67
37:m:15:LYS:H	37:m:26:ILE:CG1	2.08	0.67
41:q:3:ALA:CB	41:q:41:ILE:HG12	2.24	0.67
42:r:6:LYS:HZ3	42:r:8:ARG:HB2	1.59	0.67
44:t:10:VAL:CG2	44:t:69:VAL:HB	2.24	0.67
44:t:44:HIS:HD2	44:t:57:ILE:CG2	2.08	0.67
49:y:27:GLY:CA	49:y:37:ARG:HH21	2.06	0.67
4:D:43:VAL:HG13	4:D:71:THR:CA	2.24	0.67
5:E:30:ALA:O	9:I:719:C:O2'	2.13	0.67
8:H:33:ARG:C	30:f:112:PRO:HD3	2.19	0.67
9:I:403:G:H4'	9:I:438:U:C2	2.30	0.67
9:I:409:G:H2'	9:I:428:U:C4	2.29	0.67
9:I:550:U:O2'	31:g:82:ARG:HD2	1.95	0.67
9:I:651:U:C4	9:I:752:A:N7	2.63	0.67
9:I:730:G:O2'	9:I:731:C:H5'	1.94	0.67
9:I:736:C:O2'	9:I:737:C:H5'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1110:A:N6	22:X:175:HIS:O	2.20	0.67
9:I:1307:U:H2'	9:I:1308:G:C8	2.24	0.67
9:I:1818:C:H2'	9:I:1819:G:C8	2.29	0.67
9:I:2042:C:H5''	9:I:2043:G:OP2	1.95	0.67
9:I:2074:A:H1'	9:I:3549:C:C5	2.29	0.67
9:I:2141:U:H3'	9:I:2142:U:C5	2.29	0.67
9:I:2307:U:H5'	18:T:36:LYS:HZ1	1.60	0.67
9:I:2618:G:C4'	37:m:22:VAL:HG13	2.24	0.67
9:I:2850:G:H2'	9:I:2851:C:H6	1.60	0.67
9:I:3148:A:H1'	9:I:4317:A:H5'	1.77	0.67
9:I:3208:U:OP1	9:I:3209:G:H4'	1.94	0.67
9:I:3375:C:H2'	9:I:3376:U:O4'	1.94	0.67
9:I:3698:G:OP2	11:K:146:LYS:NZ	2.27	0.67
9:I:3753:U:O2	9:I:3753:U:H2'	1.93	0.67
9:I:3788:G:H3'	9:I:3788:G:H8	1.59	0.67
9:I:3824:G:N2	9:I:3830:A:H2	1.91	0.67
9:I:4277:U:H2'	9:I:4277:U:O2	1.95	0.67
9:I:4323:A:H2'	9:I:4324:C:O4'	1.95	0.67
9:I:4376:U:H2'	9:I:4377:G:H8	1.59	0.67
9:I:4405:C:H3'	9:I:4408:G:N7	2.09	0.67
11:K:91:ALA:CB	11:K:105:ALA:HB2	2.23	0.67
14:N:168:LEU:O	14:N:172:PHE:HD2	1.75	0.67
17:S:70:ARG:O	17:S:71:ARG:NE	2.27	0.67
19:U:97:GLN:N	19:U:100:LYS:HD3	2.08	0.67
23:Y:78:ALA:C	23:Y:85:THR:HG23	2.19	0.67
23:Y:122:ILE:O	23:Y:128:VAL:HG23	1.94	0.67
28:d:9:ARG:NH2	28:d:104:ASP:OD2	2.28	0.67
34:j:9:VAL:HG22	34:j:17:PHE:CD2	2.29	0.67
38:n:33:HIS:HD1	38:n:52:THR:C	2.02	0.67
42:r:68:ASP:HB2	42:r:109:ASP:CB	2.23	0.67
43:s:44:LYS:NZ	43:s:55:VAL:HG12	2.10	0.67
44:t:48:VAL:HG23	44:t:51:LEU:O	1.94	0.67
9:I:291:G:N7	9:I:292:G:H1'	2.08	0.67
9:I:411:A:H1'	9:I:413:A:C4'	2.24	0.67
9:I:423:G:H2'	9:I:424:G:H8	1.60	0.67
9:I:894:G:H2'	9:I:895:C:H6	1.60	0.67
9:I:958:A:H5''	9:I:959:U:OP2	1.95	0.67
9:I:1141:G:H2'	9:I:1142:G:H5'	1.76	0.67
9:I:1553:A:C2'	9:I:1554:G:H5'	2.24	0.67
9:I:1717:A:C3'	9:I:1718:A:H8	2.05	0.67
9:I:1778:A:N1	9:I:1861:G:H2'	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1837:C:H5'	44:t:1:ALA:O	1.94	0.67
9:I:1888:G:H2'	9:I:1890:U:C5	2.30	0.67
9:I:2116:A:O2'	13:M:199:MET:HE1	1.94	0.67
9:I:2677:U:H5''	49:y:29:ARG:NH2	2.09	0.67
9:I:2974:C:H2'	9:I:2975:U:H6	1.57	0.67
9:I:3147:G:C6	20:V:9:GLN:HB2	2.29	0.67
9:I:3200:C:H4'	9:I:3201:G:OP2	1.94	0.67
9:I:3201:G:O6	9:I:3245:U:C4	2.47	0.67
9:I:3214:U:H3'	9:I:3215:G:C8	2.29	0.67
9:I:3666:U:OP2	9:I:3667:A:H3'	1.94	0.67
9:I:3775:A:O2'	9:I:3882:A:N7	2.27	0.67
9:I:3805:A:H5'	14:N:76:PHE:CE2	2.29	0.67
9:I:3808:A:H5'	14:N:34:THR:OG1	1.94	0.67
9:I:3826:C:H2'	9:I:3829:A:N3	2.10	0.67
9:I:3850:U:H2'	9:I:3851:G:C8	2.30	0.67
9:I:3896:U:C1'	9:I:3898:U:C5	2.77	0.67
9:I:3914:C:H2'	9:I:3915:G:H8	1.60	0.67
9:I:4037:G:H1'	9:I:4259:A:O2'	1.95	0.67
9:I:4167:G:N3	9:I:4167:G:H2'	2.09	0.67
9:I:4242:A:H1'	15:O:66:THR:HA	1.76	0.67
9:I:4324:C:C2'	9:I:4325:G:H5'	2.24	0.67
9:I:4342:G:H8	39:o:94:ALA:HB2	1.58	0.67
11:K:96:LYS:C	11:K:96:LYS:HD3	2.20	0.67
11:K:226:PRO:HG3	11:K:233:GLY:N	2.08	0.67
12:L:112:THR:HG23	12:L:167:ASN:O	1.94	0.67
13:M:143:LEU:HB3	13:M:146:VAL:CG2	2.23	0.67
14:N:66:ILE:CD1	14:N:86:CYS:HB3	2.23	0.67
16:R:59:ALA:HB3	16:R:126:ALA:HA	1.75	0.67
19:U:96:ILE:CG2	19:U:100:LYS:HD3	2.25	0.67
20:V:22:ARG:HD2	20:V:69:ARG:CG	2.24	0.67
20:V:45:ARG:HB3	20:V:49:GLU:CG	2.24	0.67
24:Z:6:LEU:HG	24:Z:28:THR:CG2	2.23	0.67
27:c:103:VAL:O	27:c:109:VAL:HA	1.95	0.67
29:e:1:ARG:HD3	29:e:73:VAL:HG12	1.75	0.67
41:q:2:TYR:HA	41:q:14:VAL:O	1.95	0.67
41:q:6:GLN:CA	41:q:11:GLN:HA	2.25	0.67
43:s:29:THR:HG23	43:s:85:VAL:O	1.94	0.67
44:t:3:LYS:O	44:t:82:VAL:HG21	1.95	0.67
44:t:11:ILE:HG13	44:t:20:LYS:O	1.95	0.67
1:A:6:LYS:HG3	9:I:1215:A:H5''	1.76	0.67
3:C:4:ILE:HG13	3:C:21:VAL:CG1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:28:ARG:HB3	9:I:110:G:H5'	1.76	0.67
9:I:19:U:H2'	9:I:20:G:O4'	1.94	0.67
9:I:122:U:H1'	9:I:289:C:C2'	2.25	0.67
9:I:162:C:H2'	9:I:163:G:C4'	2.25	0.67
9:I:285:C:H2'	9:I:286:U:H6	1.60	0.67
9:I:1347:U:H2'	9:I:1348:A:C8	2.29	0.67
9:I:1420:G:H2'	9:I:1421:G:C5'	2.25	0.67
9:I:1512:U:C4	9:I:2026:A:N7	2.63	0.67
9:I:1773:G:H2'	9:I:1773:G:N3	2.09	0.67
9:I:1798:G:P	44:t:84:PHE:O	2.53	0.67
9:I:1984:C:O2'	9:I:1985:C:H5'	1.95	0.67
9:I:2551:A:N7	9:I:2580:A:H2'	2.09	0.67
9:I:2618:G:O4'	37:m:22:VAL:HG13	1.94	0.67
9:I:2631:G:H2'	9:I:2632:G:O4'	1.93	0.67
9:I:2711:U:O2	9:I:2726:G:N2	2.28	0.67
9:I:2949:G:H2'	9:I:2950:G:H5'	1.76	0.67
9:I:3323:A:H5'	9:I:3324:C:OP2	1.95	0.67
9:I:3742:C:C2'	9:I:3743:U:H5'	2.25	0.67
9:I:3764:A:H2'	9:I:3765:G:H8	1.58	0.67
9:I:3839:G:C4'	9:I:3840:A:H5''	2.09	0.67
9:I:3896:U:C2	9:I:3899:G:N7	2.62	0.67
9:I:3956:C:H2'	9:I:3957:C:H6	1.59	0.67
9:I:4162:G:N9	15:O:109:SER:HB2	2.10	0.67
10:J:108:A:H2'	10:J:109:C:C6	2.29	0.67
13:M:123:LYS:NZ	13:M:191:ASP:HB3	2.09	0.67
14:N:48:LEU:HD21	14:N:147:ARG:NE	2.09	0.67
17:S:73:ASP:CB	39:o:79:VAL:HB	2.23	0.67
19:U:119:LEU:HG	19:U:123:LYS:HG2	1.76	0.67
20:V:14:SER:O	20:V:18:GLN:HG3	1.94	0.67
20:V:25:ALA:HB2	20:V:69:ARG:NH2	2.10	0.67
23:Y:66:VAL:HG13	23:Y:70:GLN:HG2	1.77	0.67
25:a:21:MET:CE	25:a:24:ARG:HH21	2.07	0.67
26:b:29:LEU:HD11	26:b:41:ILE:HG21	1.76	0.67
28:d:48:PRO:HB3	28:d:81:THR:CG2	2.25	0.67
40:p:45:ALA:O	40:p:49:ARG:HG3	1.94	0.67
40:p:89:ILE:HG21	40:p:97:ILE:HD11	1.77	0.67
43:s:25:GLU:CD	43:s:26:LYS:HE3	2.20	0.67
43:s:45:ALA:O	43:s:49:LYS:HG2	1.95	0.67
46:v:43:CYS:HB2	46:v:49:LEU:HD21	1.76	0.67
48:x:5:LEU:CD1	48:x:13:LEU:HD11	2.25	0.67
48:x:11:GLU:O	48:x:14:ASN:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:x:22:ARG:HD2	48:x:26:ASN:ND2	2.10	0.67
49:y:44:ARG:NH1	49:y:45:GLY:HA2	2.10	0.67
1:A:51:PRO:HA	9:I:1014:G:H4'	1.77	0.67
5:E:4:TYR:HD2	5:E:48:LEU:HD11	1.59	0.67
5:E:27:GLY:O	5:E:28:THR:OG1	2.06	0.67
5:E:45:TYR:HB3	25:a:86:ARG:NE	2.06	0.67
7:G:23:ARG:HD2	9:I:1437:G:P	2.35	0.67
9:I:49:A:H1'	9:I:51:C:C6	2.30	0.67
9:I:579:C:H2'	9:I:580:G:O4'	1.95	0.67
9:I:614:G:H1	9:I:624:U:H3	0.73	0.67
9:I:665:G:O6	9:I:739:U:O4	2.13	0.67
9:I:696:U:O4	9:I:797:U:H5'	1.95	0.67
9:I:782:C:P	9:I:4419:G:H4'	2.35	0.67
9:I:818:A:H4'	9:I:819:U:OP2	1.93	0.67
9:I:958:A:H4'	9:I:983:C:O2'	1.95	0.67
9:I:1043:A:N7	9:I:1044:C:H1'	2.10	0.67
9:I:1075:U:H2'	9:I:1076:G:H8	1.58	0.67
9:I:1077:U:H3	24:Z:81:THR:HG21	1.59	0.67
9:I:1395:A:C2	24:Z:15:THR:HG21	2.29	0.67
9:I:1543:G:C2'	9:I:1544:A:H5'	2.25	0.67
9:I:1639:U:C2'	9:I:1641:G:H22	2.07	0.67
9:I:1779:A:C2'	9:I:1780:U:H5'	2.25	0.67
9:I:2024:G:H2'	9:I:2025:U:C6	2.28	0.67
9:I:2066:U:H2'	9:I:2067:U:H6	1.60	0.67
9:I:2192:C:H5''	11:K:38:LYS:HD3	1.75	0.67
9:I:2469:A:H1'	9:I:2484:A:C6	2.30	0.67
9:I:2717:G:P	41:q:68:ARG:HH22	2.17	0.67
9:I:2919:G:H2'	9:I:2920:G:C1'	2.25	0.67
9:I:3183:A:H2'	9:I:3184:A:C8	2.29	0.67
9:I:3311:G:H3'	11:K:155:ARG:NH1	2.10	0.67
9:I:3515:C:OP1	33:i:8:THR:HG21	1.94	0.67
9:I:3792:A:C2'	9:I:3793:U:H5'	2.24	0.67
9:I:3838:U:H1'	9:I:3840:A:C2'	2.25	0.67
9:I:4034:C:H2'	9:I:4035:A:O4'	1.95	0.67
9:I:4048:U:H2'	9:I:4049:U:C6	2.29	0.67
9:I:4173:A:C4'	12:L:194:PRO:HG3	2.19	0.67
9:I:4186:G:H21	9:I:4342:G:C5'	2.08	0.67
9:I:4293:A:H1'	9:I:4295:G:OP2	1.94	0.67
9:I:4342:G:H3'	39:o:93:LYS:HA	1.77	0.67
10:J:17:G:H3'	10:J:18:C:H5	1.59	0.67
11:K:80:LEU:HD22	11:K:90:ILE:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:16:THR:CG2	12:L:20:VAL:HB	2.25	0.67
12:L:16:THR:OG1	12:L:20:VAL:HB	1.94	0.67
14:N:68:LYS:HB3	14:N:81:GLY:C	2.20	0.67
14:N:134:GLN:HA	14:N:137:PHE:HD1	1.60	0.67
17:S:25:LEU:HD12	17:S:38:ILE:HB	1.77	0.67
19:U:21:ALA:O	19:U:24:THR:OG1	2.13	0.67
21:W:7:LEU:HB2	21:W:40:LEU:HD11	1.77	0.67
24:Z:42:GLY:HA3	24:Z:53:LYS:CB	2.25	0.67
25:a:84:VAL:O	25:a:84:VAL:HG13	1.95	0.67
27:c:19:ALA:HB3	27:c:21:LYS:HG3	1.76	0.67
28:d:19:LYS:HB3	28:d:59:ASP:OD1	1.95	0.67
40:p:105:PHE:CZ	40:p:109:VAL:HG23	2.30	0.67
42:r:6:LYS:NZ	42:r:8:ARG:HB2	2.10	0.67
43:s:10:VAL:CG2	43:s:35:ALA:H	2.08	0.67
43:s:77:ARG:CZ	43:s:80:TRP:HE1	2.07	0.67
45:u:26:PHE:HB2	45:u:27:PRO:HD2	1.75	0.67
3:C:63:GLN:HG2	9:I:226:G:C4	2.29	0.67
7:G:27:ARG:HH12	9:I:1437:G:P	2.17	0.67
9:I:374:U:C2'	9:I:375:G:H5'	2.24	0.67
9:I:777:G:O5'	9:I:777:G:H8	1.77	0.67
9:I:1254:G:O2'	9:I:1257:G:N3	2.25	0.67
9:I:1474:U:N3	9:I:4333:G:C6	2.63	0.67
9:I:1586:G:C2'	9:I:1587:U:H5'	2.24	0.67
9:I:1744:A:O2'	18:T:69:ARG:NH2	2.28	0.67
9:I:1787:G:O6	9:I:1853:C:C4	2.47	0.67
9:I:1798:G:H5''	9:I:1799:A:OP1	1.95	0.67
9:I:1851:C:H2'	9:I:1852:A:C8	2.29	0.67
9:I:1870:G:H2'	9:I:1923:A:H8	1.59	0.67
9:I:1899:U:H2'	9:I:1900:G:C8	2.30	0.67
9:I:2136:G:OP1	18:T:129:LYS:HD3	1.95	0.67
9:I:2172:C:H2'	9:I:2173:C:C6	2.30	0.67
9:I:2357:G:C3'	46:v:68:LYS:HZ1	2.06	0.67
9:I:2392:C:O2'	9:I:2393:A:H5'	1.95	0.67
9:I:2415:C:H2'	9:I:2416:C:C6	2.30	0.67
9:I:2657:G:P	41:q:24:LYS:HZ3	2.14	0.67
9:I:2915:G:H2'	9:I:2989:A:N1	2.10	0.67
9:I:3286:G:O5'	11:K:203:VAL:HG13	1.94	0.67
9:I:3684:G:O2'	9:I:3685:A:H5'	1.94	0.67
9:I:3775:A:H2'	9:I:3776:G:C5'	2.24	0.67
9:I:3801:G:H4'	9:I:3802:G:H5'	1.76	0.67
9:I:4197:C:C6	9:I:4197:C:O5'	2.48	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4242:A:H1'	15:O:66:THR:N	2.10	0.67
13:M:4:VAL:HG12	13:M:11:ALA:N	2.10	0.67
16:R:38:GLY:CA	16:R:41:LYS:HG2	2.25	0.67
17:S:78:ARG:H	39:o:70:GLU:C	2.01	0.67
19:U:135:VAL:HG12	19:U:136:MET:SD	2.34	0.67
21:W:70:LYS:NZ	21:W:202:ASP:OD1	2.18	0.67
22:X:49:ALA:CA	22:X:74:ILE:HD11	2.24	0.67
22:X:112:ALA:O	22:X:199:VAL:HG11	1.94	0.67
26:b:77:ARG:CB	26:b:84:TYR:HB2	2.22	0.67
29:e:25:ALA:HA	29:e:79:THR:HG23	1.75	0.67
30:f:21:THR:HG23	30:f:32:TRP:HB3	1.77	0.67
37:m:23:ILE:HG12	37:m:37:GLN:CD	2.20	0.67
39:o:47:ILE:HG22	39:o:99:LEU:HB2	1.75	0.67
40:p:11:ALA:C	40:p:15:LYS:HZ3	2.03	0.67
43:s:42:GLU:HG2	43:s:43:ILE:N	2.09	0.67
43:s:44:LYS:O	43:s:48:GLN:N	2.20	0.67
45:u:30:ILE:HD13	45:u:70:ILE:HD13	1.75	0.67
47:w:53:LYS:C	47:w:57:VAL:HG22	2.20	0.67
3:C:12:LYS:HD3	9:I:44:G:OP2	1.93	0.67
9:I:79:A:H2'	9:I:80:A:H8	1.58	0.67
9:I:156:U:H3	9:I:163:G:H1	1.42	0.67
9:I:373:A:H2'	9:I:374:U:C5	2.30	0.67
9:I:500:C:O2'	9:I:548:C:O2'	2.10	0.67
9:I:576:G:H2'	9:I:577:C:C6	2.29	0.67
9:I:696:U:H1'	9:I:785:G:H1'	1.77	0.67
9:I:975:G:C8	9:I:1357:U:H2'	2.29	0.67
9:I:1229:C:O2'	9:I:1230:G:H5'	1.95	0.67
9:I:1237:A:OP1	9:I:1334:U:O2'	2.12	0.67
9:I:1840:A:H3'	9:I:1841:C:C6	2.30	0.67
9:I:2016:C:O2'	9:I:2017:C:H5'	1.95	0.67
9:I:2035:G:H2'	9:I:2036:G:O4'	1.95	0.67
9:I:2217:C:H2'	9:I:2218:A:H5'	1.76	0.67
9:I:2567:A:C4'	9:I:3968:U:H4'	2.22	0.67
9:I:3062:G:O2'	11:K:58:LYS:NZ	2.25	0.67
9:I:3327:C:HO2'	9:I:3328:U:P	2.18	0.67
9:I:3348:A:H1'	9:I:3727:U:H1'	1.75	0.67
9:I:3495:C:H1'	9:I:4183:U:O4	1.94	0.67
9:I:3806:U:H4'	14:N:67:THR:OG1	1.94	0.67
9:I:3939:2MG:HM23	9:I:3940:G:C1'	2.25	0.67
9:I:4168:G:H3'	9:I:4168:G:OP2	1.95	0.67
9:I:4242:A:O5'	15:O:68:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:15:G:OP2	10:J:107:A:H4'	1.95	0.67
13:M:1:MET:HE1	13:M:16:GLU:N	2.10	0.67
13:M:2:GLU:HB3	13:M:11:ALA:HB1	1.74	0.67
13:M:5:LEU:CD2	13:M:7:ASP:H	2.07	0.67
13:M:7:ASP:OD1	13:M:8:ALA:N	2.28	0.67
15:O:104:LEU:HB2	15:O:112:VAL:CB	2.23	0.67
16:R:18:VAL:CB	16:R:56:VAL:HG13	2.23	0.67
17:S:52:VAL:O	17:S:53:LYS:HD3	1.95	0.67
20:V:21:PHE:CE2	20:V:47:VAL:HG22	2.30	0.67
20:V:103:ARG:HA	20:V:110:MET:HE3	1.77	0.67
21:W:70:LYS:NZ	21:W:202:ASP:HA	2.10	0.67
22:X:37:LYS:HD2	22:X:37:LYS:N	2.10	0.67
22:X:107:LYS:HD2	22:X:110:LEU:CD1	2.25	0.67
22:X:155:ARG:HD3	22:X:159:ALA:O	1.94	0.67
23:Y:98:ASP:OD1	23:Y:99:ASN:N	2.28	0.67
23:Y:144:ILE:HG23	23:Y:148:ALA:HB3	1.76	0.67
24:Z:40:GLY:HA3	24:Z:58:ALA:N	2.10	0.67
27:c:87:ARG:O	27:c:88:LYS:HB3	1.93	0.67
31:g:49:ARG:HB3	31:g:65:TYR:CE2	2.30	0.67
43:s:88:LYS:HB3	43:s:89:GLU:OE1	1.94	0.67
44:t:10:VAL:HA	44:t:71:ILE:CA	2.25	0.67
46:v:36:HIS:O	46:v:69:PHE:HA	1.94	0.67
47:w:46:VAL:HG22	47:w:48:LEU:CD2	2.23	0.67
8:H:28:LEU:HG	30:f:76:GLY:HA3	1.76	0.66
9:I:676:U:H3	9:I:712:G:N2	1.87	0.66
9:I:823:G:O2'	27:c:2:MET:HE3	1.94	0.66
9:I:1156:A:HO2'	9:I:1179:A:H2	1.42	0.66
9:I:1376:A:C2'	26:b:6:ILE:HD11	2.25	0.66
9:I:1564:A:O2'	9:I:1565:U:H5'	1.96	0.66
9:I:1703:A:H3'	9:I:1704:A:H8	1.60	0.66
9:I:1750:G:H2'	9:I:1751:A:O4'	1.94	0.66
9:I:1799:A:H5''	9:I:1800:A:OP2	1.94	0.66
9:I:1875:G:C2'	9:I:1876:G:H5'	2.26	0.66
9:I:2039:G:O6	9:I:2054:U:O4	2.12	0.66
9:I:2206:A:H2'	9:I:2207:G:O4'	1.95	0.66
9:I:3285:A:H4'	11:K:204:LEU:HB3	1.77	0.66
9:I:3395:A:O2'	9:I:3396:C:H5'	1.94	0.66
9:I:3495:C:H4'	9:I:4183:U:C2	2.30	0.66
9:I:3783:G:N2	9:I:3840:A:OP2	2.21	0.66
9:I:3788:G:O3'	10:J:45:A:C2	2.47	0.66
9:I:3797:G:C3'	14:N:120:SER:HA	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3866:U:H3'	9:I:3867:G:C8	2.29	0.66
9:I:3879:C:H2'	9:I:3880:A:O4'	1.95	0.66
9:I:3888:C:H2'	9:I:3889:C:C6	2.29	0.66
9:I:4022:U:C2	9:I:4029:G:O6	2.48	0.66
9:I:4093:G:N7	11:K:235:GLU:HG2	2.09	0.66
9:I:4176:A:O2'	12:L:13:ARG:CD	2.41	0.66
9:I:4196:G:C2	9:I:4197:C:C4	2.82	0.66
9:I:4327:U:O2'	9:I:4328:G:H5'	1.95	0.66
11:K:77:VAL:HG22	11:K:93:VAL:N	2.09	0.66
11:K:77:VAL:HG21	11:K:91:ALA:CB	2.24	0.66
11:K:144:GLU:OE2	11:K:149:LYS:N	2.29	0.66
12:L:51:THR:N	12:L:79:LEU:HD23	2.09	0.66
12:L:202:ILE:CG2	12:L:204:LYS:HE2	2.25	0.66
13:M:119:ILE:HB	13:M:186:VAL:C	2.19	0.66
14:N:36:ASN:ND2	14:N:152:ASP:OD1	2.29	0.66
24:Z:148:ARG:HG2	24:Z:149:GLY:N	2.08	0.66
25:a:4:TYR:HB3	25:a:89:VAL:CG2	2.24	0.66
26:b:87:PRO:HD2	26:b:151:ALA:HA	1.76	0.66
28:d:52:VAL:HG22	28:d:91:LEU:CD2	2.24	0.66
29:e:7:LYS:O	29:e:92:VAL:HG13	1.94	0.66
30:f:40:PHE:HA	30:f:44:ARG:NH1	2.10	0.66
38:n:3:LYS:CG	38:n:6:ARG:HH22	2.08	0.66
43:s:67:VAL:CG1	43:s:76:ARG:HG3	2.25	0.66
45:u:47:VAL:O	45:u:51:GLN:HG3	1.94	0.66
47:w:31:ASN:O	47:w:52:ALA:N	2.28	0.66
48:x:3:LYS:HZ3	48:x:6:ARG:HH12	1.44	0.66
6:F:27:LYS:HG3	6:F:28:PRO:CD	2.22	0.66
9:I:360:G:H2'	9:I:361:G:H8	1.61	0.66
9:I:917:A:H2'	9:I:918:A:C8	2.30	0.66
9:I:977:A:OP1	9:I:1360:G:N2	2.23	0.66
9:I:1225:C:H2'	32:h:101:THR:OG1	1.95	0.66
9:I:1474:U:C2	9:I:4333:G:N1	2.61	0.66
9:I:1489:A:N6	9:I:4283:C:H2'	2.08	0.66
9:I:1798:G:O2'	9:I:1840:A:N6	2.28	0.66
9:I:1820:A:C8	13:M:132:LYS:HB2	2.30	0.66
9:I:2071:U:H3'	41:q:80:ARG:NH2	2.10	0.66
9:I:2331:G:C2'	9:I:2332:U:O5'	2.43	0.66
9:I:2484:A:H2'	9:I:2484:A:N3	2.09	0.66
9:I:2565:G:H2'	9:I:2566:C:C6	2.30	0.66
9:I:2619:G:H3'	9:I:2620:A:C2'	2.20	0.66
9:I:3247:G:O2'	9:I:3248:A:N7	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3294:C:H3'	11:K:145:MET:SD	2.34	0.66
9:I:4097:G:H2'	9:I:4098:U:H6	1.60	0.66
11:K:163:ILE:HA	11:K:173:LEU:CD1	2.25	0.66
11:K:172:THR:HG22	11:K:180:MET:SD	2.36	0.66
13:M:154:ASP:OD2	13:M:156:ASN:HB2	1.96	0.66
14:N:48:LEU:HD12	14:N:149:ARG:NH1	2.09	0.66
15:O:36:LEU:CD1	15:O:40:VAL:HG11	2.19	0.66
15:O:100:ASN:O	15:O:115:GLN:NE2	2.28	0.66
16:R:41:LYS:O	16:R:44:TYR:N	2.27	0.66
19:U:16:ARG:HH21	19:U:18:ARG:NH2	1.92	0.66
19:U:44:ARG:HA	19:U:47:GLU:CD	2.20	0.66
19:U:133:LYS:HD2	19:U:134:THR:N	2.11	0.66
26:b:129:ASN:C	26:b:134:VAL:HG21	2.20	0.66
27:c:28:SER:CB	27:c:50:VAL:HG23	2.24	0.66
30:f:37:GLY:O	30:f:57:ARG:NH1	2.28	0.66
36:l:53:ASP:HA	36:l:56:LEU:HD13	1.77	0.66
40:p:97:ILE:HD13	40:p:108:LEU:HD11	1.78	0.66
41:q:20:VAL:CG2	41:q:98:ILE:HD11	2.25	0.66
41:q:25:LEU:HD12	41:q:96:VAL:HG11	1.76	0.66
44:t:71:ILE:HG21	44:t:95:PHE:CZ	2.30	0.66
8:H:3:ILE:CG2	30:f:95:ILE:HD11	2.25	0.66
8:H:45:LYS:HD2	9:I:4432:U:C5	2.30	0.66
9:I:370:A:H2'	9:I:371:C:H4'	1.76	0.66
9:I:1126:G:H1'	9:I:1279:A:N1	2.10	0.66
9:I:1380:U:H2'	9:I:1381:C:H6	1.58	0.66
9:I:1676:A:H2'	9:I:1677:G:C4	2.30	0.66
9:I:1872:G:H22	9:I:1900:G:H2'	1.58	0.66
9:I:1908:G:C2'	9:I:1909:G:C8	2.76	0.66
9:I:2132:A:H2'	9:I:2133:A:C8	2.30	0.66
9:I:2203:U:H3'	9:I:2204:G:N7	2.10	0.66
9:I:2954:U:HO2'	9:I:2955:C:C5'	2.07	0.66
9:I:2990:A:H2	9:I:3071:C:O2	1.77	0.66
9:I:3178:G:O6	9:I:3199:A:N6	2.28	0.66
9:I:3296:A:O2'	9:I:3297:A:H5'	1.95	0.66
9:I:3347:A:N6	9:I:3382:G:H1'	2.11	0.66
9:I:3354:G:H1	9:I:3376:U:H3	1.42	0.66
9:I:3589:A:H2'	9:I:3589:A:N3	2.09	0.66
9:I:3856:C:H2'	9:I:3857:G:O4'	1.96	0.66
9:I:3959:C:O2'	9:I:3960:C:O5'	2.12	0.66
9:I:4024:A:H5''	15:O:174:LYS:HG3	1.76	0.66
9:I:4280:U:H4'	12:L:70:LYS:CD	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:105:G:H2'	10:J:106:G:O4'	1.94	0.66
13:M:196:VAL:HG22	13:M:199:MET:CG	2.25	0.66
14:N:121:PHE:HA	14:N:126:ASN:O	1.94	0.66
15:O:132:LEU:HD13	15:O:143:VAL:CB	2.25	0.66
16:R:64:VAL:CG2	16:R:68:LYS:HE2	2.26	0.66
17:S:13:ASN:CB	17:S:98:ARG:HB2	2.25	0.66
17:S:69:VAL:HG22	17:S:77:ILE:O	1.96	0.66
19:U:96:ILE:HA	19:U:100:LYS:HZ3	1.57	0.66
20:V:21:PHE:HB2	20:V:69:ARG:HH12	1.60	0.66
28:d:53:ASP:O	28:d:57:LYS:HE3	1.95	0.66
31:g:36:VAL:HG22	31:g:52:CYS:CB	2.25	0.66
37:m:2:LYS:NZ	37:m:32:LYS:O	2.28	0.66
38:n:52:THR:HB	38:n:64:THR:HG22	1.76	0.66
38:n:110:ARG:NH2	38:n:116:PHE:OXT	2.27	0.66
40:p:75:TYR:HA	40:p:78:PHE:CB	2.24	0.66
40:p:77:LYS:HB3	40:p:116:LEU:CD2	2.22	0.66
45:u:77:VAL:HG23	45:u:89:ILE:HD11	1.77	0.66
46:v:56:LYS:HG3	46:v:75:GLU:HG2	1.77	0.66
2:B:1:SER:HB3	9:I:738:C:O3'	1.95	0.66
3:C:57:ILE:O	3:C:61:VAL:HG23	1.96	0.66
3:C:63:GLN:HG2	9:I:226:G:N9	2.09	0.66
3:C:68:SER:OG	9:I:377:G:OP1	2.10	0.66
9:I:727:A:H2'	9:I:728:A:O4'	1.94	0.66
9:I:884:G:O2'	9:I:885:G:H5'	1.95	0.66
9:I:1183:G:N2	28:d:105:ALA:HB1	2.10	0.66
9:I:1571:A:O2'	43:s:9:LYS:NZ	2.29	0.66
9:I:1848:A:C2'	9:I:1849:U:O4'	2.43	0.66
9:I:2047:A:H5''	9:I:2048:G:H5''	1.77	0.66
9:I:2114:A:H3'	9:I:2114:A:P	2.35	0.66
9:I:2402:C:O2'	9:I:2403:A:H5'	1.96	0.66
9:I:2423:U:O2'	9:I:2424:G:O4'	2.10	0.66
9:I:2924:G:H1	9:I:3057:U:H3	1.43	0.66
9:I:3044:C:P	9:I:3233:A:H61	2.18	0.66
9:I:3347:A:N6	9:I:3382:G:O2'	2.29	0.66
9:I:3760:A:H4'	9:I:3761:A:N3	2.10	0.66
9:I:3783:G:C4'	9:I:3877:G:H21	2.07	0.66
9:I:3853:C:O2'	9:I:3854:G:H5'	1.96	0.66
9:I:4192:U:H2'	9:I:4193:C:C6	2.30	0.66
9:I:4229:G:O6	9:I:4263:U:C4	2.49	0.66
11:K:4:LYS:HD2	11:K:15:VAL:O	1.95	0.66
12:L:48:ILE:CD1	12:L:90:PHE:CD1	2.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:124:PHE:HE2	13:M:169:VAL:HG21	1.59	0.66
15:O:84:LYS:HG2	15:O:140:ILE:CG1	2.25	0.66
15:O:88:LEU:CD2	15:O:161:VAL:HG22	2.24	0.66
16:R:18:VAL:HG11	16:R:56:VAL:HG13	1.77	0.66
18:T:12:SER:O	18:T:13:LYS:HD2	1.96	0.66
19:U:30:SER:H	19:U:105:MET:C	2.03	0.66
19:U:58:LYS:NZ	19:U:112:LEU:HD21	2.11	0.66
21:W:77:VAL:HG12	21:W:88:PHE:HB2	1.77	0.66
22:X:149:LYS:HD2	22:X:166:TRP:CD2	2.31	0.66
25:a:46:GLN:OE1	25:a:55:HIS:HB3	1.96	0.66
30:f:4:VAL:CG1	30:f:67:ILE:HG12	2.26	0.66
30:f:20:VAL:CG2	30:f:84:THR:HG21	2.21	0.66
32:h:1:ALA:O	32:h:8:ILE:HD12	1.95	0.66
39:o:20:ARG:HB3	39:o:21:PRO:HD2	1.76	0.66
39:o:54:LEU:HA	39:o:76:HIS:CG	2.30	0.66
43:s:4:GLU:O	43:s:8:LEU:HG	1.96	0.66
44:t:24:VAL:HG12	44:t:26:ASN:H	1.60	0.66
49:y:44:ARG:O	49:y:47:ILE:HB	1.96	0.66
1:A:52:ARG:CD	9:I:1218:A:H4'	2.24	0.66
9:I:28:U:H4'	9:I:294:C:O3'	1.95	0.66
9:I:35:C:H2'	9:I:36:U:O4'	1.95	0.66
9:I:249:A:H4'	9:I:250:G:OP1	1.96	0.66
9:I:798:G:H3'	9:I:799:G:C8	2.28	0.66
9:I:1558:G:H5'	43:s:36:LYS:NZ	2.10	0.66
9:I:1654:U:C2'	9:I:1655:A:H5'	2.25	0.66
9:I:1867:G:H2'	9:I:1867:G:N3	2.11	0.66
9:I:1873:U:H3	9:I:1902:A:H61	1.43	0.66
9:I:2229:G:N2	9:I:3269:U:O4'	2.28	0.66
9:I:2416:C:O2'	46:v:19:GLU:OE1	2.12	0.66
9:I:2625:G:N2	9:I:2626:U:O4	2.27	0.66
9:I:2665:G:C2'	9:I:2666:C:C1'	2.73	0.66
9:I:2683:A:H2'	9:I:2684:G:H5'	1.78	0.66
9:I:3351:G:HO2'	9:I:3352:A:P	2.16	0.66
9:I:3352:A:N3	9:I:3352:A:H2'	2.11	0.66
9:I:3466:G:HO2'	9:I:3467:G:C5'	2.09	0.66
9:I:3484:C:H2'	9:I:3485:U:C2	2.31	0.66
9:I:3909:G:H2'	9:I:3910:C:C6	2.30	0.66
9:I:4273:U:C4'	9:I:4274:G:H5''	2.25	0.66
15:O:53:PRO:CB	15:O:60:GLY:HA3	2.26	0.66
15:O:161:VAL:C	15:O:162:ARG:HG3	2.20	0.66
18:T:95:LEU:HB3	18:T:101:ILE:HG23	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:63:LYS:HG2	21:W:156:ASP:CG	2.21	0.66
26:b:69:ARG:HG3	26:b:95:ARG:HG2	1.78	0.66
28:d:19:LYS:HD3	28:d:20:PRO:N	2.10	0.66
28:d:85:MET:CE	28:d:101:VAL:HG12	2.23	0.66
32:h:9:PRO:CB	32:h:17:ALA:HA	2.21	0.66
36:l:47:ALA:O	36:l:48:MET:HE2	1.95	0.66
38:n:89:VAL:HG23	38:n:116:PHE:HE2	1.57	0.66
43:s:48:GLN:HB2	43:s:49:LYS:NZ	2.11	0.66
44:t:12:VAL:HG22	44:t:64:ILE:CD1	2.26	0.66
8:H:40:PRO:HD2	30:f:110:ARG:NH2	2.11	0.66
9:I:61:U:H2'	9:I:62:C:C6	2.31	0.66
9:I:112:G:C1'	9:I:353:G:H5'	2.26	0.66
9:I:607:A:C6	9:I:608:A:H1'	2.30	0.66
9:I:713:G:H1'	9:I:776:A:N7	2.10	0.66
9:I:875:C:O5'	27:c:14:ARG:NH1	2.29	0.66
9:I:944:G:N3	9:I:944:G:H2'	2.09	0.66
9:I:961:C:H2'	9:I:962:G:C8	2.30	0.66
9:I:1163:G:H2'	9:I:1164:U:H6	1.61	0.66
9:I:1186:G:H5'	28:d:112:LYS:HE3	1.78	0.66
9:I:1473:G:H2'	9:I:1474:U:C5'	2.25	0.66
9:I:1904:A:N6	9:I:1921:C:H2'	2.11	0.66
9:I:2449:PSU:H5'	19:U:86:LYS:HZ2	1.59	0.66
9:I:2482:A:H3'	49:y:11:SER:OG	1.96	0.66
9:I:2499:C:H1'	9:I:2506:U:C4	2.30	0.66
9:I:2525:G:N2	37:m:23:ILE:HD11	2.11	0.66
9:I:2677:U:O2'	9:I:2678:U:O4'	2.14	0.66
9:I:2776:U:H2'	9:I:2777:G:C8	2.31	0.66
9:I:3225:G:N1	9:I:3227:G:N7	2.43	0.66
9:I:3578:C:H2'	9:I:3578:C:O2	1.96	0.66
9:I:3694:C:P	47:w:36:ARG:HD2	2.35	0.66
9:I:3805:A:H3'	9:I:3806:U:C6	2.30	0.66
9:I:4168:G:O2'	9:I:4169:A:H5'	1.94	0.66
9:I:4196:G:H2'	9:I:4197:C:H5	1.61	0.66
9:I:4266:C:C5'	12:L:173:GLN:NE2	2.57	0.66
10:J:56:A:C4	14:N:25:MET:HB2	2.30	0.66
10:J:93:A:H5''	45:u:19:ARG:NH1	2.11	0.66
11:K:117:SER:HA	11:K:121:ALA:CB	2.25	0.66
11:K:198:GLU:O	11:K:201:LEU:HD13	1.95	0.66
12:L:103:ASP:HB3	12:L:105:LYS:HZ2	1.60	0.66
13:M:147:LEU:C	13:M:148:ILE:HD13	2.21	0.66
15:O:154:GLU:CD	15:O:157:LYS:H	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:S:11:ALA:HB1	17:S:100:PHE:O	1.96	0.66
17:S:38:ILE:HG23	17:S:87:LEU:HD12	1.78	0.66
20:V:22:ARG:O	20:V:70:THR:OG1	2.13	0.66
25:a:3:HIS:H	25:a:92:THR:CG2	2.09	0.66
25:a:5:GLU:OE1	25:a:91:ARG:NH2	2.28	0.66
26:b:45:ALA:HB1	26:b:119:LEU:HD22	1.76	0.66
31:g:52:CYS:SG	31:g:66:ILE:HD11	2.36	0.66
38:n:13:ALA:CB	38:n:94:SER:OG	2.44	0.66
38:n:91:PHE:HB2	38:n:116:PHE:CE1	2.31	0.66
42:r:28:LYS:HA	42:r:70:LYS:HG3	1.78	0.66
43:s:45:ALA:O	43:s:49:LYS:NZ	2.25	0.66
44:t:40:LEU:HD23	44:t:60:LYS:C	2.20	0.66
47:w:31:ASN:C	47:w:51:SER:HA	2.21	0.66
1:A:74:ARG:NE	9:I:1358:C:H5''	2.11	0.66
1:A:81:ILE:HB	9:I:1201:U:C1'	2.25	0.66
7:G:8:ARG:O	7:G:12:SER:N	2.17	0.66
9:I:450:A:C6	9:I:479:U:H2'	2.31	0.66
9:I:695:A:O2'	9:I:696:U:H5'	1.95	0.66
9:I:951:U:C4'	9:I:963:A:H61	2.08	0.66
9:I:1129:A:H5'	28:d:17:PHE:HE2	1.60	0.66
9:I:1367:A:H5''	28:d:111:LYS:HB3	1.78	0.66
9:I:1649:A:H2'	9:I:1650:U:H6	1.61	0.66
9:I:1838:G:H3'	9:I:1839:U:C6	2.31	0.66
9:I:1901:A:H2'	9:I:1902:A:C6	2.30	0.66
9:I:2223:C:H2'	9:I:2224:U:O4'	1.95	0.66
9:I:2633:G:H2'	9:I:2634:C:H6	1.59	0.66
9:I:2660:G:N2	9:I:2677:U:O2	2.28	0.66
9:I:3062:G:H4'	11:K:58:LYS:HZ2	1.60	0.66
9:I:3384:A:H2'	9:I:3385:G:H8	1.61	0.66
9:I:3488:C:H6	9:I:3488:C:O5'	1.79	0.66
9:I:3788:G:OP1	10:J:45:A:C2	2.49	0.66
9:I:3845:G:H1'	9:I:3861:G:N2	2.11	0.66
9:I:4244:A:O5'	15:O:1:SER:HB2	1.96	0.66
9:I:4337:G:H3'	9:I:4338:G:H8	1.60	0.66
9:I:4400:C:H2'	9:I:4401:G:H8	1.60	0.66
10:J:32:G:N2	10:J:34:C:H41	1.94	0.66
10:J:43:G:H5'	10:J:44:A:N6	2.11	0.66
12:L:34:VAL:HG11	12:L:48:ILE:HB	1.78	0.66
12:L:48:ILE:HG23	12:L:84:LEU:CD2	2.17	0.66
12:L:113:SER:C	12:L:195:GLY:HA2	2.20	0.66
13:M:61:ARG:NH1	13:M:64:GLY:HA3	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:17:VAL:HG22	16:R:55:ILE:HG21	1.76	0.66
19:U:99:GLY:HA3	45:u:81:PRO:CB	2.25	0.66
23:Y:106:PHE:O	23:Y:154:VAL:HG22	1.95	0.66
25:a:9:MET:SD	25:a:85:ILE:HG22	2.36	0.66
35:k:9:VAL:HG13	35:k:10:LEU:CD2	2.24	0.66
36:l:31:ILE:HG22	36:l:31:ILE:O	1.94	0.66
37:m:15:LYS:HB3	37:m:26:ILE:HD11	1.78	0.66
39:o:26:GLU:HB2	39:o:43:GLU:HA	1.78	0.66
40:p:75:TYR:C	40:p:78:PHE:HB3	2.20	0.66
40:p:103:VAL:O	40:p:106:THR:HG23	1.96	0.66
44:t:10:VAL:HG21	44:t:69:VAL:HB	1.76	0.66
46:v:19:GLU:O	46:v:56:LYS:HA	1.95	0.66
1:A:2:LYS:CD	9:I:1214:G:H4'	2.24	0.66
2:B:42:PHE:CZ	2:B:52:ARG:HA	2.31	0.66
4:D:9:VAL:HG22	4:D:19:VAL:O	1.95	0.66
5:E:19:LYS:HZ3	9:I:674:A:H4'	1.60	0.66
9:I:259:G:OP2	9:I:259:G:H3'	1.94	0.66
9:I:461:G:H2'	9:I:462:U:H5''	1.77	0.66
9:I:504:G:OP2	9:I:533:U:H2'	1.96	0.66
9:I:582:A:N6	9:I:757:C:H1'	2.11	0.66
9:I:735:C:H1'	25:a:88:MET:SD	2.36	0.66
9:I:853:U:H3'	9:I:870:U:O4	1.96	0.66
9:I:864:A:H2'	9:I:865:C:O4'	1.96	0.66
9:I:1102:C:H5''	21:W:94:LEU:HB3	1.78	0.66
9:I:1225:C:H4'	9:I:1226:A:OP1	1.95	0.66
9:I:1603:A:H2'	9:I:1604:A:O4'	1.96	0.66
9:I:1820:A:H2'	13:M:131:THR:OG1	1.96	0.66
9:I:2013:A:O2'	9:I:2014:A:H5'	1.96	0.66
9:I:2401:G:C2'	9:I:2402:C:H5'	2.26	0.66
9:I:2421:A:H2'	9:I:2422:A:H8	1.57	0.66
9:I:2429:C:H2'	9:I:2430:A:C8	2.29	0.66
9:I:2598:C:H2'	9:I:2599:U:C6	2.31	0.66
9:I:2673:G:N2	9:I:2674:U:O2'	2.29	0.66
9:I:2746:G:N2	40:p:32:ARG:O	2.29	0.66
9:I:3383:A:O2'	9:I:3384:A:H5'	1.95	0.66
9:I:3843:G:O6	9:I:3863:A:N6	2.29	0.66
9:I:3969:C:O2	9:I:4023:G:O6	2.14	0.66
9:I:4315:A:OP2	9:I:4315:A:H3'	1.96	0.66
12:L:50:VAL:HG23	12:L:80:TRP:HB2	1.77	0.66
12:L:184:ARG:NH2	39:o:5:LYS:HE3	2.09	0.66
13:M:16:GLU:HG2	13:M:21:ARG:CZ	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:13:LYS:O	14:N:17:THR:HG22	1.96	0.66
14:N:15:LEU:CD1	14:N:27:VAL:HG22	2.25	0.66
16:R:55:ILE:HG23	16:R:125:TYR:HE2	1.61	0.66
17:S:58:LEU:HD21	17:S:86:LEU:CD1	2.26	0.66
20:V:38:LEU:HA	20:V:41:ALA:HB3	1.77	0.66
20:V:40:LYS:HG2	20:V:44:LEU:HG	1.78	0.66
21:W:1:VAL:HG22	21:W:48:ASN:ND2	2.11	0.66
23:Y:10:LEU:HD22	23:Y:62:ARG:NE	2.10	0.66
24:Z:1:GLU:HG2	24:Z:32:ASP:HB2	1.78	0.66
24:Z:37:VAL:O	24:Z:63:ILE:HG22	1.96	0.66
24:Z:82:GLY:O	24:Z:120:GLY:HA3	1.96	0.66
29:e:43:GLU:O	29:e:62:GLU:HA	1.95	0.66
30:f:86:ARG:NH1	30:f:89:ASN:OD1	2.29	0.66
31:g:13:ARG:HE	31:g:14:LYS:N	1.93	0.66
31:g:39:THR:O	31:g:48:LEU:HA	1.95	0.66
34:j:23:ASN:CB	34:j:26:THR:HG22	2.26	0.66
40:p:113:LYS:HA	40:p:116:LEU:HB3	1.77	0.66
44:t:5:ARG:N	44:t:8:ASP:OD2	2.25	0.66
45:u:55:GLU:HB3	45:u:59:GLU:CD	2.21	0.66
2:B:73:ASP:O	2:B:77:TYR:N	2.27	0.66
9:I:326:A:H1'	9:I:328:A:O4'	1.96	0.66
9:I:593:U:H3'	9:I:594:A:C8	2.30	0.66
9:I:1067:G:O2'	9:I:1068:C:H5'	1.96	0.66
9:I:1074:U:H5'	9:I:1100:A:N6	2.11	0.66
9:I:1158:U:H2'	9:I:1158:U:O2	1.96	0.66
9:I:1306:U:O2'	9:I:1307:U:O4'	2.11	0.66
9:I:1486:G:N2	9:I:4303:A:OP2	2.28	0.66
9:I:1591:A:H8	9:I:1591:A:OP1	1.78	0.66
9:I:1635:U:C2'	9:I:1644:A:H61	2.09	0.66
9:I:1794:A:OP1	9:I:1794:A:H4'	1.95	0.66
9:I:1889:G:H2'	9:I:1890:U:H5'	1.76	0.66
9:I:1973:G:O2'	9:I:1974:G:H5'	1.95	0.66
9:I:2051:G:OP2	9:I:2051:G:H3'	1.95	0.66
9:I:2145:C:H3'	9:I:2147:G:N7	2.10	0.66
9:I:2204:G:H8	9:I:2204:G:O5'	1.78	0.66
9:I:2423:U:H2'	9:I:2424:G:C8	2.31	0.66
9:I:2833:G:H5''	43:s:19:LYS:HD2	1.75	0.66
9:I:2869:U:O2'	9:I:2870:C:O5'	2.07	0.66
9:I:2970:U:H6	9:I:2970:U:H5'	1.61	0.66
9:I:3022:A:N6	9:I:3037:G:O2'	2.28	0.66
9:I:3061:G:C6	11:K:82:TYR:HB3	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3071:C:H2'	9:I:3072:U:C6	2.31	0.66
9:I:3166:A:H2'	9:I:3167:G:C8	2.31	0.66
9:I:3340:G:N2	9:I:3389:C:H1'	2.11	0.66
9:I:3424:G:N2	9:I:3462:G:H2'	2.10	0.66
9:I:3596:G:H22	9:I:3681:U:H3	1.44	0.66
9:I:3806:U:OP1	14:N:70:ARG:HB3	1.95	0.66
9:I:3848:C:H4'	46:v:25:SER:OG	1.95	0.66
9:I:4257:G:H5''	9:I:4258:A:OP2	1.96	0.66
10:J:6:G:H2'	10:J:7:C:O4'	1.96	0.66
11:K:197:ALA:HB1	11:K:200:MET:HE3	1.77	0.66
13:M:113:VAL:HA	13:M:118:LEU:CD1	2.26	0.66
14:N:37:MET:N	14:N:86:CYS:O	2.23	0.66
18:T:123:ARG:HA	18:T:143:GLU:O	1.96	0.66
19:U:20:LEU:HD11	45:u:81:PRO:HG3	1.78	0.66
19:U:69:PRO:HB2	19:U:92:TRP:HB3	1.77	0.66
19:U:121:ALA:HA	19:U:124:LEU:HG	1.77	0.66
21:W:78:LYS:HD2	21:W:90:ASN:ND2	2.11	0.66
23:Y:113:ALA:O	23:Y:117:VAL:HG23	1.95	0.66
24:Z:39:PHE:C	24:Z:58:ALA:HA	2.20	0.66
27:c:86:LYS:HE3	27:c:91:LEU:CA	2.25	0.66
28:d:49:LEU:HD22	28:d:54:MET:CE	2.26	0.66
29:e:6:LEU:HD12	29:e:68:ARG:CB	2.26	0.66
33:i:43:THR:O	33:i:46:GLY:N	2.27	0.66
42:r:18:ARG:HG2	42:r:18:ARG:HH11	1.61	0.66
44:t:40:LEU:HD23	44:t:61:GLU:N	2.11	0.66
45:u:30:ILE:HG23	45:u:72:VAL:HG11	1.77	0.66
47:w:37:PHE:CE2	47:w:48:LEU:HB2	2.31	0.66
1:A:4:SER:HB3	9:I:1214:G:N3	2.11	0.66
1:A:44:VAL:HA	1:A:47:LEU:HB2	1.76	0.66
4:D:14:MET:SD	9:I:252:A:N1	2.69	0.66
5:E:44:ARG:HG2	25:a:49:TYR:OH	1.96	0.66
5:E:47:SER:HB3	25:a:47:LEU:HD13	1.76	0.66
8:H:3:ILE:HB	30:f:72:VAL:O	1.96	0.66
8:H:34:ARG:HD3	9:I:676:U:H4'	1.78	0.66
9:I:361:G:O3'	9:I:362:A:H3'	1.96	0.66
9:I:372:A:N6	9:I:390:G:H1'	2.11	0.66
9:I:1874:A:O4'	9:I:1901:A:N6	2.29	0.66
9:I:2080:U:H2'	9:I:2081:C:C6	2.31	0.66
9:I:2520:G:H2'	9:I:2521:A:C8	2.31	0.66
9:I:2630:G:O2'	9:I:2631:G:H5'	1.95	0.66
9:I:2939:G:O2'	9:I:2940:C:H5'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3200:C:H2'	9:I:3251:A:OP2	1.96	0.66
9:I:3212:G:H3'	9:I:3213:G:H8	1.61	0.66
9:I:3317:G:O2'	9:I:3318:G:H5'	1.96	0.66
9:I:3484:C:H2'	9:I:3485:U:N1	2.11	0.66
9:I:3593:U:N3	9:I:3684:G:N1	2.16	0.66
9:I:3696:U:N3	9:I:3715:G:N1	2.24	0.66
9:I:3755:C:O2	9:I:3821:A:C2	2.48	0.66
9:I:3914:C:OP1	34:j:5:LYS:HD2	1.96	0.66
9:I:3960:C:H5''	37:m:6:SER:HB3	1.76	0.66
9:I:3963:A:H2'	9:I:3964:G:O4'	1.95	0.66
9:I:4023:G:H4'	15:O:174:LYS:C	2.21	0.66
9:I:4030:G:O2'	9:I:4031:U:H5'	1.95	0.66
9:I:4233:U:H5'	9:I:4257:G:O6	1.96	0.66
9:I:4242:A:H5'	9:I:4246:C:P	2.36	0.66
10:J:94:U:OP2	45:u:19:ARG:NH1	2.29	0.66
11:K:77:VAL:HG23	11:K:93:VAL:CG1	2.24	0.66
11:K:140:VAL:CG1	11:K:189:ALA:HB1	2.25	0.66
12:L:34:VAL:CA	12:L:50:VAL:HG12	2.26	0.66
12:L:48:ILE:HG22	12:L:90:PHE:HB2	1.78	0.66
13:M:159:LEU:CD2	13:M:162:ARG:HH21	2.08	0.66
14:N:21:TYR:HB3	14:N:26:GLN:HB3	1.78	0.66
15:O:114:HIS:CD2	15:O:115:GLN:H	2.13	0.66
18:T:89:VAL:O	18:T:89:VAL:HG13	1.95	0.66
19:U:52:ALA:CB	19:U:120:ALA:HB2	2.26	0.66
19:U:124:LEU:HD13	19:U:126:ILE:CD1	2.26	0.66
24:Z:44:ALA:HB2	24:Z:53:LYS:HE3	1.77	0.66
25:a:22:ILE:HD11	25:a:60:VAL:HG11	1.77	0.66
27:c:11:THR:OG1	27:c:14:ARG:NH1	2.29	0.66
32:h:15:VAL:HG13	32:h:40:GLU:HA	1.78	0.66
38:n:93:ARG:NH1	38:n:98:TYR:H	1.93	0.66
40:p:64:ILE:HD11	40:p:91:ARG:HA	1.77	0.66
41:q:66:HIS:NE2	41:q:94:THR:HG23	2.11	0.66
45:u:29:ILE:N	45:u:90:ASP:OD1	2.29	0.66
45:u:30:ILE:CD1	45:u:40:ILE:HD13	2.26	0.66
49:y:19:HIS:C	49:y:22:THR:HB	2.21	0.66
3:C:62:GLY:CA	9:I:225:G:H1	2.07	0.65
4:D:33:LYS:HD3	31:g:7:VAL:CG1	2.26	0.65
4:D:33:LYS:HB2	31:g:7:VAL:CG1	2.25	0.65
9:I:295:U:H2'	9:I:296:G:O4'	1.96	0.65
9:I:316:U:H2'	9:I:317:G:C8	2.31	0.65
9:I:362:A:H5'	31:g:80:LEU:CD1	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:597:U:H2'	9:I:598:C:H6	1.59	0.65
9:I:682:G:H21	30:f:28:ASN:HA	1.62	0.65
9:I:1259:G:H4'	9:I:1282:U:O2'	1.96	0.65
9:I:1286:A:N3	9:I:1352:G:O2'	2.27	0.65
9:I:1528:A:H2'	9:I:1529:U:O4'	1.97	0.65
9:I:1574:A:H4'	9:I:1575:G:C5'	2.26	0.65
9:I:1649:A:H2'	9:I:1650:U:O4'	1.96	0.65
9:I:2357:G:H5''	46:v:59:PHE:CB	2.22	0.65
9:I:2417:G:H1'	46:v:18:GLY:O	1.95	0.65
9:I:2823:U:H3'	9:I:2824:C:C5'	2.26	0.65
9:I:2958:G:H2'	9:I:2959:G:H8	1.61	0.65
9:I:3017:U:HO2'	9:I:3018:G:C4'	2.06	0.65
9:I:3159:A:H3'	9:I:3160:G:H8	1.59	0.65
9:I:3218:G:C2	9:I:3230:U:O2	2.49	0.65
9:I:3311:G:H2'	9:I:3312:U:C6	2.31	0.65
9:I:3313:A:OP1	11:K:155:ARG:N	2.29	0.65
9:I:3383:A:H2'	9:I:3384:A:C8	2.31	0.65
9:I:3692:A:H1'	9:I:3693:A:H8	1.61	0.65
9:I:3839:G:H5''	9:I:3840:A:H3'	1.78	0.65
9:I:3896:U:O2'	9:I:3897:C:H2'	1.96	0.65
9:I:4121:G:N2	9:I:4271:G:C4	2.64	0.65
9:I:4142:G:N1	9:I:4166:U:N3	2.15	0.65
9:I:4159:A:H2'	9:I:4160:C:H6	1.61	0.65
9:I:4174:U:H5'	12:L:193:VAL:O	1.97	0.65
9:I:4179:G:P	39:o:72:VAL:HG11	2.36	0.65
9:I:4332:G:H2'	9:I:4332:G:N3	2.10	0.65
10:J:22:G:N1	10:J:60:G:N7	2.43	0.65
11:K:107:LYS:CB	11:K:195:GLY:HA3	2.25	0.65
12:L:110:THR:C	12:L:202:ILE:H	2.04	0.65
12:L:202:ILE:HG22	12:L:204:LYS:HE2	1.78	0.65
18:T:23:ILE:HD13	41:q:82:HIS:CE1	2.31	0.65
25:a:50:PRO:HA	25:a:54:LEU:O	1.95	0.65
34:j:8:LEU:O	34:j:17:PHE:HB2	1.96	0.65
41:q:1:MET:HE1	41:q:101:ILE:HG21	1.77	0.65
44:t:76:THR:OG1	44:t:78:LYS:O	2.13	0.65
45:u:78:GLN:HB3	45:u:87:GLN:HB2	1.77	0.65
46:v:27:ILE:H	46:v:50:PHE:HA	1.60	0.65
1:A:2:LYS:O	1:A:6:LYS:HE2	1.96	0.65
1:A:8:ARG:O	1:A:12:ARG:HG3	1.95	0.65
5:E:44:ARG:NE	5:E:51:TYR:OH	2.29	0.65
9:I:440:A:H2'	9:I:441:G:O4'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:593:U:O2	9:I:644:G:N2	2.23	0.65
9:I:826:U:O2'	9:I:827:U:H5''	1.95	0.65
9:I:1287:A:N1	9:I:1370:G:H1'	2.12	0.65
9:I:1475:A:OP2	9:I:4329:A:N6	2.29	0.65
9:I:1765:A:O2'	9:I:1766:G:OP2	2.10	0.65
9:I:2039:G:H2'	9:I:2040:C:H1'	1.78	0.65
9:I:2364:G:C2'	9:I:2365:C:H6	2.07	0.65
9:I:2417:G:H5'	46:v:19:GLU:OE2	1.96	0.65
9:I:2836:A:O2'	9:I:2838:U:OP2	2.14	0.65
9:I:2847:A:O3'	11:K:35:LYS:NZ	2.29	0.65
9:I:3009:A:H4'	9:I:3050:C:C2'	2.26	0.65
9:I:3190:G:H2'	9:I:3191:G:C8	2.32	0.65
9:I:3312:U:H3'	11:K:155:ARG:H	1.59	0.65
9:I:3356:G:C3'	9:I:3357:G:H8	2.09	0.65
9:I:3709:C:H2'	9:I:3710:G:C8	2.31	0.65
9:I:3820:C:C3'	9:I:3822:A:OP2	2.43	0.65
9:I:3858:C:H2'	9:I:3859:G:C8	2.30	0.65
9:I:3906:A:H2'	9:I:3907:G:C8	2.30	0.65
9:I:3957:C:H2'	9:I:3958:G:H5'	1.77	0.65
9:I:3963:A:C5	9:I:3964:G:H1'	2.31	0.65
9:I:4131:U:H5''	12:L:83:ARG:NH2	2.11	0.65
9:I:4171:G:H2'	9:I:4172:C:H6	1.61	0.65
9:I:4222:U:OP1	17:S:70:ARG:NH1	2.29	0.65
13:M:157:LEU:HD11	13:M:169:VAL:HG21	1.78	0.65
14:N:125:GLY:O	14:N:157:THR:HG21	1.96	0.65
14:N:162:ASP:O	14:N:166:ARG:N	2.27	0.65
16:R:56:VAL:HB	16:R:124:VAL:HG23	1.78	0.65
20:V:33:ILE:HD11	33:i:54:ILE:CD1	2.25	0.65
21:W:108:ILE:HG13	21:W:151:MET:CE	2.25	0.65
23:Y:143:SER:HB3	23:Y:178:GLU:CG	2.26	0.65
25:a:46:GLN:NE2	25:a:56:LYS:HD3	2.10	0.65
30:f:9:ALA:HA	30:f:22:ILE:HD13	1.78	0.65
30:f:40:PHE:HA	30:f:44:ARG:HG3	1.77	0.65
38:n:58:ALA:HA	38:n:64:THR:HG21	1.76	0.65
39:o:47:ILE:HD13	39:o:100:ARG:HE	1.60	0.65
39:o:90:ALA:HB2	39:o:112:ARG:HB2	1.76	0.65
44:t:85:ARG:HH22	44:t:101:THR:HA	1.61	0.65
48:x:43:LYS:HD3	48:x:46:ARG:HH21	1.61	0.65
3:C:33:ILE:HD11	9:I:230:U:OP2	1.96	0.65
4:D:66:LYS:CA	9:I:265:G:H2'	2.21	0.65
9:I:123:C:H2'	9:I:124:U:O4'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:277:G:H1'	9:I:281:A:H1'	1.77	0.65
9:I:409:G:H1'	9:I:432:G:N1	2.11	0.65
9:I:521:C:H2'	9:I:522:A:H8	1.61	0.65
9:I:748:A:H2'	9:I:749:C:O4'	1.96	0.65
9:I:835:G:H3'	9:I:836:U:H6	1.61	0.65
9:I:836:U:O2	9:I:848:G:O6	2.14	0.65
9:I:1964:U:H3'	9:I:1964:U:C6	2.29	0.65
9:I:1976:G:H2'	9:I:1978:A:OP2	1.96	0.65
9:I:2147:G:H4'	9:I:2147:G:OP1	1.96	0.65
9:I:2452:U:H2'	10:J:88:U:N3	2.10	0.65
9:I:2521:A:H3'	9:I:2620:A:N1	2.10	0.65
9:I:2832:G:H4'	43:s:18:GLU:HG2	1.77	0.65
9:I:2919:G:O2'	9:I:2920:G:O4'	2.10	0.65
9:I:2956:C:C2	9:I:2957:C:C5	2.85	0.65
9:I:2962:U:H3'	9:I:3016:A:N1	2.12	0.65
9:I:3424:G:N2	9:I:3463:A:O5'	2.26	0.65
9:I:3467:G:H2'	9:I:3468:C:C6	2.32	0.65
9:I:3735:A:H2'	9:I:3736:G:H8	1.61	0.65
9:I:3785:U:O2	9:I:3835:G:C2	2.49	0.65
9:I:3850:U:H5''	46:v:10:ARG:NH2	2.12	0.65
9:I:4231:G:H2'	9:I:4232:A:O4'	1.95	0.65
10:J:12:G:H5'	10:J:14:A:C5	2.32	0.65
10:J:28:A:H2'	10:J:29:C:C6	2.29	0.65
10:J:30:C:C1'	10:J:52:A:H61	2.08	0.65
10:J:35:C:H42	10:J:48:C:H1'	1.60	0.65
11:K:173:LEU:HD12	11:K:174:ARG:N	2.12	0.65
12:L:33:ARG:HA	12:L:96:ILE:HG13	1.78	0.65
12:L:108:ASP:HB3	12:L:204:LYS:H	1.62	0.65
12:L:168:GLU:O	12:L:170:VAL:HG13	1.96	0.65
14:N:107:VAL:HA	14:N:110:ILE:HG13	1.77	0.65
14:N:127:TYR:HB3	14:N:155:ILE:HB	1.78	0.65
15:O:120:ILE:HD12	15:O:134:GLY:CA	2.26	0.65
17:S:80:ASP:HB2	39:o:67:GLU:HG3	1.77	0.65
18:T:122:VAL:O	18:T:143:GLU:HG2	1.96	0.65
21:W:111:LEU:HD22	21:W:112:LYS:HZ3	1.60	0.65
27:c:42:GLU:HB2	27:c:44:PHE:HD2	1.61	0.65
32:h:14:ALA:HA	32:h:44:ILE:HD11	1.78	0.65
34:j:12:ALA:CB	34:j:44:VAL:HG21	2.27	0.65
39:o:30:TRP:CZ3	39:o:37:LYS:HD3	2.32	0.65
40:p:42:GLY:HA2	40:p:45:ALA:HB3	1.78	0.65
43:s:25:GLU:HG3	43:s:26:LYS:CE	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:s:55:VAL:HA	43:s:88:LYS:HG2	1.76	0.65
44:t:84:PHE:O	44:t:85:ARG:HG3	1.96	0.65
45:u:47:VAL:HG12	45:u:86:LEU:HD13	1.77	0.65
48:x:1:LYS:NZ	48:x:52:VAL:HG23	2.11	0.65
49:y:8:GLN:OE1	49:y:10:ARG:N	2.21	0.65
2:B:37:HIS:CD2	2:B:38:LEU:HD22	2.29	0.65
3:C:20:VAL:HG12	3:C:35:ARG:CA	2.26	0.65
4:D:7:GLY:N	4:D:56:VAL:O	2.29	0.65
4:D:40:LYS:N	9:I:276:C:OP1	2.28	0.65
5:E:44:ARG:HA	25:a:49:TYR:OH	1.95	0.65
9:I:224:C:C2'	9:I:225:G:H5''	2.26	0.65
9:I:362:A:H2'	9:I:363:A:H8	1.62	0.65
9:I:486:A:OP2	9:I:487:C:N4	2.27	0.65
9:I:599:A:H5''	27:c:88:LYS:HE3	1.77	0.65
9:I:729:G:H3'	9:I:730:G:C8	2.31	0.65
9:I:877:A:O2'	9:I:878:C:H5'	1.96	0.65
9:I:931:C:O5'	26:b:3:ARG:HB2	1.96	0.65
9:I:1217:C:H2'	9:I:1218:A:C8	2.31	0.65
9:I:1560:G:N2	9:I:1574:A:O2'	2.28	0.65
9:I:1578:U:H5''	48:x:3:LYS:HZ1	1.60	0.65
9:I:1783:G:H2'	9:I:1784:U:C6	2.31	0.65
9:I:1893:C:C2	9:I:1894:C:C5	2.85	0.65
9:I:2113:A:H3'	9:I:2114:A:C5'	2.20	0.65
9:I:2368:U:H2'	9:I:2369:G:H1'	1.77	0.65
9:I:2405:A:H2'	19:U:9:PHE:CE1	2.31	0.65
9:I:2435:A:H2'	9:I:2436:G:C8	2.30	0.65
9:I:2862:G:H2'	9:I:2863:G:H8	1.61	0.65
9:I:2970:U:C4	9:I:3009:A:N7	2.61	0.65
9:I:3017:U:O2'	9:I:3018:G:H5'	1.96	0.65
9:I:3051:C:H3'	9:I:3052:C:H6	1.59	0.65
9:I:3372:G:H3'	9:I:3372:G:OP2	1.96	0.65
9:I:3791:A:H2'	9:I:3792:A:C5'	2.26	0.65
9:I:3839:G:H5''	9:I:3840:A:C3'	2.27	0.65
9:I:4020:G:H1	9:I:4031:U:H3	0.69	0.65
9:I:4138:G:H3'	9:I:4138:G:OP2	1.96	0.65
10:J:72:A:N7	10:J:102:U:C2	2.65	0.65
11:K:119:VAL:CA	11:K:129:LEU:HD12	2.27	0.65
11:K:182:LYS:NZ	11:K:265:PHE:HA	2.11	0.65
12:L:104:VAL:HG13	12:L:105:LYS:H	1.61	0.65
13:M:5:LEU:CD1	13:M:190:ALA:HB2	2.27	0.65
20:V:90:ARG:HB3	20:V:94:TYR:HE1	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Y:63:ILE:O	23:Y:110:ARG:NE	2.30	0.65
23:Y:173:ASP:OD1	23:Y:176:LYS:N	2.20	0.65
27:c:110:MET:HE3	27:c:111:THR:HG22	1.78	0.65
28:d:32:LEU:HD23	28:d:46:ARG:HH21	1.61	0.65
38:n:25:LEU:HD22	38:n:89:VAL:HG11	1.78	0.65
38:n:98:TYR:CZ	38:n:103:GLN:HG3	2.31	0.65
40:p:77:LYS:HE3	40:p:116:LEU:CD2	2.23	0.65
41:q:74:ILE:HB	41:q:87:GLN:O	1.95	0.65
45:u:30:ILE:HG21	45:u:70:ILE:HD11	1.76	0.65
48:x:33:SER:HB3	48:x:35:GLN:HG3	1.77	0.65
48:x:40:HIS:NE2	48:x:41:LEU:HG	2.11	0.65
4:D:68:LYS:HE3	9:I:252:A:N3	2.12	0.65
7:G:43:ALA:O	7:G:46:GLN:N	2.30	0.65
9:I:52:A:C2	9:I:53:C:H1'	2.31	0.65
9:I:324:A:H2'	9:I:325:G:O4'	1.95	0.65
9:I:373:A:H2'	9:I:374:U:H6	1.62	0.65
9:I:455:A:C3'	9:I:456:G:H8	2.09	0.65
9:I:577:C:O2'	9:I:578:A:H5'	1.96	0.65
9:I:1096:C:C1'	9:I:1169:A:H1'	2.26	0.65
9:I:2449:PSU:H5'	19:U:86:LYS:NZ	2.12	0.65
9:I:2450:G:C4'	19:U:82:MET:HE1	2.27	0.65
9:I:2529:U:O2	9:I:2614:G:O6	2.14	0.65
9:I:2590:A:O2'	9:I:2591:U:O4'	2.14	0.65
9:I:2825:G:O2'	9:I:2826:G:H5'	1.97	0.65
9:I:2886:A:H2'	9:I:2887:A:C4	2.32	0.65
9:I:3301:G:H2'	9:I:3302:A:H5'	1.77	0.65
9:I:3339:G:C2	9:I:3340:G:C8	2.85	0.65
9:I:3489:U:HO2'	17:S:31:ARG:HH12	1.42	0.65
9:I:3605:U:H1'	9:I:3613:A:OP1	1.96	0.65
9:I:3856:C:OP1	36:l:39:ARG:NE	2.20	0.65
9:I:4072:G:N7	12:L:145:SER:OG	2.30	0.65
9:I:4148:A:H2	9:I:4159:A:H5''	1.62	0.65
9:I:4325:G:O2'	9:I:4326:U:OP2	2.13	0.65
10:J:15:G:C2	10:J:68:G:H1'	2.31	0.65
11:K:140:VAL:HG13	11:K:190:THR:N	2.12	0.65
12:L:46:ARG:C	12:L:84:LEU:HG	2.21	0.65
13:M:7:ASP:O	13:M:9:GLN:HG2	1.97	0.65
14:N:66:ILE:HG23	14:N:85:GLY:O	1.96	0.65
19:U:72:PRO:HB2	19:U:89:VAL:HG13	1.79	0.65
22:X:69:THR:CG2	22:X:102:ILE:HD11	2.27	0.65
24:Z:74:HIS:HB2	24:Z:75:PRO:HD2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:b:15:PRO:HB3	28:d:40:THR:HG23	1.78	0.65
27:c:103:VAL:HB	27:c:124:ILE:CD1	2.26	0.65
30:f:72:VAL:HG21	30:f:95:ILE:HD12	1.78	0.65
31:g:73:LEU:HD11	31:g:102:ASP:CB	2.26	0.65
36:l:15:LYS:HA	36:l:21:PHE:CD2	2.31	0.65
38:n:9:ARG:HD3	38:n:12:ARG:NH2	2.10	0.65
39:o:23:ASP:OD2	39:o:88:ARG:HB3	1.96	0.65
45:u:67:GLY:O	45:u:68:LYS:HD2	1.95	0.65
47:w:5:GLN:OE1	47:w:48:LEU:HD22	1.96	0.65
49:y:44:ARG:HD3	49:y:45:GLY:N	2.12	0.65
1:A:68:ARG:CZ	1:A:80:ARG:HE	2.09	0.65
3:C:66:THR:HA	9:I:135:C:C1'	2.27	0.65
4:D:14:MET:HG2	9:I:273:A:N3	2.11	0.65
8:H:36:PHE:H	30:f:112:PRO:CB	2.06	0.65
9:I:235:A:H2'	9:I:236:G:H8	1.61	0.65
9:I:578:A:H5'	9:I:727:A:H1'	1.79	0.65
9:I:690:G:H1'	9:I:695:A:H61	1.61	0.65
9:I:787:U:H3	9:I:791:A:C2'	2.10	0.65
9:I:1356:A:H3'	9:I:1357:U:C6	2.31	0.65
9:I:1995:G:H4'	42:r:57:ASN:HD21	1.61	0.65
9:I:2343:G:O2'	9:I:2344:A:H5'	1.96	0.65
9:I:2666:C:C2'	9:I:2667:U:O4'	2.40	0.65
9:I:2724:A:H2'	9:I:2725:U:H6	1.61	0.65
9:I:3163:A:H2'	9:I:3163:A:N3	2.10	0.65
9:I:3314:U:N3	11:K:158:GLY:HA3	2.11	0.65
9:I:3344:G:H2'	9:I:3345:U:H6	1.61	0.65
9:I:3348:A:C6	9:I:3349:U:H1'	2.32	0.65
9:I:3554:A:N6	13:M:69:ARG:HH22	1.93	0.65
9:I:3724:G:O2'	9:I:3725:U:H5'	1.97	0.65
9:I:4111:U:C2'	9:I:4112:G:H5'	2.27	0.65
9:I:4156:A:H5''	9:I:4157:G:OP2	1.96	0.65
9:I:4244:A:H4'	9:I:4245:G:OP2	1.94	0.65
10:J:116:G:O2'	10:J:117:C:H5'	1.96	0.65
11:K:4:LYS:HD2	11:K:5:CYS:N	2.05	0.65
11:K:144:GLU:N	11:K:188:ARG:O	2.26	0.65
11:K:163:ILE:HA	11:K:173:LEU:HD13	1.79	0.65
14:N:91:ARG:O	14:N:94:ARG:HB2	1.96	0.65
14:N:126:ASN:CG	14:N:157:THR:HG1	2.03	0.65
16:R:97:PRO:HG2	16:R:126:ALA:CB	2.23	0.65
21:W:105:ARG:HH12	21:W:148:ILE:HD12	1.61	0.65
24:Z:83:SER:CB	24:Z:127:VAL:HA	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:g:110:LYS:O	31:g:113:ARG:NH1	2.29	0.65
38:n:67:LYS:O	38:n:70:ALA:HB3	1.96	0.65
39:o:25:VAL:HG11	39:o:46:VAL:CG2	2.27	0.65
43:s:14:PRO:HB3	43:s:32:LEU:HD23	1.77	0.65
4:D:22:ILE:HB	4:D:39:THR:HB	1.79	0.65
5:E:46:LEU:HG	25:a:86:ARG:HD2	1.79	0.65
8:H:33:ARG:CA	30:f:112:PRO:HD3	2.26	0.65
9:I:341:C:C2'	9:I:342:U:H5'	2.25	0.65
9:I:605:G:N2	9:I:630:C:H3'	2.11	0.65
9:I:752:A:H4'	9:I:753:C:C5'	2.21	0.65
9:I:902:G:O2'	9:I:903:U:H5'	1.97	0.65
9:I:961:C:H2'	9:I:962:G:O4'	1.97	0.65
9:I:1307:U:H4'	32:h:90:HIS:CE1	2.32	0.65
9:I:1417:A:H1'	9:I:3453:G:O2'	1.95	0.65
9:I:1572:U:H5'	48:x:53:LYS:HD2	1.78	0.65
9:I:1622:G:H2'	9:I:1623:G:O4'	1.96	0.65
9:I:1792:U:O2'	9:I:1793:U:O4'	2.14	0.65
9:I:1912:A:C3'	9:I:1913:C:H6	2.06	0.65
9:I:1920:C:H2'	9:I:1921:C:C5	2.32	0.65
9:I:2718:U:H5''	9:I:2719:G:OP1	1.97	0.65
9:I:3181:G:N1	9:I:3194:A:OP1	2.30	0.65
9:I:3215:G:C2'	9:I:3232:G:H22	2.06	0.65
9:I:3370:A:C6	9:I:3371:A:H1'	2.32	0.65
9:I:4178:U:O3'	39:o:72:VAL:HG21	1.96	0.65
11:K:75:ALA:HB2	11:K:95:TYR:HA	1.79	0.65
12:L:25:THR:HB	12:L:189:VAL:HG22	1.77	0.65
12:L:48:ILE:HD13	12:L:90:PHE:CE1	2.31	0.65
13:M:102:ARG:HA	13:M:200:LEU:CB	2.25	0.65
13:M:130:LYS:HB3	13:M:133:LEU:HB2	1.77	0.65
14:N:111:ARG:NH1	14:N:136:ILE:HD13	2.11	0.65
15:O:21:GLN:OE1	15:O:36:LEU:HG	1.96	0.65
15:O:43:LYS:HB2	15:O:50:THR:HG21	1.77	0.65
16:R:113:PRO:HA	16:R:116:ARG:NH2	2.12	0.65
17:S:78:ARG:O	39:o:69:VAL:HA	1.95	0.65
19:U:110:GLU:HG2	19:U:114:ARG:HD2	1.78	0.65
23:Y:154:VAL:HA	23:Y:157:ALA:CB	2.26	0.65
24:Z:44:ALA:HB2	24:Z:53:LYS:CE	2.27	0.65
27:c:77:VAL:HG21	27:c:127:TYR:CE1	2.32	0.65
29:e:4:ILE:CD1	29:e:70:VAL:HB	2.25	0.65
29:e:22:VAL:HG22	29:e:70:VAL:HG13	1.79	0.65
39:o:6:GLN:HE21	39:o:9:GLN:NE2	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:44:TYR:HB3	40:p:48:ASP:OD1	1.96	0.65
40:p:59:LEU:CD1	40:p:63:ARG:HG3	2.27	0.65
48:x:45:VAL:HA	48:x:48:ASP:OD2	1.97	0.65
49:y:44:ARG:HA	49:y:47:ILE:HD12	1.79	0.65
8:H:37:TYR:CE1	30:f:110:ARG:HD3	2.32	0.65
9:I:112:G:H2'	9:I:113:U:H6	1.60	0.65
9:I:178:A:H61	9:I:195:A:N6	1.94	0.65
9:I:315:C:H5'	9:I:350:G:O2'	1.97	0.65
9:I:938:G:H21	9:I:1374:A:H2	1.45	0.65
9:I:1060:G:O2'	9:I:1061:U:H5'	1.96	0.65
9:I:1386:G:H2'	9:I:1387:C:C6	2.29	0.65
9:I:1929:A:H2'	9:I:1930:A:C8	2.32	0.65
9:I:2513:U:N3	9:I:2636:A:C6	2.65	0.65
9:I:2536:G:C2	9:I:2607:U:O2	2.50	0.65
9:I:2916:G:H4'	9:I:2986:G:O2'	1.96	0.65
9:I:3335:U:C2	9:I:3336:G:C8	2.85	0.65
9:I:3376:U:O2	9:I:3376:U:H2'	1.96	0.65
9:I:3663:A:C2'	9:I:3664:A:H5'	2.27	0.65
9:I:4234:A:H3'	9:I:4257:G:N2	2.12	0.65
9:I:4239:C:O2	15:O:138:GLN:CG	2.45	0.65
9:I:4282:C:H1'	9:I:4304:A:N3	2.12	0.65
10:J:4:U:H4'	10:J:26:C:O2	1.96	0.65
11:K:23:LEU:HD22	11:K:80:LEU:HB2	1.77	0.65
12:L:109:VAL:HG21	12:L:193:VAL:CG1	2.21	0.65
13:M:130:LYS:C	13:M:160:ALA:HA	2.22	0.65
13:M:131:THR:HG21	13:M:163:ASN:H	1.61	0.65
14:N:128:SER:HB2	14:N:154:THR:CG2	2.24	0.65
15:O:34:ARG:H	15:O:74:MET:HE1	1.61	0.65
15:O:52:GLY:O	15:O:61:TRP:HA	1.96	0.65
16:R:23:LYS:HE3	16:R:27:ARG:O	1.97	0.65
20:V:39:PRO:HA	20:V:42:LYS:HB2	1.79	0.65
22:X:4:VAL:CG2	22:X:9:ILE:HB	2.26	0.65
23:Y:154:VAL:O	23:Y:158:LEU:N	2.27	0.65
25:a:29:ILE:HG23	25:a:66:ALA:HB2	1.79	0.65
30:f:17:ASN:OD1	30:f:36:GLY:N	2.30	0.65
34:j:6:ILE:HG23	34:j:22:LYS:N	2.11	0.65
34:j:10:SER:HB2	34:j:46:TYR:CZ	2.30	0.65
38:n:17:LEU:CD1	38:n:41:PRO:HB3	2.27	0.65
38:n:33:HIS:H	38:n:64:THR:C	2.03	0.65
43:s:15:HIS:HB2	43:s:31:VAL:CG1	2.27	0.65
47:w:50:VAL:HG21	47:w:58:ILE:CD1	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:LYS:HA	1:A:62:ARG:NH1	2.11	0.65
1:A:18:LYS:HG2	1:A:23:ARG:NH2	2.12	0.65
2:B:86:LEU:O	2:B:87:ARG:HB2	1.96	0.65
3:C:26:ASN:ND2	9:I:229:G:O2'	2.29	0.65
8:H:12:ASP:HB2	30:f:89:ASN:CG	2.22	0.65
9:I:115:A:C2	9:I:116:G:H1'	2.31	0.65
9:I:257:G:H2'	9:I:258:G:O4'	1.97	0.65
9:I:642:C:H2'	9:I:643:U:H6	1.59	0.65
9:I:691:U:H2'	9:I:693:A:OP2	1.97	0.65
9:I:1216:C:H2'	9:I:1217:C:C6	2.32	0.65
9:I:1491:G:H2'	9:I:1492:C:H6	1.58	0.65
9:I:1690:A:H2'	9:I:1691:A:N7	2.12	0.65
9:I:1796:U:OP1	44:t:91:LYS:NZ	2.28	0.65
9:I:1949:A:C4'	40:p:2:ARG:HH12	2.09	0.65
9:I:1983:A:H1'	44:t:57:ILE:HG13	1.79	0.65
9:I:2037:G:OP1	16:R:2:LYS:HD3	1.97	0.65
9:I:2240:C:O2'	9:I:2241:U:H5'	1.97	0.65
9:I:2488:C:O2'	41:q:10:LYS:NZ	2.23	0.65
9:I:2626:U:H4'	9:I:2627:A:OP2	1.97	0.65
9:I:2655:C:H1'	41:q:8:GLY:C	2.22	0.65
9:I:2834:U:OP1	43:s:84:TYR:OH	2.10	0.65
9:I:3175:G:O2'	9:I:3256:A:N3	2.28	0.65
9:I:3347:A:H1'	9:I:3728:G:C4'	2.18	0.65
9:I:3564:A:H2'	9:I:3565:A:C8	2.32	0.65
9:I:3779:C:C3'	9:I:3781:A:H1'	2.27	0.65
9:I:3964:G:C6	9:I:3975:G:C2	2.85	0.65
9:I:4016:U:C2'	9:I:4017:G:H5'	2.26	0.65
9:I:4024:A:C5'	15:O:174:LYS:HG2	2.27	0.65
9:I:4032:C:H1'	37:m:1:MET:HG2	1.77	0.65
9:I:4070:G:OP2	9:I:4070:G:N2	2.30	0.65
9:I:4129:A:O4'	12:L:49:GLN:NE2	2.26	0.65
9:I:4138:G:N2	9:I:4265:C:C2	2.64	0.65
9:I:4169:A:O2'	9:I:4170:C:H5'	1.97	0.65
9:I:4428:C:O2	9:I:4428:C:H2'	1.95	0.65
10:J:30:C:H1'	10:J:52:A:N6	2.11	0.65
12:L:37:VAL:HG23	12:L:91:THR:HG23	1.79	0.65
12:L:82:PHE:HB3	12:L:88:GLU:OE2	1.95	0.65
13:M:19:PHE:CE1	13:M:109:LEU:HD21	2.27	0.65
13:M:58:LYS:HD2	13:M:59:PRO:CD	2.26	0.65
14:N:31:GLU:HG3	14:N:32:LYS:N	2.11	0.65
14:N:90:LEU:HD12	14:N:98:PHE:CB	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:125:PRO:HD2	15:O:129:GLU:O	1.96	0.65
16:R:17:VAL:HB	16:R:139:VAL:CG2	2.27	0.65
19:U:24:THR:CG2	45:u:81:PRO:HA	2.24	0.65
19:U:29:GLY:HA3	19:U:105:MET:N	2.12	0.65
21:W:155:PRO:CG	21:W:158:LEU:HD11	2.27	0.65
23:Y:7:LYS:HB3	23:Y:20:LEU:CD1	2.27	0.65
23:Y:116:LEU:O	23:Y:121:ALA:HB3	1.96	0.65
28:d:16:VAL:HG21	28:d:79:GLY:C	2.22	0.65
30:f:36:GLY:CA	30:f:45:LYS:HG3	2.27	0.65
31:g:109:ARG:CG	31:g:118:VAL:HG21	2.27	0.65
31:g:109:ARG:HG3	31:g:118:VAL:HG21	1.79	0.65
39:o:2:ASN:CA	39:o:5:LYS:HG2	2.25	0.65
39:o:90:ALA:CA	39:o:112:ARG:HB2	2.27	0.65
43:s:62:VAL:HG23	43:s:64:LYS:NZ	2.12	0.65
1:A:27:LYS:O	1:A:30:ILE:HG22	1.96	0.65
1:A:57:SER:HB3	9:I:978:C:N4	2.12	0.65
2:B:71:ARG:CZ	2:B:72:LYS:HD3	2.27	0.65
4:D:12:ASP:OD1	4:D:18:ILE:HD12	1.96	0.65
7:G:27:ARG:HD3	9:I:1438:G:OP1	1.96	0.65
9:I:61:U:O2'	9:I:378:C:O2	2.14	0.65
9:I:169:U:H2'	9:I:170:A:H8	1.61	0.65
9:I:311:C:H2'	9:I:312:A:H8	1.61	0.65
9:I:475:U:O5'	9:I:475:U:H6	1.80	0.65
9:I:966:5MC:HM53	9:I:966:5MC:OP2	1.97	0.65
9:I:1045:A:H61	9:I:1212:A:H61	1.42	0.65
9:I:1072:U:H1'	21:W:103:THR:OG1	1.97	0.65
9:I:1470:C:H2'	9:I:1470:C:O2	1.96	0.65
9:I:1590:U:H2'	9:I:1591:A:N7	2.12	0.65
9:I:1600:U:H1'	9:I:1601:A:O5'	1.96	0.65
9:I:1652:A:O2'	9:I:1653:U:H5'	1.97	0.65
9:I:1801:G:H5''	9:I:1817:G:H22	1.62	0.65
9:I:2054:U:C2'	9:I:2055:G:H5'	2.27	0.65
9:I:2155:A:C4'	9:I:2156:G:H5'	2.27	0.65
9:I:2440:C:O2'	9:I:2441:A:H5'	1.97	0.65
9:I:2618:G:C1'	37:m:37:GLN:HG2	2.14	0.65
9:I:2676:G:C2'	9:I:2677:U:H5'	2.27	0.65
9:I:2702:C:N3	9:I:2733:G:N1	2.45	0.65
9:I:2902:G:O6	9:I:3088:U:O4	2.14	0.65
9:I:3059:C:C5	11:K:25:LYS:HG3	2.32	0.65
9:I:3140:C:C5'	9:I:3141:U:H5''	2.26	0.65
9:I:3826:C:O2	9:I:3830:A:O2'	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3849:G:P	46:v:15:ARG:HH12	2.20	0.65
9:I:4022:U:H3'	15:O:171:LYS:HZ2	1.61	0.65
9:I:4076:G:OP2	9:I:4076:G:H3'	1.97	0.65
11:K:3:VAL:O	11:K:16:VAL:HA	1.96	0.65
12:L:85:ALA:C	12:L:87:GLY:H	2.03	0.65
12:L:101:PHE:HE1	12:L:205:PRO:CD	2.09	0.65
13:M:18:THR:HG23	13:M:105:LEU:O	1.97	0.65
13:M:119:ILE:HD11	13:M:185:LYS:CD	2.26	0.65
13:M:143:LEU:HD13	13:M:187:VAL:HG21	1.77	0.65
14:N:164:GLU:O	14:N:168:LEU:CB	2.43	0.65
15:O:89:VAL:HB	15:O:162:ARG:HH22	1.61	0.65
19:U:6:ARG:HG2	19:U:7:THR:N	2.12	0.65
19:U:42:THR:O	19:U:46:ILE:N	2.30	0.65
19:U:105:MET:SD	19:U:106:ASP:N	2.70	0.65
21:W:17:THR:CG2	21:W:31:ALA:HB1	2.27	0.65
21:W:179:PRO:HB2	21:W:181:PHE:CE1	2.31	0.65
22:X:117:ASP:O	22:X:120:THR:HG22	1.96	0.65
22:X:124:GLU:OE1	22:X:190:THR:HG22	1.96	0.65
31:g:20:VAL:O	31:g:20:VAL:HG13	1.97	0.65
33:i:24:VAL:O	33:i:25:THR:OG1	2.13	0.65
37:m:15:LYS:HB3	37:m:26:ILE:CD1	2.27	0.65
44:t:12:VAL:HG22	44:t:64:ILE:HD11	1.78	0.65
45:u:26:PHE:CE1	45:u:47:VAL:HG11	2.31	0.65
47:w:35:HIS:HB3	47:w:37:PHE:CE1	2.32	0.65
1:A:13:VAL:HA	1:A:59:GLN:OE1	1.96	0.64
3:C:5:ARG:HE	3:C:22:ALA:HB3	1.62	0.64
4:D:18:ILE:HB	4:D:45:ASP:OD2	1.97	0.64
5:E:4:TYR:O	5:E:48:LEU:HD13	1.97	0.64
6:F:28:PRO:HA	6:F:46:THR:O	1.97	0.64
8:H:18:PHE:CE2	30:f:81:ARG:HG3	2.32	0.64
9:I:209:C:O2	9:I:209:C:H5'	1.96	0.64
9:I:509:A:H5''	9:I:510:C:OP1	1.97	0.64
9:I:580:G:H1'	9:I:760:G:N2	2.12	0.64
9:I:828:G:O6	9:I:856:C:N4	2.26	0.64
9:I:982:A:H5'	9:I:983:C:OP2	1.97	0.64
9:I:1089:U:H4'	9:I:1170:A:H1'	1.79	0.64
9:I:1305:A:H2'	9:I:1306:U:H5'	1.78	0.64
9:I:1845:A:C2'	9:I:1847:A:H61	2.11	0.64
9:I:1943:A:C2	9:I:2695:U:H1'	2.32	0.64
9:I:2045:U:C6	9:I:2047:A:H4'	2.32	0.64
9:I:2145:C:HO2'	9:I:2146:U:P	2.19	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2366:A:C2	9:I:2367:C:H5'	2.31	0.64
9:I:2624:U:C5	12:L:152:PRO:HB3	2.33	0.64
9:I:3182:U:H1'	9:I:3194:A:H8	1.62	0.64
9:I:3194:A:C2	9:I:3260:G:H5'	2.32	0.64
9:I:3285:A:H4'	11:K:204:LEU:CB	2.27	0.64
9:I:3665:A:H3'	9:I:3667:A:C8	2.33	0.64
10:J:35:C:H3'	10:J:36:C:H6	1.59	0.64
12:L:15:PHE:H	39:o:11:GLN:CD	2.03	0.64
12:L:106:LYS:HD3	12:L:174:SER:O	1.97	0.64
14:N:58:ALA:HB3	14:N:140:ILE:HD13	1.80	0.64
18:T:78:ARG:NH1	18:T:80:SER:OG	2.31	0.64
21:W:176:LEU:CD1	21:W:178:ILE:HD11	2.27	0.64
25:a:4:TYR:HB3	25:a:89:VAL:HG21	1.79	0.64
43:s:29:THR:HG23	43:s:86:THR:HA	1.79	0.64
43:s:83:ALA:O	43:s:85:VAL:HG23	1.97	0.64
46:v:29:ARG:CA	46:v:48:THR:HG23	2.27	0.64
2:B:24:THR:HG21	2:B:65:LEU:HB3	1.77	0.64
9:I:31:A:H2'	9:I:32:A:C8	2.32	0.64
9:I:292:G:N3	9:I:292:G:H2'	2.13	0.64
9:I:401:G:H4'	9:I:619:C:O2	1.97	0.64
9:I:1025:G:C6	9:I:1034:A:N6	2.64	0.64
9:I:1062:C:OP2	9:I:1063:G:O2'	2.07	0.64
9:I:1072:U:H4'	21:W:102:LYS:HD3	1.79	0.64
9:I:1097:C:H2'	9:I:1098:G:H5'	1.77	0.64
9:I:1218:A:H3'	9:I:1219:G:H8	1.62	0.64
9:I:1304:G:N2	9:I:1330:G:O2'	2.29	0.64
9:I:1308:G:H2'	9:I:1309:G:C8	2.31	0.64
9:I:1341:C:H2'	9:I:1342:G:H8	1.63	0.64
9:I:1871:A:H3'	9:I:1871:A:OP2	1.97	0.64
9:I:2045:U:C1'	9:I:2047:A:H5'	2.28	0.64
9:I:2345:A:H2'	9:I:2346:U:O3'	1.97	0.64
9:I:2724:A:H2'	9:I:2725:U:C6	2.33	0.64
9:I:2762:A:C2	9:I:2763:A:H1'	2.31	0.64
9:I:2818:G:O2'	9:I:2820:U:OP2	2.16	0.64
9:I:3048:U:C4	9:I:3128:A:C5	2.85	0.64
9:I:3236:U:H2'	9:I:3237:G:C8	2.32	0.64
9:I:3593:U:C2	9:I:3684:G:N1	2.60	0.64
9:I:3753:U:C2	9:I:3754:C:C5	2.85	0.64
9:I:3827:A:H4'	9:I:3828:U:O2'	1.98	0.64
9:I:3876:G:H8	9:I:3876:G:O5'	1.80	0.64
9:I:3959:C:O3'	37:m:4:ARG:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4020:G:H2'	9:I:4021:C:H6	1.61	0.64
9:I:4133:A:H2'	9:I:4134:G:O4'	1.97	0.64
9:I:4152:C:H2'	9:I:4153:G:O4'	1.97	0.64
9:I:4304:A:H4'	12:L:62:LYS:NZ	2.12	0.64
9:I:4331:A:C3'	9:I:4332:G:H8	2.10	0.64
11:K:140:VAL:C	11:K:161:VAL:HB	2.23	0.64
12:L:110:THR:HA	12:L:170:VAL:C	2.22	0.64
12:L:151:THR:CG2	12:L:152:PRO:HD3	2.26	0.64
12:L:170:VAL:O	12:L:170:VAL:HG23	1.97	0.64
12:L:172:VAL:HG12	12:L:175:LEU:HD21	1.80	0.64
13:M:130:LYS:HB2	13:M:133:LEU:HB2	1.78	0.64
14:N:90:LEU:O	14:N:95:MET:HB2	1.97	0.64
16:R:41:LYS:O	16:R:44:TYR:HB2	1.96	0.64
18:T:1:MET:CE	18:T:5:THR:HB	2.27	0.64
18:T:83:ALA:HA	18:T:118:THR:CG2	2.27	0.64
22:X:38:VAL:HG11	22:X:90:VAL:HG23	1.79	0.64
22:X:79:LYS:HD3	22:X:80:GLY:N	2.12	0.64
38:n:33:HIS:ND1	38:n:52:THR:O	2.25	0.64
38:n:46:VAL:O	38:n:46:VAL:HG13	1.97	0.64
39:o:21:PRO:HB2	39:o:96:LEU:CD1	2.28	0.64
39:o:111:GLU:CG	39:o:113:LEU:HB3	2.25	0.64
45:u:5:ASN:HD21	45:u:43:ASP:HB3	1.60	0.64
46:v:27:ILE:HG13	46:v:51:ALA:N	2.12	0.64
48:x:31:ALA:HB2	48:x:36:LEU:HD22	1.78	0.64
49:y:41:PRO:C	49:y:44:ARG:HB3	2.22	0.64
1:A:8:ARG:HB3	1:A:12:ARG:NH1	2.12	0.64
3:C:6:LEU:HG	3:C:19:VAL:CG2	2.21	0.64
3:C:35:ARG:HH12	9:I:607:A:H4'	1.60	0.64
4:D:1:LYS:NZ	4:D:4:THR:OG1	2.30	0.64
4:D:15:GLU:O	9:I:272:U:H5''	1.98	0.64
9:I:451:A:C4	9:I:452:G:H1'	2.33	0.64
9:I:679:C:H2'	9:I:680:A:H8	1.63	0.64
9:I:768:G:H2'	9:I:769:C:H6	1.61	0.64
9:I:800:U:H2'	9:I:801:A:C8	2.32	0.64
9:I:1100:A:N6	21:W:99:THR:OG1	2.28	0.64
9:I:1578:U:OP1	48:x:3:LYS:NZ	2.28	0.64
9:I:1636:G:H2'	9:I:1637:U:C5	2.31	0.64
9:I:1727:A:O2'	9:I:1728:C:H6	1.81	0.64
9:I:2052:U:N3	9:I:2053:G:N7	2.46	0.64
9:I:2192:C:H5''	11:K:38:LYS:CD	2.26	0.64
9:I:2378:A:H2'	9:I:2379:G:O4'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3333:G:H1'	9:I:3421:A:C8	2.32	0.64
9:I:3594:G:H2'	9:I:3595:A:N9	2.12	0.64
9:I:3798:G:H1'	14:N:128:SER:OG	1.96	0.64
9:I:3809:G:O2'	9:I:3810:G:H5'	1.96	0.64
9:I:3810:G:O4'	14:N:124:ARG:NH1	2.25	0.64
9:I:3839:G:C5'	9:I:3840:A:H3'	2.28	0.64
9:I:3868:C:C2'	9:I:3869:G:C8	2.80	0.64
9:I:3923:G:H5''	9:I:3924:A:OP1	1.96	0.64
9:I:3976:A:C2'	9:I:3977:C:H5'	2.27	0.64
9:I:4238:G:H2'	9:I:4239:C:H5'	1.80	0.64
10:J:28:A:O2'	10:J:29:C:O4'	2.10	0.64
10:J:56:A:C5	14:N:25:MET:HE2	2.32	0.64
15:O:3:VAL:HG13	15:O:68:ARG:HB3	1.77	0.64
15:O:51:PHE:CE2	15:O:71:LEU:HD13	2.32	0.64
18:T:109:LYS:HG3	18:T:126:ARG:O	1.96	0.64
19:U:3:GLN:HB2	19:U:4:PRO:CD	2.27	0.64
19:U:49:ALA:O	19:U:52:ALA:HB3	1.98	0.64
20:V:22:ARG:O	20:V:25:ALA:N	2.25	0.64
22:X:84:GLU:O	22:X:87:ARG:HG2	1.97	0.64
24:Z:1:GLU:OE2	24:Z:32:ASP:HB2	1.98	0.64
24:Z:123:ASN:O	24:Z:127:VAL:HG22	1.97	0.64
24:Z:125:ILE:HG22	24:Z:129:ARG:NH2	2.12	0.64
27:c:85:TYR:CD1	27:c:123:GLU:HB2	2.32	0.64
41:q:41:ILE:HD12	41:q:54:VAL:HG11	1.79	0.64
41:q:64:VAL:HB	41:q:95:ASP:C	2.22	0.64
43:s:45:ALA:HA	43:s:48:GLN:NE2	2.12	0.64
43:s:55:VAL:O	43:s:88:LYS:HE2	1.96	0.64
46:v:56:LYS:HG3	46:v:75:GLU:CG	2.28	0.64
47:w:37:PHE:O	47:w:45:PHE:HA	1.98	0.64
47:w:52:ALA:HA	47:w:55:MET:CE	2.27	0.64
1:A:17:ASP:OD1	1:A:18:LYS:N	2.31	0.64
4:D:36:LYS:NZ	9:I:583:G:OP1	2.29	0.64
9:I:177:C:H2'	9:I:177:C:O2	1.96	0.64
9:I:691:U:H4'	9:I:795:C:O2'	1.97	0.64
9:I:720:G:H4'	9:I:721:G:H5''	1.78	0.64
9:I:828:G:C2	9:I:857:G:H1'	2.33	0.64
9:I:971:C:C1'	29:e:53:VAL:HG23	2.26	0.64
9:I:1510:A:N6	9:I:4294:A:N1	2.44	0.64
9:I:1799:A:H2'	9:I:1799:A:N3	2.12	0.64
9:I:1986:C:H5'	42:r:60:HIS:NE2	2.12	0.64
9:I:2197:G:H2'	9:I:2198:C:C6	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2482:A:P	49:y:10:ARG:NE	2.71	0.64
9:I:2482:A:H3'	49:y:11:SER:CB	2.27	0.64
9:I:2909:U:C4	9:I:3081:G:C6	2.83	0.64
9:I:2955:C:O2'	9:I:2956:C:H5'	1.97	0.64
9:I:3117:G:H2'	9:I:3118:U:H6	1.60	0.64
9:I:3309:A:C5'	9:I:3311:G:H1'	2.28	0.64
9:I:3313:A:O2'	11:K:176:ARG:O	2.09	0.64
9:I:3484:C:H2'	9:I:3485:U:C6	2.33	0.64
9:I:3690:C:N4	9:I:3719:A:O5'	2.30	0.64
9:I:3708:C:H2'	9:I:3709:C:O4'	1.97	0.64
9:I:3812:G:H3'	9:I:3812:G:OP2	1.97	0.64
9:I:3874:C:C3'	9:I:3875:A:H8	2.10	0.64
9:I:3891:G:H2'	9:I:3892:U:H6	1.62	0.64
9:I:4408:G:H4'	9:I:4409:G:C4	2.32	0.64
11:K:143:VAL:HA	11:K:188:ARG:O	1.97	0.64
11:K:147:PRO:CB	11:K:186:ASP:HB3	2.28	0.64
13:M:17:THR:HG21	13:M:106:LYS:CE	2.24	0.64
13:M:19:PHE:C	13:M:110:SER:HA	2.23	0.64
13:M:103:GLY:O	13:M:107:SER:N	2.31	0.64
14:N:69:ALA:CB	14:N:78:ILE:HB	2.27	0.64
16:R:43:GLU:CD	16:R:43:GLU:H	2.03	0.64
16:R:59:ALA:CB	16:R:126:ALA:HA	2.27	0.64
18:T:82:LEU:CD2	18:T:116:VAL:HG23	2.27	0.64
28:d:85:MET:CE	28:d:92:ARG:HG2	2.22	0.64
32:h:21:ILE:CG2	32:h:24:VAL:HG22	2.27	0.64
37:m:35:GLN:O	37:m:36:ARG:HD3	1.97	0.64
38:n:9:ARG:HA	38:n:12:ARG:NH2	2.11	0.64
44:t:24:VAL:HG22	44:t:34:ILE:C	2.22	0.64
45:u:83:LYS:HD2	45:u:85:LYS:HD2	1.79	0.64
47:w:37:PHE:HB2	47:w:46:VAL:HG12	1.80	0.64
2:B:38:LEU:O	2:B:42:PHE:N	2.16	0.64
5:E:5:LYS:CE	25:a:61:LEU:HD22	2.27	0.64
8:H:1:PRO:CG	30:f:101:VAL:HA	2.19	0.64
9:I:404:U:C4	23:Y:4:LEU:HD11	2.33	0.64
9:I:652:U:O2'	9:I:653:G:O5'	2.14	0.64
9:I:725:C:H2'	9:I:726:G:H8	1.62	0.64
9:I:781:A:C2	9:I:782:C:H1'	2.33	0.64
9:I:1108:C:H2'	9:I:1109:A:H8	1.61	0.64
9:I:1388:C:O2'	9:I:1389:U:H5'	1.98	0.64
9:I:1498:C:H3'	9:I:1499:U:H2'	1.80	0.64
9:I:1790:U:H2'	9:I:1791:G:C8	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2260:G:H2'	9:I:2261:A:O4'	1.96	0.64
9:I:2365:C:N4	9:I:2403:A:C6	2.66	0.64
9:I:2449:PSU:H3'	9:I:2450:G:H8	1.62	0.64
9:I:2965:G:H2'	9:I:2965:G:N3	2.13	0.64
9:I:2999:A:C2'	9:I:3000:U:H5'	2.27	0.64
9:I:3965:A:N3	9:I:3966:G:H1'	2.13	0.64
9:I:4254:C:H1'	15:O:138:GLN:NE2	2.13	0.64
9:I:4267:C:H5''	12:L:171:THR:OG1	1.98	0.64
10:J:76:U:H2'	10:J:77:A:C4'	2.28	0.64
10:J:114:A:C2'	10:J:115:G:H5'	2.27	0.64
11:K:143:VAL:HB	11:K:153:LEU:HD23	1.79	0.64
18:T:108:ALA:C	18:T:125:LEU:HG	2.23	0.64
21:W:107:SER:HA	21:W:110:ARG:HG2	1.80	0.64
21:W:111:LEU:O	21:W:115:GLU:HG2	1.97	0.64
24:Z:123:ASN:O	24:Z:127:VAL:HG13	1.97	0.64
26:b:26:VAL:HG12	26:b:42:VAL:CG2	2.25	0.64
40:p:97:ILE:HG23	40:p:104:ALA:HB1	1.80	0.64
41:q:40:MET:HA	41:q:54:VAL:CG2	2.28	0.64
42:r:26:GLY:N	42:r:71:VAL:HB	2.09	0.64
42:r:55:ILE:HG23	42:r:66:ILE:CG1	2.23	0.64
44:t:33:VAL:HG23	44:t:64:ILE:CG2	2.27	0.64
44:t:64:ILE:HG12	44:t:69:VAL:CG1	2.27	0.64
45:u:55:GLU:HA	45:u:58:SER:OG	1.97	0.64
1:A:19:TYR:O	1:A:23:ARG:HB2	1.98	0.64
1:A:58:ARG:HA	9:I:979:C:O2	1.98	0.64
1:A:74:ARG:CZ	9:I:1358:C:H5''	2.28	0.64
4:D:27:LYS:HG2	4:D:32:GLY:HA2	1.80	0.64
9:I:27:A:H3'	9:I:28:U:C6	2.32	0.64
9:I:99:G:H2'	9:I:100:A:C8	2.32	0.64
9:I:159:A:H61	9:I:342:U:H1'	1.62	0.64
9:I:436:U:O2'	9:I:437:U:H5'	1.97	0.64
9:I:451:A:C5	9:I:452:G:H1'	2.33	0.64
9:I:951:U:H4'	9:I:963:A:N6	2.12	0.64
9:I:1003:A:N6	9:I:1024:U:H5'	2.12	0.64
9:I:1024:U:H5''	9:I:1025:G:C5'	2.27	0.64
9:I:1063:G:H1'	9:I:1189:G:H21	1.61	0.64
9:I:1210:U:H1'	9:I:1212:A:C2	2.33	0.64
9:I:1524:G:O2'	9:I:1525:U:O5'	2.13	0.64
9:I:1614:U:H2'	9:I:1615:C:C6	2.32	0.64
9:I:1670:U:H2'	9:I:1671:U:C6	2.32	0.64
9:I:2426:U:H4'	9:I:2427:A:C8	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2524:C:OP1	19:U:127:LYS:HD3	1.98	0.64
9:I:2986:G:C5'	9:I:2987:C:H5'	2.28	0.64
9:I:3015:G:C5'	9:I:3017:U:H5	2.08	0.64
9:I:3075:G:H2'	9:I:3076:C:N1	2.13	0.64
9:I:3152:C:O2'	9:I:3153:G:H5'	1.98	0.64
9:I:3637:C:H2'	9:I:3638:G:O4'	1.97	0.64
9:I:3674:U:H2'	9:I:3675:U:O4'	1.97	0.64
9:I:3746:G:N2	9:I:3747:G:H1'	2.13	0.64
9:I:3958:G:H2'	9:I:3959:C:O4'	1.97	0.64
10:J:41:C:O2'	14:N:63:LYS:HG2	1.98	0.64
11:K:259:ASN:O	11:K:260:LYS:HB3	1.98	0.64
12:L:9:VAL:HB	12:L:26:VAL:C	2.21	0.64
13:M:6:LYS:N	13:M:120:VAL:O	2.29	0.64
13:M:159:LEU:HA	13:M:162:ARG:HB2	1.77	0.64
15:O:23:ILE:O	15:O:33:THR:HA	1.97	0.64
16:R:16:TYR:CD1	16:R:138:GLN:HG2	2.33	0.64
20:V:48:VAL:O	20:V:52:ILE:N	2.29	0.64
20:V:103:ARG:N	20:V:110:MET:HG3	2.12	0.64
21:W:32:ARG:NH1	21:W:37:ILE:HG13	2.11	0.64
22:X:7:ASN:O	22:X:11:LEU:HG	1.97	0.64
22:X:52:SER:HB3	22:X:114:LEU:CD2	2.28	0.64
22:X:133:MET:HE3	22:X:152:VAL:CG1	2.27	0.64
23:Y:12:ARG:NE	23:Y:35:GLN:O	2.30	0.64
26:b:65:LEU:HD11	26:b:96:ASN:OD1	1.97	0.64
26:b:70:PRO:O	26:b:95:ARG:HG3	1.98	0.64
29:e:5:ARG:NH1	29:e:69:LEU:HB2	2.12	0.64
32:h:32:ILE:HD13	32:h:58:GLU:CG	2.28	0.64
33:i:3:GLN:OE1	33:i:7:PRO:HD3	1.97	0.64
35:k:44:VAL:HG22	35:k:45:SER:H	1.62	0.64
41:q:54:VAL:O	41:q:57:GLY:N	2.31	0.64
44:t:38:ILE:HD11	44:t:62:ALA:O	1.98	0.64
45:u:12:GLN:H	45:u:16:ALA:HB3	1.61	0.64
2:B:10:ILE:HB	2:B:30:LEU:CD2	2.27	0.64
9:I:214:C:O2'	9:I:215:U:H5'	1.98	0.64
9:I:516:G:N2	9:I:528:G:O3'	2.30	0.64
9:I:828:G:H4'	21:W:22:PRO:HG3	1.79	0.64
9:I:835:G:H3'	9:I:836:U:C6	2.33	0.64
9:I:1178:A:O2'	28:d:102:THR:HG23	1.97	0.64
9:I:1478:A:N1	9:I:1479:A:N6	2.45	0.64
9:I:1624:G:N2	9:I:1628:C:N3	2.46	0.64
9:I:1835:C:HO2'	9:I:1836:C:P	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2065:C:H2'	9:I:2066:U:C6	2.32	0.64
9:I:2309:G:O2'	9:I:2310:U:O5'	2.11	0.64
9:I:2346:U:H2'	9:I:2347:U:H6	1.62	0.64
9:I:2908:C:H3'	9:I:2909:U:C6	2.33	0.64
9:I:2979:U:O2	9:I:2979:U:H2'	1.97	0.64
9:I:3149:A:C2	9:I:3150:C:H1'	2.33	0.64
9:I:3297:A:C2'	9:I:3298:C:H5'	2.26	0.64
9:I:3348:A:H2	9:I:3582:A:H1'	1.62	0.64
9:I:3499:A:H5''	9:I:3500:C:OP2	1.97	0.64
9:I:3760:A:C4'	9:I:3761:A:H5'	2.28	0.64
9:I:3793:U:C2'	9:I:3794:C:O4'	2.44	0.64
9:I:4042:U:N3	9:I:4043:G:N7	2.46	0.64
9:I:4142:G:H2'	9:I:4143:C:C6	2.32	0.64
9:I:4201:U:H2'	9:I:4202:G:C8	2.33	0.64
11:K:140:VAL:HG11	11:K:189:ALA:CB	2.28	0.64
11:K:196:ASN:O	11:K:199:HIS:HB3	1.98	0.64
12:L:6:GLY:HA3	12:L:27:ILE:HG12	1.79	0.64
13:M:16:GLU:HG3	13:M:20:GLY:HA3	1.79	0.64
15:O:134:GLY:HA3	15:O:140:ILE:CG2	2.28	0.64
15:O:136:ASP:OD2	15:O:138:GLN:HB3	1.98	0.64
17:S:8:LEU:HB3	17:S:19:VAL:HG22	1.79	0.64
17:S:20:MET:HB3	17:S:44:LYS:NZ	2.13	0.64
17:S:113:MET:CG	17:S:116:ILE:HD11	2.15	0.64
19:U:97:GLN:H	19:U:100:LYS:HD3	1.61	0.64
20:V:35:LYS:HZ1	20:V:103:ARG:HB2	1.61	0.64
21:W:29:PHE:HB2	21:W:39:ASN:CG	2.23	0.64
25:a:21:MET:HE1	25:a:24:ARG:HH21	1.63	0.64
30:f:18:THR:CG2	30:f:80:GLY:HA3	2.28	0.64
31:g:13:ARG:HH21	31:g:14:LYS:HG3	1.62	0.64
33:i:40:HIS:CA	33:i:48:TYR:CZ	2.80	0.64
34:j:22:LYS:CE	34:j:27:LYS:HB3	2.28	0.64
2:B:1:SER:H3	9:I:738:C:H4'	1.61	0.64
3:C:4:ILE:HA	3:C:21:VAL:HA	1.79	0.64
3:C:63:GLN:C	9:I:226:G:N1	2.55	0.64
7:G:7:LYS:HE2	7:G:11:GLN:OE1	1.97	0.64
7:G:9:ALA:O	7:G:13:GLU:N	2.25	0.64
9:I:312:A:H2'	9:I:313:C:H6	1.57	0.64
9:I:436:U:C2'	9:I:437:U:H5'	2.28	0.64
9:I:719:C:O5'	9:I:720:G:H2'	1.98	0.64
9:I:864:A:H2'	9:I:865:C:C6	2.32	0.64
9:I:1314:U:O2'	9:I:1360:G:O4'	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1628:C:H2'	9:I:1629:C:C6	2.33	0.64
9:I:1661:A:H3'	9:I:1662:U:H2'	1.80	0.64
9:I:1793:U:H5''	9:I:1794:A:OP2	1.98	0.64
9:I:1807:G:H5''	9:I:1808:G:OP2	1.97	0.64
9:I:2066:U:H2'	9:I:2067:U:C6	2.32	0.64
9:I:2113:A:C5'	9:I:2114:A:H8	2.08	0.64
9:I:2284:G:O2'	9:I:2285:G:O5'	2.11	0.64
9:I:2635:U:H4'	9:I:2636:A:O4'	1.96	0.64
9:I:2824:C:N4	9:I:2825:G:O6	2.31	0.64
9:I:3015:G:H5''	9:I:3017:U:O4	1.98	0.64
9:I:3063:A:H2'	9:I:3064:A:C8	2.33	0.64
9:I:3592:U:H2'	9:I:3593:U:H6	1.63	0.64
9:I:3665:A:H5'	9:I:3667:A:C8	2.32	0.64
9:I:3959:C:H2'	9:I:3959:C:O2	1.96	0.64
9:I:4040:U:O2'	9:I:4041:A:OP2	2.14	0.64
9:I:4111:U:H2'	9:I:4112:G:H5'	1.80	0.64
9:I:4421:G:H2'	9:I:4422:MA6:C8	2.27	0.64
11:K:66:PHE:HE1	11:K:155:ARG:HD3	1.63	0.64
11:K:92:LEU:HD12	11:K:102:TYR:HA	1.79	0.64
11:K:94:LEU:HA	11:K:100:ARG:HG2	1.80	0.64
12:L:101:PHE:CE1	12:L:205:PRO:HD3	2.32	0.64
12:L:127:PHE:O	12:L:128:ARG:NH2	2.31	0.64
14:N:120:SER:O	14:N:127:TYR:HA	1.97	0.64
15:O:1:SER:O	15:O:4:ALA:N	2.31	0.64
17:S:5:GLN:CA	17:S:20:MET:HG2	2.28	0.64
19:U:96:ILE:CA	19:U:100:LYS:HD3	2.28	0.64
25:a:70:VAL:CA	25:a:73:GLU:HG2	2.23	0.64
27:c:8:ASP:HB3	27:c:26:MET:HE1	1.78	0.64
27:c:9:MET:O	27:c:13:ILE:HG13	1.98	0.64
27:c:103:VAL:CG2	27:c:124:ILE:HD13	2.27	0.64
28:d:121:ARG:HD2	28:d:122:PRO:O	1.97	0.64
32:h:27:THR:O	32:h:31:ALA:N	2.25	0.64
32:h:39:ALA:HB3	32:h:42:VAL:HG22	1.78	0.64
40:p:81:GLY:CA	40:p:84:LYS:HD2	2.28	0.64
40:p:93:ILE:CG2	41:q:40:MET:CE	2.75	0.64
41:q:14:VAL:CG1	41:q:20:VAL:HG11	2.27	0.64
43:s:54:GLU:OE2	43:s:88:LYS:HE3	1.98	0.64
43:s:76:ARG:HG2	43:s:77:ARG:O	1.98	0.64
47:w:68:ALA:O	47:w:71:ARG:NH1	2.31	0.64
49:y:44:ARG:NH1	49:y:44:ARG:O	2.30	0.64
1:A:84:ARG:HH12	9:I:1059:U:C4'	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:36:PHE:HB2	30:f:112:PRO:CB	2.28	0.64
9:I:230:U:O2'	9:I:231:G:H5'	1.98	0.64
9:I:276:C:H2'	9:I:277:G:O4'	1.96	0.64
9:I:294:C:O2'	9:I:295:U:H5'	1.97	0.64
9:I:504:G:P	9:I:534:A:H5'	2.37	0.64
9:I:528:G:HO2'	9:I:532:A:N6	1.95	0.64
9:I:694:A:OP1	30:f:41:ARG:HG3	1.97	0.64
9:I:973:A:C5'	9:I:974:A:H3'	2.23	0.64
9:I:1150:A:H5'	29:e:40:THR:HB	1.80	0.64
9:I:1260:A:C4'	9:I:1282:U:H5''	2.28	0.64
9:I:1408:C:O2'	9:I:1409:A:H5'	1.98	0.64
9:I:1476:C:H4'	20:V:90:ARG:CZ	2.27	0.64
9:I:1533:C:O2	9:I:1947:A:N6	2.31	0.64
9:I:1584:A:N7	9:I:1599:U:H4'	2.13	0.64
9:I:1634:G:H2'	9:I:1635:U:C6	2.33	0.64
9:I:1908:G:H2'	9:I:1909:G:C1'	2.27	0.64
9:I:2127:A:N6	18:T:112:LEU:O	2.31	0.64
9:I:2405:A:H3'	19:U:9:PHE:HZ	1.62	0.64
9:I:2989:A:C2'	9:I:2990:A:O4'	2.46	0.64
9:I:3014:U:H2'	9:I:3015:G:C5'	2.28	0.64
9:I:3089:C:H2'	9:I:3090:A:C8	2.33	0.64
9:I:3093:U:C2	9:I:3094:C:C5	2.85	0.64
9:I:3308:G:H2'	9:I:3309:A:N7	2.13	0.64
9:I:3373:C:O2'	9:I:3374:U:H5'	1.96	0.64
9:I:3531:A:H2'	9:I:3532:G:H8	1.63	0.64
9:I:3828:U:OP2	38:n:8:ARG:NE	2.31	0.64
9:I:4232:A:H8	9:I:4232:A:OP2	1.81	0.64
10:J:105:G:H2'	10:J:106:G:C1'	2.28	0.64
11:K:29:PHE:CE2	11:K:31:PRO:HD2	2.33	0.64
11:K:157:ALA:O	11:K:194:VAL:HG13	1.97	0.64
13:M:23:PHE:HD2	13:M:25:GLU:HA	1.62	0.64
13:M:131:THR:HG21	13:M:163:ASN:N	2.12	0.64
14:N:35:LEU:HA	14:N:153:ILE:CD1	2.26	0.64
14:N:73:VAL:HG22	14:N:78:ILE:CG1	2.28	0.64
15:O:122:ALA:HB1	15:O:131:VAL:O	1.98	0.64
15:O:132:LEU:HD13	15:O:143:VAL:HB	1.80	0.64
18:T:85:VAL:HG11	18:T:95:LEU:CD2	2.28	0.64
20:V:29:VAL:HG12	20:V:78:LYS:NZ	2.13	0.64
20:V:99:LYS:HB3	33:i:41:HIS:HD2	1.61	0.64
21:W:68:GLY:O	21:W:90:ASN:HA	1.97	0.64
21:W:166:GLU:HB3	21:W:169:ALA:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:151:GLU:HA	22:X:165:GLU:O	1.98	0.64
40:p:63:ARG:O	40:p:66:ALA:HB3	1.98	0.64
41:q:5:PHE:CZ	41:q:12:HIS:HB3	2.33	0.64
41:q:48:LYS:O	41:q:54:VAL:HA	1.97	0.64
45:u:27:PRO:HG2	45:u:88:HIS:HD2	1.62	0.64
46:v:11:LEU:HD22	46:v:29:ARG:HB3	1.79	0.64
46:v:58:LYS:HD3	46:v:73:GLU:CD	2.23	0.64
48:x:56:LEU:O	48:x:60:ALA:N	2.31	0.64
1:A:48:GLN:HE21	6:F:11:LEU:HB3	1.63	0.64
3:C:32:PHE:CZ	9:I:309:G:H5''	2.33	0.64
3:C:62:GLY:CA	9:I:226:G:C4	2.80	0.64
7:G:76:ASN:O	7:G:80:GLN:HG2	1.98	0.64
8:H:19:LYS:HG3	30:f:81:ARG:NH1	2.13	0.64
9:I:79:A:H2'	9:I:80:A:C8	2.33	0.64
9:I:937:A:H1'	9:I:1375:U:O2'	1.98	0.64
9:I:1059:U:C5	22:X:1:GLY:HA3	2.33	0.64
9:I:1073:G:O6	9:I:1082:U:O4	2.15	0.64
9:I:1287:A:C6	9:I:1370:G:H1'	2.33	0.64
9:I:1494:U:H2'	9:I:1495:A:C8	2.33	0.64
9:I:1636:G:N1	9:I:1644:A:N7	2.44	0.64
9:I:1870:G:OP2	9:I:1923:A:N6	2.31	0.64
9:I:2107:U:O2'	9:I:2108:A:H5'	1.97	0.64
9:I:2115:U:H3	13:M:38:GLY:HA3	1.62	0.64
9:I:2224:U:H2'	9:I:2225:G:C8	2.33	0.64
9:I:2667:U:H3'	9:I:2668:U:H4'	1.79	0.64
9:I:3018:G:H2'	9:I:3019:A:C8	2.32	0.64
9:I:3398:G:H2'	9:I:3399:C:C5'	2.24	0.64
9:I:3478:G:H2'	9:I:3479:C:H6	1.63	0.64
9:I:3780:G:H4'	9:I:3781:A:O5'	1.97	0.64
9:I:3808:A:H4'	14:N:156:THR:CA	2.28	0.64
9:I:4174:U:H2'	9:I:4176:A:N6	2.13	0.64
9:I:4303:A:H2'	9:I:4304:A:N9	2.13	0.64
10:J:69:C:H2'	10:J:70:C:H6	1.60	0.64
11:K:270:ARG:HG3	11:K:271:SER:O	1.98	0.64
12:L:39:ASP:HA	12:L:46:ARG:CG	2.27	0.64
14:N:111:ARG:HH22	14:N:131:VAL:CA	2.10	0.64
15:O:28:LYS:HG3	15:O:79:THR:HA	1.79	0.64
16:R:119:PHE:CZ	16:R:122:LEU:HD22	2.33	0.64
18:T:111:ILE:HA	18:T:128:THR:OG1	1.98	0.64
22:X:152:VAL:HA	22:X:196:GLY:O	1.98	0.64
23:Y:75:TYR:O	23:Y:79:ALA:N	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:a:51:ILE:HD12	25:a:85:ILE:CD1	2.28	0.64
25:a:55:HIS:C	25:a:56:LYS:HG2	2.21	0.64
25:a:78:PHE:CD1	25:a:84:VAL:HG11	2.25	0.64
26:b:50:ALA:HB2	26:b:57:GLU:HG3	1.78	0.64
28:d:19:LYS:O	28:d:59:ASP:N	2.31	0.64
28:d:32:LEU:CG	28:d:42:ARG:HG2	2.28	0.64
31:g:35:ARG:NH1	31:g:36:VAL:O	2.29	0.64
31:g:39:THR:C	31:g:48:LEU:HD13	2.23	0.64
37:m:4:ARG:HE	37:m:35:GLN:HE22	1.46	0.64
39:o:4:ILE:HA	39:o:7:LEU:CD1	2.28	0.64
40:p:63:ARG:NH2	40:p:99:VAL:HG21	2.13	0.64
46:v:43:CYS:C	46:v:47:HIS:HA	2.22	0.64
48:x:22:ARG:HD2	48:x:26:ASN:HD21	1.63	0.64
49:y:16:LEU:HD12	49:y:17:PRO:HD2	1.79	0.64
1:A:17:ASP:HA	1:A:21:ALA:HB2	1.79	0.63
3:C:28:ARG:CZ	9:I:110:G:H4'	2.28	0.63
8:H:42:THR:O	8:H:46:ARG:N	2.28	0.63
9:I:71:A:H2'	9:I:72:C:H5'	1.80	0.63
9:I:502:C:H2'	9:I:503:C:C6	2.33	0.63
9:I:604:U:H2'	9:I:605:G:C8	2.33	0.63
9:I:865:C:O2'	9:I:918:A:OP1	2.16	0.63
9:I:1780:U:C4	9:I:1861:G:N2	2.66	0.63
9:I:1817:G:H2'	9:I:1818:C:O5'	1.98	0.63
9:I:1845:A:OP1	9:I:1845:A:H3'	1.97	0.63
9:I:1913:C:C2	9:I:1914:C:C5	2.86	0.63
9:I:2346:U:C2	9:I:2347:U:H5	2.15	0.63
9:I:2648:G:OP2	40:p:91:ARG:NH2	2.31	0.63
9:I:2892:C:H2'	9:I:2893:C:C6	2.33	0.63
9:I:2994:G:H2'	9:I:2995:G:C8	2.34	0.63
9:I:3162:A:C2	9:I:3168:G:C4	2.86	0.63
9:I:3201:G:N1	9:I:3245:U:N1	2.46	0.63
9:I:3216:A:OP2	9:I:3231:G:N1	2.29	0.63
9:I:3724:G:H2'	9:I:3725:U:C6	2.32	0.63
9:I:3871:A:C2	38:n:116:PHE:CE1	2.85	0.63
9:I:4138:G:OP2	9:I:4138:G:H8	1.81	0.63
9:I:4188:G:N1	9:I:4210:C:N3	2.46	0.63
12:L:109:VAL:HG13	12:L:201:LEU:CB	2.28	0.63
15:O:23:ILE:HG13	15:O:36:LEU:HB2	1.80	0.63
15:O:126:THR:HG22	15:O:127:GLN:N	2.10	0.63
18:T:109:LYS:HE2	18:T:128:THR:HG22	1.79	0.63
18:T:112:LEU:CA	18:T:131:ALA:HB2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:65:LEU:O	20:V:68:ALA:HB3	1.98	0.63
22:X:112:ALA:HB1	22:X:199:VAL:HG13	1.80	0.63
24:Z:27:LEU:HD13	24:Z:125:ILE:CD1	2.27	0.63
28:d:91:LEU:CB	28:d:95:LEU:HD13	2.23	0.63
30:f:17:ASN:CG	30:f:36:GLY:H	2.05	0.63
32:h:38:ILE:HG13	32:h:55:LEU:CD2	2.20	0.63
43:s:64:LYS:HA	43:s:79:ASP:OD1	1.98	0.63
2:B:38:LEU:HB3	2:B:42:PHE:HE2	1.62	0.63
5:E:8:ALA:O	5:E:11:LYS:HG2	1.99	0.63
5:E:13:TYR:HE2	5:E:28:THR:HG21	1.60	0.63
5:E:23:SER:HA	5:E:26:THR:OG1	1.98	0.63
9:I:194:A:H1'	9:I:221:C:O2'	1.99	0.63
9:I:958:A:O2'	9:I:983:C:H1'	1.97	0.63
9:I:1298:A:O2'	9:I:1299:G:H4'	1.99	0.63
9:I:1440:A:H62	9:I:4366:C:H1'	1.64	0.63
9:I:1795:G:H2'	9:I:1796:U:H5'	1.80	0.63
9:I:1872:G:H5''	47:w:60:LYS:HD3	1.81	0.63
9:I:1980:A:H5'	44:t:41:VAL:HG23	1.79	0.63
9:I:2038:A:O3'	16:R:7:LYS:HG3	1.98	0.63
9:I:2596:C:H4'	37:m:12:ARG:CD	2.28	0.63
9:I:2970:U:O4'	9:I:3226:C:C2	2.51	0.63
9:I:3273:U:H5	9:I:3278:A:N7	1.96	0.63
9:I:3680:G:H2'	9:I:3681:U:C5	2.33	0.63
9:I:3974:C:O2	9:I:3974:C:H2'	1.98	0.63
9:I:4382:U:O2'	9:I:4383:C:H5'	1.99	0.63
10:J:113:C:C2'	10:J:114:A:H5'	2.28	0.63
11:K:144:GLU:CD	11:K:150:GLY:H	2.06	0.63
13:M:28:VAL:HG22	13:M:108:ILE:CG2	2.29	0.63
13:M:170:ARG:CZ	13:M:179:SER:HB3	2.28	0.63
13:M:176:ASP:O	13:M:180:LEU:HG	1.97	0.63
14:N:48:LEU:HD21	14:N:147:ARG:CD	2.27	0.63
16:R:8:PRO:HA	16:R:11:VAL:HG23	1.78	0.63
17:S:5:GLN:HG2	17:S:20:MET:SD	2.37	0.63
20:V:22:ARG:CB	20:V:70:THR:HA	2.27	0.63
20:V:45:ARG:CA	20:V:49:GLU:HG3	2.28	0.63
20:V:103:ARG:HA	20:V:110:MET:HE2	1.79	0.63
21:W:24:MET:O	21:W:28:ILE:HG13	1.98	0.63
21:W:122:THR:HG22	21:W:124:ASP:OD2	1.99	0.63
22:X:61:LYS:O	22:X:97:PRO:HD2	1.98	0.63
23:Y:137:SER:HB2	23:Y:140:ASP:OD2	1.98	0.63
24:Z:104:ALA:O	24:Z:108:VAL:HG13	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:c:11:THR:HA	27:c:14:ARG:HB3	1.79	0.63
28:d:121:ARG:CZ	28:d:124:PHE:HB2	2.28	0.63
29:e:20:GLU:O	29:e:24:THR:N	2.28	0.63
32:h:84:CYS:O	32:h:88:LEU:HG	1.97	0.63
37:m:4:ARG:NE	37:m:6:SER:O	2.31	0.63
37:m:23:ILE:CA	37:m:37:GLN:HB2	2.28	0.63
41:q:13:ARG:HD2	41:q:13:ARG:C	2.23	0.63
44:t:15:GLY:O	44:t:16:LYS:HB2	1.97	0.63
4:D:54:ASP:HB3	4:D:78:LYS:HE2	1.79	0.63
9:I:102:U:H1'	9:I:170:A:N1	2.12	0.63
9:I:697:G:H1'	9:I:797:U:H4'	1.80	0.63
9:I:793:A:H2'	9:I:794:C:C6	2.33	0.63
9:I:1197:G:H2'	9:I:1198:U:H6	1.63	0.63
9:I:1250:A:H2'	9:I:1251:A:H8	1.61	0.63
9:I:1694:G:O2'	9:I:1695:A:H5'	1.98	0.63
9:I:1817:G:C2	9:I:1818:C:H1'	2.33	0.63
9:I:1829:G:H2'	44:t:15:GLY:CA	2.28	0.63
9:I:1908:G:H2'	9:I:1909:G:N9	2.14	0.63
9:I:1980:A:H5'	44:t:41:VAL:CG2	2.29	0.63
9:I:1999:U:H2'	9:I:2000:G:C8	2.33	0.63
9:I:2470:G:H4'	9:I:2650:A:N6	2.13	0.63
9:I:2700:G:C2	9:I:2734:U:C2	2.86	0.63
9:I:3291:G:C5'	11:K:270:ARG:HH12	2.12	0.63
9:I:3492:A:H2'	9:I:3493:C:C6	2.33	0.63
9:I:3595:A:OP2	9:I:3595:A:H8	1.81	0.63
9:I:3807:C:C1'	14:N:36:ASN:HB3	2.28	0.63
9:I:3818:U:H5'	9:I:3831:G:H5''	1.80	0.63
9:I:4176:A:HO2'	12:L:13:ARG:CD	2.09	0.63
9:I:4210:C:C2	9:I:4211:C:C5	2.86	0.63
9:I:4239:C:H2'	9:I:4240:U:H6	1.61	0.63
10:J:12:G:N2	10:J:15:G:H1'	2.14	0.63
10:J:48:C:H2'	10:J:49:A:C8	2.33	0.63
10:J:108:A:OP1	10:J:108:A:H4'	1.98	0.63
15:O:24:THR:HG22	15:O:33:THR:CG2	2.29	0.63
16:R:4:PHE:HD1	40:p:100:PHE:CE1	2.16	0.63
16:R:81:ILE:HG23	16:R:82:GLY:N	2.10	0.63
18:T:95:LEU:HB2	18:T:101:ILE:CD1	2.27	0.63
21:W:31:ALA:HB2	21:W:36:HIS:ND1	2.13	0.63
34:j:35:LYS:HE2	34:j:46:TYR:CD1	2.34	0.63
38:n:29:ARG:NE	38:n:101:ARG:HB2	2.13	0.63
41:q:38:VAL:O	41:q:54:VAL:HG23	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:t:4:ILE:HG23	44:t:8:ASP:OD2	1.99	0.63
44:t:18:LYS:O	44:t:18:LYS:HG3	1.99	0.63
1:A:52:ARG:NH1	9:I:1218:A:H4'	2.09	0.63
5:E:19:LYS:HE3	30:f:104:ILE:H	1.62	0.63
5:E:20:ILE:HD12	5:E:40:ILE:HD13	1.81	0.63
8:H:3:ILE:HG23	30:f:97:ASN:O	1.99	0.63
9:I:9:A:O2'	9:I:10:G:H5'	1.99	0.63
9:I:133:G:H2'	9:I:134:C:C6	2.33	0.63
9:I:150:A:H2'	9:I:151:A:H5'	1.79	0.63
9:I:195:A:N3	9:I:221:C:H1'	2.13	0.63
9:I:211:G:O2'	9:I:212:G:H5'	1.99	0.63
9:I:382:A:C6	9:I:383:G:H1'	2.34	0.63
9:I:406:U:H2'	9:I:407:A:C8	2.33	0.63
9:I:464:A:H2'	9:I:465:A:C8	2.34	0.63
9:I:756:U:O2'	9:I:878:C:H1'	1.97	0.63
9:I:864:A:H2'	9:I:865:C:H6	1.62	0.63
9:I:1544:A:H2'	9:I:1545:G:O4'	1.97	0.63
9:I:1561:C:P	48:x:43:LYS:HE2	2.39	0.63
9:I:1812:G:O2'	9:I:1831:C:N4	2.32	0.63
9:I:1813:G:N3	9:I:1813:G:H2'	2.12	0.63
9:I:2160:C:H2'	9:I:2161:A:H8	1.64	0.63
9:I:2328:U:C5'	9:I:2331:G:H22	2.10	0.63
9:I:2526:A:C2'	9:I:2528:G:OP2	2.45	0.63
9:I:2570:C:H2'	9:I:2571:A:C8	2.33	0.63
9:I:2578:A:H2'	9:I:2579:A:C8	2.33	0.63
9:I:2963:A:P	9:I:3016:A:H61	2.20	0.63
9:I:3222:C:H1'	9:I:3227:G:C2	2.33	0.63
9:I:3234:G:O2'	9:I:3235:C:H5'	1.97	0.63
9:I:3348:A:N7	9:I:3382:G:N3	2.46	0.63
9:I:3576:A:H62	9:I:3731:G:H1'	1.61	0.63
9:I:3869:G:H3'	9:I:3871:A:OP2	1.98	0.63
9:I:3904:G:O2'	9:I:3905:A:H5'	1.98	0.63
9:I:4204:C:H2'	9:I:4205:A:O4'	1.99	0.63
11:K:162:GLN:HG2	11:K:162:GLN:O	1.98	0.63
12:L:48:ILE:CG2	12:L:90:PHE:HB2	2.28	0.63
12:L:104:VAL:HG22	12:L:106:LYS:O	1.98	0.63
14:N:146:ASP:HB2	14:N:149:ARG:NH2	2.14	0.63
15:O:84:LYS:HE3	15:O:140:ILE:HD11	1.80	0.63
16:R:112:GLY:O	16:R:116:ARG:N	2.22	0.63
17:S:40:LYS:HZ2	17:S:59:LYS:HZ2	1.46	0.63
18:T:85:VAL:CG1	18:T:100:ILE:HD13	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:124:GLY:C	18:T:125:LEU:HD12	2.23	0.63
23:Y:53:GLN:CG	23:Y:198:LEU:HD11	2.23	0.63
23:Y:105:GLY:HA3	23:Y:161:ALA:CB	2.27	0.63
26:b:144:ALA:O	26:b:145:GLU:HG3	1.98	0.63
30:f:17:ASN:OD1	30:f:35:ALA:HB3	1.99	0.63
30:f:23:THR:CB	30:f:29:ALA:HA	2.29	0.63
30:f:41:ARG:O	30:f:44:ARG:HG2	1.98	0.63
32:h:18:LEU:HD12	32:h:33:LEU:HG	1.78	0.63
34:j:19:THR:HG23	36:l:33:THR:CB	2.27	0.63
34:j:36:PHE:HB2	34:j:43:HIS:NE2	2.14	0.63
44:t:40:LEU:HA	44:t:60:LYS:O	1.97	0.63
46:v:63:GLY:O	46:v:66:ASN:N	2.30	0.63
1:A:51:PRO:HB2	1:A:54:SER:OG	1.98	0.63
7:G:27:ARG:NH2	9:I:1437:G:OP1	2.29	0.63
8:H:43:GLU:HB3	8:H:46:ARG:NH2	2.13	0.63
9:I:123:C:H2'	9:I:124:U:C6	2.34	0.63
9:I:214:C:H2'	9:I:215:U:O4'	1.97	0.63
9:I:543:G:H2'	9:I:544:C:O4'	1.97	0.63
9:I:693:A:H5'	30:f:43:SER:OG	1.97	0.63
9:I:809:C:H2'	9:I:810:C:O4'	1.98	0.63
9:I:920:U:O2	24:Z:15:THR:HB	1.98	0.63
9:I:1129:A:H4'	28:d:17:PHE:CE2	2.32	0.63
9:I:1213:C:H2'	9:I:1214:G:C8	2.33	0.63
9:I:1278:G:H3'	9:I:1278:G:N3	2.13	0.63
9:I:1451:U:O2'	9:I:4354:U:O4	2.09	0.63
9:I:1577:G:H2'	9:I:1578:U:H6	1.62	0.63
9:I:1637:U:H3	9:I:1643:C:H42	1.45	0.63
9:I:1860:U:C4	9:I:1861:G:C6	2.87	0.63
9:I:1870:G:N1	9:I:1924:G:N7	2.46	0.63
9:I:1891:A:H2'	9:I:1891:A:N3	2.12	0.63
9:I:2018:G:H2'	9:I:2019:U:C6	2.33	0.63
9:I:2135:C:H2'	9:I:2135:C:O2	1.98	0.63
9:I:2522:A:C2'	9:I:2523:A:C8	2.76	0.63
9:I:2522:A:C4	9:I:2523:A:C8	2.85	0.63
9:I:2544:A:C2	9:I:2545:G:C8	2.87	0.63
9:I:2609:G:C2	9:I:2610:G:C8	2.86	0.63
9:I:2654:G:H2'	9:I:2655:C:H6	1.60	0.63
9:I:2716:U:H2'	9:I:2717:G:C8	2.34	0.63
9:I:3217:G:C2	9:I:3218:G:H1'	2.33	0.63
9:I:3323:A:C2'	11:K:14:HIS:HD2	2.10	0.63
9:I:3324:C:O2'	9:I:3325:G:H5'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3340:G:H2'	9:I:3341:A:O4'	1.98	0.63
9:I:3527:A:O2'	9:I:3529:G:OP2	2.14	0.63
9:I:3890:G:C2	9:I:3891:G:C8	2.87	0.63
9:I:4252:A:H1'	15:O:63:GLN:NE2	2.12	0.63
11:K:2:VAL:HA	11:K:18:VAL:HA	1.81	0.63
12:L:39:ASP:N	12:L:45:TYR:O	2.31	0.63
14:N:12:VAL:HG12	14:N:16:MET:HG3	1.78	0.63
14:N:69:ALA:HB1	14:N:78:ILE:HB	1.80	0.63
15:O:23:ILE:HD11	15:O:36:LEU:HD13	1.80	0.63
22:X:67:ILE:O	22:X:102:ILE:HD12	1.99	0.63
25:a:19:PRO:O	25:a:23:GLU:HG3	1.98	0.63
36:l:23:HIS:C	36:l:46:LYS:HD3	2.23	0.63
39:o:20:ARG:H	39:o:23:ASP:CB	2.09	0.63
40:p:81:GLY:HA2	40:p:84:LYS:CD	2.28	0.63
45:u:79:ARG:HD3	45:u:80:HIS:O	1.99	0.63
46:v:27:ILE:CG2	46:v:70:ILE:HD13	2.27	0.63
1:A:51:PRO:HA	9:I:1014:G:H5'	1.81	0.63
1:A:99:SER:CB	28:d:110:ARG:HH22	2.10	0.63
2:B:2:LEU:HD11	2:B:6:ALA:CB	2.27	0.63
3:C:1:MET:HB3	9:I:132:U:C2'	2.28	0.63
8:H:15:LEU:HG	30:f:85:ILE:CD1	2.29	0.63
9:I:68:G:H2'	9:I:69:U:N1	2.13	0.63
9:I:334:C:H4'	9:I:1433:A:H4'	1.81	0.63
9:I:342:U:H2'	9:I:344:C:C5	2.34	0.63
9:I:525:C:H5''	9:I:526:G7M:OP2	1.98	0.63
9:I:677:U:O2'	9:I:678:C:H5'	1.99	0.63
9:I:794:C:O2'	30:f:116:ARG:O	2.16	0.63
9:I:1106:C:OP1	22:X:173:PRO:HB3	1.99	0.63
9:I:1477:U:O4	9:I:1478:A:N6	2.32	0.63
9:I:1623:G:H2'	9:I:1624:G:C8	2.34	0.63
9:I:2050:C:O2'	9:I:2051:G:H5'	1.99	0.63
9:I:2190:G:H2'	9:I:2191:C:O4'	1.99	0.63
9:I:2399:A:C2'	9:I:2400:U:H5'	2.28	0.63
9:I:2530:G:C2'	9:I:2531:G:O4'	2.46	0.63
9:I:2727:C:H2'	9:I:2728:U:C6	2.34	0.63
9:I:2958:G:H2'	9:I:2959:G:C8	2.33	0.63
9:I:2976:G:H1'	9:I:3003:A:C6	2.34	0.63
9:I:2989:A:H2'	9:I:2990:A:C8	2.34	0.63
9:I:3235:C:C2'	9:I:3236:U:O4'	2.46	0.63
9:I:3311:G:H3'	9:I:3312:U:H6	1.62	0.63
9:I:3361:G:H2'	9:I:3362:C:O4'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3426:A:H61	9:I:3462:G:H1'	1.63	0.63
9:I:3702:C:H2'	9:I:3703:G:H8	1.63	0.63
9:I:3735:A:H2'	9:I:3736:G:C8	2.33	0.63
9:I:3783:G:H1'	9:I:3840:A:N7	2.14	0.63
9:I:3788:G:C8	9:I:3788:G:C3'	2.80	0.63
9:I:3814:U:O2'	9:I:3827:A:N1	2.23	0.63
9:I:3842:U:H1'	34:j:36:PHE:CE2	2.34	0.63
9:I:3961:C:H3'	9:I:3962:A:H8	1.61	0.63
9:I:3990:C:O2'	9:I:3991:A:O4'	2.16	0.63
9:I:4139:G:H1'	9:I:4227:A:OP1	1.98	0.63
9:I:4142:G:C2	9:I:4166:U:O2	2.50	0.63
9:I:4244:A:O2'	9:I:4246:C:N4	2.31	0.63
10:J:4:U:OP1	10:J:60:G:H1'	1.99	0.63
12:L:111:GLY:O	12:L:170:VAL:HG22	1.99	0.63
15:O:140:ILE:HG13	15:O:141:GLY:N	2.12	0.63
16:R:15:TRP:CD1	16:R:53:TYR:HB3	2.33	0.63
17:S:85:VAL:HG12	17:S:94:PRO:HG3	1.79	0.63
17:S:113:MET:CA	17:S:116:ILE:HG12	2.28	0.63
19:U:97:GLN:H	19:U:100:LYS:HD2	1.63	0.63
20:V:59:SER:HA	20:V:63:ARG:CZ	2.29	0.63
21:W:105:ARG:HA	21:W:108:ILE:HG12	1.79	0.63
25:a:50:PRO:HB3	25:a:53:LYS:C	2.24	0.63
25:a:64:VAL:HG21	25:a:71:ILE:HD11	1.81	0.63
29:e:77:GLU:HA	29:e:80:VAL:CG1	2.25	0.63
32:h:106:ARG:NH2	32:h:112:ARG:HH12	1.95	0.63
34:j:4:GLU:HB2	34:j:24:LYS:CE	2.28	0.63
37:m:23:ILE:N	37:m:37:GLN:CB	2.62	0.63
39:o:91:VAL:O	39:o:112:ARG:NH2	2.30	0.63
41:q:13:ARG:HD2	41:q:14:VAL:N	2.14	0.63
45:u:60:VAL:HG22	45:u:73:LYS:HG2	1.78	0.63
47:w:70:LEU:O	47:w:75:GLU:N	2.32	0.63
48:x:13:LEU:CD1	48:x:56:LEU:HD11	2.28	0.63
1:A:93:PRO:HD2	22:X:32:LEU:HD11	1.80	0.63
9:I:395:C:H3'	9:I:396:A:H5''	1.79	0.63
9:I:570:U:H5''	9:I:818:A:C2	2.33	0.63
9:I:714:A:H2'	9:I:715:A:C8	2.33	0.63
9:I:879:C:O2'	9:I:880:G:H5'	1.99	0.63
9:I:1193:U:H2'	9:I:1194:C:C6	2.34	0.63
9:I:1200:A:H4'	9:I:1201:U:C5'	2.28	0.63
9:I:1365:C:H2'	9:I:1366:C:H6	1.64	0.63
9:I:1543:G:H2'	9:I:1544:A:O4'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2011:U:H5	9:I:2012:G:C4	2.17	0.63
9:I:2172:C:H2'	9:I:2173:C:H6	1.64	0.63
9:I:2521:A:H5''	9:I:2522:A:OP1	1.97	0.63
9:I:2805:G:O2'	9:I:2806:U:OP2	2.12	0.63
9:I:3002:A:O2'	9:I:3003:A:O4'	2.14	0.63
9:I:3079:C:H3'	9:I:3080:A:C8	2.32	0.63
9:I:3306:U:H5''	9:I:3307:G:OP2	1.98	0.63
9:I:3603:U:H1'	9:I:3675:U:O2	1.98	0.63
9:I:3644:C:H2'	9:I:3645:U:C6	2.34	0.63
9:I:3768:A:H5''	9:I:3769:C:OP2	1.98	0.63
9:I:3870:A:H2'	9:I:3871:A:C4'	2.29	0.63
9:I:4149:G:H4'	9:I:4150:U:C5'	2.28	0.63
9:I:4242:A:H2'	9:I:4243:A:C5'	2.28	0.63
11:K:15:VAL:HG22	11:K:205:GLY:HA3	1.80	0.63
11:K:163:ILE:CA	11:K:173:LEU:HD13	2.28	0.63
12:L:82:PHE:HB2	12:L:88:GLU:OE2	1.98	0.63
14:N:11:VAL:HG12	14:N:15:LEU:CD1	2.28	0.63
15:O:53:PRO:HA	15:O:60:GLY:CA	2.28	0.63
19:U:38:ARG:HB2	19:U:98:PRO:CG	2.28	0.63
21:W:69:THR:HG23	21:W:91:HIS:CA	2.26	0.63
23:Y:105:GLY:CA	23:Y:161:ALA:HB2	2.28	0.63
23:Y:197:HIS:HB2	24:Z:94:THR:CG2	2.29	0.63
32:h:86:ARG:HG2	32:h:90:HIS:CD2	2.34	0.63
34:j:25:ARG:O	34:j:28:PRO:HD3	1.98	0.63
35:k:1:MET:CG	35:k:2:LYS:H	2.06	0.63
38:n:3:LYS:HD2	38:n:6:ARG:HH22	1.63	0.63
38:n:19:GLU:CD	46:v:39:ALA:HA	2.23	0.63
39:o:6:GLN:HE21	39:o:9:GLN:HE21	1.46	0.63
41:q:38:VAL:HG12	41:q:40:MET:O	1.99	0.63
42:r:53:SER:O	42:r:56:ALA:N	2.32	0.63
44:t:93:ARG:CB	44:t:102:ILE:HD13	2.25	0.63
47:w:70:LEU:HA	47:w:73:ARG:HH21	1.64	0.63
49:y:26:LEU:HD21	49:y:43:ILE:HG23	1.81	0.63
3:C:9:HIS:CE1	3:C:29:ASN:HB3	2.34	0.63
8:H:22:CYS:HA	30:f:100:ASP:OD2	1.98	0.63
9:I:236:G:O2'	9:I:237:A:H5'	1.99	0.63
9:I:378:C:H2'	9:I:379:G:O4'	1.97	0.63
9:I:518:C:O2'	9:I:519:A:H5'	1.98	0.63
9:I:592:U:O2'	9:I:593:U:H5'	1.97	0.63
9:I:687:G:H5'	30:f:37:GLY:HA3	1.80	0.63
9:I:777:G:N1	9:I:803:U:N3	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1463:G:O2'	9:I:1464:A:OP2	2.17	0.63
9:I:1622:G:O2'	9:I:1623:G:H5'	1.99	0.63
9:I:1667:A:H2'	9:I:1668:G:C8	2.34	0.63
9:I:1792:U:OP2	9:I:1792:U:H3'	1.99	0.63
9:I:1820:A:C8	13:M:132:LYS:CD	2.81	0.63
9:I:2111:C:H2'	9:I:2112:G:O4'	1.99	0.63
9:I:2136:G:C5	18:T:128:THR:CG2	2.82	0.63
9:I:2536:G:N7	9:I:2537:C:C4	2.67	0.63
9:I:2626:U:H2'	9:I:2627:A:C8	2.33	0.63
9:I:2700:G:O6	9:I:2734:U:O4	2.17	0.63
9:I:3022:A:H2'	9:I:3023:G:H5'	1.79	0.63
9:I:3360:A:N3	9:I:3360:A:H2'	2.13	0.63
9:I:3494:C:O2'	9:I:3495:C:H5'	1.98	0.63
9:I:3603:U:O5'	9:I:3603:U:H6	1.82	0.63
9:I:3811:A:C2'	9:I:3812:G:H5'	2.29	0.63
9:I:3817:G:O2'	9:I:3831:G:H4'	1.98	0.63
9:I:3895:U:C2	9:I:3909:G:N1	2.63	0.63
9:I:4130:C:O2'	12:L:45:TYR:OH	2.06	0.63
9:I:4131:U:H5''	12:L:83:ARG:CZ	2.28	0.63
10:J:74:G:H1'	45:u:29:ILE:HG21	1.79	0.63
11:K:38:LYS:HZ1	11:K:55:GLY:HA2	1.63	0.63
12:L:22:ILE:HG22	12:L:24:VAL:HG12	1.80	0.63
13:M:40:ARG:HD2	13:M:92:HIS:CG	2.33	0.63
13:M:147:LEU:HD23	13:M:186:VAL:CG1	2.29	0.63
14:N:30:VAL:HG13	14:N:172:PHE:CE2	2.34	0.63
15:O:86:LEU:HD21	15:O:147:LEU:C	2.23	0.63
17:S:8:LEU:CB	17:S:19:VAL:CG2	2.76	0.63
18:T:111:ILE:HG13	18:T:128:THR:CG2	2.28	0.63
20:V:35:LYS:HZ2	20:V:103:ARG:HB2	1.64	0.63
20:V:115:LEU:CD2	20:V:118:ARG:H	2.12	0.63
21:W:22:PRO:CA	21:W:25:LYS:HE2	2.29	0.63
21:W:46:MET:HE1	21:W:195:PHE:CD1	2.33	0.63
21:W:98:LEU:N	21:W:172:GLU:OE1	2.31	0.63
21:W:154:LEU:HD13	21:W:176:LEU:CD1	2.28	0.63
22:X:54:ILE:HD12	22:X:66:THR:O	1.99	0.63
24:Z:34:ASN:HA	24:Z:67:LEU:HD21	1.80	0.63
24:Z:98:ALA:HB1	24:Z:102:MET:HE3	1.79	0.63
32:h:13:HIS:HB2	32:h:16:ILE:CG1	2.29	0.63
32:h:14:ALA:CB	32:h:38:ILE:HG21	2.29	0.63
38:n:14:ARG:NH2	38:n:26:VAL:HG11	2.14	0.63
38:n:91:PHE:CE2	38:n:98:TYR:HD1	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:28:SER:HG	40:p:29:ARG:HH12	1.46	0.63
40:p:60:TRP:CD1	40:p:95:ALA:HB3	2.30	0.63
41:q:28:ALA:HB3	41:q:31:GLU:HG2	1.81	0.63
42:r:84:ARG:HB2	42:r:96:ILE:CG2	2.29	0.63
44:t:53:GLN:N	44:t:54:PRO:HD2	2.13	0.63
44:t:80:ASP:HB2	44:t:95:PHE:CB	2.25	0.63
45:u:7:GLU:CA	45:u:65:VAL:HG13	2.26	0.63
45:u:26:PHE:HE1	45:u:47:VAL:HG11	1.63	0.63
46:v:25:SER:C	46:v:50:PHE:HB2	2.23	0.63
3:C:15:PRO:HB2	3:C:41:PRO:HG2	1.80	0.63
9:I:124:U:H3	9:I:235:A:H61	1.47	0.63
9:I:843:G:H3'	9:I:843:G:N3	2.14	0.63
9:I:983:C:O2'	9:I:984:C:H5'	1.99	0.63
9:I:1489:A:H1'	9:I:1490:G:C2	2.33	0.63
9:I:1783:G:H2'	9:I:1784:U:O4'	1.98	0.63
9:I:2286:C:O2'	9:I:2287:C:H5'	1.99	0.63
9:I:2631:G:C2'	9:I:2632:G:H5'	2.29	0.63
9:I:2632:G:C5	9:I:2633:G:H1'	2.34	0.63
9:I:2858:G:H3'	47:w:1:SER:HB2	1.79	0.63
9:I:3194:A:C2'	9:I:3195:A:H5'	2.29	0.63
9:I:3669:C:H2'	9:I:3670:A:H8	1.63	0.63
9:I:3756:U:H6	9:I:3821:A:H2	1.47	0.63
9:I:4056:U:OP1	17:S:59:LYS:NZ	2.28	0.63
9:I:4178:U:OP1	39:o:74:GLN:HG2	1.99	0.63
10:J:38:A:H2'	10:J:39:U:C6	2.34	0.63
10:J:74:G:C4'	45:u:29:ILE:HB	2.29	0.63
10:J:92:C:OP1	45:u:18:ARG:NH1	2.32	0.63
15:O:1:SER:OG	15:O:2:ARG:N	2.15	0.63
18:T:55:MET:SD	18:T:56:PRO:HD2	2.38	0.63
18:T:92:LEU:HD13	18:T:106:GLU:HA	1.79	0.63
20:V:10:LEU:HB3	20:V:12:ARG:HD3	1.78	0.63
20:V:73:ASN:C	20:V:76:VAL:HG22	2.24	0.63
21:W:70:LYS:O	21:W:74:SER:N	2.31	0.63
23:Y:75:TYR:HA	23:Y:89:LEU:HD13	1.81	0.63
23:Y:108:ALA:N	23:Y:112:GLU:OE1	2.26	0.63
26:b:67:ASN:ND2	26:b:126:ALA:O	2.32	0.63
29:e:14:ILE:HG12	29:e:68:ARG:CG	2.29	0.63
36:l:55:GLY:O	36:l:58:ILE:HG22	1.98	0.63
38:n:113:GLY:HA2	38:n:115:GLN:HE22	1.62	0.63
39:o:22:GLY:HA2	39:o:45:VAL:CG2	2.29	0.63
39:o:30:TRP:CH2	39:o:39:LEU:HD11	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:o:58:PHE:HD1	39:o:75:THR:HG1	1.45	0.63
40:p:98:ALA:O	40:p:101:ASP:C	2.41	0.63
1:A:2:LYS:HD3	9:I:1047:G:O2'	1.99	0.62
1:A:11:LYS:CD	9:I:1216:C:H4'	2.28	0.62
2:B:17:ASP:CG	2:B:18:ALA:H	2.04	0.62
8:H:3:ILE:HG12	30:f:99:THR:N	2.14	0.62
8:H:18:PHE:CE1	30:f:74:VAL:HG22	2.34	0.62
8:H:40:PRO:HD2	9:I:4429:G:OP1	1.99	0.62
9:I:229:G:O2'	9:I:230:U:H5'	1.98	0.62
9:I:339:U:H2'	9:I:340:C:H6	1.61	0.62
9:I:611:C:H2'	9:I:612:C:C6	2.34	0.62
9:I:631:U:H5''	9:I:632:G:C8	2.34	0.62
9:I:1151:A:P	29:e:68:ARG:HH22	2.22	0.62
9:I:1341:C:O2'	9:I:1342:G:H5'	1.99	0.62
9:I:1512:U:N3	9:I:2026:A:N6	2.47	0.62
9:I:1584:A:C2'	9:I:1599:U:H1'	2.29	0.62
9:I:1644:A:H5'	43:s:3:ARG:NH1	2.13	0.62
9:I:1723:A:O2'	9:I:1724:U:OP2	2.14	0.62
9:I:1929:A:H2'	9:I:1930:A:N9	2.14	0.62
9:I:2011:U:H5''	9:I:2012:G:OP2	1.99	0.62
9:I:2082:A:H2'	9:I:2083:G:C8	2.31	0.62
9:I:2203:U:C4	9:I:2228:G:O6	2.52	0.62
9:I:2504:A:OP1	40:p:65:ASN:ND2	2.23	0.62
9:I:2514:A:OP2	9:I:2514:A:H2'	1.98	0.62
9:I:2540:A:H3'	9:I:2541:G:H5'	1.80	0.62
9:I:2590:A:HO2'	9:I:2591:U:P	2.22	0.62
9:I:2619:G:H2'	9:I:2620:A:C8	2.33	0.62
9:I:2637:A:N6	16:R:26:GLY:O	2.32	0.62
9:I:2762:A:C1'	9:I:3507:A:N6	2.58	0.62
9:I:3286:G:P	11:K:203:VAL:HG13	2.39	0.62
9:I:4009:C:H5'	16:R:81:ILE:HD11	1.81	0.62
9:I:4186:G:C1'	9:I:4341:U:O2'	2.43	0.62
9:I:4189:U:N3	9:I:4208:G:C6	2.62	0.62
11:K:67:LYS:HD3	11:K:69:ASN:HB2	1.81	0.62
12:L:2:ILE:HD13	12:L:48:ILE:HD11	1.81	0.62
12:L:9:VAL:CG1	12:L:26:VAL:HG12	2.28	0.62
12:L:30:GLU:OE1	12:L:53:GLY:HA2	1.99	0.62
12:L:36:GLN:CD	12:L:92:VAL:HG22	2.24	0.62
13:M:23:PHE:CD2	13:M:25:GLU:HA	2.33	0.62
13:M:154:ASP:CG	13:M:156:ASN:HB2	2.24	0.62
14:N:78:ILE:HG22	14:N:84:ILE:HD13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:40:HIS:CB	40:p:70:GLN:HE22	2.03	0.62
16:R:101:ILE:O	16:R:105:VAL:N	2.31	0.62
19:U:20:LEU:HD23	19:U:21:ALA:O	1.99	0.62
19:U:44:ARG:H	19:U:44:ARG:CD	2.09	0.62
20:V:59:SER:HA	20:V:63:ARG:NH2	2.15	0.62
21:W:101:TRP:O	21:W:105:ARG:HG2	1.99	0.62
21:W:127:THR:O	21:W:128:LYS:HB2	1.98	0.62
22:X:120:THR:OG1	22:X:188:ALA:HB2	1.99	0.62
28:d:47:GLN:O	28:d:50:GLU:HG2	1.99	0.62
31:g:31:GLY:C	31:g:78:VAL:HG13	2.24	0.62
32:h:76:ILE:HG22	32:h:80:MET:CE	2.24	0.62
33:i:24:VAL:HG13	33:i:25:THR:N	2.09	0.62
38:n:78:ALA:CB	38:n:112:ALA:HB3	2.28	0.62
39:o:25:VAL:HG23	39:o:60:VAL:HG13	1.81	0.62
40:p:45:ALA:O	40:p:48:ASP:HB2	1.99	0.62
40:p:64:ILE:CD1	40:p:91:ARG:HA	2.28	0.62
40:p:79:ILE:HA	40:p:82:LEU:CD1	2.26	0.62
42:r:7:HIS:HB3	42:r:103:ILE:HG21	1.80	0.62
42:r:11:ARG:CZ	42:r:98:LYS:HE3	2.28	0.62
43:s:4:GLU:CG	43:s:8:LEU:HD11	2.26	0.62
44:t:34:ILE:O	44:t:34:ILE:HG23	1.99	0.62
49:y:5:LYS:HE3	49:y:34:THR:CG2	2.29	0.62
49:y:16:LEU:CD1	49:y:17:PRO:HD2	2.29	0.62
1:A:17:ASP:O	1:A:21:ALA:HB3	1.99	0.62
3:C:68:SER:HB3	3:C:71:VAL:HB	1.81	0.62
8:H:19:LYS:O	30:f:81:ARG:NH2	2.32	0.62
9:I:773:G:C2	9:I:774:G:H1'	2.34	0.62
9:I:962:G:H2'	29:e:52:HIS:HE1	1.64	0.62
9:I:1464:A:H2'	9:I:1465:G:O4'	1.98	0.62
9:I:1558:G:H2'	9:I:1559:U:H6	1.64	0.62
9:I:1676:A:H2'	9:I:1677:G:N3	2.13	0.62
9:I:1766:G:H2'	9:I:1767:C:C4'	2.29	0.62
9:I:1976:G:N2	9:I:1979:A:O4'	2.32	0.62
9:I:2853:A:C6	9:I:2854:G:H1'	2.34	0.62
9:I:2994:G:C3'	9:I:2995:G:C8	2.81	0.62
9:I:3665:A:H5'	9:I:3667:A:N7	2.14	0.62
9:I:3709:C:H3'	9:I:3710:G:H8	1.65	0.62
9:I:4180:G:OP1	39:o:97:TYR:OH	2.14	0.62
9:I:4213:G:O2'	9:I:4214:U:H5'	1.98	0.62
9:I:4266:C:OP1	12:L:207:VAL:HG21	1.99	0.62
9:I:4321:C:C2'	9:I:4322:G:H5'	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:48:C:H4'	38:n:67:LYS:HE2	1.81	0.62
13:M:155:GLU:OE1	13:M:155:GLU:N	2.32	0.62
14:N:36:ASN:H	14:N:153:ILE:HD13	1.64	0.62
14:N:117:SER:N	14:N:129:MET:HE2	2.12	0.62
14:N:164:GLU:HA	14:N:167:ALA:HB3	1.80	0.62
17:S:78:ARG:C	39:o:70:GLU:H	2.05	0.62
19:U:42:THR:HA	19:U:93:VAL:HG12	1.81	0.62
22:X:113:LYS:HD3	22:X:184:ASN:CG	2.24	0.62
30:f:40:PHE:HD1	30:f:44:ARG:HB2	1.64	0.62
34:j:6:ILE:HG23	34:j:24:LYS:HZ2	1.63	0.62
34:j:14:THR:HG21	34:j:39:VAL:HB	1.81	0.62
37:m:7:VAL:HG12	37:m:35:GLN:NE2	2.14	0.62
38:n:23:THR:HA	38:n:41:PRO:CG	2.28	0.62
38:n:33:HIS:ND1	38:n:53:VAL:HA	2.14	0.62
38:n:93:ARG:HB2	38:n:96:PHE:O	1.99	0.62
42:r:73:LYS:O	42:r:74:ILE:HD13	1.99	0.62
43:s:22:THR:O	43:s:25:GLU:HG2	1.99	0.62
45:u:4:ILE:O	45:u:63:ILE:HG23	1.99	0.62
47:w:17:ARG:HD3	47:w:18:SER:O	1.99	0.62
3:C:63:GLN:HA	9:I:226:G:N1	2.12	0.62
5:E:42:ARG:HG2	25:a:86:ARG:HH12	1.64	0.62
9:I:8:G:H4'	24:Z:100:GLY:N	2.13	0.62
9:I:78:G:N1	9:I:89:C:N3	2.39	0.62
9:I:122:U:H1'	9:I:289:C:C1'	2.28	0.62
9:I:178:A:N6	9:I:195:A:H62	1.92	0.62
9:I:641:A:H2'	9:I:642:C:C6	2.35	0.62
9:I:701:A:C2	9:I:3340:G:H1'	2.34	0.62
9:I:809:C:H2'	9:I:810:C:C6	2.33	0.62
9:I:858:G:OP2	9:I:868:G:N1	2.32	0.62
9:I:1286:A:C2	9:I:1352:G:H1'	2.34	0.62
9:I:1380:U:H1'	26:b:77:ARG:O	1.98	0.62
9:I:1380:U:O2'	26:b:79:VAL:HG22	2.00	0.62
9:I:1420:G:C2'	9:I:1421:G:H5''	2.29	0.62
9:I:1497:C:O5'	9:I:1500:U:H4'	2.00	0.62
9:I:1775:C:H42	9:I:1862:A:N6	1.97	0.62
9:I:1779:A:H2'	9:I:1780:U:C4'	2.29	0.62
9:I:1836:C:P	44:t:81:ARG:CG	2.87	0.62
9:I:2084:C:N4	9:I:2085:G:O6	2.32	0.62
9:I:2161:A:O2'	9:I:2162:G:H5'	1.99	0.62
9:I:2611:C:O2'	9:I:2612:C:H5'	1.98	0.62
9:I:2835:G:O3'	43:s:59:ASN:CB	2.40	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2848:A:N6	9:I:2871:G:N2	2.47	0.62
9:I:2937:U:H2'	9:I:2938:G:H8	1.64	0.62
9:I:2974:C:H5'	9:I:3055:C:H5''	1.79	0.62
9:I:3232:G:H2'	9:I:3232:G:N3	2.14	0.62
9:I:3347:A:O2'	9:I:3728:G:OP1	2.16	0.62
9:I:3982:G:O2'	9:I:3983:U:H5'	1.99	0.62
9:I:4176:A:H1'	12:L:23:PRO:CB	2.20	0.62
9:I:4212:G:C2	9:I:4341:U:H4'	2.35	0.62
9:I:4228:A:C2'	9:I:4229:G:H5'	2.18	0.62
9:I:4242:A:H4'	15:O:3:VAL:CG1	2.23	0.62
9:I:4314:A:H2'	12:L:196:ALA:CB	2.30	0.62
9:I:4314:A:H2'	12:L:196:ALA:HB1	1.81	0.62
9:I:4416:U:O2	9:I:4427:G:N2	2.32	0.62
12:L:1:MET:HG3	12:L:1:MET:O	1.98	0.62
12:L:30:GLU:OE2	12:L:77:ARG:NH2	2.28	0.62
12:L:178:VAL:HG21	12:L:190:LYS:CB	2.29	0.62
14:N:134:GLN:HA	14:N:137:PHE:CD1	2.33	0.62
15:O:21:GLN:CA	15:O:36:LEU:HB3	2.28	0.62
16:R:30:THR:HB	16:R:108:MET:HE1	1.81	0.62
17:S:10:VAL:HG22	17:S:17:ARG:HA	1.81	0.62
17:S:36:GLY:HA2	17:S:107:LEU:CD2	2.29	0.62
19:U:33:LEU:HD21	19:U:128:THR:OG1	1.99	0.62
20:V:45:ARG:HB3	20:V:49:GLU:CD	2.23	0.62
34:j:6:ILE:HB	34:j:49:ALA:C	2.24	0.62
42:r:18:ARG:HE	42:r:76:VAL:CG2	2.12	0.62
43:s:77:ARG:HH12	43:s:80:TRP:HZ2	1.47	0.62
46:v:25:SER:HB2	46:v:51:ALA:HB3	1.81	0.62
46:v:67:ARG:HB3	46:v:69:PHE:CE1	2.34	0.62
47:w:33:HIS:N	47:w:50:VAL:O	2.31	0.62
3:C:17:TYR:OH	9:I:375:G:H1'	1.98	0.62
7:G:52:MET:O	7:G:55:ILE:HG22	1.99	0.62
7:G:52:MET:HA	7:G:55:ILE:CG2	2.29	0.62
9:I:59:A:H4'	9:I:60:G:H4'	1.80	0.62
9:I:122:U:H5''	9:I:311:C:H5'	1.81	0.62
9:I:271:C:O2	9:I:271:C:H2'	1.98	0.62
9:I:544:C:P	23:Y:58:GLN:HE22	2.23	0.62
9:I:581:C:H2'	9:I:582:A:O4'	1.99	0.62
9:I:738:C:O2'	9:I:739:U:H5'	1.98	0.62
9:I:927:G:C2'	9:I:928:G:H5'	2.29	0.62
9:I:2530:G:C6	9:I:2613:U:N3	2.67	0.62
9:I:2584:A:C2	9:I:2596:C:H1'	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2588:U:O2	9:I:2590:A:H3'	1.98	0.62
9:I:2727:C:H2'	9:I:2728:U:H6	1.65	0.62
9:I:3021:G:N1	9:I:3038:A:OP2	2.32	0.62
9:I:3426:A:O2'	9:I:3427:G:H5'	1.99	0.62
9:I:3534:G:H2'	9:I:3535:U:C6	2.34	0.62
9:I:3660:U:H2'	9:I:3661:U:H5'	1.81	0.62
9:I:3777:C:P	34:j:1:GLY:H1	2.21	0.62
9:I:3783:G:O3'	9:I:3878:U:H5'	2.00	0.62
9:I:3842:U:H1'	34:j:36:PHE:HE2	1.64	0.62
9:I:3842:U:O4	9:I:3864:G:N1	2.32	0.62
9:I:4252:A:O2'	15:O:37:ASN:OD1	2.17	0.62
9:I:4280:U:C4'	12:L:70:LYS:HD3	2.28	0.62
11:K:139:THR:CB	11:K:160:TYR:HB2	2.28	0.62
11:K:182:LYS:HD2	11:K:265:PHE:CA	2.29	0.62
12:L:25:THR:O	12:L:188:LEU:HA	1.98	0.62
12:L:39:ASP:CA	12:L:46:ARG:HA	2.27	0.62
12:L:122:VAL:HG11	12:L:141:ARG:HH12	1.64	0.62
14:N:7:TYR:OH	14:N:29:ARG:HA	1.99	0.62
14:N:78:ILE:CG2	14:N:84:ILE:HD13	2.30	0.62
14:N:135:ILE:HG12	14:N:145:VAL:HG11	1.81	0.62
15:O:8:VAL:HG23	15:O:51:PHE:CE1	2.34	0.62
20:V:22:ARG:HD2	20:V:69:ARG:HG3	1.81	0.62
23:Y:14:GLU:HG2	23:Y:62:ARG:NH1	2.10	0.62
23:Y:143:SER:HB3	23:Y:178:GLU:HA	1.82	0.62
24:Z:72:LEU:HD11	24:Z:138:MET:HG2	1.81	0.62
28:d:52:VAL:HG22	28:d:91:LEU:HD22	1.80	0.62
32:h:7:ASN:OD1	32:h:9:PRO:HD3	1.99	0.62
32:h:44:ILE:HA	32:h:47:LEU:HD12	1.80	0.62
32:h:63:VAL:HG12	32:h:68:LEU:CA	2.30	0.62
33:i:27:LEU:HD23	33:i:28:SER:N	2.15	0.62
36:l:11:LYS:CA	36:l:11:LYS:HE3	2.29	0.62
39:o:111:GLU:HG2	39:o:113:LEU:CB	2.25	0.62
41:q:23:GLU:O	41:q:25:LEU:HG	2.00	0.62
43:s:56:GLU:HG3	43:s:88:LYS:HZ3	1.65	0.62
45:u:44:HIS:HA	45:u:47:VAL:HB	1.82	0.62
46:v:44:GLY:O	46:v:47:HIS:CD2	2.52	0.62
48:x:45:VAL:C	48:x:48:ASP:H	2.04	0.62
3:C:76:LYS:O	3:C:79:ASN:ND2	2.32	0.62
4:D:44:HIS:O	4:D:71:THR:HG23	1.99	0.62
4:D:65:SER:HB3	9:I:254:G:C8	2.34	0.62
9:I:722:U:C2	9:I:854:U:H4'	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:828:G:OP1	21:W:25:LYS:NZ	2.33	0.62
9:I:1076:G:H2'	9:I:1078:G:OP2	1.99	0.62
9:I:1614:U:C2	9:I:1615:C:C5	2.87	0.62
9:I:1762:A:H3'	9:I:1763:G:H8	1.60	0.62
9:I:1872:G:H1	9:I:1900:G:C3'	2.12	0.62
9:I:1971:A:H5''	9:I:1972:A:OP2	1.99	0.62
9:I:2094:U:H2'	9:I:2095:C:H6	1.63	0.62
9:I:2192:C:P	11:K:38:LYS:HD3	2.39	0.62
9:I:2319:A:O2'	9:I:2320:A:C5'	2.48	0.62
9:I:2349:A:H2'	9:I:2350:U:C5	2.35	0.62
9:I:2451:C:H5'	19:U:75:GLU:OE2	1.98	0.62
9:I:2734:U:O2'	9:I:2735:A:O5'	2.17	0.62
9:I:3006:C:H2'	9:I:3007:U:C2	2.35	0.62
9:I:3076:C:H5''	9:I:3077:A:OP2	2.00	0.62
9:I:3773:G:N3	9:I:3821:A:H1'	2.15	0.62
9:I:3825:G:O2'	9:I:3830:A:N6	2.31	0.62
9:I:4045:C:H2'	9:I:4046:OMU:C6	2.30	0.62
9:I:4256:C:H2'	9:I:4257:G:H8	1.56	0.62
9:I:4305:G:OP2	12:L:62:LYS:HE2	1.98	0.62
10:J:86:U:H3'	10:J:87:C:H5'	1.81	0.62
11:K:153:LEU:HD11	11:K:175:LEU:HD22	1.78	0.62
11:K:163:ILE:CG1	11:K:173:LEU:HD13	2.28	0.62
17:S:31:ARG:HG3	17:S:32:TYR:N	2.07	0.62
17:S:52:VAL:C	17:S:53:LYS:HD3	2.25	0.62
18:T:79:LEU:HD12	18:T:112:LEU:HA	1.81	0.62
23:Y:106:PHE:CZ	23:Y:172:VAL:HG23	2.35	0.62
28:d:95:LEU:HB3	28:d:101:VAL:HG13	1.80	0.62
32:h:78:ARG:HG2	32:h:82:LEU:HD11	1.82	0.62
39:o:38:ARG:HG3	39:o:39:LEU:H	1.65	0.62
40:p:50:ARG:O	40:p:53:LYS:N	2.32	0.62
41:q:1:MET:HG3	41:q:43:ASN:CG	2.24	0.62
43:s:34:VAL:HG21	43:s:81:LYS:HE2	1.80	0.62
43:s:54:GLU:C	43:s:88:LYS:HG2	2.24	0.62
44:t:9:GLU:O	44:t:72:PHE:N	2.30	0.62
45:u:61:LEU:HD21	45:u:91:PHE:CD1	2.34	0.62
48:x:26:ASN:O	48:x:30:GLN:HB2	1.99	0.62
49:y:16:LEU:HD12	49:y:17:PRO:CD	2.29	0.62
1:A:6:LYS:HB2	9:I:1215:A:H5''	1.81	0.62
3:C:6:LEU:HD22	9:I:375:G:C5'	2.21	0.62
8:H:28:LEU:H	30:f:77:PRO:HD3	1.63	0.62
9:I:112:G:O2'	9:I:113:U:H5'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:326:A:O2'	9:I:328:A:H5''	1.99	0.62
9:I:1150:A:H1'	29:e:37:PRO:CG	2.30	0.62
9:I:1247:A:H2	28:d:69:ILE:CG1	2.13	0.62
9:I:1320:U:H3'	9:I:1321:C:H6	1.62	0.62
9:I:1376:A:P	26:b:91:ARG:HH22	2.23	0.62
9:I:1519:A:H2'	9:I:1520:C:C6	2.34	0.62
9:I:1593:G:C2'	9:I:1594:A:H5'	2.29	0.62
9:I:1654:U:H2'	9:I:1655:A:C5'	2.29	0.62
9:I:1843:C:H2'	9:I:1843:C:O2	1.99	0.62
9:I:1980:A:OP2	44:t:43:LYS:NZ	2.30	0.62
9:I:1988:G:H21	9:I:1992:A:H62	1.47	0.62
9:I:2112:G:O2'	9:I:2116:A:N6	2.32	0.62
9:I:2179:C:C2	9:I:2299:G:N2	2.67	0.62
9:I:2206:A:C2	9:I:2207:G:H1'	2.35	0.62
9:I:2280:G:H4'	9:I:2281:A:OP1	1.99	0.62
9:I:2316:C:O2'	9:I:2317:C:H5'	1.98	0.62
9:I:2409:C:H3'	9:I:2410:G:H8	1.63	0.62
9:I:2603:C:H2'	9:I:2604:G:H5'	1.80	0.62
9:I:3230:U:H2'	9:I:3231:G:C8	2.34	0.62
9:I:3312:U:H2'	11:K:152:GLN:OE1	1.99	0.62
9:I:3414:C:O2'	9:I:3415:G:H5'	2.00	0.62
9:I:3705:A:H4'	9:I:3706:A:OP2	1.99	0.62
9:I:3785:U:O2	9:I:3785:U:H2'	1.99	0.62
9:I:3797:G:N2	14:N:128:SER:OG	2.33	0.62
9:I:3808:A:OP1	14:N:34:THR:HG21	1.99	0.62
9:I:3856:C:H2'	9:I:3857:G:C8	2.34	0.62
9:I:4024:A:H4'	9:I:4028:A:N6	2.14	0.62
9:I:4178:U:H2'	9:I:4179:G:H8	1.63	0.62
9:I:4229:G:O2'	9:I:4230:A:H5'	1.99	0.62
9:I:4245:G:H3'	9:I:4246:C:H5	1.62	0.62
9:I:4280:U:H3'	9:I:4281:C:H6	1.63	0.62
10:J:15:G:OP1	10:J:108:A:O5'	2.18	0.62
10:J:78:G:H2'	10:J:79:U:C6	2.35	0.62
10:J:93:A:H2'	10:J:94:U:C6	2.34	0.62
11:K:20:ASN:OD1	11:K:21:PRO:HD2	2.00	0.62
11:K:128:THR:HG22	11:K:129:LEU:N	2.14	0.62
11:K:259:ASN:ND2	11:K:262:THR:OG1	2.29	0.62
13:M:98:LYS:CB	13:M:102:ARG:HH12	2.07	0.62
13:M:126:VAL:HG23	13:M:156:ASN:CB	2.28	0.62
14:N:118:ALA:HB1	14:N:166:ARG:NH2	2.15	0.62
15:O:122:ALA:HB2	15:O:133:LYS:N	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:122:ALA:O	15:O:123:GLU:HG3	1.99	0.62
20:V:65:LEU:C	20:V:68:ALA:H	2.08	0.62
20:V:69:ARG:HG2	20:V:70:THR:N	2.13	0.62
22:X:107:LYS:HD2	22:X:110:LEU:HD12	1.82	0.62
23:Y:57:LYS:CB	23:Y:199:ILE:HG12	2.29	0.62
24:Z:63:ILE:HG13	24:Z:64:ASN:N	2.15	0.62
25:a:51:ILE:CD1	25:a:85:ILE:HD13	2.29	0.62
30:f:40:PHE:HA	30:f:44:ARG:CZ	2.29	0.62
30:f:86:ARG:O	30:f:89:ASN:HB3	1.99	0.62
32:h:49:GLU:HG3	32:h:53:ASP:OD2	1.99	0.62
36:l:16:THR:HG23	36:l:21:PHE:HA	1.82	0.62
38:n:35:TYR:HA	38:n:51:SER:HB2	1.82	0.62
45:u:17:SER:C	45:u:21:ARG:HG3	2.24	0.62
45:u:25:LYS:HE3	45:u:41:GLU:OE1	1.99	0.62
46:v:29:ARG:HG2	46:v:48:THR:CG2	2.30	0.62
46:v:33:THR:O	46:v:36:HIS:NE2	2.32	0.62
47:w:31:ASN:O	47:w:51:SER:HA	1.99	0.62
49:y:5:LYS:C	49:y:6:ILE:HD12	2.25	0.62
1:A:2:LYS:CB	9:I:1214:G:H4'	2.29	0.62
4:D:37:ARG:HE	9:I:278:A:H3'	1.64	0.62
6:F:25:ASP:OD1	6:F:45:LEU:HD21	2.00	0.62
9:I:15:A:H4'	24:Z:13:SER:N	2.15	0.62
9:I:362:A:H2'	9:I:363:A:C8	2.34	0.62
9:I:486:A:C2'	9:I:487:C:H5'	2.30	0.62
9:I:1250:A:C2	9:I:1368:C:H1'	2.34	0.62
9:I:1259:G:OP1	9:I:1283:C:O2'	2.11	0.62
9:I:1478:A:H3'	33:i:49:ARG:HH12	1.63	0.62
9:I:1603:A:H2'	9:I:1604:A:C5'	2.30	0.62
9:I:1814:C:O2	9:I:1814:C:H2'	2.00	0.62
9:I:2107:U:P	13:M:98:LYS:HE2	2.40	0.62
9:I:2345:A:C2'	9:I:2346:U:O3'	2.48	0.62
9:I:2346:U:C3'	9:I:2347:U:H5''	2.29	0.62
9:I:2626:U:C3'	9:I:2627:A:H5''	2.24	0.62
9:I:2917:G:H4'	9:I:2993:C:O2'	2.00	0.62
9:I:3064:A:H2'	9:I:3065:A:C8	2.35	0.62
9:I:3166:A:H2'	9:I:3167:G:H8	1.64	0.62
9:I:3312:U:OP2	11:K:155:ARG:NH1	2.24	0.62
9:I:4211:C:C1'	39:o:93:LYS:HE3	2.30	0.62
10:J:44:A:O4'	10:J:44:A:OP1	2.16	0.62
10:J:110:U:O3'	10:J:111:G:O4'	2.18	0.62
12:L:2:ILE:H	12:L:100:LEU:HD21	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:25:THR:HG21	12:L:193:VAL:HG22	1.81	0.62
15:O:82:PHE:HB3	15:O:140:ILE:CD1	2.30	0.62
16:R:17:VAL:HA	16:R:55:ILE:O	2.00	0.62
17:S:36:GLY:CA	17:S:107:LEU:HD21	2.28	0.62
20:V:90:ARG:O	20:V:94:TYR:OH	2.16	0.62
23:Y:199:ILE:HG22	23:Y:203:TYR:CE2	2.34	0.62
24:Z:3:GLN:HG2	24:Z:3:GLN:O	1.99	0.62
38:n:55:LYS:HA	38:n:58:ALA:CB	2.23	0.62
40:p:84:LYS:HZ3	40:p:116:LEU:HD12	1.63	0.62
41:q:1:MET:HG2	41:q:42:ALA:C	2.24	0.62
46:v:62:LYS:CE	46:v:71:SER:HB3	2.29	0.62
48:x:45:VAL:HA	48:x:48:ASP:CB	2.29	0.62
49:y:5:LYS:HG3	49:y:57:GLU:OE1	2.00	0.62
3:C:26:ASN:HD22	9:I:229:G:H4'	1.64	0.62
9:I:111:G:O2'	9:I:112:G:H5'	2.00	0.62
9:I:696:U:O2	9:I:784:G:N2	2.33	0.62
9:I:982:A:H2	9:I:983:C:C6	2.17	0.62
9:I:1103:G:H2'	9:I:1104:A:O4'	1.99	0.62
9:I:1128:C:H4'	9:I:1129:A:OP1	1.99	0.62
9:I:1466:C:O2	9:I:4186:G:H5'	2.00	0.62
9:I:1584:A:H5''	44:t:6:ARG:NH2	2.13	0.62
9:I:1728:C:H4'	9:I:1729:C:C5'	2.30	0.62
9:I:2496:G:H2'	9:I:2497:G:O4'	2.00	0.62
9:I:2781:A:N1	9:I:3143:G:O2'	2.31	0.62
9:I:2912:G:H2'	9:I:3073:A:H62	1.64	0.62
9:I:2955:C:C2	9:I:2956:C:C5	2.87	0.62
9:I:2990:A:H3'	9:I:2992:C:H41	1.58	0.62
9:I:3071:C:H2'	9:I:3072:U:C2	2.34	0.62
9:I:3095:G:H2'	9:I:3096:U:C6	2.35	0.62
9:I:3101:C:H42	9:I:3115:U:H2'	1.65	0.62
9:I:3236:U:H3'	9:I:3237:G:C8	2.35	0.62
9:I:3772:A:H5'	19:U:10:ARG:NH1	2.15	0.62
9:I:3787:G:OP2	38:n:93:ARG:NH1	2.33	0.62
9:I:4041:A:H4'	17:S:29:HIS:CE1	2.27	0.62
9:I:4155:G:H3'	9:I:4156:A:H8	1.64	0.62
10:J:37:C:H42	10:J:38:A:N6	1.97	0.62
12:L:22:ILE:CG2	12:L:178:VAL:HG11	2.29	0.62
12:L:47:ALA:N	12:L:84:LEU:HG	2.14	0.62
12:L:48:ILE:HG12	12:L:88:GLU:OE2	2.00	0.62
13:M:112:LEU:HD23	13:M:115:GLN:HE21	1.64	0.62
14:N:43:ILE:CG2	14:N:84:ILE:HD13	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:40:HIS:HB2	40:p:70:GLN:CD	2.24	0.62
19:U:38:ARG:HB2	19:U:98:PRO:HG3	1.81	0.62
27:c:82:LEU:HD21	31:g:3:VAL:HG21	1.81	0.62
28:d:52:VAL:CG1	28:d:54:MET:HE2	2.30	0.62
29:e:42:LYS:HA	29:e:63:ILE:O	1.99	0.62
32:h:63:VAL:O	32:h:68:LEU:HB2	1.99	0.62
38:n:3:LYS:HA	38:n:6:ARG:HH12	1.64	0.62
40:p:77:LYS:HE3	40:p:116:LEU:HD11	1.82	0.62
40:p:77:LYS:O	40:p:116:LEU:HD22	1.99	0.62
41:q:37:GLU:O	41:q:37:GLU:HG2	1.99	0.62
46:v:13:VAL:HA	46:v:28:VAL:HA	1.82	0.62
46:v:41:VAL:HG11	46:v:49:LEU:HB3	1.82	0.62
48:x:27:LEU:O	48:x:30:GLN:N	2.31	0.62
2:B:16:ARG:H	2:B:20:ASP:HB3	1.65	0.62
3:C:66:THR:HA	9:I:135:C:H1'	1.82	0.62
5:E:29:ARG:HB2	5:E:32:TYR:CG	2.35	0.62
9:I:16:U:H2'	9:I:17:C:H6	1.64	0.62
9:I:696:U:C4'	9:I:785:G:H4'	2.28	0.62
9:I:781:A:N6	9:I:799:G:H2'	2.15	0.62
9:I:951:U:H5'	9:I:971:C:H41	1.65	0.62
9:I:1099:C:H2'	9:I:1101:A:O5'	2.00	0.62
9:I:1319:C:H2'	9:I:1320:U:O4'	2.00	0.62
9:I:1420:G:H2'	9:I:1421:G:O4'	1.99	0.62
9:I:1486:G:H4'	9:I:1487:U:OP1	1.98	0.62
9:I:1620:U:H4'	9:I:1621:G:H5''	1.80	0.62
9:I:1641:G:C2	43:s:1:MET:HE1	2.34	0.62
9:I:1718:A:H3'	9:I:1719:A:C8	2.34	0.62
9:I:1801:G:O2'	9:I:1802:C:H6	1.83	0.62
9:I:1871:A:O2'	9:I:1871:A:N3	2.33	0.62
9:I:2115:U:N3	13:M:38:GLY:HA3	2.15	0.62
9:I:3249:A:N1	9:I:4210:C:H1'	2.14	0.62
9:I:3292:U:H2'	9:I:3313:A:C6	2.35	0.62
9:I:3293:G:N7	11:K:175:LEU:HB2	2.15	0.62
9:I:3311:G:C4	9:I:3312:U:C5	2.88	0.62
9:I:3391:G:HO2'	9:I:3392:U:H5'	1.62	0.62
9:I:3532:G:H2'	9:I:3533:U:H6	1.65	0.62
9:I:3586:U:H4'	9:I:3587:G:OP1	1.98	0.62
9:I:3682:U:O3'	9:I:3683:U:O4'	2.18	0.62
9:I:3760:A:C5'	9:I:3761:A:H5'	2.30	0.62
9:I:3817:G:O2'	9:I:3831:G:O2'	2.15	0.62
9:I:3846:A:N6	9:I:3847:G:C4	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4085:C:H2'	9:I:4086:G:C8	2.34	0.62
9:I:4168:G:H5''	17:S:30:ARG:CG	2.29	0.62
9:I:4233:U:C2'	9:I:4234:A:H5'	2.29	0.62
10:J:27:C:N4	38:n:32:ARG:HH12	1.98	0.62
10:J:33:A:H4'	10:J:34:C:H6	1.64	0.62
10:J:63:G:H2'	10:J:64:U:O4'	2.00	0.62
10:J:77:A:N6	10:J:97:G:C2	2.61	0.62
11:K:106:PRO:HG3	11:K:126:GLY:N	2.15	0.62
11:K:250:GLN:HG3	11:K:254:LYS:HD2	1.80	0.62
12:L:38:LYS:C	12:L:46:ARG:HA	2.25	0.62
14:N:2:LYS:HB2	14:N:100:GLU:OE1	1.99	0.62
14:N:66:ILE:HB	14:N:68:LYS:NZ	2.14	0.62
17:S:25:LEU:HG	17:S:38:ILE:O	2.00	0.62
21:W:11:VAL:HG11	21:W:210:TYR:OH	1.98	0.62
22:X:199:VAL:HG22	22:X:201:ILE:HD11	1.82	0.62
24:Z:40:GLY:N	24:Z:58:ALA:HA	2.14	0.62
25:a:37:HIS:NE2	25:a:65:GLU:HB2	2.15	0.62
30:f:30:LEU:HB3	30:f:65:TYR:CE2	2.33	0.62
38:n:27:VAL:HG11	38:n:102:VAL:HG13	1.81	0.62
40:p:98:ALA:HA	40:p:101:ASP:O	1.98	0.62
46:v:14:LYS:HG3	46:v:26:ILE:CG2	2.30	0.62
46:v:41:VAL:HG22	46:v:50:PHE:O	2.00	0.62
48:x:27:LEU:HD12	48:x:36:LEU:HD13	1.82	0.62
4:D:40:LYS:NZ	9:I:275:G:OP2	2.31	0.62
9:I:137:G:H2'	9:I:138:A:C8	2.34	0.62
9:I:354:C:O2'	9:I:387:G:N3	2.23	0.62
9:I:381:A:H2'	9:I:382:A:O4'	2.00	0.62
9:I:673:G:N2	9:I:716:U:O2	2.32	0.62
9:I:949:U:OP2	32:h:100:ARG:NE	2.33	0.62
9:I:1228:A:OP1	32:h:112:ARG:HD2	1.99	0.62
9:I:1365:C:O2'	9:I:1366:C:H5'	1.99	0.62
9:I:1375:U:H3'	9:I:1375:U:H6	1.64	0.62
9:I:1471:C:O2	9:I:1471:C:H2'	2.00	0.62
9:I:1497:C:O2	9:I:1497:C:H2'	1.99	0.62
9:I:1729:C:H3'	9:I:1729:C:C6	2.35	0.62
9:I:1913:C:C2	9:I:1914:C:H5	2.17	0.62
9:I:2211:G:C2	9:I:2212:G:H1'	2.35	0.62
9:I:2307:U:H2'	9:I:2307:U:O2	1.99	0.62
9:I:2404:A:H62	19:U:13:HIS:N	1.98	0.62
9:I:2551:A:C8	9:I:2580:A:H2'	2.34	0.62
9:I:2667:U:C5	9:I:2668:U:H1'	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2671:G:H2'	9:I:2672:C:O4'	2.00	0.62
9:I:2897:A:H3'	9:I:2898:C:H6	1.65	0.62
9:I:2908:C:H3'	9:I:2909:U:H6	1.65	0.62
9:I:3058:C:H2'	9:I:3059:C:H6	1.65	0.62
9:I:3071:C:H2'	9:I:3072:U:C1'	2.28	0.62
9:I:3283:A:O2'	9:I:3284:C:H5'	1.99	0.62
9:I:3356:G:O6	9:I:3374:U:O4	2.18	0.62
9:I:3691:U:O2'	9:I:3693:A:N7	2.32	0.62
9:I:3880:A:C5'	46:v:45:ARG:HH21	2.03	0.62
9:I:3913:U:H5''	34:j:19:THR:N	2.14	0.62
9:I:4216:G:H2'	9:I:4217:C:H6	1.64	0.62
9:I:4235:A:H61	9:I:4257:G:H1'	1.64	0.62
9:I:4238:G:H2'	9:I:4238:G:N3	2.14	0.62
10:J:27:C:O2'	10:J:28:A:H5'	1.99	0.62
10:J:47:U:H2'	10:J:48:C:C5	2.35	0.62
11:K:231:HIS:HA	11:K:241:LYS:NZ	2.10	0.62
12:L:40:LEU:HG	12:L:41:ALA:N	2.14	0.62
13:M:22:ASP:HA	13:M:114:ARG:NH1	2.14	0.62
14:N:64:PRO:HG3	14:N:88:VAL:CG1	2.29	0.62
15:O:18:ILE:CD1	15:O:24:THR:H	2.13	0.62
15:O:33:THR:HA	15:O:74:MET:HE1	1.82	0.62
15:O:61:TRP:O	15:O:64:ALA:HB3	1.99	0.62
15:O:150:TYR:CB	15:O:161:VAL:HG21	2.30	0.62
16:R:125:TYR:CD2	16:R:130:HIS:HB3	2.35	0.62
17:S:93:GLN:CD	17:S:114:LYS:HZ3	2.08	0.62
22:X:151:GLU:CB	22:X:166:TRP:HB3	2.27	0.62
22:X:181:ILE:HD13	22:X:201:ILE:O	1.99	0.62
23:Y:149:LYS:HA	23:Y:177:MET:HE1	1.80	0.62
23:Y:171:GLU:O	23:Y:179:GLY:HA2	2.00	0.62
27:c:10:LEU:O	27:c:14:ARG:N	2.29	0.62
30:f:8:VAL:N	30:f:23:THR:O	2.33	0.62
30:f:33:ALA:HB3	30:f:58:CYS:CB	2.29	0.62
31:g:64:SER:OG	31:g:81:ILE:HD12	2.00	0.62
38:n:23:THR:HA	38:n:41:PRO:HD3	1.80	0.62
39:o:92:ARG:HH12	39:o:112:ARG:NH1	1.95	0.62
43:s:83:ALA:HB3	43:s:85:VAL:CG2	2.30	0.62
44:t:2:ALA:O	44:t:3:LYS:HB2	1.99	0.62
46:v:18:GLY:O	46:v:56:LYS:HD2	1.98	0.62
46:v:39:ALA:O	46:v:72:ILE:HD12	2.00	0.62
46:v:41:VAL:HG13	46:v:50:PHE:H	1.64	0.62
46:v:41:VAL:N	46:v:52:LYS:HD3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:13:LYS:HD2	9:I:273:A:P	2.40	0.61
5:E:7:ILE:CG2	5:E:48:LEU:HB3	2.30	0.61
7:G:3:LYS:HD3	7:G:4:SER:N	2.14	0.61
9:I:101:G:N3	9:I:150:A:H2	1.98	0.61
9:I:150:A:C2'	9:I:151:A:H5'	2.29	0.61
9:I:498:A:O4'	9:I:546:A:N6	2.33	0.61
9:I:780:A:H5'	9:I:781:A:OP2	2.00	0.61
9:I:1117:U:OP1	28:d:8:ARG:HD2	2.00	0.61
9:I:1170:A:H2'	9:I:1171:C:C6	2.34	0.61
9:I:1247:A:O2'	9:I:1248:C:H5'	1.99	0.61
9:I:1345:A:H61	9:I:1373:A:H3'	1.65	0.61
9:I:1720:G:H5''	9:I:1721:A:OP2	2.00	0.61
9:I:1837:C:C5'	44:t:1:ALA:HB1	2.27	0.61
9:I:1896:G:C4	9:I:1897:U:C5	2.87	0.61
9:I:2328:U:H2'	9:I:2329:A:H8	1.64	0.61
9:I:2339:U:H2'	9:I:2340:C:C6	2.35	0.61
9:I:2504:A:O2'	9:I:2646:C:O2'	2.18	0.61
9:I:2537:C:C1'	9:I:2606:G:H22	2.10	0.61
9:I:2542:A:O2'	9:I:2607:U:H1'	1.99	0.61
9:I:2833:G:C5'	43:s:19:LYS:HB2	2.30	0.61
9:I:2899:U:C2'	9:I:2900:U:O4'	2.45	0.61
9:I:2918:G:H2'	9:I:2919:G:C8	2.35	0.61
9:I:2950:G:C2	9:I:2951:U:H1'	2.35	0.61
9:I:3205:A:H2'	9:I:3206:U:C5'	2.30	0.61
9:I:3216:A:H2'	9:I:3217:G:H8	1.62	0.61
9:I:3285:A:H5''	11:K:204:LEU:CG	2.29	0.61
9:I:3348:A:OP2	9:I:3382:G:N1	2.31	0.61
9:I:3827:A:C4'	9:I:3828:U:H2'	2.23	0.61
9:I:3830:A:N3	9:I:3879:C:C2	2.68	0.61
9:I:3852:A:C2'	9:I:3853:C:H5'	2.29	0.61
9:I:3888:C:H2'	9:I:3889:C:O4'	2.00	0.61
9:I:3972:A:C8	9:I:4023:G:C6	2.88	0.61
9:I:4182:G:H2'	9:I:4213:G:H22	1.62	0.61
9:I:4242:A:HO2'	9:I:4243:A:H5'	1.64	0.61
10:J:6:G:H2'	10:J:7:C:C6	2.34	0.61
10:J:76:U:N3	10:J:98:A:N9	2.47	0.61
10:J:77:A:H2'	10:J:78:G:C5'	2.30	0.61
11:K:157:ALA:C	11:K:194:VAL:HG13	2.25	0.61
12:L:7:LYS:O	12:L:27:ILE:HA	1.99	0.61
12:L:186:LEU:HD11	39:o:3:ILE:HG23	1.81	0.61
14:N:73:VAL:CG2	14:N:78:ILE:HG12	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:150:TYR:HB2	15:O:161:VAL:CG1	2.17	0.61
17:S:58:LEU:HG	17:S:86:LEU:HD22	1.80	0.61
18:T:1:MET:O	18:T:2:ARG:HD2	2.00	0.61
19:U:44:ARG:NE	19:U:91:TYR:HB2	2.15	0.61
20:V:45:ARG:CB	20:V:49:GLU:HG3	2.28	0.61
20:V:115:LEU:CD2	20:V:117:ASP:HB2	2.30	0.61
23:Y:173:ASP:CG	23:Y:176:LYS:HB2	2.25	0.61
30:f:38:SER:OG	30:f:57:ARG:NH1	2.27	0.61
32:h:94:LEU:HD12	32:h:101:THR:CG2	2.22	0.61
41:q:2:TYR:O	41:q:41:ILE:HA	2.00	0.61
43:s:61:LEU:HD11	43:s:63:VAL:HG22	1.82	0.61
43:s:61:LEU:HD11	43:s:63:VAL:HG23	1.81	0.61
44:t:47:PRO:HA	44:t:54:PRO:O	2.00	0.61
46:v:62:LYS:HZ1	46:v:71:SER:CB	2.13	0.61
47:w:4:CYS:SG	47:w:7:THR:N	2.72	0.61
48:x:10:VAL:CG2	48:x:59:LYS:HD2	2.29	0.61
48:x:42:LEU:O	48:x:46:ARG:HG3	1.99	0.61
1:A:42:ASN:OD1	1:A:45:LEU:HD12	1.99	0.61
2:B:23:SER:OG	2:B:26:VAL:HG23	2.00	0.61
4:D:44:HIS:NE2	9:I:254:G:O2'	2.33	0.61
7:G:30:ILE:HG12	7:G:52:MET:HE2	1.82	0.61
8:H:5:VAL:HG13	30:f:94:ARG:O	1.99	0.61
9:I:571:A:H5'	9:I:572:A:OP2	2.00	0.61
9:I:698:C:N4	9:I:699:G:O6	2.33	0.61
9:I:739:U:H2'	9:I:740:G:H8	1.66	0.61
9:I:1052:G:O5'	9:I:1053:C:H5'	1.98	0.61
9:I:1279:A:C8	29:e:38:LEU:HG	2.35	0.61
9:I:1466:C:C4	9:I:1467:U:C2	2.88	0.61
9:I:1631:A:H3'	9:I:1632:G:C8	2.28	0.61
9:I:1631:A:C4	9:I:1632:G:C8	2.88	0.61
9:I:1796:U:C4'	44:t:86:PHE:HE1	2.12	0.61
9:I:1835:C:O2'	9:I:1836:C:P	2.58	0.61
9:I:2136:G:C5	18:T:128:THR:HG21	2.35	0.61
9:I:2206:A:C4	9:I:2207:G:C8	2.87	0.61
9:I:2207:G:C3'	9:I:2208:G:H8	2.12	0.61
9:I:2618:G:H4'	37:m:22:VAL:CG1	2.30	0.61
9:I:2715:C:H2'	9:I:2716:U:C6	2.35	0.61
9:I:3163:A:O2'	9:I:3164:C:OP1	2.18	0.61
9:I:3212:G:H2'	9:I:3213:G:C8	2.35	0.61
9:I:3328:U:OP2	9:I:3328:U:H6	1.82	0.61
9:I:3337:C:H2'	9:I:3338:C:C6	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3677:A:O2'	9:I:3678:A:H5'	2.00	0.61
9:I:3693:A:O5'	47:w:36:ARG:HD3	1.99	0.61
9:I:3779:C:H2'	9:I:3781:A:H1'	1.82	0.61
9:I:3827:A:C3'	46:v:65:LYS:HZ1	1.98	0.61
9:I:3963:A:N6	9:I:3975:G:O2'	2.33	0.61
9:I:3966:G:H2'	9:I:3966:G:N3	2.14	0.61
9:I:3979:G:O3'	19:U:125:PRO:HA	2.01	0.61
9:I:4064:G:H2'	9:I:4065:U:O4'	1.99	0.61
9:I:4098:U:H2'	9:I:4099:PSU:H6	1.65	0.61
9:I:4212:G:O3'	39:o:95:LYS:CG	2.47	0.61
9:I:4245:G:C4	15:O:2:ARG:HD2	2.34	0.61
9:I:4295:G:H2'	9:I:4296:G:C8	2.34	0.61
10:J:35:C:H3'	10:J:36:C:C5	2.34	0.61
11:K:154:ALA:HA	11:K:176:ARG:HB2	1.80	0.61
12:L:11:MET:HA	12:L:26:VAL:HG23	1.82	0.61
12:L:32:ASN:C	12:L:33:ARG:HD3	2.25	0.61
12:L:130:GLN:OE1	12:L:130:GLN:N	2.33	0.61
13:M:21:ARG:NE	13:M:21:ARG:HA	2.15	0.61
14:N:58:ALA:O	14:N:139:GLU:HB3	2.00	0.61
17:S:22:ILE:O	17:S:23:LYS:HG2	2.00	0.61
21:W:32:ARG:HH12	21:W:37:ILE:HG21	1.65	0.61
23:Y:55:ARG:HD2	23:Y:56:GLU:N	2.15	0.61
25:a:50:PRO:HD3	25:a:55:HIS:NE2	2.15	0.61
30:f:18:THR:HG21	30:f:80:GLY:N	2.15	0.61
32:h:36:ALA:HB1	32:h:55:LEU:CD1	2.29	0.61
39:o:4:ILE:HA	39:o:7:LEU:CG	2.30	0.61
46:v:14:LYS:CG	46:v:26:ILE:HG22	2.30	0.61
1:A:2:LYS:HB2	9:I:1215:A:OP1	1.99	0.61
2:B:3:SER:O	2:B:7:THR:HG23	2.00	0.61
2:B:65:LEU:O	2:B:69:LEU:HD23	2.00	0.61
3:C:66:THR:HA	9:I:135:C:O4'	2.01	0.61
9:I:10:G:H2'	9:I:11:U:O4'	2.00	0.61
9:I:737:C:O5'	9:I:737:C:H6	1.84	0.61
9:I:798:G:C2	9:I:799:G:H1'	2.35	0.61
9:I:890:U:O2	9:I:891:A:C8	2.53	0.61
9:I:931:C:OP2	26:b:2:ARG:NE	2.32	0.61
9:I:1073:G:O3'	21:W:99:THR:HB	2.01	0.61
9:I:1186:G:C5'	28:d:112:LYS:HE3	2.31	0.61
9:I:1558:G:H5'	43:s:36:LYS:HZ1	1.65	0.61
9:I:1560:G:C4'	48:x:43:LYS:HZ3	2.11	0.61
9:I:1583:A:H62	9:I:1604:A:H62	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1868:A:C2'	9:I:1869:U:H5'	2.30	0.61
9:I:1912:A:C3'	9:I:1913:C:C6	2.83	0.61
9:I:2532:G:H2'	9:I:2533:A:H8	1.65	0.61
9:I:2667:U:C3'	9:I:2668:U:H4'	2.30	0.61
9:I:2995:G:O2'	11:K:98:GLY:HA2	1.99	0.61
9:I:3022:A:OP2	9:I:3037:G:N2	2.34	0.61
9:I:3319:U:O2'	9:I:3320:G:H5'	2.00	0.61
9:I:3359:U:O4	9:I:3369:G:H2'	2.00	0.61
9:I:3372:G:O2'	9:I:3373:C:H5'	1.99	0.61
9:I:3799:U:C1'	14:N:132:ARG:HG3	2.29	0.61
9:I:3907:G:N2	9:I:3908:G:H1'	2.14	0.61
9:I:4073:C:H2'	9:I:4074:PSU:C6	2.35	0.61
9:I:4155:G:H2'	9:I:4156:A:O4'	2.01	0.61
9:I:4342:G:C3'	39:o:93:LYS:HA	2.30	0.61
10:J:42:C:H2'	10:J:43:G:C5'	2.30	0.61
11:K:123:ILE:HG21	11:K:191:LEU:HG	1.80	0.61
11:K:251:THR:C	11:K:252:LYS:HG2	2.25	0.61
13:M:136:GLN:HB3	13:M:137:LYS:NZ	2.15	0.61
14:N:78:ILE:O	14:N:78:ILE:HG13	1.98	0.61
14:N:132:ARG:HD2	14:N:132:ARG:H	1.64	0.61
15:O:120:ILE:HG23	15:O:134:GLY:CA	2.30	0.61
16:R:23:LYS:HE3	16:R:28:LEU:CA	2.31	0.61
22:X:149:LYS:O	22:X:199:VAL:HA	2.00	0.61
23:Y:43:ARG:HA	23:Y:43:ARG:NE	2.14	0.61
25:a:37:HIS:NE2	25:a:65:GLU:OE1	2.31	0.61
29:e:5:ARG:HD3	29:e:69:LEU:HD13	1.82	0.61
29:e:28:THR:CA	29:e:78:LYS:HE2	2.30	0.61
30:f:40:PHE:CE2	30:f:50:ALA:HA	2.35	0.61
32:h:18:LEU:HA	32:h:21:ILE:CD1	2.30	0.61
38:n:23:THR:HG23	38:n:40:ALA:HA	1.82	0.61
39:o:50:ARG:HG2	39:o:52:ARG:CG	2.28	0.61
41:q:32:THR:HA	41:q:61:ALA:O	2.00	0.61
42:r:79:GLY:HA2	42:r:102:HIS:NE2	2.16	0.61
45:u:2:PHE:HE2	45:u:53:LYS:HG2	1.65	0.61
45:u:30:ILE:HD11	45:u:40:ILE:HD13	1.81	0.61
45:u:44:HIS:CE1	45:u:48:MET:HG3	2.35	0.61
46:v:40:ASN:O	46:v:52:LYS:HB2	2.00	0.61
8:H:18:PHE:CD1	30:f:74:VAL:HG22	2.35	0.61
9:I:137:G:N1	9:I:225:G:N7	2.47	0.61
9:I:395:C:O2'	9:I:397:U:OP1	2.18	0.61
9:I:404:U:H1'	9:I:497:A:H2'	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:418:C:O2'	9:I:419:U:H5'	2.00	0.61
9:I:499:G:O2'	9:I:500:C:H5'	2.00	0.61
9:I:536:G:H2'	9:I:537:G:H8	1.65	0.61
9:I:688:C:H3'	9:I:689:G:H8	1.64	0.61
9:I:828:G:C2'	9:I:829:G:H5'	2.31	0.61
9:I:1059:U:O2'	29:e:50:SER:HB2	2.00	0.61
9:I:1168:A:O3'	21:W:136:ARG:NH2	2.33	0.61
9:I:1275:G:H2'	9:I:1276:C:C6	2.35	0.61
9:I:1417:A:H62	9:I:4386:G:H1'	1.64	0.61
9:I:1572:U:H1'	48:x:50:ALA:HB1	1.81	0.61
9:I:1790:U:O2	9:I:1850:G:N2	2.32	0.61
9:I:2126:A:N1	18:T:81:ASP:OD1	2.33	0.61
9:I:2204:G:H4'	9:I:2205:A:OP1	1.99	0.61
9:I:2841:A:C3'	9:I:2842:C:H5'	2.28	0.61
9:I:2911:C:H2'	9:I:2912:G:O4'	2.00	0.61
9:I:2945:C:O5'	9:I:2945:C:H6	1.82	0.61
9:I:2953:G:H2'	9:I:2955:C:H5	1.65	0.61
9:I:3059:C:H5''	11:K:25:LYS:HE3	1.81	0.61
9:I:3073:A:H2'	9:I:3074:A:C1'	2.30	0.61
9:I:3160:G:N2	9:I:3489:U:C4	2.68	0.61
9:I:3295:A:OP2	11:K:149:LYS:NZ	2.32	0.61
9:I:3353:U:H2'	9:I:3354:G:C8	2.35	0.61
9:I:3359:U:HO2'	9:I:3360:A:H8	1.46	0.61
9:I:4215:A:P	9:I:4339:U:HO2'	2.24	0.61
9:I:4239:C:C2	9:I:4254:C:C2	2.88	0.61
9:I:4370:C:H2'	9:I:4371:C:H6	1.62	0.61
11:K:182:LYS:NZ	11:K:265:PHE:O	2.30	0.61
14:N:30:VAL:HG23	14:N:96:TRP:CH2	2.34	0.61
14:N:48:LEU:CD1	14:N:149:ARG:HH11	2.10	0.61
15:O:33:THR:HA	15:O:74:MET:CE	2.30	0.61
17:S:36:GLY:HA2	17:S:107:LEU:HD11	1.81	0.61
17:S:58:LEU:CG	17:S:86:LEU:HD22	2.31	0.61
18:T:90:VAL:CG2	18:T:94:THR:HB	2.30	0.61
20:V:115:LEU:HD22	20:V:118:ARG:N	2.15	0.61
21:W:119:GLN:O	21:W:122:THR:OG1	2.17	0.61
22:X:135:ARG:O	22:X:139:ASN:ND2	2.29	0.61
23:Y:73:ASN:O	23:Y:76:LYS:NZ	2.31	0.61
24:Z:3:GLN:NE2	24:Z:108:VAL:HA	2.15	0.61
27:c:86:LYS:O	27:c:121:GLY:HA3	2.00	0.61
29:e:45:PHE:CE2	29:e:47:VAL:HG13	2.36	0.61
29:e:47:VAL:CG2	29:e:59:ASP:HB2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:f:16:ASN:O	30:f:45:LYS:HG2	2.01	0.61
30:f:22:ILE:HG21	30:f:62:VAL:HB	1.80	0.61
30:f:46:SER:HB2	30:f:79:PRO:HG3	1.82	0.61
34:j:6:ILE:HG21	34:j:22:LYS:HB3	1.81	0.61
36:l:33:THR:HG23	36:l:34:LYS:N	2.16	0.61
38:n:19:GLU:HG2	46:v:38:GLY:C	2.25	0.61
38:n:52:THR:HA	38:n:57:ILE:O	2.00	0.61
39:o:5:LYS:O	39:o:9:GLN:HB3	2.01	0.61
39:o:46:VAL:HG13	39:o:59:THR:HB	1.82	0.61
39:o:47:ILE:HB	39:o:96:LEU:O	2.00	0.61
40:p:19:GLN:OE1	40:p:19:GLN:HA	2.00	0.61
40:p:75:TYR:O	40:p:79:ILE:HG12	2.00	0.61
41:q:21:ARG:HB2	41:q:21:ARG:HH11	1.65	0.61
45:u:31:TYR:O	45:u:92:VAL:HG13	2.00	0.61
45:u:42:LEU:CB	45:u:47:VAL:HG22	2.30	0.61
1:A:2:LYS:HB3	9:I:1214:G:H4'	1.81	0.61
1:A:88:MET:CG	9:I:1058:C:H4'	2.29	0.61
3:C:4:ILE:HG13	3:C:21:VAL:CG2	2.30	0.61
4:D:13:LYS:HD2	9:I:273:A:OP1	2.00	0.61
5:E:47:SER:OG	25:a:47:LEU:HB3	2.01	0.61
7:G:71:ALA:CA	7:G:74:LYS:HE3	2.27	0.61
9:I:252:A:H2	9:I:272:U:O2	1.83	0.61
9:I:458:A:H2'	9:I:459:A:C8	2.35	0.61
9:I:717:A:N3	9:I:717:A:H2'	2.16	0.61
9:I:795:C:C5'	30:f:117:VAL:HG12	2.29	0.61
9:I:1073:G:O6	9:I:1083:G:N2	2.33	0.61
9:I:1254:G:O2'	9:I:1257:G:H1'	2.00	0.61
9:I:1405:U:H3'	9:I:1406:5MC:HM53	1.82	0.61
9:I:1835:C:H2'	9:I:1836:C:C5	2.35	0.61
9:I:1840:A:C2	9:I:1841:C:H1'	2.36	0.61
9:I:2080:U:H2'	9:I:2081:C:H6	1.63	0.61
9:I:2082:A:H5''	40:p:10:ARG:NH1	2.16	0.61
9:I:2117:G:C5'	13:M:199:MET:HE1	2.26	0.61
9:I:2173:C:H2'	9:I:2174:G:H5'	1.82	0.61
9:I:2202:U:H3'	9:I:2204:G:O6	2.01	0.61
9:I:2357:G:H1	9:I:2414:A:H61	0.72	0.61
9:I:2392:C:C2'	9:I:2393:A:H5'	2.31	0.61
9:I:2451:C:H5''	19:U:75:GLU:OE1	2.00	0.61
9:I:3043:A:H5'	9:I:3233:A:C2	2.35	0.61
9:I:3171:A:H2'	9:I:3171:A:N3	2.13	0.61
9:I:3218:G:N1	9:I:3230:U:N3	2.05	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3588:A:C2	9:I:3589:A:C8	2.88	0.61
9:I:3696:U:O4	9:I:3715:G:O6	2.18	0.61
9:I:3814:U:O2'	9:I:3816:A:N6	2.33	0.61
9:I:3867:G:N1	9:I:3875:A:C2	2.69	0.61
9:I:4242:A:O3'	15:O:3:VAL:HB	2.00	0.61
9:I:4282:C:O2'	9:I:4303:A:H1'	2.01	0.61
9:I:4307:A:H2'	9:I:4308:A:H8	1.63	0.61
9:I:4382:U:H2'	9:I:4383:C:H6	1.64	0.61
9:I:4417:A:H2'	9:I:4418:G:H8	1.64	0.61
9:I:4427:G:H2'	9:I:4428:C:C6	2.35	0.61
10:J:12:G:C2	10:J:15:G:H1'	2.35	0.61
10:J:66:G:O6	10:J:107:A:C2	2.53	0.61
13:M:18:THR:O	13:M:110:SER:N	2.34	0.61
13:M:119:ILE:CD1	13:M:185:LYS:HD2	2.29	0.61
15:O:53:PRO:HD3	15:O:61:TRP:CD2	2.34	0.61
15:O:82:PHE:CE2	15:O:137:LYS:HB2	2.35	0.61
15:O:151:ARG:HG2	15:O:160:GLY:CA	2.29	0.61
22:X:149:LYS:HA	22:X:167:TYR:O	2.00	0.61
24:Z:67:LEU:O	24:Z:73:GLN:NE2	2.29	0.61
27:c:112:ASP:O	27:c:116:ARG:HG3	2.00	0.61
28:d:39:GLU:HG3	28:d:42:ARG:NH1	2.16	0.61
33:i:11:LYS:HA	33:i:11:LYS:HE2	1.82	0.61
33:i:42:ILE:HA	33:i:47:TYR:O	2.00	0.61
38:n:28:HIS:HA	38:n:96:PHE:CD2	2.35	0.61
38:n:29:ARG:HG2	38:n:101:ARG:CZ	2.31	0.61
43:s:30:ILE:HD12	43:s:87:LEU:CD2	2.30	0.61
43:s:39:THR:HG22	43:s:42:GLU:CD	2.24	0.61
45:u:35:GLU:HB2	45:u:93:ARG:NH1	2.15	0.61
3:C:5:ARG:NH2	3:C:26:ASN:O	2.33	0.61
3:C:15:PRO:HB2	3:C:41:PRO:HG3	1.82	0.61
4:D:16:LYS:C	9:I:272:U:H4'	2.24	0.61
4:D:44:HIS:CE1	9:I:254:G:HO2'	2.18	0.61
5:E:7:ILE:HA	5:E:10:LEU:HB2	1.82	0.61
9:I:49:A:N3	9:I:51:C:H1'	2.15	0.61
9:I:179:U:O2'	9:I:180:A:O5'	2.16	0.61
9:I:619:C:C6	23:Y:131:ILE:HD13	2.35	0.61
9:I:737:C:H5''	25:a:68:GLN:CD	2.25	0.61
9:I:744:G:H4'	9:I:835:G:C2	2.36	0.61
9:I:1056:G:H5'	22:X:194:VAL:O	2.00	0.61
9:I:1101:A:O2'	9:I:1102:C:H5'	2.00	0.61
9:I:1208:C:O2'	9:I:1209:C:H5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1373:A:H4'	26:b:27:ASN:ND2	2.15	0.61
9:I:1453:A:N6	9:I:4353:C:O2'	2.32	0.61
9:I:1602:U:O4	48:x:2:ALA:HB3	2.00	0.61
9:I:1667:A:C2	9:I:1668:G:H1'	2.35	0.61
9:I:1989:G:N3	9:I:2778:A:N6	2.48	0.61
9:I:2046:U:H5'	9:I:2046:U:O2	2.01	0.61
9:I:2358:G:H3'	9:I:2359:G:C8	2.36	0.61
9:I:2524:C:C2'	9:I:2525:G:H5'	2.30	0.61
9:I:2543:C:H1'	9:I:2607:U:H5'	1.82	0.61
9:I:2687:G:N2	9:I:2688:A:H1'	2.14	0.61
9:I:2897:A:H3'	9:I:2898:C:C6	2.35	0.61
9:I:2926:G:H2'	9:I:2927:A:H8	1.61	0.61
9:I:3205:A:C2'	9:I:3206:U:H5'	2.31	0.61
9:I:3298:C:H2'	9:I:3299:A:C8	2.36	0.61
9:I:3429:G:H2'	9:I:3456:5MC:N3	2.16	0.61
9:I:3670:A:H2'	9:I:3671:C:H6	1.65	0.61
9:I:3802:G:N1	9:I:3805:A:N7	2.43	0.61
9:I:3866:U:H2'	9:I:3867:G:C8	2.36	0.61
9:I:4021:C:H2'	9:I:4022:U:C6	2.36	0.61
9:I:4179:G:H2'	9:I:4180:G:C8	2.35	0.61
9:I:4232:A:C8	9:I:4232:A:OP2	2.53	0.61
9:I:4241:G:O6	9:I:4249:C:H5''	2.00	0.61
9:I:4271:G:H1'	9:I:4273:U:H5	1.66	0.61
10:J:31:U:H2'	10:J:32:G:C8	2.36	0.61
12:L:9:VAL:HG13	39:o:3:ILE:CD1	2.27	0.61
12:L:10:GLY:O	12:L:26:VAL:HB	2.01	0.61
12:L:30:GLU:CD	12:L:53:GLY:HA2	2.25	0.61
12:L:172:VAL:HG12	12:L:175:LEU:CD1	2.24	0.61
13:M:6:LYS:CG	13:M:120:VAL:H	2.10	0.61
13:M:157:LEU:HD11	13:M:169:VAL:CG2	2.30	0.61
14:N:73:VAL:HG22	14:N:78:ILE:HG12	1.83	0.61
15:O:151:ARG:O	15:O:161:VAL:N	2.33	0.61
21:W:108:ILE:HG21	21:W:151:MET:CE	2.30	0.61
21:W:160:VAL:HG21	21:W:170:ILE:HG12	1.81	0.61
23:Y:148:ALA:HA	23:Y:151:GLN:HG3	1.82	0.61
24:Z:10:ASN:O	24:Z:24:PHE:HA	2.00	0.61
26:b:55:LYS:CE	26:b:60:ALA:HA	2.31	0.61
26:b:129:ASN:CB	26:b:134:VAL:HG11	2.30	0.61
30:f:22:ILE:HG13	30:f:62:VAL:CG1	2.27	0.61
32:h:35:ALA:HB3	32:h:58:GLU:OE1	2.00	0.61
35:k:44:VAL:HG22	35:k:45:SER:N	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:3:LYS:HG3	38:n:6:ARG:HH22	1.64	0.61
38:n:28:HIS:O	38:n:34:ILE:HD11	2.00	0.61
41:q:6:GLN:HE21	41:q:9:GLY:C	2.08	0.61
44:t:23:LYS:O	44:t:36:GLU:N	2.34	0.61
4:D:9:VAL:HB	4:D:53:GLY:H	1.65	0.61
4:D:35:ILE:O	9:I:279:C:N4	2.34	0.61
4:D:66:LYS:CD	9:I:250:G:H1'	2.30	0.61
5:E:4:TYR:CA	5:E:39:ALA:HB1	2.31	0.61
7:G:2:ILE:HD12	9:I:348:A:C5'	2.28	0.61
9:I:8:G:H5'	24:Z:100:GLY:N	2.12	0.61
9:I:32:A:H2'	9:I:33:C:C6	2.35	0.61
9:I:85:G:H1'	9:I:86:C:O4'	2.01	0.61
9:I:486:A:H2'	9:I:487:C:H5'	1.82	0.61
9:I:599:A:H5''	27:c:88:LYS:NZ	2.16	0.61
9:I:620:A:H2'	9:I:621:A:H8	1.65	0.61
9:I:730:G:C5'	9:I:765:A:H4'	2.31	0.61
9:I:1692:C:H5''	9:I:1693:U:OP2	1.99	0.61
9:I:2049:G:O5'	9:I:2050:C:H6	1.84	0.61
9:I:2097:G:H2'	9:I:2098:U:O4'	2.01	0.61
9:I:2311:U:H1'	9:I:2745:C:H5'	1.82	0.61
9:I:2384:U:H5''	9:I:2385:C:OP2	2.00	0.61
9:I:2411:A:C2'	9:I:2412:A:H5'	2.31	0.61
9:I:2457:U:C2	9:I:2458:C:C5	2.89	0.61
9:I:2474:A:N6	9:I:2475:A:N1	2.48	0.61
9:I:2605:A:H1'	9:I:2606:G:C8	2.35	0.61
9:I:2612:C:H2'	9:I:2613:U:H6	1.63	0.61
9:I:2962:U:C3'	9:I:3016:A:H61	2.13	0.61
9:I:2990:A:C3'	9:I:2992:C:N4	2.62	0.61
9:I:3251:A:C8	9:I:3251:A:OP1	2.53	0.61
9:I:3293:G:H8	11:K:179:GLU:CD	2.08	0.61
9:I:3349:U:H2'	9:I:3349:U:O2	2.01	0.61
9:I:3385:G:H2'	9:I:3386:C:C6	2.35	0.61
9:I:3689:U:H2'	9:I:3690:C:H5'	1.82	0.61
9:I:3691:U:O5'	9:I:3691:U:H6	1.84	0.61
9:I:3825:G:H2'	9:I:3826:C:H6	1.65	0.61
9:I:3958:G:H2'	9:I:3959:C:C6	2.36	0.61
9:I:4151:A:H61	9:I:4158:G:H2'	1.66	0.61
9:I:4162:G:C2	9:I:4163:G:C8	2.88	0.61
9:I:4182:G:O6	9:I:4213:G:H3'	2.01	0.61
9:I:4381:U:H2'	9:I:4382:U:H6	1.62	0.61
12:L:26:VAL:HG22	12:L:188:LEU:CD2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:109:VAL:N	12:L:172:VAL:O	2.34	0.61
15:O:21:GLN:HB3	15:O:36:LEU:O	1.99	0.61
16:R:56:VAL:HB	16:R:124:VAL:HA	1.80	0.61
17:S:18:ARG:HG3	17:S:44:LYS:HB2	1.83	0.61
17:S:24:VAL:HA	17:S:39:ILE:HB	1.82	0.61
20:V:9:GLN:C	20:V:12:ARG:HH11	2.08	0.61
21:W:92:ARG:HG2	21:W:94:LEU:HD23	1.82	0.61
24:Z:88:GLN:N	24:Z:115:LEU:O	2.34	0.61
25:a:47:LEU:H	25:a:56:LYS:H	1.47	0.61
26:b:69:ARG:HA	26:b:99:ALA:HB2	1.83	0.61
29:e:7:LYS:NZ	29:e:67:LEU:HD21	2.15	0.61
29:e:53:VAL:HG13	29:e:54:ASN:N	2.15	0.61
32:h:69:ARG:NH2	32:h:72:ILE:HG21	2.15	0.61
39:o:47:ILE:HG21	39:o:99:LEU:HB2	1.83	0.61
41:q:4:VAL:HB	41:q:39:LEU:HB2	1.82	0.61
45:u:4:ILE:CG1	45:u:50:MET:HG3	2.31	0.61
46:v:21:VAL:HG22	46:v:55:GLY:O	2.01	0.61
49:y:2:LYS:HB3	49:y:39:ASP:OD2	2.01	0.61
49:y:26:LEU:C	49:y:37:ARG:HE	2.08	0.61
1:A:3:GLN:H	9:I:1214:G:C2'	2.13	0.61
1:A:11:LYS:HD3	9:I:1216:C:O3'	1.99	0.61
9:I:12:U:H3'	9:I:13:U:H6	1.65	0.61
9:I:67:G:H21	9:I:151:A:C1'	2.12	0.61
9:I:122:U:C1'	9:I:289:C:H1'	2.30	0.61
9:I:142:A:H2	9:I:219:G:N1	1.99	0.61
9:I:268:C:H2'	9:I:269:A:C8	2.36	0.61
9:I:418:C:H5''	9:I:512:C:C1'	2.30	0.61
9:I:544:C:H5'	23:Y:61:ARG:HH12	1.66	0.61
9:I:1004:A:H4'	9:I:1036:C:O2	2.01	0.61
9:I:1052:G:O6	9:I:1199:C:H5''	2.01	0.61
9:I:1162:A:O2'	9:I:1163:G:H5'	2.00	0.61
9:I:1197:G:O2'	9:I:1198:U:H5'	2.01	0.61
9:I:1411:C:H2'	9:I:1412:A:H8	1.60	0.61
9:I:1636:G:OP2	9:I:1636:G:H8	1.83	0.61
9:I:1809:A:P	44:t:16:LYS:HZ3	2.23	0.61
9:I:1866:C:C2	9:I:1867:G:H1'	2.35	0.61
9:I:1995:G:C2	9:I:1996:G:H1'	2.36	0.61
9:I:2164:G:H2'	9:I:2164:G:N3	2.16	0.61
9:I:2595:U:H2'	9:I:2596:C:H6	1.59	0.61
9:I:2677:U:H5''	49:y:29:ARG:CZ	2.30	0.61
9:I:2955:C:H2'	9:I:2956:C:H6	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2964:A:H2'	9:I:2965:G:O4'	2.00	0.61
9:I:2985:G:H2'	9:I:2986:G:C8	2.36	0.61
9:I:3064:A:C3'	9:I:3065:A:H8	2.13	0.61
9:I:3234:G:H2'	9:I:3235:C:O4'	2.00	0.61
9:I:3282:C:C2'	9:I:3283:A:H5'	2.30	0.61
9:I:3312:U:O5'	11:K:155:ARG:HD2	2.01	0.61
9:I:3336:G:C3'	9:I:3337:C:H6	2.14	0.61
9:I:3358:U:N3	9:I:3370:A:OP1	2.33	0.61
9:I:3411:PSU:O2	9:I:3412:A:N6	2.34	0.61
9:I:3793:U:H2'	9:I:3794:C:C1'	2.30	0.61
9:I:3939:2MG:HM23	9:I:3940:G:H1'	1.81	0.61
9:I:4043:G:O2'	9:I:4044:G:H5'	2.01	0.61
9:I:4044:G:O2'	9:I:4045:C:H5'	2.00	0.61
9:I:4068:G:H2'	9:I:4069:C:O4'	2.01	0.61
9:I:4151:A:OP2	9:I:4152:C:N4	2.27	0.61
9:I:4223:G:C4'	12:L:190:LYS:HE2	2.29	0.61
11:K:140:VAL:CG1	11:K:141:HIS:N	2.64	0.61
13:M:131:THR:HG22	13:M:159:LEU:O	2.01	0.61
14:N:46:LYS:HZ2	14:N:83:PRO:CB	2.12	0.61
14:N:79:ARG:HG2	14:N:82:TYR:CD2	2.35	0.61
15:O:8:VAL:HG22	15:O:72:ASN:CG	2.24	0.61
25:a:46:GLN:CA	25:a:56:LYS:HA	2.27	0.61
26:b:122:GLU:O	26:b:126:ALA:N	2.31	0.61
27:c:46:GLU:N	27:c:63:LYS:HD2	2.14	0.61
39:o:5:LYS:HD2	39:o:6:GLN:N	2.14	0.61
40:p:53:LYS:O	40:p:57:ARG:HG3	2.01	0.61
40:p:81:GLY:H	40:p:116:LEU:HD13	1.66	0.61
49:y:8:GLN:NE2	49:y:53:MET:HE2	2.11	0.61
4:D:77:GLU:O	4:D:78:LYS:HE2	2.00	0.61
6:F:49:VAL:HG11	6:F:69:LEU:O	2.00	0.61
8:H:22:CYS:SG	30:f:100:ASP:HA	2.40	0.61
9:I:204:A:N7	9:I:206:C:N4	2.49	0.61
9:I:406:U:H1'	23:Y:153:ARG:HH12	1.65	0.61
9:I:500:C:H2'	9:I:501:A:H8	1.66	0.61
9:I:597:U:H2'	9:I:598:C:C5	2.36	0.61
9:I:753:C:H3'	9:I:753:C:O2	2.00	0.61
9:I:890:U:O2	9:I:890:U:H2'	2.01	0.61
9:I:1576:C:H2'	9:I:1577:G:O5'	2.01	0.61
9:I:1578:U:O2	9:I:1608:G:C6	2.53	0.61
9:I:1766:G:H2'	9:I:1767:C:H4'	1.82	0.61
9:I:2036:G:C2'	9:I:2037:G:H5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2397:C:O2	9:I:2397:C:H2'	2.00	0.61
9:I:2915:G:H2'	9:I:2915:G:N3	2.16	0.61
9:I:3023:G:H2'	9:I:3024:G:H5'	1.82	0.61
9:I:3023:G:C2	9:I:3037:G:H1'	2.36	0.61
9:I:3062:G:P	11:K:62:ARG:HH22	2.22	0.61
9:I:3116:G:O2'	9:I:3117:G:H5'	2.00	0.61
9:I:3212:G:H2'	9:I:3213:G:C1'	2.30	0.61
9:I:3604:G:O2'	9:I:3605:U:OP1	2.19	0.61
9:I:3690:C:H2'	9:I:3691:U:C6	2.35	0.61
9:I:3737:U:H2'	9:I:3738:U:H6	1.66	0.61
9:I:3838:U:H4'	9:I:3840:A:OP1	2.01	0.61
9:I:3848:C:H4'	46:v:25:SER:HA	1.83	0.61
9:I:4169:A:H2'	9:I:4170:C:C6	2.35	0.61
9:I:4208:G:H2'	9:I:4209:C:C6	2.36	0.61
9:I:4236:G:O2'	9:I:4237:U:H5'	2.01	0.61
10:J:13:U:H4'	10:J:68:G:N1	2.10	0.61
12:L:15:PHE:CE1	39:o:77:SER:HA	2.35	0.61
13:M:5:LEU:HA	13:M:120:VAL:HG23	1.81	0.61
13:M:129:PRO:CB	13:M:159:LEU:HB2	2.21	0.61
15:O:92:GLY:HA2	15:O:94:ARG:HH22	1.66	0.61
17:S:73:ASP:HB3	39:o:79:VAL:HG21	1.81	0.61
18:T:48:ARG:HD3	18:T:48:ARG:H	1.64	0.61
18:T:112:LEU:N	18:T:131:ALA:HB2	2.14	0.61
18:T:131:ALA:HA	18:T:134:ALA:HB3	1.82	0.61
21:W:159:PHE:CE2	21:W:161:ILE:HD11	2.35	0.61
23:Y:48:SER:OG	23:Y:51:GLY:N	2.34	0.61
24:Z:47:VAL:O	24:Z:51:ILE:HG23	2.01	0.61
25:a:8:PHE:CB	25:a:87:SER:HB3	2.25	0.61
26:b:36:SER:HB2	28:d:38:ARG:NH2	2.16	0.61
28:d:2:GLN:OE1	28:d:19:LYS:HB2	2.00	0.61
28:d:17:PHE:HD2	28:d:61:TYR:HD2	1.47	0.61
39:o:23:ASP:OD1	39:o:88:ARG:HB3	2.00	0.61
39:o:90:ALA:HB1	39:o:112:ARG:NH1	2.15	0.61
44:t:44:HIS:CD2	44:t:57:ILE:HD13	2.35	0.61
45:u:26:PHE:CD2	45:u:88:HIS:HA	2.36	0.61
46:v:9:LYS:HD2	46:v:11:LEU:CD1	2.26	0.61
47:w:26:ARG:NH2	47:w:28:PHE:HE1	1.99	0.61
49:y:5:LYS:HD2	49:y:35:VAL:N	2.16	0.61
2:B:63:ARG:HH22	9:I:2215:A:P	2.21	0.61
3:C:36:VAL:HG21	3:C:60:TRP:HE1	1.65	0.61
3:C:62:GLY:HA3	9:I:226:G:C4	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:108:A:H62	9:I:323:G:N2	1.99	0.61
9:I:280:G:C4'	9:I:281:A:H5'	2.29	0.61
9:I:344:C:H5'	9:I:345:G:C5	2.36	0.61
9:I:371:C:H4'	9:I:372:A:OP1	2.01	0.61
9:I:467:A:H3'	9:I:468:C:H6	1.64	0.61
9:I:1486:G:H3'	9:I:4302:G:H21	1.63	0.61
9:I:1560:G:C3'	48:x:43:LYS:HZ3	2.13	0.61
9:I:1583:A:H2	9:I:1584:A:C5	2.19	0.61
9:I:1755:A:C2	9:I:1756:A:H1'	2.36	0.61
9:I:1975:C:H2'	9:I:1976:G:O4'	2.01	0.61
9:I:2214:U:HO2'	9:I:2216:A:N6	1.97	0.61
9:I:2334:G:H2'	9:I:2335:C:H6	1.65	0.61
9:I:2348:C:C3'	9:I:2349:A:H8	2.13	0.61
9:I:2368:U:H3'	9:I:2369:G:H8	1.66	0.61
9:I:2707:A:H2'	9:I:2708:A:C8	2.34	0.61
9:I:3078:U:C2'	9:I:3079:C:H5'	2.20	0.61
9:I:3446:A:H2'	9:I:3447:A:C8	2.36	0.61
9:I:3692:A:H2'	9:I:3692:A:P	2.40	0.61
9:I:3855:G:HO2'	9:I:3856:C:H5'	1.64	0.61
9:I:4241:G:H5''	15:O:69:ALA:CB	2.31	0.61
9:I:4253:G:H1'	15:O:34:ARG:NH2	2.15	0.61
9:I:4258:A:H5''	9:I:4259:A:OP2	2.01	0.61
9:I:4419:G:H2'	9:I:4420:2MG:C8	2.35	0.61
15:O:86:LEU:HB2	15:O:130:ILE:CD1	2.31	0.61
16:R:115:GLY:HA2	16:R:118:MET:CE	2.23	0.61
17:S:8:LEU:HB2	17:S:19:VAL:C	2.26	0.61
17:S:68:GLY:CA	17:S:79:PHE:H	2.14	0.61
18:T:109:LYS:CE	18:T:128:THR:HG22	2.31	0.61
22:X:130:ARG:O	22:X:134:LYS:HB2	2.00	0.61
24:Z:106:LEU:HD12	24:Z:107:GLU:N	2.16	0.61
29:e:48:LEU:HD21	29:e:55:LYS:HZ3	1.64	0.61
30:f:40:PHE:CD1	30:f:44:ARG:HB2	2.36	0.61
31:g:49:ARG:HB3	31:g:65:TYR:OH	2.01	0.61
32:h:48:SER:O	32:h:52:ILE:HG12	2.01	0.61
34:j:4:GLU:HB2	34:j:24:LYS:HD3	1.82	0.61
36:l:14:LYS:HD3	36:l:22:LYS:HE2	1.82	0.61
38:n:14:ARG:NH2	38:n:26:VAL:HG21	2.15	0.61
43:s:29:THR:CG2	43:s:86:THR:HA	2.31	0.61
45:u:51:GLN:HE22	45:u:89:ILE:HD13	1.66	0.61
45:u:61:LEU:N	45:u:72:VAL:O	2.26	0.61
45:u:63:ILE:HB	45:u:65:VAL:HG23	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:x:2:ALA:O	48:x:6:ARG:NH2	2.33	0.61
48:x:30:GLN:O	48:x:35:GLN:HB2	2.00	0.61
49:y:28:LEU:HG	49:y:35:VAL:HB	1.81	0.61
49:y:50:VAL:HA	49:y:52:PHE:CE1	2.35	0.61
2:B:86:LEU:HD11	9:I:2215:A:O3'	2.00	0.60
7:G:23:ARG:HD2	9:I:1437:G:OP1	2.01	0.60
9:I:149:U:O4	9:I:169:U:H2'	2.02	0.60
9:I:264:G:H3'	9:I:266:C:N4	2.14	0.60
9:I:335:A:O2'	9:I:336:G:H5'	2.01	0.60
9:I:706:U:H4'	30:f:10:HIS:CD2	2.36	0.60
9:I:768:G:H2'	9:I:769:C:C6	2.35	0.60
9:I:943:G:C6	9:I:1336:G:H2'	2.35	0.60
9:I:1083:G:H3'	9:I:1084:U:C6	2.35	0.60
9:I:1325:U:H2'	9:I:1326:C:C5	2.36	0.60
9:I:1474:U:C4	9:I:4333:G:C6	2.89	0.60
9:I:1561:C:H5'	48:x:42:LEU:CD2	2.20	0.60
9:I:1608:G:H1'	9:I:1846:A:N1	2.16	0.60
9:I:1707:A:C2	9:I:1708:C:H1'	2.35	0.60
9:I:1848:A:H2'	9:I:1849:U:C1'	2.30	0.60
9:I:2282:A:C4	11:K:224:MET:HE1	2.36	0.60
9:I:2619:G:H8	9:I:2620:A:O2'	1.84	0.60
9:I:2827:G:C2	9:I:2828:G:C8	2.89	0.60
9:I:2915:G:H1	9:I:3072:U:H3	1.48	0.60
9:I:2918:G:O2'	9:I:2919:G:O5'	2.15	0.60
9:I:2933:A:H3'	9:I:2934:U:C6	2.32	0.60
9:I:2936:U:O5'	9:I:2936:U:H6	1.84	0.60
9:I:2984:A:H61	11:K:96:LYS:NZ	1.98	0.60
9:I:3292:U:OP2	11:K:270:ARG:NH1	2.34	0.60
9:I:3570:U:H5''	9:I:3732:G:H22	1.64	0.60
9:I:3579:U:O2	9:I:3728:G:C6	2.53	0.60
9:I:3838:U:C4'	9:I:3840:A:OP1	2.48	0.60
9:I:3900:A:H4'	9:I:3901:A:H5''	1.82	0.60
9:I:3913:U:O3'	34:j:19:THR:HB	2.01	0.60
9:I:3961:C:H5''	9:I:3962:A:OP2	2.00	0.60
9:I:4276:G:H2'	9:I:4277:U:H6	1.66	0.60
9:I:4305:G:OP1	12:L:61:THR:HB	1.99	0.60
10:J:13:U:H5''	10:J:68:G:N2	2.16	0.60
11:K:143:VAL:HG21	11:K:161:VAL:HG11	1.83	0.60
12:L:2:ILE:CG1	12:L:100:LEU:HD21	2.31	0.60
17:S:77:ILE:HG13	39:o:71:ARG:HH11	1.65	0.60
18:T:75:ALA:HB3	18:T:108:ALA:CB	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:77:ILE:HG23	18:T:125:LEU:HD23	1.83	0.60
18:T:100:ILE:HG13	18:T:101:ILE:N	2.15	0.60
18:T:108:ALA:O	18:T:125:LEU:HG	2.00	0.60
22:X:5:HIS:O	22:X:9:ILE:HG22	2.00	0.60
28:d:49:LEU:HD22	28:d:54:MET:HE3	1.83	0.60
36:l:37:THR:HB	36:l:38:LYS:HZ1	1.64	0.60
40:p:12:ARG:HG2	40:p:12:ARG:HH11	1.65	0.60
40:p:28:SER:O	40:p:29:ARG:NH2	2.34	0.60
43:s:17:SER:N	43:s:21:SER:OG	2.34	0.60
44:t:10:VAL:C	44:t:72:PHE:HB2	2.26	0.60
47:w:17:ARG:HE	47:w:21:LEU:CD1	2.14	0.60
5:E:47:SER:CB	25:a:51:ILE:HG23	2.25	0.60
5:E:54:ARG:HE	8:H:1:PRO:HD3	1.65	0.60
8:H:1:PRO:HD2	30:f:101:VAL:HB	1.83	0.60
9:I:56:G:H2'	9:I:57:C:C6	2.36	0.60
9:I:205:C:C2'	9:I:206:C:H5'	2.31	0.60
9:I:291:G:N2	9:I:308:A:H1'	2.16	0.60
9:I:327:C:H4'	9:I:328:A:H5''	1.82	0.60
9:I:406:U:H2'	9:I:407:A:H8	1.65	0.60
9:I:978:C:OP2	9:I:979:C:H5	1.84	0.60
9:I:1409:A:O2'	9:I:1410:C:H5'	2.01	0.60
9:I:1432:A:H2'	9:I:1433:A:C8	2.36	0.60
9:I:1594:A:H2'	9:I:1595:A:O4'	2.01	0.60
9:I:1762:A:C5	9:I:1763:G:C6	2.89	0.60
9:I:1829:G:OP2	44:t:14:THR:OG1	2.19	0.60
9:I:1829:G:H2'	44:t:15:GLY:HA2	1.82	0.60
9:I:1964:U:C6	9:I:1964:U:C3'	2.84	0.60
9:I:1999:U:H2'	9:I:2000:G:C1'	2.32	0.60
9:I:2139:U:C2'	9:I:2140:C:C6	2.77	0.60
9:I:2481:C:H3'	49:y:10:ARG:NH2	2.16	0.60
9:I:2491:G:P	40:p:90:ASP:HB2	2.40	0.60
9:I:2547:C:H2'	9:I:2548:A:H8	1.64	0.60
9:I:2698:A:N6	9:I:2736:U:O4	2.34	0.60
9:I:2970:U:H2'	9:I:2971:A:C8	2.36	0.60
9:I:2984:A:O2'	9:I:2985:G:O4'	2.18	0.60
9:I:2999:A:O2'	9:I:3000:U:H5'	2.00	0.60
9:I:3784:G:OP2	9:I:3878:U:H4'	2.01	0.60
9:I:3794:C:H2'	9:I:3795:C:C6	2.37	0.60
9:I:3960:C:OP1	37:m:4:ARG:HD2	2.01	0.60
9:I:3971:U:O4	37:m:10:LEU:HD11	2.01	0.60
9:I:4280:U:H5''	9:I:4281:C:OP2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:143:VAL:C	11:K:151:GLY:HA2	2.26	0.60
11:K:144:GLU:HG2	11:K:150:GLY:H	1.66	0.60
12:L:14:ILE:HG12	12:L:22:ILE:O	2.00	0.60
12:L:34:VAL:CG1	12:L:48:ILE:HB	2.31	0.60
12:L:106:LYS:HE2	12:L:176:ASP:OD1	2.01	0.60
15:O:43:LYS:HD2	15:O:50:THR:OG1	2.02	0.60
16:R:80:HIS:O	16:R:82:GLY:N	2.34	0.60
19:U:120:ALA:HA	19:U:123:LYS:HB2	1.82	0.60
21:W:111:LEU:HD22	21:W:112:LYS:NZ	2.15	0.60
21:W:183:ILE:HA	21:W:197:ILE:O	2.01	0.60
23:Y:50:TYR:CE1	23:Y:54:LEU:HD21	2.36	0.60
29:e:8:ALA:CB	29:e:92:VAL:HG22	2.30	0.60
31:g:54:VAL:HG21	31:g:79:ILE:HD11	1.83	0.60
33:i:27:LEU:CD2	33:i:36:LYS:HD2	2.30	0.60
34:j:18:TYR:CZ	36:l:33:THR:O	2.54	0.60
38:n:103:GLN:HG2	38:n:107:ASP:OD2	2.01	0.60
42:r:72:THR:OG1	42:r:106:VAL:HG12	2.01	0.60
46:v:58:LYS:CB	46:v:73:GLU:HG3	2.30	0.60
46:v:62:LYS:HD2	46:v:69:PHE:HB2	1.81	0.60
49:y:7:THR:OG1	49:y:57:GLU:OE1	2.19	0.60
2:B:48:ASP:CG	2:B:51:SER:HB2	2.26	0.60
4:D:13:LYS:O	9:I:274:G:H4'	2.01	0.60
4:D:65:SER:HA	9:I:265:G:H21	1.65	0.60
8:H:34:ARG:HH21	30:f:105:PRO:CB	2.13	0.60
9:I:42:C:O4'	9:I:621:A:H2	1.84	0.60
9:I:242:A:H2	9:I:244:U:H2'	1.66	0.60
9:I:276:C:H2'	9:I:277:G:C8	2.36	0.60
9:I:278:A:H5''	9:I:280:G:O5'	2.01	0.60
9:I:713:G:H3'	9:I:714:A:H8	1.66	0.60
9:I:1025:G:N1	9:I:1034:A:C6	2.70	0.60
9:I:1083:G:H2'	9:I:1084:U:C5	2.37	0.60
9:I:1495:A:H2'	9:I:1496:A:O4'	2.01	0.60
9:I:1968:G:H2'	9:I:1969:G:H5'	1.83	0.60
9:I:2141:U:H3	9:I:2145:C:P	2.25	0.60
9:I:2214:U:N3	9:I:2217:C:OP2	2.34	0.60
9:I:2401:G:H2'	9:I:2402:C:C6	2.37	0.60
9:I:2633:G:OP2	16:R:25:LEU:HD21	2.01	0.60
9:I:2789:C:H2'	9:I:2790:G:C8	2.35	0.60
9:I:2860:A:P	47:w:10:ARG:HH22	2.24	0.60
9:I:2901:G:H2'	9:I:2901:G:N3	2.16	0.60
9:I:3061:G:C6	11:K:82:TYR:CB	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3348:A:C2	9:I:3582:A:H1'	2.37	0.60
9:I:3364:C:H3'	9:I:3365:A:C8	2.36	0.60
9:I:3820:C:O3'	9:I:3821:A:H8	1.83	0.60
9:I:3864:G:H2'	9:I:3865:G:N9	2.16	0.60
9:I:3972:A:H2'	9:I:3972:A:N3	2.14	0.60
9:I:4013:U:C2'	9:I:4035:A:H61	2.15	0.60
9:I:4027:U:H4'	9:I:4158:G:H4'	1.83	0.60
9:I:4028:A:N1	15:O:174:LYS:HE2	2.16	0.60
9:I:4050:C:H2'	9:I:4051:G:C5'	2.23	0.60
9:I:4138:G:H3'	9:I:4138:G:P	2.41	0.60
9:I:4169:A:H2'	9:I:4170:C:H6	1.66	0.60
9:I:4176:A:O2'	12:L:13:ARG:HB2	2.00	0.60
9:I:4186:G:H1'	9:I:4341:U:H1'	1.83	0.60
9:I:4241:G:C2	9:I:4250:U:C5	2.90	0.60
10:J:21:U:O5'	10:J:21:U:H6	1.85	0.60
14:N:36:ASN:H	14:N:153:ILE:CD1	2.14	0.60
14:N:79:ARG:HE	14:N:82:TYR:HD2	1.49	0.60
15:O:67:ALA:HA	15:O:70:LEU:HD12	1.83	0.60
16:R:59:ALA:N	16:R:126:ALA:HA	2.14	0.60
17:S:103:VAL:HG23	17:S:122:VAL:HG12	1.82	0.60
18:T:91:ASP:HB2	18:T:93:ASN:CG	2.26	0.60
18:T:92:LEU:HD21	18:T:105:ILE:O	2.01	0.60
18:T:96:LYS:HE2	18:T:105:ILE:HG22	1.84	0.60
19:U:2:LEU:O	19:U:3:GLN:HB3	1.99	0.60
21:W:3:MET:HG2	21:W:44:VAL:CG2	2.16	0.60
24:Z:56:GLU:O	24:Z:59:ARG:HG2	2.01	0.60
24:Z:87:MET:HE2	24:Z:114:VAL:HB	1.83	0.60
24:Z:99:GLY:O	24:Z:103:ARG:NE	2.26	0.60
34:j:6:ILE:N	34:j:21:THR:HA	2.16	0.60
37:m:17:VAL:O	37:m:24:ARG:HB2	2.01	0.60
39:o:47:ILE:HD13	39:o:100:ARG:NE	2.15	0.60
39:o:50:ARG:HG3	39:o:52:ARG:NH1	2.17	0.60
41:q:2:TYR:O	41:q:42:ALA:N	2.32	0.60
41:q:21:ARG:HB2	41:q:21:ARG:NH1	2.16	0.60
43:s:86:THR:HG22	43:s:87:LEU:N	2.15	0.60
44:t:12:VAL:CG2	44:t:64:ILE:HD11	2.31	0.60
45:u:44:HIS:HA	45:u:47:VAL:HG23	1.82	0.60
1:A:2:LYS:HD2	9:I:1214:G:C4'	2.25	0.60
9:I:205:C:H2'	9:I:206:C:H5'	1.82	0.60
9:I:500:C:OP1	31:g:113:ARG:NH2	2.34	0.60
9:I:781:A:H4'	9:I:4419:G:C5'	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1044:C:H3'	9:I:1045:A:C5'	2.23	0.60
9:I:1072:U:H4'	21:W:102:LYS:CE	2.31	0.60
9:I:1799:A:H3'	9:I:1800:A:C8	2.37	0.60
9:I:1819:G:H3'	13:M:132:LYS:HD2	1.82	0.60
9:I:1857:C:C2	9:I:1858:U:C6	2.89	0.60
9:I:2032:A:O2'	9:I:3515:C:N4	2.34	0.60
9:I:2349:A:H61	9:I:2422:A:N6	1.98	0.60
9:I:2556:G:H1'	9:I:2582:A:C6	2.35	0.60
9:I:2625:G:N7	9:I:3519:C:H4'	2.16	0.60
9:I:2760:G:O2'	9:I:2761:U:OP2	2.18	0.60
9:I:2905:U:C2'	9:I:2906:U:H5'	2.31	0.60
9:I:3061:G:N1	11:K:25:LYS:HA	2.16	0.60
9:I:3061:G:N7	11:K:25:LYS:HD2	2.16	0.60
9:I:3407:A:H4'	9:I:3408:C:OP2	2.00	0.60
9:I:3426:A:H2'	9:I:3427:G:H5'	1.82	0.60
9:I:3458:G:H4'	9:I:3459:C:OP2	2.00	0.60
9:I:3478:G:H2'	9:I:3479:C:C6	2.36	0.60
9:I:3572:C:H2'	9:I:3573:U:C6	2.37	0.60
9:I:3664:A:H1'	9:I:3665:A:C8	2.36	0.60
9:I:3815:U:H5'	9:I:3816:A:OP2	2.01	0.60
9:I:3884:U:P	36:l:34:LYS:HD3	2.41	0.60
9:I:3962:A:H2'	9:I:3970:A:N7	2.16	0.60
9:I:4086:G:H2'	9:I:4087:U:O4'	2.01	0.60
9:I:4212:G:H2'	9:I:4341:U:H5''	1.83	0.60
9:I:4425:C:H2'	9:I:4426:U:H6	1.64	0.60
11:K:173:LEU:HD23	11:K:175:LEU:CD2	2.31	0.60
12:L:7:LYS:HZ2	12:L:9:VAL:HA	1.66	0.60
13:M:99:LYS:O	13:M:102:ARG:HB2	2.01	0.60
13:M:113:VAL:CA	13:M:118:LEU:HD11	2.32	0.60
16:R:78:THR:N	16:R:83:GLY:O	2.28	0.60
17:S:24:VAL:HG22	17:S:39:ILE:CG2	2.31	0.60
18:T:127:VAL:H	18:T:132:ARG:HH21	1.49	0.60
19:U:57:VAL:HG23	19:U:58:LYS:O	2.01	0.60
21:W:126:LEU:HB3	21:W:131:ALA:H	1.65	0.60
25:a:25:TYR:HA	25:a:28:ALA:HB3	1.83	0.60
29:e:77:GLU:CA	29:e:80:VAL:HG12	2.27	0.60
31:g:32:VAL:O	31:g:54:VAL:HG13	2.00	0.60
32:h:10:ASP:OD1	32:h:11:HIS:N	2.34	0.60
39:o:49:ILE:O	39:o:95:LYS:NZ	2.33	0.60
40:p:65:ASN:O	40:p:69:ARG:N	2.34	0.60
41:q:3:ALA:HB2	41:q:41:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:w:67:LEU:HD12	47:w:68:ALA:N	2.17	0.60
49:y:30:ARG:O	49:y:33:HIS:N	2.23	0.60
1:A:2:LYS:CB	9:I:1214:G:O3'	2.50	0.60
1:A:12:ARG:HH21	1:A:58:ARG:NH2	1.99	0.60
2:B:11:VAL:HA	2:B:26:VAL:CG2	2.32	0.60
2:B:63:ARG:NE	2:B:87:ARG:HH22	1.95	0.60
8:H:3:ILE:CG1	30:f:99:THR:H	2.12	0.60
9:I:93:G:H1'	9:I:95:U:C5	2.37	0.60
9:I:504:G:H4'	9:I:533:U:C4	2.36	0.60
9:I:586:G:N2	9:I:753:C:OP2	2.29	0.60
9:I:677:U:H4'	9:I:777:G:P	2.42	0.60
9:I:827:U:H2'	21:W:22:PRO:CB	2.31	0.60
9:I:835:G:H1	9:I:849:U:H3	1.48	0.60
9:I:934:A:H1'	9:I:1383:C:N3	2.16	0.60
9:I:1057:G:H2'	9:I:1058:C:C6	2.37	0.60
9:I:1100:A:C8	21:W:168:ILE:HD12	2.35	0.60
9:I:1236:C:O2'	9:I:1334:U:O4'	2.08	0.60
9:I:1346:G:N2	9:I:1373:A:OP2	2.34	0.60
9:I:1376:A:H2'	26:b:6:ILE:CD1	2.31	0.60
9:I:1465:G:N2	9:I:4186:G:H4'	2.14	0.60
9:I:2212:G:N2	9:I:2213:G:H1'	2.17	0.60
9:I:2635:U:H2'	16:R:65:THR:CB	2.27	0.60
9:I:2905:U:H2'	9:I:2906:U:H5'	1.83	0.60
9:I:2930:G:O6	9:I:3050:C:N4	2.34	0.60
9:I:3022:A:C2'	9:I:3023:G:H5'	2.32	0.60
9:I:3065:A:H3'	9:I:3066:A:H8	1.66	0.60
9:I:3254:C:H2'	9:I:3255:C:H5'	1.83	0.60
9:I:3350:U:O2	9:I:3379:A:N6	2.34	0.60
9:I:3784:G:P	9:I:3878:U:H4'	2.41	0.60
9:I:3896:U:O2	9:I:3898:U:H3'	2.01	0.60
9:I:4121:G:N2	9:I:4271:G:N3	2.50	0.60
9:I:4340:G:O2'	9:I:4341:U:H5'	2.01	0.60
10:J:6:G:O2'	38:n:37:GLN:OE1	2.20	0.60
11:K:123:ILE:HG23	11:K:191:LEU:HB2	1.83	0.60
11:K:202:ARG:HD3	11:K:203:VAL:N	2.15	0.60
11:K:260:LYS:HA	11:K:263:ASP:CG	2.26	0.60
13:M:157:LEU:HD11	13:M:169:VAL:HB	1.83	0.60
13:M:176:ASP:CG	13:M:178:VAL:HG22	2.27	0.60
15:O:136:ASP:CG	15:O:139:VAL:H	2.10	0.60
21:W:123:PHE:O	21:W:124:ASP:HB2	2.01	0.60
22:X:91:ALA:HB2	22:X:98:ALA:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:172:VAL:O	22:X:174:LEU:HD12	2.01	0.60
25:a:38:ARG:HD3	25:a:97:THR:HG23	1.82	0.60
25:a:46:GLN:NE2	25:a:56:LYS:HB3	2.17	0.60
25:a:64:VAL:HG21	25:a:71:ILE:CD1	2.31	0.60
26:b:87:PRO:CD	26:b:151:ALA:HA	2.31	0.60
32:h:95:PRO:HA	32:h:108:ARG:CD	2.31	0.60
37:m:5:ALA:HA	37:m:38:GLY:C	2.27	0.60
37:m:19:ARG:HB2	37:m:24:ARG:HE	1.66	0.60
42:r:24:ILE:CA	42:r:27:LYS:HG2	2.31	0.60
46:v:28:VAL:C	46:v:48:THR:HG23	2.26	0.60
46:v:30:GLN:HE21	46:v:47:HIS:HB3	1.65	0.60
47:w:17:ARG:NH1	47:w:18:SER:O	2.34	0.60
1:A:1:ALA:C	1:A:6:LYS:HD3	2.26	0.60
5:E:19:LYS:HG3	30:f:104:ILE:HG13	1.83	0.60
6:F:17:VAL:HG13	6:F:42:MET:CE	2.30	0.60
9:I:235:A:H2'	9:I:236:G:C8	2.35	0.60
9:I:297:A:H2'	9:I:298:G:O4'	2.01	0.60
9:I:305:A:H2'	9:I:306:C:O4'	2.00	0.60
9:I:362:A:H5'	31:g:80:LEU:HD13	1.82	0.60
9:I:519:A:OP1	31:g:47:ALA:HB1	2.02	0.60
9:I:764:G:H3'	9:I:811:G:N2	2.17	0.60
9:I:864:A:O2'	9:I:865:C:H5'	2.02	0.60
9:I:949:U:O2'	9:I:950:G:H5'	2.01	0.60
9:I:1375:U:C6	9:I:1375:U:H3'	2.37	0.60
9:I:1540:U:H2'	9:I:1541:C:H6	1.63	0.60
9:I:1662:U:H4'	9:I:1663:C:C5	2.29	0.60
9:I:1683:C:N4	9:I:1714:G:H1	1.96	0.60
9:I:1837:C:H3'	9:I:1838:G:O4'	2.02	0.60
9:I:2205:A:C2	9:I:2227:A:O4'	2.55	0.60
9:I:2213:G:H2'	9:I:2218:A:N6	2.16	0.60
9:I:2467:A:C5'	9:I:2682:U:H1'	2.32	0.60
9:I:3072:U:O2'	9:I:3073:A:H5'	2.02	0.60
9:I:3756:U:H5'	46:v:31:ARG:NH2	2.15	0.60
9:I:3873:G:O2'	9:I:3874:C:H5'	2.02	0.60
9:I:3959:C:O2	9:I:3959:C:C2'	2.47	0.60
9:I:3992:OMC:CM2	9:I:3993:C:H5'	2.31	0.60
9:I:4342:G:H5''	39:o:93:LYS:HG2	1.84	0.60
10:J:18:C:C2	10:J:19:G:N7	2.69	0.60
10:J:23:G:H1	10:J:58:A:N6	1.99	0.60
10:J:33:A:H4'	10:J:34:C:H5'	1.81	0.60
11:K:137:GLY:HA2	11:K:163:ILE:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:113:SER:H	12:L:168:GLU:N	1.99	0.60
13:M:148:ILE:CD1	13:M:187:VAL:HB	2.32	0.60
14:N:39:VAL:HG22	14:N:41:GLU:CD	2.27	0.60
15:O:51:PHE:CZ	15:O:71:LEU:HD22	2.36	0.60
17:S:8:LEU:HB3	17:S:19:VAL:HG23	1.82	0.60
17:S:64:ARG:HH21	17:S:83:ALA:HB1	1.65	0.60
20:V:30:ARG:NE	20:V:30:ARG:HA	2.16	0.60
20:V:45:ARG:HA	20:V:48:VAL:CG2	2.30	0.60
24:Z:16:VAL:N	24:Z:19:GLY:O	2.31	0.60
25:a:78:PHE:CD1	25:a:84:VAL:HG21	2.36	0.60
27:c:85:TYR:CE1	27:c:123:GLU:HB2	2.36	0.60
34:j:35:LYS:HE2	34:j:46:TYR:CG	2.37	0.60
41:q:5:PHE:CE1	41:q:14:VAL:HG13	2.36	0.60
45:u:2:PHE:CD1	45:u:50:MET:HB3	2.37	0.60
45:u:78:GLN:N	45:u:88:HIS:O	2.32	0.60
2:B:10:ILE:HD11	2:B:33:ALA:CB	2.31	0.60
8:H:36:PHE:CA	30:f:112:PRO:HB3	2.32	0.60
8:H:37:TYR:CE2	9:I:4428:C:H5'	2.37	0.60
9:I:154:A:O2'	9:I:155:C:H5'	2.02	0.60
9:I:246:G:H2'	9:I:247:C:C6	2.36	0.60
9:I:389:U:H2'	9:I:390:G:H8	1.63	0.60
9:I:427:G:H4'	9:I:428:U:OP1	2.00	0.60
9:I:636:C:O2'	9:I:637:U:H5'	2.02	0.60
9:I:1073:G:O2'	9:I:1100:A:N1	2.28	0.60
9:I:1301:C:C5	32:h:16:ILE:HD11	2.36	0.60
9:I:1480:U:H2'	9:I:1481:G:H8	1.65	0.60
9:I:1643:C:H2'	43:s:3:ARG:HH11	1.66	0.60
9:I:1670:U:H2'	9:I:1671:U:H6	1.65	0.60
9:I:1789:G:C2	9:I:1852:A:N1	2.69	0.60
9:I:1846:A:HO2'	9:I:1847:A:P	2.25	0.60
9:I:2000:G:N2	9:I:2005:A:H62	1.99	0.60
9:I:2274:G:C5'	11:K:47:ARG:HH22	2.09	0.60
9:I:2325:A:H2'	9:I:2326:U:H6	1.66	0.60
9:I:2405:A:H2'	19:U:9:PHE:CZ	2.35	0.60
9:I:2544:A:H1'	9:I:4245:G:N2	2.16	0.60
9:I:2805:G:N2	9:I:3097:A:H62	1.96	0.60
9:I:2848:A:N6	9:I:2871:G:H21	1.99	0.60
9:I:2888:U:H2'	9:I:2889:A:O4'	2.00	0.60
9:I:2907:A:N1	9:I:3084:A:N6	2.49	0.60
9:I:2963:A:C2	9:I:2964:A:C5	2.90	0.60
9:I:3209:G:N2	9:I:3237:G:H2'	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3286:G:OP1	11:K:203:VAL:HG13	2.02	0.60
9:I:3298:C:N3	9:I:3308:G:N2	2.50	0.60
9:I:3410:A:H2'	9:I:3411:PSU:O4'	2.02	0.60
9:I:3797:G:H4'	14:N:120:SER:HA	1.84	0.60
9:I:3841:C:N4	9:I:3865:G:H1	1.99	0.60
9:I:3853:C:H2'	9:I:3854:G:C8	2.37	0.60
9:I:3881:U:P	9:I:3882:A:OP2	2.60	0.60
10:J:77:A:C2'	10:J:78:G:C5'	2.79	0.60
10:J:100:A:H2'	10:J:101:G:O4'	2.00	0.60
12:L:66:GLY:CA	12:L:69:ALA:HB3	2.18	0.60
12:L:104:VAL:HG13	12:L:177:VAL:HG11	1.83	0.60
15:O:87:GLN:CG	15:O:164:ALA:HA	2.31	0.60
16:R:15:TRP:CB	16:R:137:PRO:HG3	2.30	0.60
16:R:18:VAL:HG21	16:R:56:VAL:HG22	1.81	0.60
19:U:4:PRO:HD2	19:U:92:TRP:CE2	2.37	0.60
20:V:44:LEU:HA	20:V:47:VAL:CB	2.29	0.60
22:X:192:TYR:HE2	22:X:195:ILE:HD11	1.66	0.60
23:Y:7:LYS:HB3	23:Y:20:LEU:HB3	1.83	0.60
23:Y:10:LEU:HD13	23:Y:62:ARG:CG	2.11	0.60
23:Y:50:TYR:CZ	23:Y:54:LEU:HD21	2.36	0.60
23:Y:66:VAL:HG22	23:Y:96:ARG:CZ	2.32	0.60
26:b:129:ASN:O	26:b:134:VAL:HG21	2.01	0.60
30:f:91:ALA:HB3	30:f:93:PHE:CE2	2.36	0.60
32:h:13:HIS:HB3	32:h:15:VAL:HG22	1.84	0.60
39:o:23:ASP:HA	39:o:89:GLY:N	2.16	0.60
41:q:4:VAL:HG12	41:q:39:LEU:HB2	1.84	0.60
43:s:15:HIS:CE1	43:s:33:LYS:HD3	2.37	0.60
44:t:24:VAL:HG21	44:t:33:VAL:CB	2.28	0.60
49:y:45:GLY:O	49:y:48:ASN:N	2.35	0.60
2:B:28:VAL:HG11	2:B:84:LEU:HD22	1.84	0.60
2:B:47:LYS:HD2	9:I:806:A:O3'	2.00	0.60
4:D:20:VAL:CG2	4:D:58:ILE:HG21	2.29	0.60
5:E:44:ARG:C	5:E:44:ARG:HD3	2.27	0.60
9:I:8:G:OP2	24:Z:117:LYS:HE2	2.02	0.60
9:I:108:A:N3	9:I:108:A:H2'	2.16	0.60
9:I:653:G:H3'	9:I:654:A:H8	1.66	0.60
9:I:664:A:H5'	9:I:732:G:N2	2.17	0.60
9:I:829:G:H5''	21:W:20:TRP:NE1	2.17	0.60
9:I:961:C:H2'	9:I:962:G:H8	1.65	0.60
9:I:1203:A:H2'	9:I:1204:U:O4'	2.01	0.60
9:I:1303:G:C1'	9:I:1332:A:H61	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1384:G:O2'	9:I:1385:G:H5'	2.01	0.60
9:I:1808:G:H2'	9:I:1809:A:N9	2.16	0.60
9:I:2046:U:H2'	9:I:2047:A:C1'	2.31	0.60
9:I:2207:G:H3'	9:I:2208:G:C8	2.31	0.60
9:I:2326:U:H5''	9:I:2327:U:OP2	2.02	0.60
9:I:2346:U:C6	9:I:2347:U:H5''	2.27	0.60
9:I:2533:A:H2	9:I:2610:G:H1	1.50	0.60
9:I:2665:G:C2'	9:I:2666:C:H1'	2.29	0.60
9:I:2778:A:H3'	9:I:2779:A:C8	2.37	0.60
9:I:3051:C:H5''	9:I:3051:C:H6	1.65	0.60
9:I:3139:G:H5''	9:I:3140:C:OP1	2.02	0.60
9:I:3184:A:H3'	9:I:3185:C:C6	2.36	0.60
9:I:3756:U:C6	9:I:3821:A:C2	2.90	0.60
9:I:3955:A:H2'	9:I:3956:C:C6	2.37	0.60
9:I:4420:2MG:HM23	9:I:4422:MA6:OP2	2.00	0.60
10:J:47:U:H5''	38:n:29:ARG:NH1	2.15	0.60
10:J:105:G:H2'	10:J:106:G:N9	2.16	0.60
11:K:245:THR:HG23	11:K:249:VAL:O	2.01	0.60
14:N:7:TYR:O	14:N:11:VAL:HB	2.01	0.60
14:N:68:LYS:HG3	14:N:83:PRO:N	2.16	0.60
15:O:51:PHE:HB3	15:O:64:ALA:HA	1.84	0.60
20:V:15:SER:O	20:V:18:GLN:HB2	2.02	0.60
21:W:54:LEU:CD2	21:W:64:ILE:HD12	2.32	0.60
21:W:125:LYS:C	21:W:126:LEU:HD22	2.27	0.60
22:X:171:ARG:HH12	22:X:173:PRO:HB3	1.67	0.60
24:Z:122:THR:HA	24:Z:127:VAL:HG11	1.84	0.60
30:f:8:VAL:O	30:f:23:THR:N	2.34	0.60
32:h:106:ARG:HH21	32:h:112:ARG:HH12	1.49	0.60
38:n:25:LEU:HD13	38:n:38:VAL:HG23	1.84	0.60
39:o:25:VAL:HG11	39:o:46:VAL:HG23	1.83	0.60
39:o:61:ARG:NH1	39:o:100:ARG:HA	2.16	0.60
41:q:27:ILE:HG22	41:q:28:ALA:H	1.67	0.60
42:r:52:GLU:O	42:r:55:ILE:HB	2.02	0.60
44:t:42:LYS:HD3	44:t:59:GLU:OE2	2.00	0.60
45:u:29:ILE:HD11	45:u:37:PRO:CB	2.32	0.60
46:v:13:VAL:HG11	46:v:59:PHE:CZ	2.30	0.60
2:B:12:SER:HA	2:B:17:ASP:O	2.02	0.60
4:D:33:LYS:CB	4:D:35:ILE:HD11	2.28	0.60
7:G:71:ALA:O	7:G:74:LYS:HG2	2.01	0.60
9:I:159:A:H2'	9:I:160:A:C8	2.36	0.60
9:I:471:U:H2'	9:I:472:U:C6	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:679:C:H2'	9:I:680:A:C8	2.37	0.60
9:I:1376:A:H2'	26:b:6:ILE:HD11	1.84	0.60
9:I:1587:U:H5''	9:I:1588:G:H5'	1.83	0.60
9:I:1812:G:H4'	9:I:1831:C:C2	2.36	0.60
9:I:1913:C:H2'	9:I:1914:C:C6	2.37	0.60
9:I:2447:G:OP1	19:U:18:ARG:NH2	2.33	0.60
9:I:2579:A:O4'	9:I:2599:U:H1'	2.01	0.60
9:I:2622:G:H4'	9:I:2622:G:OP1	2.01	0.60
9:I:2662:G:C2	9:I:2675:U:O2	2.54	0.60
9:I:2789:C:H5''	20:V:71:ARG:CZ	2.31	0.60
9:I:3059:C:C3'	11:K:25:LYS:HZ1	2.14	0.60
9:I:3215:G:H2'	9:I:3232:G:C2	2.36	0.60
9:I:3248:A:N1	9:I:4210:C:O2'	2.34	0.60
9:I:3609:G:OP1	9:I:3660:U:O2'	2.15	0.60
9:I:3693:A:C2'	9:I:3694:C:H5'	2.31	0.60
9:I:3836:C:O5'	9:I:3836:C:H6	1.84	0.60
9:I:3841:C:H1'	34:j:43:HIS:NE2	2.16	0.60
9:I:3908:G:C2	9:I:3909:G:C8	2.90	0.60
9:I:3917:U:H4'	9:I:3918:C:O5'	2.02	0.60
9:I:4154:A:H3'	9:I:4155:G:C8	2.37	0.60
9:I:4188:G:O2'	9:I:4189:U:H5'	2.02	0.60
9:I:4200:A:H5'	9:I:4346:G:P	2.42	0.60
9:I:4239:C:O2	15:O:138:GLN:NE2	2.35	0.60
9:I:4251:A:H2'	9:I:4251:A:N3	2.17	0.60
9:I:4283:C:O2'	9:I:4284:U:H5'	2.01	0.60
10:J:91:C:O3'	45:u:18:ARG:CZ	2.49	0.60
11:K:67:LYS:HD3	11:K:69:ASN:ND2	2.16	0.60
11:K:131:MET:HE2	11:K:188:ARG:CA	2.32	0.60
11:K:159:THR:HG22	11:K:176:ARG:HD3	1.83	0.60
14:N:68:LYS:HA	14:N:83:PRO:HA	1.83	0.60
14:N:79:ARG:HD3	14:N:79:ARG:H	1.66	0.60
26:b:1:PRO:H3	26:b:4:ARG:CZ	2.15	0.60
28:d:27:ILE:HD11	28:d:64:VAL:HG11	1.83	0.60
30:f:63:LYS:HE3	30:f:93:PHE:CZ	2.37	0.60
32:h:17:ALA:CB	32:h:44:ILE:HD11	2.32	0.60
37:m:19:ARG:HB2	37:m:24:ARG:CD	2.32	0.60
39:o:46:VAL:HG11	39:o:49:ILE:CG1	2.32	0.60
41:q:2:TYR:CD1	41:q:13:ARG:HD3	2.36	0.60
41:q:32:THR:HG23	41:q:61:ALA:O	2.01	0.60
41:q:65:ALA:O	41:q:95:ASP:HB2	2.02	0.60
42:r:77:ASP:HB2	42:r:102:HIS:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:s:83:ALA:HB1	43:s:85:VAL:HG22	1.83	0.60
47:w:29:LEU:HD12	47:w:30:PRO:CD	2.29	0.60
49:y:26:LEU:CG	49:y:46:MET:HE2	2.29	0.60
5:E:44:ARG:CD	9:I:673:G:H5'	2.30	0.60
9:I:392:A:N3	9:I:392:A:H2'	2.15	0.60
9:I:587:G:H3'	9:I:588:U:C6	2.37	0.60
9:I:620:A:H2'	9:I:621:A:C8	2.37	0.60
9:I:676:U:C2'	9:I:677:U:H5'	2.31	0.60
9:I:827:U:H2'	21:W:22:PRO:HB3	1.83	0.60
9:I:929:C:H2'	9:I:930:C:O4'	2.02	0.60
9:I:1052:G:N7	9:I:1198:U:H3'	2.16	0.60
9:I:1097:C:C2'	9:I:1098:G:H5'	2.31	0.60
9:I:1603:A:C2'	9:I:1604:A:H5'	2.32	0.60
9:I:1719:A:H3'	9:I:1720:G:C8	2.36	0.60
9:I:1981:G:O2'	9:I:2007:A:N6	2.35	0.60
9:I:2081:C:H2'	9:I:2082:A:H8	1.67	0.60
9:I:2117:G:OP1	13:M:199:MET:HE3	2.01	0.60
9:I:2361:A:H2'	9:I:2362:G:O4'	2.02	0.60
9:I:2605:A:H4'	9:I:2606:G:OP1	2.02	0.60
9:I:2619:G:C3'	9:I:2620:A:H2'	2.22	0.60
9:I:2646:C:C5'	40:p:79:ILE:HB	2.32	0.60
9:I:2704:G:H4'	9:I:2705:C:C5'	2.30	0.60
9:I:2790:G:O2'	9:I:2791:C:O5'	2.20	0.60
9:I:2801:A:N6	9:I:3100:C:O2	2.35	0.60
9:I:2803:G:O2'	9:I:2804:G:H5'	2.02	0.60
9:I:2916:G:C6	9:I:3070:U:O2	2.52	0.60
9:I:2984:A:H61	11:K:96:LYS:CD	2.15	0.60
9:I:3169:C:H2'	9:I:3170:A:O4'	2.02	0.60
9:I:3182:U:O2	9:I:3194:A:H5''	2.01	0.60
9:I:3293:G:HO2'	11:K:179:GLU:CD	2.03	0.60
9:I:3508:A:O2'	9:I:3509:A:O4'	2.14	0.60
9:I:3586:U:H4'	9:I:3587:G:O2'	2.02	0.60
9:I:3774:G:O2'	9:I:3821:A:O5'	2.20	0.60
9:I:3795:C:H3'	9:I:3796:U:C5	2.37	0.60
9:I:3818:U:H5'	9:I:3831:G:C5'	2.32	0.60
9:I:3883:G:HO2'	9:I:3884:U:P	2.23	0.60
9:I:3950:C:H2'	9:I:3951:PSU:C6	2.37	0.60
9:I:3992:OMC:OP2	9:I:3992:OMC:H3'	2.01	0.60
9:I:4218:U:H2'	9:I:4219:A:N7	2.15	0.60
9:I:4318:C:H2'	9:I:4319:G:O4'	2.02	0.60
10:J:48:C:P	38:n:101:ARG:HH21	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:52:A:O2'	10:J:53:G:H5'	2.02	0.60
10:J:76:U:N3	10:J:77:A:C4	2.70	0.60
11:K:140:VAL:HG23	11:K:191:LEU:HD13	1.82	0.60
11:K:144:GLU:HG2	11:K:150:GLY:CA	2.31	0.60
13:M:112:LEU:HB3	13:M:118:LEU:CD2	2.30	0.60
14:N:110:ILE:HG13	14:N:136:ILE:HD12	1.84	0.60
15:O:34:ARG:HE	15:O:70:LEU:CD2	2.14	0.60
17:S:66:LYS:N	17:S:82:ASN:OD1	2.35	0.60
17:S:105:ARG:HE	17:S:122:VAL:HG22	1.67	0.60
19:U:96:ILE:HA	19:U:100:LYS:CD	2.32	0.60
22:X:149:LYS:NZ	22:X:168:ARG:HH21	2.00	0.60
23:Y:60:VAL:HG21	23:Y:199:ILE:HD11	1.84	0.60
23:Y:71:PHE:HE1	23:Y:93:LEU:HD11	1.66	0.60
24:Z:121:SER:O	24:Z:127:VAL:HG12	2.02	0.60
31:g:65:TYR:CD1	31:g:86:VAL:HG21	2.36	0.60
32:h:12:LYS:HB3	32:h:16:ILE:HD13	1.83	0.60
32:h:39:ALA:HB3	32:h:42:VAL:HG13	1.84	0.60
36:l:47:ALA:C	36:l:48:MET:HE2	2.26	0.60
38:n:25:LEU:CB	38:n:89:VAL:HB	2.27	0.60
40:p:50:ARG:HD3	40:p:53:LYS:HZ3	1.63	0.60
48:x:1:LYS:CE	48:x:52:VAL:HG23	2.31	0.60
49:y:22:THR:C	49:y:46:MET:HE3	2.27	0.60
1:A:71:GLY:HA3	1:A:80:ARG:CB	2.32	0.59
6:F:16:LYS:HD3	6:F:29:LEU:CD2	2.19	0.59
9:I:183:G:O2'	9:I:184:U:H5'	2.02	0.59
9:I:426:U:O5'	9:I:427:G:H2'	2.01	0.59
9:I:518:C:OP2	31:g:46:SER:OG	2.19	0.59
9:I:729:G:C5	9:I:730:G:H1'	2.37	0.59
9:I:781:A:H61	9:I:799:G:H2'	1.66	0.59
9:I:817:G:O2'	9:I:818:A:H5'	2.02	0.59
9:I:924:G:O2'	9:I:4406:A:H1'	2.02	0.59
9:I:1194:C:O3'	9:I:1196:A:H5'	2.01	0.59
9:I:1444:U:O2	9:I:4360:A:N6	2.35	0.59
9:I:1899:U:O2'	9:I:1900:G:O4'	2.18	0.59
9:I:1959:U:O2'	9:I:1960:A:H5'	2.01	0.59
9:I:2074:A:H1'	9:I:3549:C:H5	1.67	0.59
9:I:2229:G:C2	9:I:3269:U:C1'	2.84	0.59
9:I:2378:A:C2	9:I:2394:A:H1'	2.37	0.59
9:I:2683:A:C2	9:I:2684:G:H1'	2.36	0.59
9:I:2700:G:C2	9:I:2734:U:O2	2.54	0.59
9:I:2900:U:C2'	9:I:2901:G:C8	2.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3028:U:H2'	9:I:3030:C:N3	2.16	0.59
9:I:3063:A:H3'	9:I:3064:A:H8	1.67	0.59
9:I:3318:G:H2'	9:I:3319:U:C6	2.37	0.59
9:I:3433:5MU:H3'	9:I:3434:U:C5'	2.32	0.59
9:I:3547:G:O2'	9:I:3548:A:H5'	2.02	0.59
9:I:3586:U:H1'	9:I:3587:G:O4'	1.99	0.59
9:I:3864:G:C2'	9:I:3865:G:O4'	2.50	0.59
9:I:3983:U:H2'	9:I:3984:G:O4'	2.02	0.59
9:I:4154:A:H3'	9:I:4155:G:H8	1.66	0.59
9:I:4271:G:H5''	9:I:4272:A:OP1	2.02	0.59
9:I:4308:A:H2'	9:I:4309:C:C6	2.37	0.59
9:I:4325:G:C2'	9:I:4326:U:OP2	2.50	0.59
10:J:54:U:H4'	14:N:23:SER:OG	2.02	0.59
10:J:82:G:O2'	49:y:52:PHE:HB2	2.01	0.59
14:N:30:VAL:HA	14:N:168:LEU:CD2	2.27	0.59
16:R:55:ILE:CD1	16:R:123:LYS:HD2	2.32	0.59
17:S:58:LEU:HD11	17:S:86:LEU:CD1	2.31	0.59
17:S:71:ARG:HB3	17:S:72:PRO:HD3	1.84	0.59
18:T:98:ALA:O	18:T:100:ILE:HG23	2.02	0.59
18:T:132:ARG:HH22	18:T:142:ILE:HG21	1.66	0.59
19:U:34:LYS:HD3	45:u:81:PRO:O	2.02	0.59
20:V:86:ARG:HE	20:V:117:ASP:HB3	1.66	0.59
21:W:91:HIS:HB2	21:W:143:ASN:O	2.01	0.59
22:X:146:LYS:HE3	22:X:204:GLY:HA2	1.84	0.59
24:Z:76:VAL:HG12	24:Z:87:MET:SD	2.41	0.59
26:b:69:ARG:HD2	26:b:99:ALA:HB2	1.84	0.59
32:h:13:HIS:CE1	32:h:41:ASP:HA	2.37	0.59
37:m:9:LYS:NZ	37:m:11:CYS:O	2.26	0.59
39:o:53:GLY:N	39:o:56:SER:OG	2.35	0.59
40:p:54:ARG:C	40:p:57:ARG:HG2	2.27	0.59
42:r:109:ASP:OD1	42:r:110:ARG:N	2.35	0.59
43:s:33:LYS:HZ1	43:s:80:TRP:HB2	1.66	0.59
1:A:2:LYS:C	9:I:1215:A:H5'	2.27	0.59
2:B:42:PHE:CE2	2:B:55:LEU:HB2	2.37	0.59
2:B:61:GLN:HA	2:B:64:LYS:HE3	1.84	0.59
2:B:63:ARG:HH12	9:I:2215:A:P	2.24	0.59
5:E:10:LEU:HB3	5:E:49:LEU:HD11	1.84	0.59
6:F:40:PRO:HG3	6:F:65:VAL:CG1	2.32	0.59
7:G:21:SER:HB3	9:I:4363:G:OP2	2.01	0.59
9:I:129:A:N1	9:I:232:C:H1'	2.16	0.59
9:I:550:U:H2'	9:I:551:U:O4'	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:674:A:N3	30:f:105:PRO:HA	2.17	0.59
9:I:743:C:H2'	9:I:743:C:O2	2.00	0.59
9:I:1354:G:H2'	9:I:1355:G:H8	1.66	0.59
9:I:1581:G:H3'	9:I:1582:U:H6	1.67	0.59
9:I:1582:U:C3'	9:I:1601:A:H62	2.13	0.59
9:I:1605:C:C2	9:I:1606:C:C5	2.91	0.59
9:I:1610:G:N1	9:I:1611:A:N7	2.51	0.59
9:I:1777:G:H4'	9:I:1778:A:C5	2.37	0.59
9:I:1787:G:C2	9:I:1788:U:O4'	2.55	0.59
9:I:1792:U:H2'	9:I:1793:U:H6	1.67	0.59
9:I:1833:G:H2'	9:I:1834:C:H6	1.62	0.59
9:I:1902:A:H2'	9:I:1903:U:O4'	2.02	0.59
9:I:2082:A:O3'	40:p:10:ARG:NH1	2.35	0.59
9:I:2638:A:H3'	9:I:2639:C:H5	1.67	0.59
9:I:2835:G:H1'	43:s:59:ASN:HB2	1.84	0.59
9:I:2893:C:C2	9:I:2894:U:C5	2.90	0.59
9:I:2923:G:H2'	9:I:2924:G:C8	2.34	0.59
9:I:2926:G:H2'	9:I:2927:A:O4'	2.02	0.59
9:I:2937:U:H2'	9:I:2938:G:C8	2.37	0.59
9:I:2993:C:N4	9:I:2994:G:O6	2.34	0.59
9:I:3066:A:H5''	9:I:3067:G:OP2	2.01	0.59
9:I:3210:U:N3	9:I:3238:A:N6	2.19	0.59
9:I:3304:A:H2'	9:I:3305:G:O4'	2.02	0.59
9:I:3435:C:H41	9:I:3459:C:C1'	1.95	0.59
9:I:3515:C:P	33:i:8:THR:HG21	2.42	0.59
9:I:3532:G:H2'	9:I:3533:U:C6	2.36	0.59
9:I:3678:A:H2'	9:I:3679:U:H6	1.67	0.59
9:I:3816:A:H61	9:I:3829:A:H61	1.50	0.59
9:I:3870:A:C4	9:I:3871:A:H1'	2.36	0.59
9:I:3874:C:C3'	9:I:3875:A:C8	2.85	0.59
9:I:3894:G:H2'	9:I:3895:U:O4'	2.02	0.59
9:I:3961:C:H2'	9:I:3962:A:C8	2.37	0.59
9:I:4064:G:C2'	9:I:4065:U:O5'	2.50	0.59
9:I:4207:U:H3'	9:I:4208:G:C5'	2.30	0.59
9:I:4319:G:H5''	9:I:4320:A:OP2	2.01	0.59
10:J:35:C:O5'	10:J:36:C:H5	1.84	0.59
13:M:103:GLY:O	13:M:106:LYS:HB2	2.02	0.59
16:R:119:PHE:CD1	16:R:122:LEU:HD22	2.36	0.59
16:R:125:TYR:CG	16:R:130:HIS:HB3	2.37	0.59
27:c:54:THR:C	27:c:55:LYS:HD3	2.27	0.59
28:d:36:PHE:HE1	28:d:69:ILE:HD13	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:e:49:ILE:HG21	29:e:57:ALA:HB1	1.84	0.59
30:f:47:THR:O	30:f:50:ALA:HB3	2.02	0.59
37:m:23:ILE:H	37:m:37:GLN:HB2	1.65	0.59
38:n:40:ALA:H	38:n:47:LEU:CD2	2.15	0.59
39:o:20:ARG:O	39:o:46:VAL:HB	2.02	0.59
41:q:40:MET:C	41:q:41:ILE:HG13	2.27	0.59
43:s:32:LEU:O	43:s:34:VAL:HG13	2.02	0.59
49:y:5:LYS:HZ3	49:y:36:GLU:HB2	1.66	0.59
3:C:3:THR:O	3:C:22:ALA:N	2.35	0.59
4:D:8:ARG:O	4:D:21:ALA:N	2.35	0.59
4:D:43:VAL:HG11	4:D:72:LEU:CB	2.28	0.59
9:I:438:U:O2	9:I:438:U:H2'	2.02	0.59
9:I:503:C:H5''	9:I:504:G:OP1	2.02	0.59
9:I:1062:C:O5'	9:I:1063:G:H2'	2.02	0.59
9:I:1390:U:H2'	9:I:1391:G:H8	1.67	0.59
9:I:1489:A:H1'	9:I:1490:G:C4	2.38	0.59
9:I:1576:C:O2'	48:x:51:ARG:HG2	2.00	0.59
9:I:1798:G:H1'	9:I:1840:A:H61	1.66	0.59
9:I:1825:G:H2'	9:I:1826:G:H8	1.65	0.59
9:I:1875:G:H2'	9:I:1876:G:H5'	1.84	0.59
9:I:1952:G:H2'	9:I:1953:A:C8	2.37	0.59
9:I:2026:A:H5''	9:I:2027:C:OP1	2.02	0.59
9:I:2147:G:C6	9:I:2148:G:C6	2.91	0.59
9:I:2346:U:H6	9:I:2347:U:C5'	2.13	0.59
9:I:2368:U:H2'	9:I:2369:G:C1'	2.31	0.59
9:I:2858:G:H3'	47:w:1:SER:CB	2.32	0.59
9:I:3006:C:C2'	9:I:3007:U:O4'	2.50	0.59
9:I:3038:A:C4	9:I:3039:A:C8	2.90	0.59
9:I:3062:G:N7	11:K:27:LYS:HE3	2.17	0.59
9:I:3234:G:O2'	9:I:3235:C:O4'	2.19	0.59
9:I:3291:G:H5''	11:K:270:ARG:HH12	1.66	0.59
9:I:3406:A:N6	9:I:3412:A:O4'	2.35	0.59
9:I:3762:A:H5'	9:I:3763:G:OP1	2.02	0.59
9:I:3820:C:C1'	9:I:3821:A:N7	2.62	0.59
9:I:3958:G:C4	9:I:3959:C:C6	2.91	0.59
10:J:13:U:H1'	10:J:106:G:O2'	2.02	0.59
10:J:28:A:H62	38:n:32:ARG:NH2	2.01	0.59
11:K:51:ARG:O	11:K:52:HIS:HB2	2.03	0.59
14:N:35:LEU:HG	14:N:153:ILE:CG2	2.32	0.59
17:S:20:MET:HB2	17:S:44:LYS:HE3	1.84	0.59
21:W:126:LEU:HG	21:W:131:ALA:CA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:127:THR:O	21:W:127:THR:HG22	2.02	0.59
22:X:116:ALA:HB1	22:X:186:SER:CB	2.33	0.59
26:b:68:VAL:HG11	26:b:133:ALA:CB	2.32	0.59
26:b:89:GLU:OE2	26:b:95:ARG:NH2	2.36	0.59
27:c:110:MET:HG3	27:c:114:ALA:HB3	1.84	0.59
31:g:62:VAL:HG21	31:g:94:TYR:CE2	2.37	0.59
38:n:3:LYS:CD	38:n:6:ARG:HH22	2.15	0.59
39:o:27:VAL:HG21	39:o:73:PHE:CG	2.37	0.59
40:p:60:TRP:HB3	40:p:64:ILE:HD11	1.84	0.59
40:p:77:LYS:O	40:p:116:LEU:HD13	2.02	0.59
41:q:1:MET:CG	41:q:43:ASN:HB2	2.33	0.59
42:r:69:LEU:HA	42:r:108:SER:O	2.02	0.59
44:t:4:ILE:C	44:t:5:ARG:HG3	2.27	0.59
47:w:55:MET:HA	47:w:58:ILE:HB	1.84	0.59
49:y:33:HIS:CD2	49:y:34:THR:H	2.20	0.59
1:A:9:GLU:OE2	9:I:980:U:H5''	2.03	0.59
1:A:20:PHE:CD2	1:A:55:SER:HA	2.37	0.59
1:A:88:MET:HG3	9:I:1058:C:H4'	1.83	0.59
2:B:16:ARG:O	2:B:17:ASP:HB3	2.01	0.59
3:C:70:ARG:NE	9:I:375:G:OP2	2.35	0.59
4:D:17:SER:HB3	9:I:272:U:C4'	2.33	0.59
8:H:12:ASP:HB2	30:f:89:ASN:ND2	2.17	0.59
9:I:529:G:N2	9:I:529:G:OP2	2.35	0.59
9:I:874:U:H1'	27:c:15:ASN:OD1	2.02	0.59
9:I:1303:G:C2'	9:I:1332:A:H61	2.14	0.59
9:I:1342:G:H1'	28:d:120:ARG:CZ	2.32	0.59
9:I:1376:A:H4'	9:I:1377:C:H5	1.64	0.59
9:I:1593:G:H2'	9:I:1594:A:C5'	2.33	0.59
9:I:1598:G:O2'	9:I:1599:U:H5'	2.01	0.59
9:I:1728:C:N4	9:I:1910:G:H21	1.98	0.59
9:I:1797:G:H5''	44:t:85:ARG:CA	2.33	0.59
9:I:1804:U:O2'	9:I:1805:C:O5'	2.20	0.59
9:I:1987:C:O2'	42:r:53:SER:OG	2.11	0.59
9:I:2032:A:C4	9:I:3515:C:H5	2.20	0.59
9:I:2129:G:H5''	9:I:2150:C:O2'	2.01	0.59
9:I:2211:G:C6	9:I:2220:U:O2	2.55	0.59
9:I:2405:A:N1	9:I:3771:G:O2'	2.34	0.59
9:I:2998:A:C2	9:I:2999:A:C8	2.90	0.59
9:I:2999:A:H2'	9:I:3000:U:H5'	1.83	0.59
9:I:3315:A:H5'	11:K:156:SER:HB2	1.83	0.59
9:I:3321:U:C2	9:I:3322:G:C8	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3568:U:O2'	9:I:3569:U:H5'	2.01	0.59
9:I:3881:U:OP2	9:I:3881:U:H6	1.84	0.59
9:I:4023:G:C4'	15:O:174:LYS:HA	2.29	0.59
9:I:4202:G:H2'	9:I:4203:G:H8	1.65	0.59
9:I:4282:C:C2'	9:I:4283:C:O4'	2.49	0.59
10:J:56:A:O4'	14:N:26:GLN:HB2	2.02	0.59
10:J:110:U:C2'	10:J:111:G:C8	2.85	0.59
10:J:115:G:H2'	10:J:116:G:C8	2.35	0.59
11:K:144:GLU:CB	11:K:188:ARG:H	2.13	0.59
14:N:136:ILE:HD11	14:N:137:PHE:CE1	2.38	0.59
15:O:34:ARG:HH21	15:O:70:LEU:HD21	1.66	0.59
22:X:149:LYS:HD2	22:X:166:TRP:HB2	1.84	0.59
24:Z:2:LEU:HB3	24:Z:4:GLU:CD	2.27	0.59
24:Z:73:GLN:HG2	24:Z:141:PRO:CD	2.31	0.59
26:b:139:ASP:OD1	26:b:142:ARG:NH1	2.34	0.59
30:f:19:ILE:CG2	30:f:34:THR:HG22	2.32	0.59
32:h:32:ILE:CD1	32:h:58:GLU:HG2	2.31	0.59
38:n:25:LEU:CB	38:n:38:VAL:HG22	2.29	0.59
46:v:37:ALA:HB1	46:v:41:VAL:C	2.28	0.59
3:C:68:SER:HB3	3:C:71:VAL:CB	2.32	0.59
8:H:11:PHE:HB3	30:f:89:ASN:HA	1.85	0.59
9:I:104:G:H2'	9:I:105:C:H6	1.60	0.59
9:I:528:G:O2'	9:I:532:A:N6	2.35	0.59
9:I:641:A:H3'	9:I:642:C:C6	2.37	0.59
9:I:695:A:C2	9:I:796:C:H1'	2.37	0.59
9:I:938:G:H2'	9:I:939:C:C6	2.38	0.59
9:I:1074:U:OP1	21:W:99:THR:HB	2.03	0.59
9:I:1708:C:H2'	9:I:1709:C:H6	1.67	0.59
9:I:1728:C:H4'	9:I:1729:C:H5''	1.85	0.59
9:I:1768:C:H2'	9:I:1768:C:O2	2.01	0.59
9:I:1836:C:O2'	9:I:1837:C:H5'	2.02	0.59
9:I:1896:G:O5'	47:w:9:LYS:NZ	2.35	0.59
9:I:2145:C:H41	9:I:3844:C:C4'	2.15	0.59
9:I:2213:G:C2'	9:I:2218:A:H61	2.15	0.59
9:I:2350:U:C3'	9:I:2351:C:H6	2.15	0.59
9:I:2902:G:O2'	9:I:2903:U:H5'	2.01	0.59
9:I:2970:U:H5''	9:I:3226:C:C5	2.37	0.59
9:I:3121:G:C4	9:I:3134:A:N1	2.70	0.59
9:I:3311:G:H2'	9:I:3311:G:N3	2.15	0.59
9:I:3692:A:O2'	9:I:3693:A:C8	2.55	0.59
9:I:3780:G:H5'	34:j:27:LYS:CE	2.24	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3796:U:O2'	14:N:123:GLY:N	2.35	0.59
9:I:3953:A:C2'	9:I:3954:U:H5'	2.31	0.59
9:I:3977:C:H2'	9:I:3978:G:O4'	2.01	0.59
10:J:32:G:N3	10:J:34:C:H5	2.00	0.59
10:J:111:G:H3'	10:J:112:C:H6	1.68	0.59
11:K:182:LYS:HG3	11:K:265:PHE:O	2.02	0.59
12:L:50:VAL:O	12:L:79:LEU:CA	2.47	0.59
15:O:34:ARG:HE	15:O:70:LEU:HD22	1.66	0.59
15:O:68:ARG:NH2	15:O:69:ALA:HB2	2.17	0.59
17:S:21:CYS:SG	17:S:39:ILE:HD12	2.43	0.59
19:U:36:VAL:HB	45:u:82:TYR:CD2	2.37	0.59
20:V:36:THR:O	20:V:111:ALA:HB3	2.03	0.59
23:Y:104:MET:CE	23:Y:179:GLY:HA3	2.32	0.59
26:b:30:MET:HE3	26:b:33:GLY:CA	2.32	0.59
28:d:36:PHE:CE1	28:d:69:ILE:HG23	2.37	0.59
35:k:43:THR:OG1	35:k:44:VAL:N	2.35	0.59
39:o:16:VAL:HG13	39:o:17:PRO:HD2	1.84	0.59
39:o:90:ALA:CB	39:o:112:ARG:HB2	2.31	0.59
41:q:5:PHE:CB	41:q:37:GLU:O	2.50	0.59
45:u:78:GLN:CB	45:u:87:GLN:HB2	2.32	0.59
45:u:78:GLN:CG	45:u:88:HIS:HB3	2.32	0.59
47:w:34:SER:OG	47:w:49:ARG:HA	2.01	0.59
47:w:38:TRP:HA	47:w:45:PHE:CD1	2.37	0.59
1:A:3:GLN:HG3	9:I:1214:G:C2'	2.32	0.59
8:H:39:LYS:HG2	9:I:4428:C:H5''	1.85	0.59
9:I:8:G:C4'	24:Z:100:GLY:H	2.15	0.59
9:I:14:G:H1'	24:Z:15:THR:OG1	2.03	0.59
9:I:382:A:H2'	9:I:383:G:H5'	1.84	0.59
9:I:947:C:C5'	9:I:1305:A:H4'	2.08	0.59
9:I:957:A:H1'	9:I:984:C:O2'	2.01	0.59
9:I:1476:C:C4'	20:V:90:ARG:CZ	2.81	0.59
9:I:1578:U:H2'	9:I:1579:C:C6	2.38	0.59
9:I:2200:G:O2'	9:I:2201:G:H5'	2.03	0.59
9:I:2401:G:H2'	9:I:2402:C:O4'	2.02	0.59
9:I:2586:C:H2'	9:I:2587:G:O4'	2.02	0.59
9:I:2596:C:H5''	37:m:12:ARG:CZ	2.33	0.59
9:I:2913:A:OP2	9:I:2913:A:H2'	2.02	0.59
9:I:2925:A:H2'	9:I:2926:G:C8	2.37	0.59
9:I:3011:G:C2	9:I:3012:C:C6	2.90	0.59
9:I:3081:G:H2'	9:I:3082:G:N7	2.16	0.59
9:I:3225:G:H2'	9:I:3226:C:O5'	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3251:A:HB3'	9:I:3252:U:C5'	2.33	0.59
9:I:3966:G:H5''	9:I:3967:U:H5''	1.85	0.59
9:I:4148:A:H4'	9:I:4149:G:OP1	2.03	0.59
9:I:4201:U:C2'	9:I:4202:G:C8	2.86	0.59
9:I:4212:G:O2'	39:o:94:ALA:HB3	2.03	0.59
10:J:25:C:H3'	10:J:26:C:C5	2.37	0.59
10:J:98:A:C2'	10:J:99:G:C8	2.85	0.59
10:J:105:G:C2'	10:J:106:G:C8	2.86	0.59
11:K:3:VAL:HG22	11:K:17:LYS:O	2.02	0.59
11:K:159:THR:CG2	11:K:176:ARG:HD3	2.33	0.59
12:L:170:VAL:HG21	12:L:194:PRO:CB	2.32	0.59
13:M:35:TYR:HD1	13:M:178:VAL:HG11	1.66	0.59
13:M:94:GLN:NE2	13:M:95:LYS:O	2.36	0.59
15:O:51:PHE:HB3	15:O:64:ALA:C	2.27	0.59
15:O:132:LEU:HD11	15:O:140:ILE:HB	1.83	0.59
17:S:43:ILE:HB	17:S:56:ASP:O	2.02	0.59
19:U:53:MET:HE3	19:U:103:TYR:CD2	2.38	0.59
20:V:15:SER:HA	20:V:18:GLN:CD	2.28	0.59
20:V:19:ALA:HA	20:V:22:ARG:HD3	1.83	0.59
21:W:16:GLN:HB2	21:W:19:TYR:HD2	1.68	0.59
23:Y:49:ASP:O	23:Y:53:GLN:HG3	2.03	0.59
23:Y:67:LEU:HB2	23:Y:70:GLN:NE2	2.18	0.59
23:Y:90:LEU:HD11	23:Y:196:GLU:CB	2.33	0.59
23:Y:167:PRO:CB	23:Y:170:LEU:HD12	2.32	0.59
25:a:81:ASN:CB	25:a:84:VAL:HG12	2.30	0.59
27:c:19:ALA:HB3	27:c:21:LYS:NZ	2.18	0.59
27:c:83:ARG:O	27:c:84:ILE:HD13	2.02	0.59
31:g:73:LEU:HD21	31:g:102:ASP:O	2.02	0.59
32:h:17:ALA:HB3	32:h:44:ILE:HD11	1.85	0.59
32:h:39:ALA:HB3	32:h:42:VAL:CG2	2.32	0.59
32:h:106:ARG:O	32:h:110:GLY:N	2.35	0.59
33:i:40:HIS:HA	33:i:48:TYR:OH	2.01	0.59
38:n:29:ARG:HH21	38:n:102:VAL:H	1.48	0.59
39:o:47:ILE:HG22	39:o:99:LEU:CD1	2.32	0.59
39:o:61:ARG:HD2	39:o:100:ARG:HD3	1.85	0.59
43:s:56:GLU:HG3	43:s:88:LYS:CE	2.32	0.59
46:v:27:ILE:HB	46:v:49:LEU:O	2.03	0.59
48:x:1:LYS:HZ1	48:x:52:VAL:HG23	1.68	0.59
48:x:33:SER:C	48:x:35:GLN:HG3	2.27	0.59
9:I:6:A:H2'	24:Z:115:LEU:HD21	1.84	0.59
9:I:124:U:H2'	9:I:125:G:C8	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:247:C:C1'	9:I:281:A:H2	2.16	0.59
9:I:574:G:O2'	9:I:820:G:H5''	2.02	0.59
9:I:712:G:H21	9:I:776:A:C1'	2.15	0.59
9:I:828:G:H22	9:I:857:G:H1'	1.66	0.59
9:I:1632:G:H2'	9:I:1633:U:C6	2.38	0.59
9:I:1969:G:O2'	9:I:1970:A:O5'	2.18	0.59
9:I:2072:A:C2	9:I:3527:A:C2	2.91	0.59
9:I:2357:G:HO2'	9:I:2358:G:P	2.22	0.59
9:I:2626:U:H4'	16:R:75:TYR:CZ	2.37	0.59
9:I:2667:U:H2'	9:I:2670:U:C2	2.38	0.59
9:I:2700:G:H22	9:I:2734:U:H2'	1.67	0.59
9:I:2792:C:C2	9:I:3137:G:N2	2.71	0.59
9:I:2888:U:H4'	9:I:3097:A:H5''	1.83	0.59
9:I:2974:C:O2'	9:I:2975:U:H5'	2.03	0.59
9:I:3045:A:H2'	9:I:3046:A:O4'	2.01	0.59
9:I:3066:A:N3	9:I:3066:A:H2'	2.16	0.59
9:I:3089:C:H2'	9:I:3090:A:H8	1.68	0.59
9:I:3123:U:O4	9:I:3124:A:N6	2.35	0.59
9:I:3248:A:H2'	9:I:3249:A:C8	2.38	0.59
9:I:3966:G:C6	9:I:3969:C:C6	2.91	0.59
9:I:4031:U:C2	9:I:4032:C:C5	2.91	0.59
9:I:4233:U:H3'	9:I:4257:G:C6	2.38	0.59
9:I:4244:A:OP2	15:O:1:SER:HB2	2.03	0.59
9:I:4428:C:H5''	30:f:110:ARG:NH1	2.17	0.59
11:K:143:VAL:H	11:K:153:LEU:N	1.96	0.59
12:L:172:VAL:CG2	12:L:194:PRO:HG2	2.28	0.59
13:M:143:LEU:HD11	13:M:187:VAL:HG21	1.83	0.59
13:M:157:LEU:HD21	13:M:169:VAL:HG12	1.83	0.59
15:O:21:GLN:HA	15:O:36:LEU:HB3	1.82	0.59
15:O:132:LEU:O	15:O:132:LEU:HD12	2.02	0.59
16:R:16:TYR:CE2	16:R:52:ASP:CB	2.81	0.59
16:R:16:TYR:CE1	16:R:138:GLN:HG2	2.37	0.59
17:S:58:LEU:CD1	17:S:86:LEU:HD13	2.31	0.59
18:T:1:MET:HE1	18:T:5:THR:HB	1.85	0.59
21:W:12:HIS:HB3	21:W:40:LEU:HD21	1.85	0.59
23:Y:56:GLU:CG	23:Y:195:ASN:HB2	2.26	0.59
25:a:38:ARG:CG	25:a:97:THR:HG23	2.32	0.59
25:a:70:VAL:HA	25:a:73:GLU:CD	2.28	0.59
28:d:11:SER:OG	28:d:67:GLY:HA2	2.03	0.59
29:e:26:LYS:HB3	29:e:32:VAL:HG21	1.84	0.59
29:e:66:HIS:C	29:e:67:LEU:HD22	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:l:26:ALA:O	36:l:27:ASN:HB3	2.02	0.59
37:m:25:VAL:HB	37:m:35:GLN:N	2.18	0.59
38:n:81:ALA:O	38:n:86:ILE:N	2.36	0.59
41:q:1:MET:CE	41:q:101:ILE:HG13	2.31	0.59
44:t:47:PRO:HB3	44:t:54:PRO:C	2.27	0.59
45:u:6:ALA:HB2	45:u:42:LEU:HD21	1.85	0.59
46:v:25:SER:N	46:v:51:ALA:O	2.35	0.59
2:B:4:THR:HA	2:B:7:THR:OG1	2.03	0.59
9:I:510:C:H1'	23:Y:40:HIS:NE2	2.17	0.59
9:I:755:C:O2'	9:I:756:U:H5'	2.03	0.59
9:I:1218:A:H2'	9:I:1219:G:C8	2.37	0.59
9:I:1508:C:O2'	9:I:1509:G:H5'	2.03	0.59
9:I:1528:A:C2'	9:I:1529:U:O5'	2.50	0.59
9:I:1530:G:O2'	9:I:1531:C:H5'	2.03	0.59
9:I:1593:G:O2'	9:I:1594:A:H5'	2.02	0.59
9:I:2752:U:H2'	9:I:2753:G:C8	2.32	0.59
9:I:2911:C:P	9:I:3081:G:H21	2.25	0.59
9:I:2986:G:H3'	9:I:2987:C:H5'	1.84	0.59
9:I:3011:G:C2	9:I:3226:C:H5'	2.38	0.59
9:I:3292:U:P	11:K:269:ARG:HH21	2.25	0.59
9:I:3370:A:H3'	9:I:3371:A:H8	1.66	0.59
9:I:3691:U:O4	9:I:3718:G:H3'	2.02	0.59
9:I:3780:G:H21	9:I:3781:A:N6	2.01	0.59
9:I:3840:A:C6	9:I:3877:G:C6	2.91	0.59
9:I:4130:C:H4'	12:L:38:LYS:HZ2	1.68	0.59
9:I:4274:G:OP2	16:R:120:ARG:NE	2.36	0.59
11:K:95:TYR:CE2	11:K:100:ARG:O	2.56	0.59
12:L:96:ILE:HG22	12:L:97:SER:O	2.02	0.59
12:L:114:LYS:O	12:L:116:LYS:HG2	2.03	0.59
16:R:4:PHE:HA	40:p:100:PHE:HZ	1.68	0.59
16:R:140:LEU:HG	16:R:141:ASP:N	2.17	0.59
19:U:52:ALA:HB3	19:U:120:ALA:HB2	1.85	0.59
22:X:126:ARG:NH1	22:X:190:THR:HB	2.18	0.59
23:Y:13:ARG:CG	23:Y:62:ARG:HH12	2.16	0.59
23:Y:112:GLU:OE2	23:Y:153:ARG:HB3	2.03	0.59
26:b:1:PRO:HA	26:b:4:ARG:O	2.03	0.59
28:d:4:TYR:HE1	28:d:15:ARG:CA	2.16	0.59
30:f:74:VAL:CG1	30:f:81:ARG:HE	2.16	0.59
30:f:100:ASP:OD1	30:f:102:THR:HG23	2.03	0.59
33:i:11:LYS:HA	33:i:14:MET:CE	2.33	0.59
39:o:21:PRO:HG2	39:o:91:VAL:CG1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:o:21:PRO:N	39:o:49:ILE:HD11	2.18	0.59
40:p:9:ALA:O	40:p:12:ARG:N	2.35	0.59
45:u:9:ARG:HE	45:u:20:LEU:HD13	1.67	0.59
45:u:32:GLY:HA3	45:u:92:VAL:CG1	2.32	0.59
46:v:58:LYS:HB2	46:v:73:GLU:OE2	2.02	0.59
1:A:9:GLU:O	1:A:13:VAL:HG23	2.03	0.59
1:A:12:ARG:O	1:A:16:ALA:N	2.32	0.59
8:H:1:PRO:HG2	30:f:100:ASP:O	2.02	0.59
9:I:18:A:O2'	9:I:19:U:H5'	2.03	0.59
9:I:19:U:O2'	9:I:572:A:N6	2.36	0.59
9:I:67:G:H1'	9:I:150:A:N6	2.04	0.59
9:I:122:U:O2	9:I:289:C:O2'	2.19	0.59
9:I:326:A:H3'	9:I:327:C:C5'	2.33	0.59
9:I:603:G:H2'	9:I:604:U:C6	2.37	0.59
9:I:663:G:H1	9:I:740:G:H22	1.50	0.59
9:I:796:C:P	30:f:115:ARG:HH21	2.25	0.59
9:I:857:G:H3'	9:I:868:G:H1	1.68	0.59
9:I:1065:C:O2	9:I:1190:A:N6	2.35	0.59
9:I:1530:G:N1	9:I:2011:U:O2	2.36	0.59
9:I:1535:G:H1'	9:I:1954:A:N3	2.18	0.59
9:I:1710:C:H2'	9:I:1711:C:H6	1.67	0.59
9:I:1788:U:C2'	9:I:1789:G:H5'	2.33	0.59
9:I:1891:A:H4'	9:I:1913:C:P	2.42	0.59
9:I:2206:A:H3'	9:I:2207:G:H8	1.68	0.59
9:I:2223:C:O2'	9:I:2224:U:H5'	2.02	0.59
9:I:2359:G:H22	9:I:2410:G:H3'	1.68	0.59
9:I:2567:A:O4'	9:I:3967:U:O2	2.21	0.59
9:I:2718:U:C5'	9:I:2719:G:OP1	2.51	0.59
9:I:3159:A:H4'	17:S:66:LYS:HD2	1.84	0.59
9:I:3293:G:C4'	9:I:3294:C:H5'	2.20	0.59
9:I:3313:A:H4'	9:I:3315:A:N9	2.16	0.59
9:I:3349:U:H3'	9:I:3350:U:H5	1.68	0.59
9:I:3587:G:N2	9:I:3692:A:H62	2.00	0.59
9:I:3678:A:O2'	9:I:3679:U:H5'	2.02	0.59
9:I:3868:C:H2'	9:I:3869:G:N9	2.18	0.59
9:I:3921:C:C5'	9:I:3922:G:OP1	2.48	0.59
9:I:4153:G:C1'	9:I:4156:A:H62	2.15	0.59
9:I:4326:U:H5''	9:I:4327:U:C6	2.37	0.59
9:I:4376:U:H2'	9:I:4377:G:C8	2.37	0.59
10:J:56:A:C4'	14:N:26:GLN:HB2	2.33	0.59
11:K:171:VAL:HG22	11:K:183:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:260:LYS:HA	11:K:263:ASP:CB	2.32	0.59
12:L:3:GLY:CA	12:L:204:LYS:HA	2.32	0.59
13:M:121:VAL:HG11	13:M:187:VAL:HG13	1.85	0.59
14:N:43:ILE:HD12	14:N:77:LYS:O	2.02	0.59
15:O:26:LYS:O	15:O:26:LYS:HG3	2.00	0.59
15:O:121:THR:O	15:O:133:LYS:HB2	2.03	0.59
17:S:20:MET:CB	17:S:44:LYS:NZ	2.66	0.59
20:V:2:ARG:HA	20:V:5:LYS:HE2	1.85	0.59
21:W:67:VAL:HG11	21:W:169:ALA:CB	2.33	0.59
27:c:41:GLU:OE1	27:c:41:GLU:HA	2.02	0.59
28:d:60:LEU:HD12	28:d:60:LEU:O	2.03	0.59
29:e:8:ALA:HB2	29:e:92:VAL:CG2	2.33	0.59
34:j:4:GLU:O	34:j:21:THR:HB	2.02	0.59
39:o:46:VAL:HA	39:o:59:THR:HB	1.84	0.59
41:q:4:VAL:O	41:q:38:VAL:CG1	2.45	0.59
42:r:56:ALA:HA	42:r:59:GLU:CD	2.28	0.59
44:t:10:VAL:HA	44:t:72:PHE:N	2.17	0.59
45:u:55:GLU:O	45:u:59:GLU:HG3	2.02	0.59
48:x:24:GLN:O	48:x:28:ARG:N	2.27	0.59
49:y:16:LEU:HB3	49:y:19:HIS:ND1	2.18	0.59
49:y:50:VAL:HG23	49:y:54:VAL:HG11	1.83	0.59
1:A:1:ALA:HB3	1:A:6:LYS:CD	2.32	0.59
1:A:66:THR:HG22	9:I:1202:C:H5'	1.83	0.59
2:B:10:ILE:HD13	2:B:30:LEU:HA	1.84	0.59
3:C:56:ARG:NH2	9:I:228:U:OP1	2.36	0.59
6:F:17:VAL:CG1	6:F:42:MET:HE2	2.32	0.59
8:H:44:ARG:NH2	9:I:4430:G:OP2	2.35	0.59
8:H:45:LYS:HA	8:H:48:LYS:CB	2.29	0.59
9:I:228:U:H2'	9:I:229:G:C8	2.38	0.59
9:I:229:G:H2'	9:I:230:U:O4'	2.03	0.59
9:I:318:G:O2'	9:I:319:A:H5'	2.03	0.59
9:I:467:A:C4	9:I:468:C:C5	2.90	0.59
9:I:486:A:H2'	9:I:487:C:O4'	2.01	0.59
9:I:1054:A:C2	9:I:1205:G:H1'	2.37	0.59
9:I:1072:U:O2	21:W:100:ASN:ND2	2.36	0.59
9:I:1203:A:C2	9:I:1204:U:H1'	2.38	0.59
9:I:1390:U:H2'	9:I:1391:G:C8	2.38	0.59
9:I:1400:G:H2'	9:I:1401:4OC:H6	1.83	0.59
9:I:1405:U:H2'	9:I:1406:5MC:C6	2.38	0.59
9:I:1412:A:H2	9:I:4391:G:H22	1.49	0.59
9:I:1600:U:C4	9:I:1601:A:N1	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1658:U:C2	9:I:1668:G:N1	2.64	0.59
9:I:1676:A:OP2	9:I:1676:A:H8	1.85	0.59
9:I:1729:C:H3'	9:I:1729:C:H6	1.66	0.59
9:I:1777:G:O2'	9:I:1778:A:C2	2.56	0.59
9:I:2066:U:OP1	18:T:29:LYS:HE3	2.03	0.59
9:I:2091:U:H1'	36:l:1:PRO:HD2	1.83	0.59
9:I:2203:U:H3'	9:I:2204:G:H8	1.62	0.59
9:I:2500:C:H2'	9:I:2501:C:O4'	2.03	0.59
9:I:2634:C:P	16:R:24:THR:HG22	2.43	0.59
9:I:2814:C:N4	9:I:2827:G:O6	2.35	0.59
9:I:2935:G:O2'	9:I:2936:U:O5'	2.21	0.59
9:I:3092:A:H2'	9:I:3092:A:N3	2.18	0.59
9:I:3351:G:H1'	9:I:3352:A:C8	2.37	0.59
9:I:3599:U:H2'	9:I:3600:U:C6	2.38	0.59
9:I:3843:G:C6	9:I:3863:A:N6	2.71	0.59
9:I:3913:U:H4'	34:j:17:PHE:CE2	2.38	0.59
9:I:4194:A:H2'	9:I:4195:U:H6	1.65	0.59
9:I:4239:C:H5''	15:O:145:ALA:HB2	1.85	0.59
9:I:4280:U:H5'	12:L:70:LYS:CD	2.32	0.59
9:I:4403:A:O2'	9:I:4404:A:H5'	2.03	0.59
10:J:93:A:OP1	45:u:19:ARG:HD3	2.03	0.59
11:K:66:PHE:CE1	11:K:155:ARG:HD3	2.37	0.59
11:K:142:ASN:OD1	11:K:155:ARG:HG3	2.02	0.59
11:K:143:VAL:HG23	11:K:153:LEU:HB2	1.83	0.59
12:L:1:MET:HB2	12:L:100:LEU:O	2.03	0.59
12:L:45:TYR:OH	12:L:81:GLU:OE1	2.21	0.59
12:L:46:ARG:CB	12:L:84:LEU:HB2	2.32	0.59
12:L:125:TRP:NE1	12:L:160:LYS:HB3	2.18	0.59
13:M:28:VAL:CG2	13:M:108:ILE:HG22	2.33	0.59
13:M:154:ASP:OD1	13:M:156:ASN:HB2	2.03	0.59
14:N:39:VAL:HG11	14:N:42:ALA:HB2	1.85	0.59
15:O:97:VAL:HG13	15:O:97:VAL:O	2.02	0.59
16:R:16:TYR:O	16:R:55:ILE:CA	2.49	0.59
18:T:2:ARG:HB2	18:T:4:ASN:OD1	2.03	0.59
20:V:41:ALA:HA	20:V:44:LEU:CB	2.29	0.59
21:W:70:LYS:HZ3	21:W:202:ASP:HA	1.65	0.59
25:a:51:ILE:O	25:a:51:ILE:HG13	2.03	0.59
27:c:37:ASN:HA	27:c:48:PHE:CE1	2.37	0.59
30:f:16:ASN:HB3	30:f:45:LYS:HE3	1.83	0.59
31:g:41:PRO:CD	31:g:47:ALA:H	2.16	0.59
34:j:22:LYS:O	34:j:24:LYS:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:j:24:LYS:HD2	34:j:24:LYS:N	2.17	0.59
38:n:67:LYS:HG2	38:n:101:ARG:HA	1.85	0.59
41:q:20:VAL:HG22	41:q:98:ILE:HD11	1.84	0.59
46:v:18:GLY:HA2	46:v:56:LYS:HE3	1.83	0.59
47:w:31:ASN:HB3	47:w:52:ALA:CB	2.33	0.59
47:w:47:THR:C	47:w:48:LEU:HD23	2.28	0.59
47:w:70:LEU:CA	47:w:73:ARG:HH21	2.16	0.59
49:y:9:THR:CG2	49:y:55:LYS:HB3	2.32	0.59
1:A:97:LYS:NZ	9:I:1188:U:OP1	2.17	0.58
9:I:16:U:H2'	9:I:17:C:C6	2.38	0.58
9:I:17:C:O2'	9:I:18:A:H5'	2.03	0.58
9:I:303:U:O2'	9:I:304:G:H5'	2.02	0.58
9:I:621:A:OP2	9:I:622:C:N4	2.33	0.58
9:I:751:G:H1'	9:I:753:C:N4	2.17	0.58
9:I:860:G:H2'	9:I:861:C:C6	2.38	0.58
9:I:1160:C:H2'	9:I:1160:C:O2	2.03	0.58
9:I:1475:A:P	9:I:4329:A:N6	2.74	0.58
9:I:1604:A:C4	9:I:1605:C:C5	2.91	0.58
9:I:1756:A:N3	9:I:1756:A:H2'	2.17	0.58
9:I:1761:G:C2	9:I:1762:A:N7	2.71	0.58
9:I:1779:A:H2'	9:I:1780:U:H5'	1.85	0.58
9:I:2000:G:N1	9:I:2003:A:OP2	2.36	0.58
9:I:2044:C:O2	9:I:2050:C:N3	2.36	0.58
9:I:2084:C:P	40:p:4:LYS:HZ1	2.26	0.58
9:I:2633:G:C5'	16:R:25:LEU:CG	2.75	0.58
9:I:2837:G:H3'	9:I:2838:U:H5	1.68	0.58
9:I:2977:G:N1	9:I:3000:U:N3	2.14	0.58
9:I:2988:A:C2'	9:I:2989:A:O5'	2.51	0.58
9:I:2993:C:C3'	9:I:2994:G:C8	2.86	0.58
9:I:3022:A:C8	9:I:3023:G:C8	2.91	0.58
9:I:3059:C:C5	11:K:25:LYS:HB3	2.38	0.58
9:I:3198:C:H2'	9:I:3198:C:O2	2.03	0.58
9:I:3205:A:H2'	9:I:3206:U:H5'	1.84	0.58
9:I:3363:G:H8	9:I:3363:G:OP2	1.86	0.58
9:I:3424:G:N1	9:I:3463:A:OP2	2.24	0.58
9:I:3443:G:H2'	9:I:3444:G:C8	2.38	0.58
9:I:3596:G:N2	9:I:3681:U:H3	2.01	0.58
9:I:3775:A:H4'	9:I:3882:A:N6	2.18	0.58
9:I:3783:G:O2'	9:I:3877:G:C2'	2.50	0.58
9:I:3785:U:C4	9:I:3836:C:O2	2.56	0.58
9:I:3811:A:H2'	9:I:3812:G:C5'	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3817:G:C2'	9:I:3818:U:C5'	2.81	0.58
9:I:3905:A:H2'	9:I:3906:A:O4'	2.02	0.58
9:I:3917:U:N3	9:I:3919:A:N1	2.51	0.58
9:I:4020:G:H2'	9:I:4021:C:O4'	2.03	0.58
9:I:4126:A:H2'	9:I:4127:G:C8	2.37	0.58
9:I:4211:C:O2	9:I:4342:G:OP1	2.21	0.58
9:I:4234:A:N6	9:I:4257:G:HO2'	2.01	0.58
9:I:4247:A:H8	9:I:4247:A:P	2.26	0.58
9:I:4283:C:OP2	9:I:4283:C:H6	1.86	0.58
9:I:4335:C:H2'	9:I:4335:C:O2	2.03	0.58
11:K:16:VAL:H	11:K:202:ARG:HH12	1.48	0.58
11:K:249:VAL:HG13	11:K:254:LYS:HZ2	1.66	0.58
14:N:50:ASP:O	14:N:53:ALA:HB3	2.03	0.58
14:N:90:LEU:HB3	14:N:94:ARG:HB3	1.85	0.58
15:O:27:GLY:CA	15:O:78:VAL:HB	2.30	0.58
16:R:4:PHE:CD2	40:p:99:VAL:HG11	2.38	0.58
17:S:105:ARG:HD2	39:o:33:GLU:OE2	2.03	0.58
18:T:95:LEU:CB	18:T:100:ILE:HD11	2.33	0.58
21:W:94:LEU:CD1	21:W:145:LEU:HD11	2.33	0.58
21:W:140:LYS:O	21:W:144:SER:HB3	2.03	0.58
21:W:159:PHE:HA	21:W:181:PHE:O	2.02	0.58
25:a:35:LYS:HE3	25:a:37:HIS:NE2	2.18	0.58
29:e:49:ILE:HG22	29:e:57:ALA:C	2.28	0.58
29:e:49:ILE:HA	29:e:59:ASP:OD2	2.03	0.58
32:h:70:ARG:HA	32:h:73:SER:HB3	1.85	0.58
34:j:11:SER:OG	34:j:45:ILE:HB	2.03	0.58
34:j:40:VAL:O	34:j:40:VAL:HG12	2.03	0.58
37:m:1:MET:CB	37:m:34:LYS:CD	2.80	0.58
38:n:25:LEU:CD2	38:n:114:LEU:HD21	2.30	0.58
44:t:4:ILE:HA	44:t:8:ASP:OD2	2.03	0.58
45:u:44:HIS:HA	45:u:47:VAL:CB	2.33	0.58
48:x:56:LEU:CD2	48:x:59:LYS:HD2	2.32	0.58
3:C:39:PHE:HB2	3:C:74:LEU:HD11	1.84	0.58
4:D:70:TRP:O	9:I:253:G:O2'	2.08	0.58
7:G:42:LYS:HB3	7:G:85:ALA:CB	2.33	0.58
8:H:14:ALA:O	8:H:17:ARG:N	2.36	0.58
9:I:297:A:O2'	9:I:298:G:H5'	2.02	0.58
9:I:555:C:O2'	9:I:556:G:H5'	2.01	0.58
9:I:705:A:O2'	30:f:21:THR:OG1	2.20	0.58
9:I:1418:G:H2'	9:I:1419:U:H6	1.67	0.58
9:I:1534:U:O2'	9:I:1535:G:OP1	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1572:U:H3	48:x:54:THR:HA	1.68	0.58
9:I:1851:C:C4	9:I:1852:A:N6	2.71	0.58
9:I:1860:U:O3'	9:I:1861:G:O4'	2.21	0.58
9:I:2136:G:O6	18:T:109:LYS:HD3	2.03	0.58
9:I:2229:G:O4'	11:K:206:LYS:NZ	2.36	0.58
9:I:2545:G:C4'	9:I:4246:C:H1'	2.27	0.58
9:I:2579:A:OP2	9:I:2579:A:H8	1.85	0.58
9:I:2931:C:H2'	9:I:2932:U:C6	2.38	0.58
9:I:2991:U:H3'	9:I:2992:C:C6	2.38	0.58
9:I:3175:G:O3'	9:I:3176:G:H8	1.86	0.58
9:I:3279:A:N1	9:I:3281:A:H1'	2.17	0.58
9:I:3286:G:H5''	11:K:203:VAL:CG1	2.34	0.58
9:I:3348:A:O4'	9:I:3727:U:O2'	2.21	0.58
9:I:3384:A:H2'	9:I:3385:G:O4'	2.01	0.58
9:I:3418:C:H3'	9:I:3419:C:H6	1.65	0.58
9:I:3593:U:O2	9:I:3684:G:C2	2.54	0.58
9:I:3801:G:H4'	9:I:3802:G:O4'	2.03	0.58
9:I:3826:C:H1'	9:I:3830:A:C5	2.38	0.58
9:I:4018:G:H2'	9:I:4019:G:C5'	2.33	0.58
9:I:4021:C:C4	9:I:4022:U:C4	2.91	0.58
9:I:4142:G:C4	9:I:4143:C:C6	2.91	0.58
9:I:4154:A:H2'	9:I:4155:G:O4'	2.03	0.58
9:I:4281:C:O2	9:I:4282:C:C5	2.56	0.58
11:K:2:VAL:CG2	11:K:18:VAL:HA	2.27	0.58
12:L:57:ALA:O	12:L:60:VAL:HG22	2.02	0.58
14:N:110:ILE:HA	14:N:136:ILE:CD1	2.32	0.58
16:R:28:LEU:O	16:R:31:GLU:OE1	2.22	0.58
17:S:66:LYS:O	17:S:66:LYS:HD3	2.03	0.58
17:S:86:LEU:O	17:S:87:LEU:HD23	2.03	0.58
18:T:67:THR:HG23	18:T:69:ARG:HG3	1.83	0.58
19:U:36:VAL:HA	45:u:82:TYR:CB	2.33	0.58
19:U:43:ALA:CA	19:U:46:ILE:HB	2.18	0.58
20:V:43:GLU:O	20:V:47:VAL:HG23	2.03	0.58
25:a:39:LEU:HD13	25:a:62:MET:CG	2.32	0.58
28:d:35:TYR:OH	28:d:64:VAL:HG13	2.03	0.58
31:g:32:VAL:HA	31:g:78:VAL:HA	1.85	0.58
31:g:41:PRO:HD3	31:g:47:ALA:O	2.03	0.58
40:p:73:ILE:HB	40:p:113:LYS:CE	2.16	0.58
46:v:28:VAL:O	46:v:48:THR:HG23	2.03	0.58
9:I:6:A:C2'	24:Z:115:LEU:HD11	2.33	0.58
9:I:102:U:O2'	9:I:171:A:N1	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:115:A:N3	9:I:116:G:H1'	2.18	0.58
9:I:169:U:H2'	9:I:170:A:C8	2.38	0.58
9:I:340:C:C2	9:I:341:C:C5	2.91	0.58
9:I:819:U:H4'	9:I:820:G:O5'	2.03	0.58
9:I:946:G:O2'	9:I:1305:A:O4'	2.21	0.58
9:I:1060:G:C2'	9:I:1061:U:H5'	2.33	0.58
9:I:1183:G:N2	28:d:105:ALA:O	2.36	0.58
9:I:1294:U:O2'	9:I:1301:C:N4	2.35	0.58
9:I:1297:U:C4'	9:I:1298:A:H5''	2.20	0.58
9:I:1327:C:C5'	32:h:27:THR:HG21	2.31	0.58
9:I:1339:A:O2'	9:I:1340:U:H5'	2.03	0.58
9:I:1481:G:N1	9:I:1482:A:H1'	2.17	0.58
9:I:1488:G:C2	9:I:4285:G:C8	2.92	0.58
9:I:1584:A:H4'	9:I:1585:G:O5'	2.02	0.58
9:I:1660:A:H2'	9:I:1661:A:C8	2.38	0.58
9:I:1725:C:H2'	9:I:1726:A:H8	1.64	0.58
9:I:1960:A:P	43:s:73:ARG:HH22	2.25	0.58
9:I:2010:C:H2'	9:I:2011:U:O4'	2.02	0.58
9:I:2028:A:H2	9:I:3536:A:H2'	1.67	0.58
9:I:2113:A:H5''	9:I:2114:A:C8	2.32	0.58
9:I:2534:A:N1	9:I:2609:G:O6	2.36	0.58
9:I:2544:A:C2	9:I:4245:G:C4	2.91	0.58
9:I:2811:G:H2'	9:I:2812:U:C6	2.38	0.58
9:I:2955:C:P	9:I:2955:C:C3'	2.90	0.58
9:I:2964:A:C3'	9:I:2965:G:H8	2.06	0.58
9:I:3427:G:O2'	9:I:3428:C:H5'	2.04	0.58
9:I:3442:G:O2'	9:I:3443:G:H5'	2.04	0.58
9:I:3687:G:N2	9:I:3688:U:H1'	2.19	0.58
9:I:3791:A:O2'	9:I:3816:A:H1'	2.02	0.58
9:I:3792:A:H2'	9:I:3793:U:H5'	1.85	0.58
9:I:3797:G:H4'	14:N:120:SER:CA	2.34	0.58
9:I:3823:U:H2'	9:I:3824:G:C8	2.38	0.58
9:I:3963:A:C2	9:I:3976:A:H1'	2.39	0.58
9:I:4024:A:H62	15:O:171:LYS:HZ3	1.50	0.58
9:I:4191:G:H2'	9:I:4192:U:O4'	2.03	0.58
9:I:4201:U:H4'	20:V:64:ARG:CD	2.20	0.58
9:I:4329:A:H4'	9:I:4330:U:C6	2.38	0.58
9:I:4413:C:H2'	9:I:4414:C:C6	2.38	0.58
10:J:111:G:C2'	10:J:112:C:C6	2.85	0.58
13:M:59:PRO:HG2	13:M:70:SER:OG	2.03	0.58
14:N:121:PHE:HA	14:N:126:ASN:C	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:100:ASN:HB2	15:O:116:LEU:HB2	1.86	0.58
17:S:25:LEU:HG	17:S:39:ILE:HA	1.85	0.58
17:S:69:VAL:C	17:S:76:VAL:HG23	2.28	0.58
18:T:92:LEU:CD1	18:T:106:GLU:HA	2.33	0.58
19:U:36:VAL:HA	45:u:82:TYR:CG	2.38	0.58
19:U:44:ARG:NH1	19:U:92:TRP:H	2.01	0.58
26:b:70:PRO:HD2	26:b:95:ARG:HG2	1.85	0.58
27:c:63:LYS:O	27:c:70:VAL:HG13	2.03	0.58
27:c:111:THR:HG23	27:c:114:ALA:H	1.68	0.58
29:e:12:ARG:HD3	29:e:12:ARG:H	1.68	0.58
31:g:7:VAL:HG12	31:g:7:VAL:O	2.02	0.58
36:l:29:ARG:C	36:l:32:LEU:HD11	2.27	0.58
44:t:84:PHE:HD1	44:t:91:LYS:HD3	1.68	0.58
45:u:30:ILE:HG22	45:u:93:ARG:HG3	1.85	0.58
46:v:44:GLY:N	46:v:47:HIS:HA	2.18	0.58
49:y:23:LEU:HA	49:y:46:MET:HE2	1.86	0.58
1:A:13:VAL:HG22	1:A:59:GLN:HG2	1.85	0.58
1:A:20:PHE:CD2	1:A:56:PRO:HD3	2.38	0.58
3:C:25:ARG:NH2	9:I:229:G:N3	2.52	0.58
5:E:41:LYS:O	9:I:672:A:H1'	2.03	0.58
8:H:28:LEU:HB3	30:f:15:PHE:CE2	2.39	0.58
9:I:7:A:O3'	24:Z:99:GLY:HA2	2.04	0.58
9:I:59:A:H62	9:I:107:G:H4'	1.68	0.58
9:I:403:G:N7	23:Y:1:ALA:HB3	2.18	0.58
9:I:410:A:N1	9:I:427:G:N2	2.51	0.58
9:I:690:G:N2	9:I:694:A:H5''	2.17	0.58
9:I:999:A:H2'	9:I:1000:C:N1	2.18	0.58
9:I:1073:G:C1'	21:W:100:ASN:HB2	2.33	0.58
9:I:1112:C:O2'	22:X:13:ILE:HD11	2.02	0.58
9:I:1129:A:C5'	28:d:17:PHE:HE2	2.16	0.58
9:I:1249:A:OP1	28:d:66:GLY:N	2.34	0.58
9:I:1265:G:N2	9:I:1267:G:H3'	2.18	0.58
9:I:1403:C:H2'	9:I:1404:G:O4'	2.04	0.58
9:I:1769:C:C4	9:I:1924:G:C6	2.91	0.58
9:I:1891:A:H1'	9:I:1911:G:C1'	2.33	0.58
9:I:1988:G:N2	9:I:1992:A:H62	2.00	0.58
9:I:2035:G:O2'	9:I:2036:G:H5'	2.03	0.58
9:I:2244:U:O2'	9:I:2245:1MG:H5'	2.04	0.58
9:I:2498:U:H1'	9:I:2504:A:C5	2.38	0.58
9:I:2513:U:O2'	9:I:2515:A:N6	2.36	0.58
9:I:2581:G:O2'	9:I:2583:A:H5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2833:G:C5'	43:s:19:LYS:HD2	2.33	0.58
9:I:2839:C:OP1	9:I:2839:C:H6	1.86	0.58
9:I:2913:A:C5'	9:I:3073:A:H61	1.98	0.58
9:I:3032:G:O2'	9:I:3033:U:H5'	2.04	0.58
9:I:3580:U:H2'	9:I:3581:G:O4'	2.04	0.58
9:I:3640:C:H4'	9:I:3641:A:O5'	2.01	0.58
9:I:3695:G:H2'	9:I:3696:U:C6	2.38	0.58
9:I:3825:G:H2'	9:I:3826:C:C6	2.39	0.58
9:I:4141:U:H2'	9:I:4142:G:C8	2.38	0.58
9:I:4247:A:H3'	9:I:4248:U:C5	2.37	0.58
11:K:81:GLU:OE2	11:K:83:ASP:HA	2.03	0.58
11:K:170:TYR:HA	11:K:184:GLU:C	2.29	0.58
12:L:25:THR:HG21	12:L:193:VAL:CG2	2.34	0.58
14:N:73:VAL:HG21	14:N:76:PHE:CD2	2.38	0.58
14:N:124:ARG:HG3	14:N:159:ALA:O	2.03	0.58
15:O:23:ILE:O	15:O:74:MET:HE1	2.04	0.58
15:O:61:TRP:O	15:O:64:ALA:N	2.30	0.58
17:S:113:MET:HA	17:S:116:ILE:CD1	2.33	0.58
19:U:96:ILE:HG23	19:U:100:LYS:HD3	1.83	0.58
20:V:21:PHE:C	20:V:69:ARG:NH1	2.61	0.58
25:a:34:GLY:HA3	25:a:65:GLU:O	2.03	0.58
29:e:66:HIS:O	29:e:67:LEU:HD22	2.03	0.58
31:g:33:CYS:N	31:g:77:SER:O	2.35	0.58
39:o:24:THR:HA	39:o:44:GLY:O	2.02	0.58
39:o:58:PHE:CZ	39:o:83:ILE:HD13	2.38	0.58
39:o:80:VAL:HG23	39:o:80:VAL:O	2.04	0.58
40:p:107:ALA:HA	40:p:110:GLU:CG	2.33	0.58
43:s:18:GLU:H	43:s:21:SER:CB	2.13	0.58
43:s:55:VAL:HG13	43:s:86:THR:C	2.27	0.58
45:u:9:ARG:HH21	45:u:11:GLU:HB2	1.69	0.58
45:u:72:VAL:HG12	45:u:93:ARG:N	2.18	0.58
46:v:27:ILE:HG13	46:v:50:PHE:HA	1.84	0.58
49:y:56:VAL:HG22	49:y:58:GLU:HG2	1.85	0.58
4:D:40:LYS:HE3	9:I:275:G:H5''	1.85	0.58
5:E:46:LEU:HG	25:a:86:ARG:HD3	1.84	0.58
8:H:40:PRO:C	8:H:44:ARG:HE	2.12	0.58
9:I:190:G:H3'	9:I:191:A:H8	1.67	0.58
9:I:215:U:H2'	9:I:216:C:O4'	2.04	0.58
9:I:284:C:H2'	9:I:285:C:C5	2.39	0.58
9:I:336:G:O2'	9:I:337:A:H5'	2.04	0.58
9:I:428:U:H4'	9:I:429:A:O5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:498:A:H1'	9:I:499:G:C8	2.39	0.58
9:I:505:G:H2'	9:I:506:C:C6	2.39	0.58
9:I:614:G:O6	9:I:624:U:O4	2.22	0.58
9:I:696:U:H4'	9:I:785:G:C4'	2.32	0.58
9:I:733:G:N3	9:I:733:G:H2'	2.19	0.58
9:I:1156:A:H4'	9:I:1157:C:O5'	2.02	0.58
9:I:1187:A:C2'	9:I:1188:U:H5'	2.34	0.58
9:I:1302:C:H3'	9:I:1303:G:C8	2.39	0.58
9:I:1477:U:H2'	9:I:1478:A:H8	1.59	0.58
9:I:1612:U:C5'	48:x:57:ASN:HD21	2.16	0.58
9:I:1728:C:H4'	9:I:1729:C:O5'	2.03	0.58
9:I:2522:A:C2'	9:I:2523:A:O4'	2.51	0.58
9:I:2617:C:O2'	37:m:21:GLY:HA2	2.04	0.58
9:I:2977:G:H1	9:I:3000:U:H3	0.63	0.58
9:I:3062:G:H5''	11:K:60:ALA:HB2	1.86	0.58
9:I:3467:G:H2'	9:I:3468:C:H6	1.67	0.58
9:I:3581:G:H2'	9:I:3582:A:C8	2.38	0.58
9:I:3628:A:H62	9:I:3651:G:HO2'	1.49	0.58
9:I:3765:G:OP1	46:v:10:ARG:HA	2.04	0.58
9:I:3866:U:C3'	9:I:3867:G:C8	2.87	0.58
9:I:3894:G:C8	9:I:3894:G:H3'	2.39	0.58
9:I:4072:G:C2	9:I:4073:C:C5	2.92	0.58
9:I:4252:A:C2	15:O:70:LEU:HD11	2.39	0.58
11:K:159:THR:H	11:K:194:VAL:CG1	2.16	0.58
12:L:26:VAL:CG2	39:o:4:ILE:HD11	2.18	0.58
13:M:131:THR:OG1	13:M:163:ASN:HB3	2.02	0.58
14:N:34:THR:HB	14:N:87:LYS:NZ	2.18	0.58
15:O:23:ILE:HD11	15:O:36:LEU:CD1	2.33	0.58
15:O:151:ARG:HG2	15:O:161:VAL:H	1.69	0.58
16:R:1:MET:HG2	16:R:2:LYS:O	2.03	0.58
16:R:15:TRP:CD1	16:R:123:LYS:HE2	2.39	0.58
16:R:96:ARG:HD3	16:R:99:ARG:CZ	2.33	0.58
16:R:118:MET:O	16:R:121:LYS:HG3	2.02	0.58
19:U:30:SER:N	19:U:106:ASP:HB3	2.19	0.58
19:U:59:ARG:HD3	19:U:59:ARG:H	1.68	0.58
24:Z:41:TYR:HE2	24:Z:43:LYS:HE2	1.69	0.58
24:Z:128:VAL:C	24:Z:129:ARG:HD2	2.29	0.58
24:Z:128:VAL:O	24:Z:129:ARG:HD2	2.02	0.58
26:b:67:ASN:CG	26:b:129:ASN:HB3	2.28	0.58
26:b:107:ALA:HA	26:b:122:GLU:OE2	2.04	0.58
32:h:14:ALA:HA	32:h:44:ILE:HD13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:69:ALA:O	38:n:72:ALA:N	2.36	0.58
39:o:4:ILE:CA	39:o:7:LEU:HD12	2.32	0.58
39:o:45:VAL:HG11	39:o:99:LEU:HD13	1.83	0.58
40:p:73:ILE:HD11	40:p:77:LYS:C	2.28	0.58
43:s:44:LYS:HZ2	43:s:55:VAL:CG1	2.17	0.58
44:t:47:PRO:HD3	44:t:55:GLY:CA	2.33	0.58
45:u:35:GLU:OE1	45:u:35:GLU:N	2.29	0.58
48:x:1:LYS:HE3	48:x:48:ASP:O	2.03	0.58
1:A:53:ASP:CB	9:I:1217:C:H5''	2.32	0.58
3:C:45:GLU:OE1	3:C:45:GLU:HA	2.03	0.58
3:C:78:VAL:O	3:C:82:ALA:HB3	2.02	0.58
7:G:82:ASN:HA	7:G:85:ALA:OXT	2.04	0.58
8:H:3:ILE:CD1	30:f:98:ILE:HG23	2.32	0.58
9:I:123:C:O2'	9:I:124:U:H5'	2.03	0.58
9:I:627:G:H2'	9:I:628:A:C8	2.38	0.58
9:I:841:U:H1'	9:I:844:A:OP1	2.04	0.58
9:I:927:G:O2'	9:I:928:G:H5'	2.03	0.58
9:I:1177:G:N7	28:d:96:ARG:NH2	2.52	0.58
9:I:1365:C:H2'	9:I:1366:C:C6	2.38	0.58
9:I:1489:A:C1'	9:I:1490:G:C2	2.86	0.58
9:I:1719:A:H3'	9:I:1720:G:H8	1.69	0.58
9:I:1808:G:O2'	44:t:16:LYS:HE2	2.04	0.58
9:I:1857:C:H2'	9:I:1858:U:O4'	2.02	0.58
9:I:1913:C:H2'	9:I:1914:C:H6	1.68	0.58
9:I:2042:C:H5''	9:I:2043:G:P	2.43	0.58
9:I:2446:G:H2'	9:I:2447:G:O5'	2.02	0.58
9:I:2556:G:O2'	9:I:2557:G:H5'	2.03	0.58
9:I:2580:A:H5''	9:I:2581:G:OP1	2.02	0.58
9:I:3057:U:HO2'	9:I:3058:C:H5'	1.69	0.58
9:I:3356:G:C2'	9:I:3357:G:C8	2.87	0.58
9:I:3437:U:C1'	9:I:3439:G:H5''	2.33	0.58
9:I:3723:U:O2'	9:I:3724:G:H5'	2.03	0.58
9:I:3816:A:H2'	9:I:3817:G:H5'	1.85	0.58
9:I:3913:U:OP1	34:j:18:TYR:HA	2.03	0.58
9:I:3931:G:H2'	9:I:3932:U:H6	1.68	0.58
9:I:3949:G:C4	9:I:3950:C:C5	2.91	0.58
9:I:4073:C:H4'	12:L:137:SER:HB2	1.86	0.58
9:I:4132:G:N2	9:I:4270:A:OP2	2.37	0.58
9:I:4139:G:N3	9:I:4139:G:H2'	2.19	0.58
10:J:73:U:C2'	45:u:37:PRO:HB2	2.33	0.58
12:L:14:ILE:HG12	12:L:24:VAL:HG13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:111:GLY:CA	12:L:201:LEU:HD23	2.33	0.58
16:R:23:LYS:HG3	16:R:28:LEU:HB2	1.84	0.58
17:S:2:ILE:HG23	17:S:6:THR:CG2	2.31	0.58
17:S:43:ILE:C	17:S:44:LYS:HD3	2.28	0.58
17:S:67:LYS:HA	17:S:67:LYS:HE2	1.85	0.58
18:T:95:LEU:CD1	18:T:101:ILE:HG21	2.29	0.58
21:W:7:LEU:HD13	21:W:40:LEU:CD1	2.29	0.58
22:X:107:LYS:HE2	22:X:110:LEU:HD12	1.85	0.58
25:a:38:ARG:HB2	25:a:97:THR:HG23	1.84	0.58
34:j:4:GLU:O	34:j:24:LYS:NZ	2.36	0.58
34:j:31:LEU:HB3	34:j:49:ALA:HB2	1.85	0.58
38:n:115:GLN:O	38:n:116:PHE:HB3	2.03	0.58
39:o:30:TRP:HE1	39:o:81:ASP:CG	2.10	0.58
39:o:92:ARG:NH1	39:o:112:ARG:HH22	2.02	0.58
41:q:41:ILE:HD12	41:q:54:VAL:CG1	2.32	0.58
44:t:17:ASP:HB3	44:t:20:LYS:HD2	1.84	0.58
48:x:44:GLN:O	48:x:46:ARG:N	2.32	0.58
49:y:23:LEU:HG	49:y:26:LEU:CD1	2.22	0.58
1:A:14:ALA:HA	1:A:17:ASP:OD2	2.04	0.58
4:D:43:VAL:HG13	4:D:71:THR:C	2.28	0.58
5:E:5:LYS:HG2	25:a:59:TYR:HE2	1.67	0.58
8:H:6:ARG:HD2	8:H:9:GLU:HB2	1.84	0.58
9:I:300:G:H2'	9:I:301:G:C8	2.39	0.58
9:I:720:G:H5''	9:I:721:G:O4'	2.03	0.58
9:I:795:C:H5''	30:f:117:VAL:HG12	1.85	0.58
9:I:1003:A:H62	9:I:1023:G:C2'	2.16	0.58
9:I:1003:A:N1	9:I:1025:G:H1'	2.18	0.58
9:I:1123:G:O2'	9:I:1144:A:N6	2.36	0.58
9:I:1401:4OC:H2'	9:I:1402:C:O4'	2.03	0.58
9:I:1494:U:H2'	9:I:1495:A:H8	1.69	0.58
9:I:1543:G:O2'	9:I:1544:A:H5'	2.03	0.58
9:I:1681:A:H1'	9:I:1935:C:O4'	2.03	0.58
9:I:1806:U:H2'	9:I:1807:G:O4'	2.02	0.58
9:I:1807:G:O6	44:t:18:LYS:NZ	2.36	0.58
9:I:1846:A:O2'	9:I:1847:A:OP1	2.17	0.58
9:I:1934:U:O2	9:I:1936:C:N4	2.36	0.58
9:I:2163:G:H5''	18:T:17:LYS:NZ	2.19	0.58
9:I:2214:U:O4'	9:I:2218:A:C6	2.57	0.58
9:I:2464:U:O2'	9:I:2465:G:H5'	2.03	0.58
9:I:2675:U:N3	9:I:2676:G:N7	2.51	0.58
9:I:2815:A:H2'	9:I:2815:A:N3	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2987:C:C3'	9:I:2988:A:H5'	2.33	0.58
9:I:3060:A:H4'	11:K:82:TYR:OH	2.03	0.58
9:I:3160:G:H5''	17:S:82:ASN:ND2	2.19	0.58
9:I:3216:A:H5'	9:I:3232:G:H22	1.66	0.58
9:I:3680:G:H2'	9:I:3681:U:H6	1.60	0.58
9:I:3843:G:N1	9:I:3863:A:C5	2.72	0.58
9:I:3884:U:OP1	36:l:34:LYS:HD3	2.04	0.58
9:I:4127:G:O2'	12:L:64:GLU:HG2	2.04	0.58
9:I:4149:G:C5'	9:I:4150:U:H5'	2.34	0.58
9:I:4201:U:O5'	20:V:64:ARG:NE	2.36	0.58
9:I:4241:G:O6	9:I:4248:U:H3'	2.02	0.58
9:I:4274:G:C3'	9:I:4275:A:H5'	2.23	0.58
9:I:4285:G:H2'	9:I:4285:G:N3	2.18	0.58
10:J:16:C:H2'	10:J:16:C:O2	2.04	0.58
10:J:16:C:C2'	10:J:17:G:C8	2.86	0.58
11:K:163:ILE:HG12	11:K:173:LEU:HB2	1.85	0.58
12:L:7:LYS:HZ3	12:L:9:VAL:HA	1.67	0.58
12:L:84:LEU:CD2	12:L:88:GLU:HG2	2.27	0.58
13:M:134:LEU:HD23	13:M:164:LEU:CD1	2.33	0.58
13:M:157:LEU:HD21	13:M:169:VAL:CG1	2.33	0.58
13:M:172:ALA:HB3	13:M:195:GLN:CD	2.27	0.58
20:V:45:ARG:CA	20:V:48:VAL:HG22	2.30	0.58
21:W:96:GLY:O	21:W:100:ASN:HB3	2.04	0.58
22:X:200:TRP:C	22:X:201:ILE:HD12	2.29	0.58
23:Y:48:SER:O	23:Y:52:VAL:HG13	2.04	0.58
23:Y:96:ARG:O	23:Y:100:VAL:HG23	2.02	0.58
25:a:17:GLN:O	25:a:21:MET:N	2.35	0.58
25:a:69:GLU:HA	25:a:72:ASP:HB2	1.85	0.58
26:b:140:VAL:CA	26:b:143:MET:HE3	2.26	0.58
28:d:121:ARG:HD2	28:d:121:ARG:C	2.28	0.58
29:e:12:ARG:HB2	29:e:16:GLN:HG3	1.86	0.58
30:f:51:ALA:HB1	30:f:84:THR:OG1	2.04	0.58
31:g:20:VAL:HG22	31:g:23:LEU:HB3	1.84	0.58
37:m:7:VAL:HB	37:m:25:VAL:HG23	1.86	0.58
38:n:31:PRO:C	38:n:65:GLY:HA3	2.27	0.58
43:s:7:LEU:CD1	43:s:8:LEU:HG	2.33	0.58
43:s:20:ALA:CA	43:s:23:ALA:HB3	2.27	0.58
45:u:51:GLN:HE22	45:u:89:ILE:CD1	2.17	0.58
48:x:9:SER:OG	48:x:12:GLU:OE1	2.19	0.58
49:y:11:SER:OG	49:y:31:ILE:HD13	2.03	0.58
1:A:42:ASN:HA	1:A:45:LEU:HD12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:19:LYS:HG3	30:f:104:ILE:CG1	2.34	0.58
5:E:47:SER:HB2	25:a:51:ILE:CG2	2.24	0.58
9:I:141:G:N3	9:I:142:A:H1'	2.17	0.58
9:I:540:G:H2'	9:I:541:G:O4'	2.02	0.58
9:I:758:A:C2	9:I:759:G:H1'	2.39	0.58
9:I:1052:G:H2'	9:I:1198:U:OP2	2.04	0.58
9:I:1077:U:N3	24:Z:81:THR:OG1	2.37	0.58
9:I:1151:A:O5'	29:e:68:ARG:NH2	2.21	0.58
9:I:1171:C:H2'	9:I:1172:U:C6	2.38	0.58
9:I:1348:A:H1'	9:I:1373:A:H62	1.68	0.58
9:I:1512:U:C2	9:I:2026:A:N6	2.72	0.58
9:I:1656:A:H2'	9:I:1657:C:C6	2.38	0.58
9:I:1778:A:C2	9:I:1861:G:O2'	2.56	0.58
9:I:1888:G:H5'	9:I:1889:G:OP2	2.04	0.58
9:I:2128:G:C2	9:I:2136:G:H1'	2.39	0.58
9:I:2414:A:N3	9:I:2414:A:H2'	2.17	0.58
9:I:2788:U:H2'	9:I:2788:U:O2	2.04	0.58
9:I:2794:G:H4'	9:I:2795:A:H5''	1.84	0.58
9:I:3058:C:C2	9:I:3059:C:C5	2.92	0.58
9:I:3595:A:OP1	9:I:3677:A:P	2.62	0.58
9:I:3912:A:H4'	34:j:17:PHE:O	2.03	0.58
9:I:3919:A:H4'	9:I:3920:A:H5''	1.85	0.58
9:I:3950:C:H2'	9:I:3951:PSU:H6	1.66	0.58
9:I:4331:A:C2'	9:I:4332:G:C8	2.86	0.58
10:J:13:U:H5'	10:J:69:C:O2'	2.04	0.58
10:J:99:G:C2'	10:J:100:A:H5'	2.33	0.58
10:J:100:A:C4	10:J:101:G:C8	2.92	0.58
11:K:123:ILE:CG2	11:K:191:LEU:HG	2.32	0.58
12:L:5:VAL:HG22	12:L:202:ILE:HA	1.82	0.58
13:M:14:VAL:HG21	13:M:19:PHE:HD2	1.69	0.58
13:M:124:PHE:CE2	13:M:169:VAL:HG21	2.37	0.58
14:N:56:LEU:HD21	14:N:151:LEU:HD13	1.85	0.58
14:N:109:ARG:C	14:N:136:ILE:HB	2.29	0.58
15:O:23:ILE:HB	15:O:34:ARG:O	2.04	0.58
23:Y:71:PHE:CE1	23:Y:93:LEU:HD11	2.38	0.58
23:Y:107:GLY:C	23:Y:157:ALA:HB1	2.29	0.58
24:Z:22:PHE:O	24:Z:45:ARG:HD3	2.03	0.58
26:b:112:ASP:HB2	26:b:118:ARG:HG3	1.86	0.58
27:c:25:THR:HG22	27:c:57:GLU:OE2	2.04	0.58
34:j:6:ILE:HG21	34:j:22:LYS:HB2	1.84	0.58
37:m:2:LYS:HG3	37:m:35:GLN:CG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:3:LYS:O	38:n:6:ARG:NH2	2.37	0.58
39:o:53:GLY:O	39:o:76:HIS:CD2	2.56	0.58
39:o:99:LEU:HD23	39:o:102:ARG:HD3	1.86	0.58
40:p:109:VAL:HA	40:p:112:ALA:HB3	1.85	0.58
42:r:33:LEU:HD12	42:r:34:ASP:N	2.18	0.58
43:s:38:ALA:HB3	43:s:81:LYS:NZ	2.18	0.58
45:u:44:HIS:C	45:u:47:VAL:H	2.11	0.58
47:w:4:CYS:SG	47:w:5:GLN:N	2.76	0.58
48:x:1:LYS:NZ	48:x:51:ARG:HB2	2.18	0.58
5:E:53:ASP:OD1	8:H:1:PRO:HA	2.04	0.58
9:I:108:A:H62	9:I:323:G:H21	1.52	0.58
9:I:251:U:H2'	9:I:252:A:N7	2.19	0.58
9:I:264:G:C3'	9:I:266:C:H41	2.14	0.58
9:I:306:C:H5''	9:I:307:C:OP2	2.04	0.58
9:I:544:C:H2'	9:I:545:A:O4'	2.03	0.58
9:I:545:A:H5''	23:Y:69:ARG:HH12	1.68	0.58
9:I:694:A:H3'	9:I:695:A:C8	2.38	0.58
9:I:1163:G:H2'	9:I:1164:U:C6	2.39	0.58
9:I:1218:A:C3'	9:I:1219:G:H8	2.15	0.58
9:I:1238:A:N6	9:I:1296:G:O4'	2.25	0.58
9:I:1367:A:OP2	28:d:113:VAL:HA	2.04	0.58
9:I:1367:A:OP1	28:d:113:VAL:N	2.36	0.58
9:I:1487:U:H2'	9:I:1488:G:O4'	2.03	0.58
9:I:1577:G:P	48:x:51:ARG:HH11	2.26	0.58
9:I:1585:G:O2'	9:I:1586:G:O5'	2.22	0.58
9:I:1658:U:C4	9:I:1668:G:O6	2.57	0.58
9:I:1690:A:N6	9:I:1707:A:C4	2.71	0.58
9:I:1778:A:C4	9:I:1862:A:H1'	2.39	0.58
9:I:1778:A:H2	9:I:1861:G:N3	2.02	0.58
9:I:1805:C:N3	9:I:1813:G:N1	2.52	0.58
9:I:1879:G:H2'	9:I:1880:G:O5'	2.04	0.58
9:I:1964:U:H6	9:I:1964:U:C3'	2.15	0.58
9:I:2108:A:H2'	9:I:2109:A:H8	1.68	0.58
9:I:2227:A:H2'	9:I:2228:G:H8	1.61	0.58
9:I:3069:C:H2'	9:I:3070:U:C6	2.39	0.58
9:I:3079:C:H2'	9:I:3079:C:O2	2.04	0.58
9:I:3352:A:H61	9:I:3378:G:C1'	2.17	0.58
9:I:3839:G:N2	9:I:3876:G:OP2	2.36	0.58
9:I:3937:C:H2'	9:I:3938:G:C8	2.32	0.58
9:I:4174:U:H1'	12:L:192:ALA:CB	2.25	0.58
9:I:4189:U:H2'	9:I:4190:U:C5	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4193:C:H2'	9:I:4194:A:C1'	2.31	0.58
11:K:144:GLU:HG2	11:K:150:GLY:N	2.19	0.58
11:K:196:ASN:O	11:K:199:HIS:CB	2.51	0.58
11:K:198:GLU:HA	11:K:201:LEU:HD13	1.86	0.58
12:L:10:GLY:C	12:L:26:VAL:HB	2.29	0.58
12:L:146:ILE:HB	12:L:159:LYS:NZ	2.19	0.58
13:M:35:TYR:CD1	13:M:178:VAL:HG11	2.39	0.58
14:N:122:ASP:OD2	14:N:126:ASN:HB2	2.04	0.58
14:N:147:ARG:CG	14:N:148:VAL:N	2.67	0.58
15:O:100:ASN:HA	15:O:116:LEU:HB2	1.83	0.58
17:S:15:GLY:O	17:S:47:ILE:HG23	2.04	0.58
17:S:23:LYS:O	17:S:39:ILE:HB	2.04	0.58
18:T:79:LEU:CD1	18:T:114:GLY:O	2.52	0.58
19:U:34:LYS:HE3	19:U:101:VAL:CG2	2.31	0.58
21:W:3:MET:HA	21:W:6:MET:SD	2.44	0.58
22:X:62:SER:HB2	22:X:97:PRO:HG2	1.85	0.58
22:X:147:GLY:N	22:X:202:PHE:HB3	2.19	0.58
24:Z:40:GLY:HA3	24:Z:54:ALA:O	2.03	0.58
45:u:24:ASN:C	45:u:25:LYS:HG2	2.29	0.58
45:u:73:LYS:O	45:u:75:GLN:HG2	2.03	0.58
49:y:26:LEU:HD21	49:y:43:ILE:CG2	2.34	0.58
1:A:3:GLN:HA	9:I:1215:A:C5'	2.34	0.58
1:A:68:ARG:HG2	1:A:69:PRO:CD	2.32	0.58
2:B:10:ILE:CG2	2:B:29:ALA:HB3	2.33	0.58
2:B:81:ILE:HA	2:B:84:LEU:CG	2.33	0.58
5:E:15:THR:HG23	5:E:17:SER:H	1.69	0.58
9:I:175:C:H3'	9:I:176:G:N2	2.07	0.58
9:I:305:A:H2'	9:I:306:C:C6	2.39	0.58
9:I:340:C:H2'	9:I:341:C:C5	2.39	0.58
9:I:665:G:N1	9:I:739:U:N3	2.18	0.58
9:I:705:A:H2'	9:I:706:U:H6	1.67	0.58
9:I:1055:U:H4'	22:X:162:ALA:HB2	1.84	0.58
9:I:1100:A:H4'	9:I:1101:A:O5'	2.04	0.58
9:I:1307:U:H3'	32:h:97:ARG:NH2	2.18	0.58
9:I:1373:A:O3'	26:b:27:ASN:HB3	2.04	0.58
9:I:1581:G:H2'	9:I:1582:U:C1'	2.33	0.58
9:I:1649:A:OP1	9:I:1649:A:H3'	2.03	0.58
9:I:1781:C:N4	9:I:1782:A:N6	2.52	0.58
9:I:2048:G:H5'	9:I:2049:G:OP1	2.04	0.58
9:I:2148:G:O2'	9:I:2149:G:H5'	2.04	0.58
9:I:2200:G:H2'	9:I:2201:G:O4'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2280:G:H5''	9:I:2281:A:OP2	2.03	0.58
9:I:2334:G:H2'	9:I:2335:C:C6	2.39	0.58
9:I:2340:C:C2	9:I:2341:G:C8	2.92	0.58
9:I:2542:A:C2	9:I:2606:G:O2'	2.51	0.58
9:I:2663:A:H2'	9:I:2664:C:O4'	2.04	0.58
9:I:3221:C:C2	9:I:3228:G:C2	2.91	0.58
9:I:3286:G:O6	9:I:3321:U:O4	2.22	0.58
9:I:3345:U:H2'	9:I:3346:U:N1	2.19	0.58
9:I:3373:C:O2'	9:I:3374:U:O4'	2.21	0.58
9:I:3612:U:O5'	9:I:3642:G:O2'	2.22	0.58
9:I:3717:G:H2'	9:I:3718:G:N9	2.18	0.58
9:I:3756:U:C6	9:I:3821:A:H2	2.21	0.58
9:I:3776:G:OP1	9:I:3777:C:H1'	2.03	0.58
9:I:3780:G:OP1	9:I:3781:A:H4'	2.02	0.58
9:I:3839:G:O6	9:I:3865:G:C6	2.56	0.58
9:I:3869:G:N1	9:I:3872:A:OP2	2.28	0.58
9:I:3921:C:H4'	9:I:3922:G:H5''	1.85	0.58
9:I:4075:G:H2'	9:I:4075:G:N3	2.18	0.58
9:I:4130:C:O3'	12:L:45:TYR:OH	2.22	0.58
9:I:4229:G:C2	9:I:4263:U:O2	2.57	0.58
9:I:4232:A:H2'	9:I:4233:U:O4'	2.03	0.58
9:I:4380:A:O2'	9:I:4381:U:H5'	2.04	0.58
10:J:11:C:H4'	10:J:12:G:OP1	2.03	0.58
10:J:54:U:O2'	10:J:56:A:N7	2.37	0.58
10:J:72:A:N7	10:J:102:U:O2	2.37	0.58
10:J:75:G:H5'	45:u:27:PRO:HG3	1.83	0.58
11:K:140:VAL:HB	11:K:161:VAL:HB	1.86	0.58
11:K:268:ARG:NH2	11:K:271:SER:OG	2.30	0.58
12:L:13:ARG:HA	12:L:23:PRO:CA	2.30	0.58
12:L:26:VAL:CG1	39:o:3:ILE:HG21	2.33	0.58
12:L:33:ARG:O	12:L:50:VAL:CA	2.51	0.58
13:M:60:TRP:CG	13:M:67:ARG:HH21	2.22	0.58
13:M:147:LEU:HD23	13:M:186:VAL:HG13	1.86	0.58
15:O:8:VAL:HG11	15:O:49:LEU:HD12	1.85	0.58
17:S:64:ARG:HA	17:S:79:PHE:CD1	2.38	0.58
18:T:96:LYS:CG	18:T:103:ILE:HA	2.34	0.58
20:V:24:MET:O	20:V:27:SER:N	2.37	0.58
20:V:32:GLU:HB3	20:V:118:ARG:HD2	1.84	0.58
21:W:17:THR:HG23	21:W:34:LYS:C	2.28	0.58
21:W:43:THR:CB	21:W:198:PRO:HG2	2.33	0.58
23:Y:67:LEU:H	23:Y:70:GLN:NE2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:a:7:VAL:O	25:a:87:SER:HA	2.03	0.58
26:b:17:PHE:HE1	26:b:43:TYR:CD1	2.22	0.58
27:c:49:LYS:O	27:c:58:LEU:HA	2.04	0.58
27:c:73:SER:N	27:c:129:ALA:O	2.22	0.58
28:d:48:PRO:HG2	28:d:80:ILE:HG21	1.86	0.58
34:j:4:GLU:CD	34:j:24:LYS:HD3	2.28	0.58
38:n:23:THR:HA	38:n:41:PRO:CD	2.33	0.58
39:o:12:MET:HA	39:o:54:LEU:HD13	1.86	0.58
42:r:69:LEU:CD2	42:r:107:VAL:HG22	2.33	0.58
44:t:24:VAL:CG1	44:t:33:VAL:HB	2.33	0.58
45:u:6:ALA:HA	45:u:41:GLU:O	2.04	0.58
46:v:35:PHE:C	46:v:49:LEU:HD11	2.28	0.58
2:B:16:ARG:N	2:B:20:ASP:HB3	2.18	0.57
3:C:52:LEU:HD21	3:C:74:LEU:CD1	2.24	0.57
8:H:1:PRO:HG2	30:f:101:VAL:CA	2.21	0.57
8:H:6:ARG:NE	8:H:9:GLU:OE1	2.37	0.57
9:I:66:C:HO2'	9:I:170:A:HO2'	1.52	0.57
9:I:111:G:H21	9:I:353:G:C5'	2.16	0.57
9:I:128:A:O3'	9:I:129:A:H8	1.86	0.57
9:I:382:A:N1	9:I:383:G:H1'	2.19	0.57
9:I:545:A:OP2	23:Y:67:LEU:HD22	2.04	0.57
9:I:716:U:H4'	30:f:107:ASN:OD1	2.03	0.57
9:I:1116:A:O3'	28:d:103:ARG:HD2	2.04	0.57
9:I:1225:C:H3'	32:h:94:LEU:HD11	1.85	0.57
9:I:1379:U:H4'	9:I:1380:U:OP1	2.04	0.57
9:I:1416:G:H2'	9:I:4386:G:N2	2.16	0.57
9:I:1491:G:C2'	9:I:1492:C:O4'	2.52	0.57
9:I:1505:A:H8	9:I:1505:A:O5'	1.87	0.57
9:I:1560:G:O3'	48:x:43:LYS:NZ	2.35	0.57
9:I:1909:G:H2'	9:I:1910:G:C8	2.38	0.57
9:I:2045:U:N1	9:I:2047:A:H5'	2.18	0.57
9:I:2122:G:N3	9:I:2122:G:H2'	2.18	0.57
9:I:2148:G:O2'	9:I:2149:G:O4'	2.21	0.57
9:I:2325:A:H2'	9:I:2326:U:C6	2.39	0.57
9:I:2537:C:H1'	9:I:2606:G:N2	2.10	0.57
9:I:2683:A:C2'	9:I:2684:G:H5'	2.34	0.57
9:I:2786:G:H2'	9:I:2787:C:H6	1.68	0.57
9:I:2892:C:C3'	9:I:2893:C:H6	2.17	0.57
9:I:2925:A:O2'	9:I:2926:G:H5'	2.04	0.57
9:I:3011:G:N2	9:I:3226:C:H5'	2.20	0.57
9:I:3401:G:O6	9:I:3417:U:C4	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3808:A:O2'	14:N:126:ASN:CG	2.46	0.57
9:I:3831:G:C4	9:I:3832:C:C5	2.92	0.57
9:I:4064:G:H2'	9:I:4065:U:O5'	2.03	0.57
9:I:4081:A:H5''	9:I:4082:G:OP2	2.04	0.57
9:I:4212:G:N2	9:I:4340:G:O2'	2.37	0.57
9:I:4242:A:HO2'	15:O:3:VAL:HB	1.69	0.57
9:I:4276:G:N3	9:I:4277:U:C6	2.72	0.57
10:J:64:U:H5''	10:J:65:A:OP2	2.04	0.57
11:K:140:VAL:H	11:K:161:VAL:CA	2.16	0.57
11:K:182:LYS:HZ2	11:K:265:PHE:C	2.10	0.57
14:N:39:VAL:HG23	14:N:147:ARG:NH1	2.19	0.57
14:N:147:ARG:HG2	14:N:148:VAL:H	1.69	0.57
15:O:66:THR:O	15:O:70:LEU:HG	2.04	0.57
15:O:85:LYS:HB3	15:O:164:ALA:CB	2.33	0.57
15:O:98:LYS:HE2	15:O:103:ASN:HB2	1.85	0.57
16:R:18:VAL:CB	16:R:56:VAL:HA	2.28	0.57
17:S:38:ILE:HD12	17:S:87:LEU:HD12	1.84	0.57
19:U:38:ARG:CB	19:U:98:PRO:HD3	2.34	0.57
20:V:72:ASP:OD1	20:V:73:ASN:N	2.37	0.57
21:W:63:LYS:HG3	21:W:156:ASP:H	1.69	0.57
24:Z:34:ASN:HA	24:Z:67:LEU:CD2	2.34	0.57
24:Z:41:TYR:O	24:Z:54:ALA:HB2	2.04	0.57
29:e:5:ARG:HA	29:e:68:ARG:O	2.03	0.57
32:h:90:HIS:ND1	32:h:96:VAL:HG21	2.18	0.57
34:j:5:LYS:HA	34:j:21:THR:CB	2.34	0.57
34:j:31:LEU:HD12	34:j:32:GLU:H	1.69	0.57
39:o:25:VAL:HG23	39:o:60:VAL:CA	2.31	0.57
39:o:96:LEU:HD22	39:o:99:LEU:HD11	1.85	0.57
40:p:61:ILE:HD12	40:p:61:ILE:H	1.69	0.57
43:s:42:GLU:HA	43:s:45:ALA:HB3	1.85	0.57
44:t:22:GLY:HA3	44:t:35:VAL:CG1	2.34	0.57
49:y:8:GLN:CD	49:y:10:ARG:O	2.47	0.57
1:A:66:THR:HG22	9:I:1202:C:C5'	2.33	0.57
4:D:66:LYS:HZ3	9:I:251:U:H3'	1.69	0.57
5:E:47:SER:O	25:a:47:LEU:HD22	2.04	0.57
7:G:3:LYS:HZ1	9:I:331:G:H4'	1.68	0.57
9:I:502:C:P	31:g:112:ALA:HB2	2.44	0.57
9:I:503:C:O5'	9:I:503:C:H6	1.88	0.57
9:I:631:U:H3'	9:I:632:G:C5'	2.25	0.57
9:I:709:G:H2'	9:I:710:G:H8	1.69	0.57
9:I:949:U:H3'	32:h:100:ARG:HH22	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1100:A:N7	21:W:168:ILE:HD12	2.19	0.57
9:I:1205:G:P	22:X:189:HIS:HE2	2.27	0.57
9:I:1425:G:H2'	9:I:1426:C:O4'	2.04	0.57
9:I:1577:G:C2	9:I:1578:U:H1'	2.39	0.57
9:I:1770:A:HO2'	9:I:1771:G:P	2.26	0.57
9:I:1775:C:N4	9:I:1862:A:H61	2.02	0.57
9:I:1776:U:O2'	9:I:1862:A:N1	2.38	0.57
9:I:1782:A:H2'	9:I:1783:G:C8	2.40	0.57
9:I:1782:A:O2'	9:I:1783:G:H5'	2.04	0.57
9:I:1872:G:O6	9:I:1900:G:H3'	2.04	0.57
9:I:2052:U:O2'	9:I:2053:G:H5'	2.05	0.57
9:I:2224:U:C4	9:I:2225:G:C6	2.92	0.57
9:I:2365:C:N4	9:I:2403:A:N6	2.52	0.57
9:I:2402:C:H3'	9:I:2402:C:P	2.43	0.57
9:I:2528:G:H2'	9:I:2529:U:O5'	2.04	0.57
9:I:2833:G:O3'	43:s:19:LYS:NZ	2.35	0.57
9:I:2834:U:P	43:s:84:TYR:HH	2.27	0.57
9:I:2835:G:H1'	43:s:59:ASN:CB	2.34	0.57
9:I:2975:U:N3	9:I:3004:G:C6	2.70	0.57
9:I:2995:G:O2'	11:K:98:GLY:CA	2.52	0.57
9:I:3153:G:C4	9:I:3496:G:N2	2.71	0.57
9:I:3194:A:H2'	9:I:3195:A:H5'	1.85	0.57
9:I:3215:G:H22	9:I:3233:A:P	2.27	0.57
9:I:3336:G:C3'	9:I:3337:C:C6	2.87	0.57
9:I:3347:A:N9	9:I:3728:G:H4'	2.19	0.57
9:I:3777:C:C2'	9:I:3778:A:H5'	2.34	0.57
9:I:3863:A:N6	9:I:3876:G:H1	2.02	0.57
9:I:3954:U:C2'	9:I:3955:A:H5'	2.34	0.57
9:I:3992:OMC:H2'	9:I:3992:OMC:O2	2.02	0.57
9:I:4058:A:H4'	9:I:4059:A:OP1	2.04	0.57
9:I:4141:U:H2'	9:I:4142:G:H8	1.68	0.57
9:I:4240:U:H4'	15:O:137:LYS:O	2.04	0.57
9:I:4329:A:OP2	12:L:56:LYS:NZ	2.37	0.57
11:K:128:THR:HG23	11:K:189:ALA:C	2.28	0.57
11:K:245:THR:CG2	11:K:249:VAL:HB	2.34	0.57
12:L:115:GLY:HA2	12:L:167:ASN:CG	2.29	0.57
13:M:198:GLU:N	13:M:198:GLU:OE1	2.36	0.57
15:O:146:ASP:HA	15:O:149:ALA:HB3	1.86	0.57
16:R:106:LYS:HB2	16:R:119:PHE:CE1	2.38	0.57
19:U:119:LEU:HD11	19:U:123:LYS:CE	2.23	0.57
20:V:31:HIS:O	20:V:118:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:32:GLU:O	20:V:118:ARG:HD3	2.04	0.57
21:W:40:LEU:O	21:W:44:VAL:HG23	2.04	0.57
23:Y:141:VAL:HG13	23:Y:179:GLY:O	2.03	0.57
24:Z:30:VAL:HG13	24:Z:58:ALA:CB	2.34	0.57
27:c:28:SER:HB2	27:c:58:LEU:N	2.18	0.57
27:c:46:GLU:OE2	27:c:61:THR:HB	2.04	0.57
31:g:108:ASP:O	31:g:110:LYS:HE2	2.04	0.57
38:n:81:ALA:HB1	38:n:86:ILE:O	2.05	0.57
39:o:26:GLU:HG3	39:o:43:GLU:N	2.18	0.57
39:o:44:GLY:HA3	39:o:61:ARG:C	2.29	0.57
40:p:59:LEU:HG	40:p:63:ARG:CG	2.30	0.57
44:t:11:ILE:HG22	44:t:70:ALA:O	2.04	0.57
46:v:15:ARG:CG	46:v:21:VAL:HG11	2.21	0.57
1:A:89:ARG:HH12	9:I:1057:G:H1'	1.69	0.57
2:B:16:ARG:H	2:B:20:ASP:CB	2.17	0.57
2:B:44:GLU:O	2:B:46:LYS:N	2.38	0.57
3:C:46:LYS:HZ3	9:I:624:U:H1'	1.65	0.57
4:D:31:TYR:HB3	31:g:7:VAL:CA	2.18	0.57
5:E:7:ILE:CG1	25:a:45:ARG:HH22	2.11	0.57
5:E:7:ILE:HG22	5:E:48:LEU:HB3	1.85	0.57
7:G:3:LYS:NZ	9:I:331:G:H4'	2.17	0.57
9:I:131:C:H2'	9:I:132:U:H6	1.66	0.57
9:I:183:G:H2'	9:I:184:U:H6	1.69	0.57
9:I:229:G:C2'	9:I:230:U:H5'	2.35	0.57
9:I:332:U:O2	9:I:332:U:H2'	2.04	0.57
9:I:587:G:H3'	9:I:588:U:C5	2.40	0.57
9:I:664:A:OP1	9:I:732:G:N2	2.37	0.57
9:I:664:A:H2'	9:I:731:C:O2	2.04	0.57
9:I:675:A:N1	9:I:713:G:C6	2.72	0.57
9:I:677:U:C2'	9:I:678:C:H5'	2.34	0.57
9:I:829:G:OP1	21:W:20:TRP:NE1	2.31	0.57
9:I:1227:C:H5'	32:h:112:ARG:HD3	1.87	0.57
9:I:1478:A:C5	9:I:4328:G:N1	2.72	0.57
9:I:1717:A:H5''	9:I:1718:A:OP2	2.03	0.57
9:I:1777:G:C2'	9:I:1861:G:C6	2.86	0.57
9:I:1819:G:H2'	9:I:1820:A:H8	1.65	0.57
9:I:1869:U:N3	9:I:1922:A:P	2.77	0.57
9:I:2007:A:H5''	9:I:2008:A:OP1	2.04	0.57
9:I:2163:G:H5''	18:T:17:LYS:HZ3	1.69	0.57
9:I:2248:G:OP2	42:r:88:ARG:NE	2.37	0.57
9:I:2753:G:H2'	9:I:2754:A:C8	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2915:G:O2'	9:I:2989:A:N6	2.37	0.57
9:I:2984:A:P	9:I:2984:A:H3'	2.44	0.57
9:I:2988:A:O2'	9:I:2989:A:O5'	2.19	0.57
9:I:2990:A:H2'	9:I:2992:C:C4	2.39	0.57
9:I:2991:U:P	9:I:2992:C:H41	2.24	0.57
9:I:3255:C:H2'	9:I:3256:A:C8	2.39	0.57
9:I:3365:A:O2'	9:I:3366:A:N7	2.37	0.57
9:I:3757:C:H2'	9:I:3758:C:H5'	1.86	0.57
9:I:3777:C:P	34:j:1:GLY:N	2.76	0.57
9:I:3889:C:H2'	9:I:3890:G:C8	2.39	0.57
9:I:3981:G:O2'	9:I:3982:G:H5'	2.04	0.57
9:I:3989:G:HO2'	9:I:3990:C:C5'	2.11	0.57
9:I:4129:A:C4'	12:L:49:GLN:HG3	2.31	0.57
9:I:4183:U:O2	9:I:4183:U:O2'	2.19	0.57
9:I:4241:G:H4'	15:O:69:ALA:HB3	1.86	0.57
12:L:37:VAL:HG22	12:L:91:THR:OG1	2.04	0.57
13:M:177:PRO:N	13:M:180:LEU:HD12	2.18	0.57
14:N:3:LEU:HG	14:N:100:GLU:CD	2.29	0.57
15:O:36:LEU:CD2	15:O:42:VAL:HB	2.33	0.57
15:O:106:LEU:HD12	15:O:108:PHE:CE2	2.39	0.57
16:R:23:LYS:HB3	16:R:28:LEU:CB	2.32	0.57
16:R:36:LEU:HD22	16:R:121:LYS:CE	2.33	0.57
16:R:54:ILE:O	16:R:123:LYS:HB2	2.05	0.57
16:R:84:ILE:HG13	16:R:85:LYS:O	2.03	0.57
17:S:20:MET:HE3	17:S:42:THR:CG2	2.33	0.57
20:V:107:ASN:OD1	42:r:40:ASN:HB3	2.04	0.57
21:W:69:THR:OG1	21:W:91:HIS:O	2.22	0.57
23:Y:60:VAL:O	23:Y:63:ILE:HB	2.03	0.57
23:Y:186:GLU:O	23:Y:190:LEU:HD23	2.05	0.57
25:a:12:PRO:HD3	25:a:57:ALA:HA	1.85	0.57
26:b:50:ALA:CB	26:b:57:GLU:HB2	2.33	0.57
26:b:87:PRO:HD2	26:b:151:ALA:CA	2.34	0.57
27:c:79:ARG:HG3	27:c:82:LEU:H	1.70	0.57
27:c:86:LYS:HZ1	27:c:91:LEU:HG	1.69	0.57
30:f:80:GLY:O	30:f:81:ARG:HB3	2.02	0.57
31:g:71:HIS:HE1	31:g:103:CYS:SG	2.28	0.57
32:h:90:HIS:CG	32:h:96:VAL:HG21	2.39	0.57
37:m:17:VAL:HG13	37:m:24:ARG:HD2	1.86	0.57
38:n:33:HIS:HA	38:n:52:THR:OG1	2.03	0.57
42:r:40:ASN:O	42:r:41:LYS:HD3	2.05	0.57
44:t:51:LEU:H	44:t:53:GLN:NE2	1.99	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:v:20:SER:HA	46:v:56:LYS:N	2.18	0.57
46:v:56:LYS:H	46:v:75:GLU:CB	2.11	0.57
46:v:56:LYS:N	46:v:75:GLU:HB2	2.10	0.57
49:y:18:LYS:O	49:y:22:THR:OG1	2.18	0.57
1:A:24:ALA:HA	1:A:27:LYS:HE2	1.86	0.57
5:E:27:GLY:C	5:E:28:THR:HG1	2.09	0.57
8:H:38:GLU:O	30:f:110:ARG:HG2	2.05	0.57
9:I:217:U:O2'	9:I:218:U:H5'	2.04	0.57
9:I:598:C:O2'	9:I:599:A:H5'	2.03	0.57
9:I:677:U:H4'	9:I:777:G:C5'	2.34	0.57
9:I:937:A:H2	9:I:1375:U:H1'	1.68	0.57
9:I:1003:A:N6	9:I:1023:G:O2'	2.37	0.57
9:I:1039:U:C2	9:I:1040:G:N7	2.73	0.57
9:I:1131:C:H3'	9:I:1132:G:C8	2.40	0.57
9:I:1230:G:O2'	9:I:1231:U:H5'	2.04	0.57
9:I:1236:C:H2'	9:I:1334:U:H4'	1.85	0.57
9:I:1486:G:P	9:I:4302:G:H22	2.27	0.57
9:I:1585:G:H2'	9:I:1586:G:H8	1.69	0.57
9:I:1717:A:H2'	9:I:1717:A:N3	2.19	0.57
9:I:1893:C:N3	9:I:1894:C:C5	2.72	0.57
9:I:1905:U:C5'	9:I:1906:G:O4'	2.53	0.57
9:I:2517:U:H2'	9:I:2518:G:H5'	1.85	0.57
9:I:2527:U:C3'	9:I:2528:G:H5''	2.35	0.57
9:I:2535:G:N1	9:I:2609:G:O6	2.37	0.57
9:I:2540:A:H3'	9:I:2541:G:C5'	2.35	0.57
9:I:2640:C:C2'	9:I:2641:A:H5'	2.34	0.57
9:I:2747:A:P	40:p:32:ARG:HH22	2.27	0.57
9:I:2969:G:C1'	9:I:3226:C:H5	2.17	0.57
9:I:2975:U:C2	9:I:3004:G:N2	2.72	0.57
9:I:3195:A:C3'	9:I:3196:G:H8	2.09	0.57
9:I:3213:G:H2'	9:I:3213:G:N3	2.18	0.57
9:I:3352:A:H61	9:I:3378:G:H1'	1.69	0.57
9:I:3586:U:C4'	9:I:3587:G:O2'	2.53	0.57
9:I:3825:G:HO2'	9:I:3830:A:N6	2.02	0.57
9:I:3897:C:H3'	9:I:3897:C:P	2.44	0.57
9:I:3976:A:H2'	9:I:3977:C:H5'	1.86	0.57
9:I:4039:G:O2'	9:I:4040:U:H5'	2.04	0.57
9:I:4183:U:P	9:I:4213:G:H1	2.27	0.57
9:I:4243:A:H5''	15:O:1:SER:N	2.18	0.57
9:I:4243:A:O5'	9:I:4243:A:C8	2.56	0.57
9:I:4391:G:O2'	9:I:4392:G:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:166:ARG:HA	11:K:171:VAL:CG1	2.23	0.57
12:L:109:VAL:CB	12:L:172:VAL:HB	2.28	0.57
15:O:26:LYS:HA	15:O:30:GLY:O	2.04	0.57
16:R:23:LYS:O	16:R:62:VAL:HG22	2.03	0.57
16:R:125:TYR:CE2	16:R:130:HIS:HB2	2.39	0.57
18:T:95:LEU:HB3	18:T:101:ILE:CG2	2.33	0.57
19:U:26:VAL:HG13	19:U:101:VAL:HG21	1.86	0.57
20:V:87:PHE:HE2	20:V:115:LEU:HD21	1.69	0.57
21:W:132:LEU:H	21:W:132:LEU:HD23	1.70	0.57
23:Y:75:TYR:CE1	23:Y:200:VAL:HG22	2.38	0.57
28:d:85:MET:HG2	28:d:89:GLU:OE1	2.04	0.57
31:g:122:LYS:HE2	31:g:122:LYS:HA	1.86	0.57
33:i:28:SER:OG	33:i:39:ARG:N	2.37	0.57
33:i:50:GLY:O	33:i:51:ARG:NH2	2.38	0.57
36:l:37:THR:HA	36:l:40:LYS:CE	2.34	0.57
36:l:55:GLY:CA	36:l:58:ILE:HG22	2.34	0.57
39:o:36:LYS:HD3	39:o:37:LYS:O	2.04	0.57
43:s:15:HIS:HB2	43:s:31:VAL:HG11	1.86	0.57
43:s:54:GLU:HG2	43:s:88:LYS:HG3	1.86	0.57
45:u:2:PHE:CE2	45:u:53:LYS:HG2	2.37	0.57
46:v:35:PHE:HB3	46:v:49:LEU:CD1	2.33	0.57
2:B:10:ILE:HG23	2:B:29:ALA:CB	2.34	0.57
2:B:53:ARG:HE	9:I:763:C:H4'	1.68	0.57
2:B:66:LEU:HD11	2:B:84:LEU:HD22	1.87	0.57
3:C:70:ARG:NH1	9:I:375:G:N7	2.48	0.57
4:D:42:HIS:CE1	9:I:252:A:N3	2.72	0.57
9:I:343:A:O2'	9:I:345:G:N7	2.38	0.57
9:I:651:U:H1'	9:I:652:U:C6	2.39	0.57
9:I:694:A:C2	9:I:786:A:H1'	2.39	0.57
9:I:780:A:H8	9:I:800:U:N3	1.89	0.57
9:I:1111:C:C2'	9:I:1112:C:H5'	2.33	0.57
9:I:1564:A:H4'	43:s:76:ARG:O	2.03	0.57
9:I:1621:G:H2'	9:I:1622:G:O5'	2.04	0.57
9:I:1681:A:N3	9:I:1681:A:H2'	2.20	0.57
9:I:1702:U:H2'	9:I:1703:A:N9	2.20	0.57
9:I:1971:A:H3'	9:I:1972:A:C8	2.40	0.57
9:I:2089:U:C2	9:I:2090:A:C8	2.92	0.57
9:I:2296:C:H2'	9:I:2297:G:H8	1.69	0.57
9:I:2468:G:H4'	41:q:78:ARG:NH2	2.20	0.57
9:I:2505:G:H4'	9:I:2506:U:OP2	2.02	0.57
9:I:2577:U:N3	9:I:2580:A:OP2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2777:G:N2	9:I:2780:A:O5'	2.37	0.57
9:I:2879:A:H4'	9:I:2879:A:OP1	2.04	0.57
9:I:2901:G:C2	9:I:2902:G:C5	2.93	0.57
9:I:2932:U:O2'	9:I:2933:A:H5'	2.05	0.57
9:I:3009:A:O2'	9:I:3050:C:C2	2.55	0.57
9:I:3021:G:H5''	9:I:3022:A:OP1	2.04	0.57
9:I:3158:A:H2'	9:I:3159:A:O4'	2.05	0.57
9:I:3358:U:O4	9:I:3369:G:H3'	2.05	0.57
9:I:3392:U:O2	9:I:3395:A:C5	2.58	0.57
9:I:3405:PSU:HN3	9:I:3412:A:C2'	2.17	0.57
9:I:4110:C:O2'	9:I:4111:U:H5'	2.03	0.57
9:I:4142:G:O2'	9:I:4143:C:H5'	2.04	0.57
9:I:4174:U:H5''	12:L:8:LYS:HZ3	1.70	0.57
9:I:4175:C:O4'	9:I:4176:A:N7	2.37	0.57
9:I:4177:C:C4	9:I:4221:A:H1'	2.39	0.57
9:I:4212:G:C2	9:I:4213:G:H1'	2.39	0.57
9:I:4258:A:O5'	9:I:4258:A:H8	1.87	0.57
9:I:4340:G:OP2	39:o:51:ASN:N	2.35	0.57
10:J:69:C:O5'	10:J:69:C:H6	1.87	0.57
11:K:139:THR:HA	11:K:161:VAL:C	2.29	0.57
11:K:202:ARG:NH2	11:K:204:LEU:O	2.37	0.57
12:L:108:ASP:HB3	12:L:204:LYS:N	2.18	0.57
13:M:5:LEU:HD23	13:M:6:LYS:N	2.19	0.57
13:M:123:LYS:HZ1	13:M:191:ASP:HB3	1.68	0.57
14:N:111:ARG:NH2	14:N:131:VAL:HA	2.18	0.57
15:O:51:PHE:O	15:O:61:TRP:HZ3	1.88	0.57
16:R:119:PHE:O	16:R:122:LEU:HD13	2.05	0.57
16:R:136:GLN:N	16:R:137:PRO:HD3	2.20	0.57
18:T:83:ALA:HA	18:T:118:THR:HG21	1.86	0.57
18:T:108:ALA:CA	18:T:125:LEU:HG	2.34	0.57
19:U:40:ARG:HD3	19:U:93:VAL:HG21	1.86	0.57
19:U:96:ILE:HG23	19:U:100:LYS:HB2	1.86	0.57
20:V:65:LEU:O	20:V:68:ALA:N	2.38	0.57
21:W:17:THR:HG23	21:W:35:VAL:N	2.19	0.57
25:a:46:GLN:HA	25:a:56:LYS:CB	2.34	0.57
26:b:17:PHE:CZ	26:b:46:LEU:HD11	2.40	0.57
28:d:27:ILE:HD13	28:d:35:TYR:CD2	2.39	0.57
31:g:38:THR:C	31:g:48:LEU:HD12	2.30	0.57
37:m:2:LYS:CD	37:m:35:GLN:HB2	2.34	0.57
38:n:81:ALA:CB	38:n:86:ILE:HB	2.34	0.57
40:p:60:TRP:O	40:p:61:ILE:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:94:LEU:O	40:p:97:ILE:HD12	2.04	0.57
43:s:13:ALA:N	43:s:33:LYS:HB3	2.19	0.57
47:w:15:ASN:HA	47:w:24:THR:O	2.05	0.57
48:x:22:ARG:CZ	48:x:23:GLU:HG2	2.33	0.57
1:A:4:SER:CA	9:I:1215:A:C8	2.76	0.57
1:A:68:ARG:HG3	9:I:1048:U:H3	1.70	0.57
1:A:81:ILE:CD1	29:e:51:PRO:HB2	2.32	0.57
1:A:84:ARG:HD3	29:e:51:PRO:CA	2.35	0.57
4:D:9:VAL:CG1	4:D:12:ASP:HB2	2.34	0.57
5:E:23:SER:HB2	5:E:33:GLN:HG2	1.87	0.57
5:E:42:ARG:HD3	9:I:734:C:O2	2.03	0.57
8:H:1:PRO:HD2	30:f:101:VAL:CB	2.35	0.57
9:I:195:A:C2	9:I:221:C:H1'	2.40	0.57
9:I:277:G:C1'	9:I:281:A:H1'	2.33	0.57
9:I:279:C:H4'	9:I:280:G:OP2	2.05	0.57
9:I:599:A:H2'	9:I:600:G:H8	1.70	0.57
9:I:619:C:H2'	9:I:620:A:O4'	2.05	0.57
9:I:662:A:H2'	9:I:663:G:C8	2.39	0.57
9:I:707:C:O2'	30:f:26:GLN:NE2	2.36	0.57
9:I:1186:G:H1'	28:d:110:ARG:NH1	2.19	0.57
9:I:1288:A:N1	9:I:1370:G:O2'	2.32	0.57
9:I:1323:A:H2'	9:I:1324:C:H6	1.69	0.57
9:I:1430:A:O2'	9:I:1431:G:H5'	2.05	0.57
9:I:1576:C:O2	9:I:1576:C:H2'	2.04	0.57
9:I:1758:G:O2'	9:I:1759:G:H5'	2.04	0.57
9:I:1783:G:H2'	9:I:1784:U:H6	1.69	0.57
9:I:1792:U:OP2	9:I:1792:U:H6	1.88	0.57
9:I:1806:U:C2'	9:I:1807:G:O4'	2.53	0.57
9:I:2011:U:H3'	9:I:2011:U:H6	1.70	0.57
9:I:2022:A:H2'	9:I:2023:C:H6	1.67	0.57
9:I:2057:C:H2'	9:I:2058:U:H6	1.69	0.57
9:I:2079:G:C5	9:I:2756:A:N6	2.73	0.57
9:I:2132:A:H2	9:I:3897:C:H4'	1.69	0.57
9:I:2530:G:C2	9:I:2613:U:O2	2.58	0.57
9:I:2617:C:C1'	37:m:18:LYS:HZ1	2.15	0.57
9:I:2619:G:C8	9:I:2620:A:O2'	2.57	0.57
9:I:2949:G:C2'	9:I:2950:G:H5'	2.35	0.57
9:I:2976:G:H1'	9:I:3003:A:N6	2.20	0.57
9:I:2994:G:H2'	9:I:2995:G:C1'	2.34	0.57
9:I:3010:G:P	9:I:3050:C:HO2'	2.27	0.57
9:I:3011:G:H2'	9:I:3011:G:N3	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3014:U:C2'	9:I:3015:G:C5'	2.81	0.57
9:I:3019:A:C2'	9:I:3020:C:O4'	2.53	0.57
9:I:3121:G:C2'	9:I:3122:G:H5'	2.35	0.57
9:I:3221:C:H2'	9:I:3222:C:O4'	2.04	0.57
9:I:3336:G:C6	9:I:3392:U:C4	2.91	0.57
9:I:3345:U:H2'	9:I:3346:U:C1'	2.35	0.57
9:I:3537:C:H2'	9:I:3537:C:O2	2.03	0.57
9:I:3796:U:O2	14:N:122:ASP:HB2	2.04	0.57
9:I:3891:G:H1	9:I:3913:U:H3	1.51	0.57
9:I:4013:U:H4'	9:I:4014:C:OP1	2.05	0.57
9:I:4142:G:C2'	9:I:4143:C:H5'	2.34	0.57
9:I:4206:C:H6	9:I:4206:C:P	2.28	0.57
9:I:4246:C:H3'	9:I:4247:A:H8	1.64	0.57
10:J:17:G:H2'	10:J:18:C:C6	2.39	0.57
10:J:106:G:P	10:J:106:G:H8	2.28	0.57
11:K:257:ARG:CZ	11:K:266:ILE:HD12	2.35	0.57
12:L:39:ASP:OD1	12:L:41:ALA:N	2.37	0.57
14:N:35:LEU:HD22	14:N:88:VAL:HG22	1.87	0.57
15:O:82:PHE:HB3	15:O:140:ILE:HD13	1.86	0.57
15:O:82:PHE:HB2	15:O:135:ALA:O	2.03	0.57
16:R:7:LYS:O	16:R:10:THR:OG1	2.13	0.57
17:S:58:LEU:HD12	17:S:87:LEU:O	2.04	0.57
18:T:117:THR:O	18:T:117:THR:HG22	2.04	0.57
21:W:6:MET:CG	21:W:40:LEU:HD22	2.34	0.57
22:X:33:ASP:O	22:X:37:LYS:NZ	2.27	0.57
22:X:113:LYS:HA	22:X:184:ASN:HB3	1.86	0.57
27:c:42:GLU:HB2	27:c:44:PHE:CD2	2.39	0.57
32:h:74:MET:HA	32:h:77:LYS:HG3	1.86	0.57
42:r:59:GLU:HA	42:r:64:ALA:CA	2.35	0.57
44:t:3:LYS:CB	44:t:82:VAL:HB	2.35	0.57
45:u:7:GLU:O	45:u:40:ILE:HA	2.05	0.57
47:w:47:THR:O	47:w:48:LEU:HD23	2.04	0.57
47:w:61:LYS:CA	47:w:61:LYS:HE3	2.33	0.57
48:x:57:ASN:OD1	48:x:62:ALA:HB3	2.04	0.57
49:y:50:VAL:CG2	49:y:54:VAL:HG11	2.35	0.57
1:A:3:GLN:NE2	9:I:1214:G:N3	2.53	0.57
1:A:51:PRO:CB	9:I:1014:G:H4'	2.35	0.57
9:I:180:A:N3	9:I:193:C:N4	2.51	0.57
9:I:247:C:H3'	9:I:248:U:C6	2.40	0.57
9:I:324:A:H2'	9:I:325:G:C8	2.40	0.57
9:I:361:G:N2	9:I:364:U:OP2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:599:A:O2'	9:I:600:G:H5'	2.04	0.57
9:I:691:U:C5'	9:I:796:C:H5'	2.29	0.57
9:I:706:U:H4'	30:f:10:HIS:CE1	2.39	0.57
9:I:857:G:C6	9:I:868:G:H3'	2.40	0.57
9:I:934:A:H2'	9:I:935:C:O4'	2.05	0.57
9:I:1286:A:O2'	9:I:1287:A:H5'	2.04	0.57
9:I:1343:C:O4'	9:I:1348:A:H4'	2.04	0.57
9:I:1534:U:O2'	9:I:1535:G:H5'	2.04	0.57
9:I:1614:U:H2'	9:I:1615:C:H6	1.70	0.57
9:I:1661:A:C1'	9:I:3702:C:H4'	2.34	0.57
9:I:2041:A:H2'	9:I:2042:C:C6	2.40	0.57
9:I:2136:G:N7	18:T:128:THR:HG22	2.20	0.57
9:I:2236:C:H2'	9:I:2237:C:H6	1.70	0.57
9:I:2328:U:H4'	9:I:2331:G:N1	2.19	0.57
9:I:2877:A:C2	9:I:2900:U:H1'	2.37	0.57
9:I:2993:C:C4	9:I:2994:G:C6	2.92	0.57
9:I:3029:A:OP2	9:I:3030:C:N4	2.38	0.57
9:I:3075:G:H2'	9:I:3076:C:C6	2.40	0.57
9:I:3163:A:O4'	17:S:5:GLN:OE1	2.22	0.57
9:I:3218:G:N1	9:I:3230:U:C2	2.60	0.57
9:I:3352:A:N6	9:I:3378:G:C1'	2.68	0.57
9:I:3382:G:O3'	9:I:3383:A:H8	1.85	0.57
9:I:3807:C:H4'	14:N:87:LYS:NZ	2.20	0.57
9:I:3810:G:C4'	14:N:124:ARG:HH12	2.18	0.57
9:I:3839:G:OP2	9:I:3840:A:O3'	2.23	0.57
9:I:4099:PSU:O4	9:I:4099:PSU:H2'	2.05	0.57
9:I:4427:G:H2'	9:I:4427:G:N3	2.19	0.57
10:J:45:A:N3	10:J:45:A:C2'	2.63	0.57
11:K:119:VAL:HA	11:K:129:LEU:CB	2.30	0.57
12:L:9:VAL:HG11	39:o:3:ILE:HB	1.86	0.57
12:L:133:THR:OG1	12:L:134:HIS:N	2.38	0.57
12:L:149:ASN:CG	12:L:150:GLN:H	2.13	0.57
15:O:16:VAL:CG2	15:O:25:ILE:HA	2.19	0.57
15:O:121:THR:O	15:O:122:ALA:HB2	2.03	0.57
16:R:14:ASP:O	16:R:52:ASP:HB3	2.05	0.57
18:T:77:ILE:HG12	18:T:109:LYS:O	2.04	0.57
19:U:46:ILE:O	19:U:49:ALA:HB3	2.05	0.57
21:W:63:LYS:HG2	21:W:156:ASP:CB	2.34	0.57
21:W:97:MET:CG	21:W:104:VAL:HG11	2.32	0.57
22:X:19:SER:OG	22:X:21:TRP:NE1	2.37	0.57
22:X:22:PHE:CE2	29:e:93:ASP:HB3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:49:ALA:CB	22:X:74:ILE:HD11	2.33	0.57
22:X:56:ILE:HG23	22:X:65:VAL:CG2	2.35	0.57
23:Y:8:LEU:HD13	23:Y:31:CYS:CB	2.35	0.57
30:f:6:ASP:HA	30:f:69:ASN:O	2.05	0.57
31:g:30:ARG:HG3	31:g:78:VAL:HG12	1.87	0.57
32:h:24:VAL:HG21	32:h:59:VAL:HG23	1.85	0.57
34:j:8:LEU:HD12	34:j:18:TYR:HD1	1.70	0.57
34:j:35:LYS:HE2	34:j:46:TYR:CE1	2.40	0.57
39:o:90:ALA:HA	39:o:112:ARG:HB2	1.86	0.57
40:p:78:PHE:O	40:p:112:ALA:HB1	2.03	0.57
40:p:87:VAL:HG13	41:q:49:ILE:CD1	2.34	0.57
41:q:37:GLU:HB2	41:q:53:PHE:CE1	2.40	0.57
44:t:9:GLU:O	44:t:71:ILE:HG23	2.04	0.57
46:v:17:GLY:HA2	46:v:57:VAL:O	2.05	0.57
47:w:35:HIS:HB3	47:w:37:PHE:HE1	1.69	0.57
7:G:22:ARG:O	7:G:26:MET:HG2	2.05	0.57
8:H:18:PHE:HE1	30:f:72:VAL:HG12	1.69	0.57
9:I:137:G:H2'	9:I:138:A:H8	1.70	0.57
9:I:266:C:H6	9:I:266:C:O5'	1.88	0.57
9:I:495:A:H5'	9:I:496:G:OP2	2.05	0.57
9:I:704:G:N2	30:f:32:TRP:HB2	2.09	0.57
9:I:892:C:H2'	9:I:893:G:C8	2.40	0.57
9:I:1095:C:HO2'	9:I:1170:A:P	2.25	0.57
9:I:1373:A:H4'	26:b:27:ASN:HD22	1.69	0.57
9:I:1479:A:O4'	9:I:4310:G:H1'	2.04	0.57
9:I:1479:A:C5'	9:I:4326:U:O4	2.53	0.57
9:I:1508:C:C2'	9:I:1509:G:H5'	2.35	0.57
9:I:1583:A:C8	9:I:1601:A:C6	2.93	0.57
9:I:1585:G:H2'	9:I:1586:G:H5''	1.85	0.57
9:I:1593:G:H2'	9:I:1594:A:H5'	1.86	0.57
9:I:1650:U:H2'	9:I:1651:C:H6	1.67	0.57
9:I:1878:C:O2'	9:I:1879:G:H5'	2.05	0.57
9:I:1928:A:O2'	9:I:1929:A:OP1	2.22	0.57
9:I:1991:G:N2	9:I:1992:A:H1'	2.20	0.57
9:I:2636:A:O2'	9:I:2638:A:N7	2.33	0.57
9:I:2700:G:N2	9:I:2734:U:O2	2.38	0.57
9:I:2746:G:O3'	40:p:32:ARG:NH2	2.35	0.57
9:I:2844:C:O2'	9:I:2845:C:H5'	2.05	0.57
9:I:2892:C:C2	9:I:2893:C:C5	2.93	0.57
9:I:3022:A:C6	9:I:3038:A:C8	2.93	0.57
9:I:3349:U:H3'	9:I:3350:U:C5	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3352:A:C2	9:I:3353:U:O4'	2.58	0.57
9:I:3691:U:H1'	9:I:3692:A:H8	1.69	0.57
9:I:3725:U:C2	9:I:3726:C:C5	2.93	0.57
9:I:3866:U:H3'	9:I:3867:G:H8	1.68	0.57
9:I:4049:U:H2'	9:I:4050:C:C5'	2.32	0.57
9:I:4094:A:H2'	9:I:4095:C:H6	1.69	0.57
9:I:4149:G:O5'	9:I:4150:U:H6	1.87	0.57
9:I:4306:G:C2	9:I:4307:A:H1'	2.40	0.57
11:K:173:LEU:HD23	11:K:175:LEU:HD23	1.86	0.57
12:L:207:VAL:O	12:L:207:VAL:HG22	2.04	0.57
13:M:79:ARG:O	13:M:80:SER:HB2	2.05	0.57
13:M:112:LEU:HB2	13:M:118:LEU:HD21	1.87	0.57
13:M:130:LYS:O	13:M:134:LEU:HB2	2.05	0.57
14:N:91:ARG:HD3	14:N:92:GLY:N	2.20	0.57
15:O:100:ASN:HB2	15:O:116:LEU:O	2.04	0.57
16:R:98:GLU:CD	16:R:126:ALA:HB2	2.30	0.57
17:S:58:LEU:CD2	17:S:86:LEU:HD13	2.34	0.57
18:T:73:ILE:HG23	18:T:107:PHE:CD2	2.40	0.57
19:U:32:GLY:HA2	19:U:117:PHE:CZ	2.39	0.57
19:U:35:ALA:HB2	19:U:128:THR:HG22	1.87	0.57
20:V:102:PHE:C	20:V:110:MET:HE3	2.30	0.57
21:W:43:THR:HA	21:W:198:PRO:HG2	1.86	0.57
23:Y:63:ILE:HG22	23:Y:64:TYR:CE1	2.39	0.57
24:Z:87:MET:HA	24:Z:116:ALA:HA	1.87	0.57
30:f:52:GLN:HB2	30:f:83:SER:HB2	1.87	0.57
32:h:51:GLN:O	32:h:55:LEU:HD13	2.05	0.57
38:n:98:TYR:OH	38:n:103:GLN:HG3	2.05	0.57
39:o:39:LEU:HD12	39:o:39:LEU:N	2.20	0.57
44:t:97:SER:O	44:t:98:ASN:CG	2.47	0.57
45:u:9:ARG:NH1	45:u:12:GLN:HA	2.20	0.57
45:u:25:LYS:HZ2	45:u:43:ASP:N	2.02	0.57
45:u:44:HIS:O	45:u:47:VAL:N	2.38	0.57
46:v:34:LYS:O	46:v:67:ARG:NH2	2.38	0.57
49:y:3:THR:N	49:y:39:ASP:OD2	2.38	0.57
1:A:3:GLN:CA	9:I:1215:A:H5'	2.34	0.57
3:C:40:ASN:CB	3:C:43:ALA:HB2	2.34	0.57
3:C:59:HIS:NE2	9:I:226:G:O2'	2.37	0.57
8:H:1:PRO:HB2	30:f:101:VAL:HG12	1.84	0.57
9:I:604:U:H2'	9:I:605:G:H8	1.69	0.57
9:I:643:U:C2'	9:I:644:G:H5'	2.33	0.57
9:I:705:A:H2	30:f:29:ALA:HB3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:865:C:H4'	9:I:918:A:H5'	1.86	0.57
9:I:1038:G:H2'	9:I:1039:U:C6	2.39	0.57
9:I:1150:A:H1'	29:e:37:PRO:HG3	1.87	0.57
9:I:1224:A:P	32:h:100:ARG:HA	2.44	0.57
9:I:1228:A:P	32:h:112:ARG:HD2	2.45	0.57
9:I:1256:A:H4'	9:I:1257:G:OP2	2.05	0.57
9:I:1314:U:H2'	9:I:1315:G:O4'	2.04	0.57
9:I:1346:G:O2'	28:d:108:VAL:HG12	2.04	0.57
9:I:1608:G:H1'	9:I:1846:A:C2	2.40	0.57
9:I:1639:U:C3'	9:I:1640:C:H4'	2.34	0.57
9:I:1862:A:H2'	9:I:1862:A:N3	2.20	0.57
9:I:2020:G:H5'	42:r:25:ARG:HH22	1.70	0.57
9:I:2088:U:H2'	9:I:2089:U:C6	2.40	0.57
9:I:2088:U:H2'	9:I:2089:U:H6	1.70	0.57
9:I:2206:A:N6	9:I:2225:G:O2'	2.38	0.57
9:I:2331:G:C5	9:I:2332:U:N3	2.73	0.57
9:I:2578:A:C2	9:I:2600:G:H1'	2.39	0.57
9:I:2788:U:C2'	9:I:2789:C:H5'	2.35	0.57
9:I:2908:C:H2'	9:I:2909:U:C1'	2.34	0.57
9:I:2969:G:H8	9:I:2969:G:OP2	1.87	0.57
9:I:3216:A:C2'	9:I:3217:G:H8	2.18	0.57
9:I:3286:G:OP1	11:K:204:LEU:HD23	2.05	0.57
9:I:3290:U:H2'	9:I:3291:G:H8	1.70	0.57
9:I:3317:G:C2'	9:I:3318:G:H5'	2.34	0.57
9:I:3360:A:O2'	9:I:3361:G:OP1	2.19	0.57
9:I:3370:A:H3'	9:I:3371:A:C8	2.40	0.57
9:I:3683:U:H2'	9:I:3684:G:C8	2.38	0.57
9:I:3798:G:O4'	14:N:128:SER:HB3	2.05	0.57
9:I:3825:G:H21	9:I:3830:A:C1'	2.17	0.57
9:I:3867:G:C6	9:I:3875:A:N1	2.73	0.57
9:I:3946:C:H2'	9:I:3947:A:C8	2.39	0.57
9:I:4022:U:P	15:O:171:LYS:HZ3	2.28	0.57
9:I:4151:A:C3'	9:I:4152:C:H6	2.18	0.57
9:I:4157:G:H2'	9:I:4158:G:H8	1.68	0.57
9:I:4214:U:C4'	9:I:4339:U:O2	2.51	0.57
9:I:4319:G:H3'	9:I:4320:A:C8	2.34	0.57
10:J:56:A:H2'	10:J:57:A:N7	2.20	0.57
12:L:50:VAL:HG22	12:L:80:TRP:C	2.29	0.57
13:M:103:GLY:O	13:M:107:SER:OG	2.18	0.57
14:N:14:LYS:NZ	14:N:171:ALA:HB2	2.17	0.57
15:O:119:GLY:C	15:O:120:ILE:HD13	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:140:ILE:HA	15:O:143:VAL:CB	2.30	0.57
18:T:85:VAL:HG11	18:T:95:LEU:HD23	1.86	0.57
18:T:109:LYS:HB3	18:T:111:ILE:CD1	2.31	0.57
21:W:123:PHE:CE2	21:W:126:LEU:HD11	2.40	0.57
23:Y:66:VAL:HG13	23:Y:70:GLN:CG	2.35	0.57
23:Y:104:MET:HE2	23:Y:142:VAL:HG12	1.86	0.57
24:Z:102:MET:O	24:Z:105:VAL:HG12	2.03	0.57
28:d:52:VAL:HG21	28:d:91:LEU:HD13	1.87	0.57
29:e:48:LEU:HD21	29:e:55:LYS:NZ	2.19	0.57
30:f:18:THR:OG1	30:f:35:ALA:HB2	2.03	0.57
32:h:90:HIS:NE2	32:h:96:VAL:HG11	2.19	0.57
38:n:52:THR:O	38:n:58:ALA:HA	2.05	0.57
41:q:97:LYS:CE	41:q:99:THR:HG22	2.35	0.57
49:y:43:ILE:HD12	49:y:46:MET:SD	2.45	0.57
1:A:16:ALA:HB3	1:A:59:GLN:OE1	2.04	0.57
7:G:22:ARG:HG2	9:I:4362:G:OP1	2.05	0.57
8:H:37:TYR:O	30:f:113:LYS:HB2	2.05	0.57
9:I:160:A:N6	9:I:346:G:O2'	2.38	0.57
9:I:371:C:N4	9:I:388:A:N7	2.52	0.57
9:I:388:A:C6	9:I:389:U:H1'	2.40	0.57
9:I:431:A:H2'	9:I:432:G:O4'	2.04	0.57
9:I:580:G:H1	9:I:757:C:H2'	1.70	0.57
9:I:673:G:H2'	9:I:674:A:H8	1.65	0.57
9:I:705:A:H2'	9:I:706:U:C6	2.40	0.57
9:I:787:U:H2'	9:I:788:U:H6	1.68	0.57
9:I:1014:G:H2'	9:I:1015:A:O4'	2.05	0.57
9:I:1060:G:H2'	9:I:1061:U:O4'	2.05	0.57
9:I:1080:A:N6	9:I:1081:A:H62	2.02	0.57
9:I:1763:G:H2'	9:I:1764:C:C1'	2.35	0.57
9:I:1855:U:H2'	9:I:1855:U:O2	2.03	0.57
9:I:1920:C:H2'	9:I:1921:C:H6	1.67	0.57
9:I:1926:C:C2'	9:I:1927:U:H5'	2.34	0.57
9:I:2039:G:N2	9:I:2054:U:O2	2.38	0.57
9:I:2099:A:O2'	9:I:2100:G:H5'	2.05	0.57
9:I:2201:G:H3'	9:I:2202:U:H5''	1.86	0.57
9:I:2280:G:H21	9:I:2283:A:N6	2.03	0.57
9:I:2879:A:C2	9:I:2897:A:H1'	2.40	0.57
9:I:2907:A:C6	9:I:3084:A:N6	2.72	0.57
9:I:2917:G:H2'	9:I:2918:G:O5'	2.05	0.57
9:I:3247:G:N3	9:I:3249:A:C8	2.73	0.57
9:I:3349:U:O3'	9:I:3350:U:H6	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3363:G:H21	9:I:3366:A:N6	2.02	0.57
9:I:3428:C:H2'	9:I:3429:G:H8	1.69	0.57
9:I:3454:A:H2'	9:I:3455:C:H6	1.69	0.57
9:I:3791:A:N7	9:I:3813:G:N3	2.52	0.57
9:I:3821:A:H2'	9:I:3822:A:H1'	1.86	0.57
9:I:3849:G:C1'	46:v:26:ILE:HD12	2.35	0.57
9:I:3871:A:H3'	9:I:3872:A:H8	1.66	0.57
9:I:3887:U:H2'	9:I:3888:C:C6	2.37	0.57
9:I:4019:G:O2'	9:I:4020:G:H5'	2.05	0.57
9:I:4046:OMU:O3'	9:I:4046:OMU:HM22	2.04	0.57
9:I:4172:C:O2'	9:I:4173:A:H5'	2.04	0.57
9:I:4182:G:H2'	9:I:4213:G:C2	2.39	0.57
9:I:4276:G:C2	9:I:4277:U:C6	2.92	0.57
9:I:4316:G:OP2	12:L:115:GLY:HA3	2.04	0.57
9:I:4342:G:OP2	39:o:94:ALA:HB3	2.04	0.57
10:J:6:G:O2'	10:J:7:C:H5'	2.04	0.57
10:J:15:G:H3'	10:J:16:C:H6	1.70	0.57
11:K:2:VAL:HG22	11:K:18:VAL:HG22	1.86	0.57
11:K:245:THR:HG21	11:K:249:VAL:HB	1.86	0.57
13:M:14:VAL:HG11	13:M:19:PHE:CE2	2.40	0.57
14:N:29:ARG:C	14:N:168:LEU:HD13	2.30	0.57
15:O:53:PRO:HA	15:O:60:GLY:HA3	1.87	0.57
15:O:158:GLY:O	15:O:162:ARG:NH1	2.38	0.57
16:R:18:VAL:CG2	16:R:56:VAL:HG22	2.34	0.57
16:R:34:ARG:HD2	16:R:35:ARG:N	2.20	0.57
17:S:20:MET:HE3	17:S:42:THR:HG22	1.87	0.57
18:T:88:GLY:HA2	18:T:120:VAL:HG22	1.87	0.57
20:V:35:LYS:HG2	20:V:36:THR:N	2.19	0.57
22:X:42:LEU:HD23	22:X:67:ILE:HG12	1.86	0.57
25:a:6:ILE:CD1	25:a:64:VAL:HG11	2.32	0.57
28:d:81:THR:HG21	28:d:100:PHE:CB	2.32	0.57
31:g:32:VAL:CG2	31:g:78:VAL:HG22	2.14	0.57
31:g:49:ARG:HB3	31:g:65:TYR:CZ	2.39	0.57
32:h:74:MET:HB3	32:h:77:LYS:HZ3	1.69	0.57
36:l:61:LEU:O	36:l:64:ALA:HB3	2.05	0.57
39:o:25:VAL:CB	39:o:60:VAL:HG22	2.35	0.57
40:p:61:ILE:O	40:p:65:ASN:HB2	2.05	0.57
41:q:5:PHE:HE2	41:q:22:LEU:HD21	1.70	0.57
43:s:49:LYS:HD3	43:s:49:LYS:N	2.19	0.57
43:s:61:LEU:HD12	43:s:62:VAL:N	2.20	0.57
45:u:9:ARG:HD3	45:u:39:ALA:HB1	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:u:77:VAL:HG23	45:u:89:ILE:HD13	1.84	0.57
46:v:10:ARG:C	46:v:29:ARG:HH12	2.13	0.57
48:x:5:LEU:CD1	48:x:52:VAL:HG22	2.35	0.57
2:B:46:LYS:C	2:B:47:LYS:HD3	2.30	0.56
3:C:1:MET:N	9:I:132:U:O2'	2.28	0.56
3:C:53:ASP:O	3:C:57:ILE:HG12	2.05	0.56
8:H:3:ILE:HG21	30:f:72:VAL:HB	1.87	0.56
9:I:480:G:H1'	9:I:482:C:N4	2.20	0.56
9:I:719:C:H5''	9:I:720:G:OP2	2.04	0.56
9:I:1194:C:H5''	9:I:1195:A:OP2	2.04	0.56
9:I:1280:C:H42	29:e:3:ARG:HH12	1.53	0.56
9:I:1446:A:O2'	9:I:1447:C:O4'	2.22	0.56
9:I:1482:A:C2	9:I:1483:A:H1'	2.40	0.56
9:I:1539:G:N3	9:I:1539:G:H2'	2.20	0.56
9:I:1621:G:C1'	9:I:1648:U:H3	2.18	0.56
9:I:1794:A:H61	9:I:1845:A:H5'	1.70	0.56
9:I:1812:G:HO2'	9:I:1831:C:N4	2.02	0.56
9:I:1964:U:O2'	9:I:1965:G:C5'	2.53	0.56
9:I:2208:G:C2	9:I:2209:U:C6	2.93	0.56
9:I:2414:A:C4	9:I:2415:C:C5	2.93	0.56
9:I:2497:G:H2'	9:I:2498:U:C5	2.40	0.56
9:I:2503:A:O2'	9:I:2504:A:H5'	2.05	0.56
9:I:2535:G:N3	9:I:2536:G:C8	2.73	0.56
9:I:2895:G:H2'	9:I:2896:U:C1'	2.35	0.56
9:I:3218:G:O6	9:I:3230:U:O4	2.23	0.56
9:I:3218:G:H2'	9:I:3219:U:H6	1.70	0.56
9:I:3331:C:H3'	9:I:3393:A:N6	2.20	0.56
9:I:3466:G:O2'	9:I:3467:G:O5'	2.16	0.56
9:I:3558:C:H2'	9:I:3559:C:C6	2.40	0.56
9:I:3688:U:O2	9:I:3688:U:H2'	2.05	0.56
9:I:3896:U:H4'	9:I:3897:C:C5	2.40	0.56
9:I:4007:A:C5	9:I:4068:G:N1	2.73	0.56
9:I:4015:C:C2	9:I:4039:G:N2	2.73	0.56
9:I:4022:U:H3'	15:O:171:LYS:NZ	2.20	0.56
9:I:4111:U:H2'	9:I:4112:G:C5'	2.35	0.56
9:I:4280:U:H5'	12:L:70:LYS:HD2	1.86	0.56
10:J:8:G:O2'	38:n:44:SER:OG	2.23	0.56
10:J:52:A:H2'	10:J:53:G:O4'	2.05	0.56
10:J:75:G:N3	10:J:76:U:H5'	2.20	0.56
10:J:111:G:H3'	10:J:112:C:C6	2.39	0.56
15:O:152:ARG:HG2	15:O:153:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:62:PRO:HG3	36:l:26:ALA:HB2	1.87	0.56
19:U:124:LEU:HD13	19:U:126:ILE:CG1	2.35	0.56
20:V:43:GLU:C	20:V:47:VAL:HG23	2.30	0.56
21:W:57:ILE:HD13	21:W:157:ALA:HB2	1.87	0.56
21:W:78:LYS:HG3	21:W:88:PHE:CE2	2.40	0.56
26:b:68:VAL:HG12	26:b:134:VAL:CA	2.34	0.56
28:d:32:LEU:HG	28:d:42:ARG:HG2	1.86	0.56
28:d:93:SER:O	28:d:97:LYS:N	2.32	0.56
29:e:48:LEU:CD2	29:e:55:LYS:HD3	2.35	0.56
31:g:66:ILE:CG1	31:g:96:THR:HG21	2.25	0.56
31:g:106:VAL:HB	31:g:109:ARG:HG3	1.87	0.56
32:h:7:ASN:O	32:h:8:ILE:HD13	2.05	0.56
34:j:12:ALA:HB2	34:j:44:VAL:HG21	1.87	0.56
34:j:24:LYS:HE2	34:j:50:LYS:O	2.04	0.56
37:m:4:ARG:HG3	37:m:6:SER:H	1.70	0.56
40:p:62:ALA:HA	40:p:65:ASN:HB3	1.87	0.56
41:q:21:ARG:NH2	41:q:95:ASP:OD2	2.38	0.56
42:r:69:LEU:C	42:r:70:LYS:HD3	2.29	0.56
47:w:51:SER:O	47:w:54:GLY:N	2.39	0.56
2:B:46:LYS:HB3	2:B:47:LYS:NZ	2.20	0.56
2:B:52:ARG:O	2:B:55:LEU:HB3	2.04	0.56
4:D:15:GLU:O	9:I:272:U:C5'	2.53	0.56
5:E:23:SER:HB2	5:E:33:GLN:CD	2.30	0.56
5:E:39:ALA:O	5:E:43:ALA:HB3	2.04	0.56
8:H:18:PHE:HE2	30:f:81:ARG:HG3	1.70	0.56
8:H:36:PHE:CB	30:f:112:PRO:HB3	2.34	0.56
9:I:36:U:OP1	31:g:120:ARG:HG2	2.05	0.56
9:I:59:A:C5	9:I:109:C:N4	2.73	0.56
9:I:62:C:H5''	9:I:382:A:N6	2.13	0.56
9:I:550:U:O2'	9:I:551:U:H5'	2.05	0.56
9:I:649:G:O2'	9:I:650:C:H5'	2.06	0.56
9:I:1343:C:C1'	9:I:1348:A:H4'	2.34	0.56
9:I:1468:A:N7	9:I:4339:U:C4	2.73	0.56
9:I:1553:A:H2'	9:I:1554:G:H5'	1.86	0.56
9:I:1567:U:O2'	9:I:1568:G:H5'	2.05	0.56
9:I:1589:A:C5	9:I:1590:U:C4	2.93	0.56
9:I:1632:G:H2'	9:I:1632:G:N3	2.20	0.56
9:I:1693:U:H2'	9:I:1694:G:H5'	1.87	0.56
9:I:1721:A:N6	9:I:1766:G:OP2	2.38	0.56
9:I:1801:G:OP2	9:I:1834:C:O2'	2.22	0.56
9:I:1806:U:H2'	9:I:1807:G:H1'	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1901:A:C4	9:I:1902:A:N1	2.73	0.56
9:I:2229:G:OP2	11:K:206:LYS:NZ	2.32	0.56
9:I:2435:A:H2'	9:I:2436:G:H8	1.68	0.56
9:I:2491:G:OP1	40:p:91:ARG:HD2	2.05	0.56
9:I:2659:A:H2'	9:I:2660:G:C8	2.38	0.56
9:I:2857:C:H3'	47:w:49:ARG:HH12	1.70	0.56
9:I:3021:G:H3'	9:I:3037:G:H22	1.68	0.56
9:I:3210:U:C4	9:I:3238:A:N7	2.71	0.56
9:I:3308:G:C2'	9:I:3309:A:C8	2.86	0.56
9:I:3312:U:H3'	11:K:155:ARG:CB	2.35	0.56
9:I:3420:U:H2'	9:I:3422:A:OP2	2.05	0.56
9:I:3555:G:P	9:I:3555:G:H3'	2.46	0.56
9:I:3793:U:H2'	9:I:3794:C:H6	1.67	0.56
9:I:3802:G:H2'	9:I:3804:C:C5	2.40	0.56
9:I:3829:A:OP1	38:n:9:ARG:NH1	2.37	0.56
9:I:3885:G:N1	9:I:3919:A:OP1	2.19	0.56
9:I:4146:C:C2	9:I:4163:G:C2	2.93	0.56
9:I:4216:G:H2'	9:I:4217:C:C6	2.39	0.56
9:I:4223:G:C4'	12:L:190:LYS:CE	2.83	0.56
9:I:4267:C:OP1	12:L:171:THR:OG1	2.21	0.56
10:J:16:C:C3'	10:J:17:G:C8	2.81	0.56
11:K:15:VAL:CG1	11:K:202:ARG:HH12	2.19	0.56
11:K:107:LYS:HD3	11:K:195:GLY:O	2.05	0.56
11:K:144:GLU:HB2	11:K:188:ARG:N	2.18	0.56
11:K:154:ALA:HA	11:K:176:ARG:CB	2.35	0.56
11:K:172:THR:HB	11:K:180:MET:CE	2.34	0.56
11:K:173:LEU:N	11:K:181:ARG:O	2.37	0.56
11:K:250:GLN:NE2	11:K:254:LYS:HD2	2.19	0.56
14:N:59:ILE:HG13	14:N:140:ILE:CG1	2.35	0.56
14:N:124:ARG:HG3	14:N:124:ARG:O	2.05	0.56
22:X:68:HIS:CG	22:X:103:ALA:HB3	2.40	0.56
22:X:69:THR:HG22	22:X:102:ILE:HD11	1.86	0.56
26:b:71:THR:HA	26:b:95:ARG:CZ	2.34	0.56
31:g:31:GLY:O	31:g:78:VAL:HA	2.04	0.56
38:n:34:ILE:HG13	38:n:35:TYR:H	1.69	0.56
38:n:74:GLY:O	38:n:109:ALA:HA	2.05	0.56
39:o:44:GLY:HA2	39:o:61:ARG:O	2.05	0.56
40:p:78:PHE:CD2	40:p:82:LEU:HD11	2.39	0.56
44:t:13:LEU:HG	44:t:68:ASN:C	2.29	0.56
44:t:32:LYS:NZ	44:t:65:GLN:HA	2.20	0.56
44:t:43:LYS:HG3	44:t:58:VAL:CB	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:t:85:ARG:HH22	44:t:101:THR:CA	2.19	0.56
1:A:6:LYS:CG	9:I:1215:A:H5'	2.33	0.56
1:A:68:ARG:HE	9:I:1201:U:C5'	2.18	0.56
2:B:2:LEU:N	2:B:34:GLN:HE22	2.04	0.56
2:B:62:ARG:HH22	9:I:2215:A:H1'	1.69	0.56
4:D:26:VAL:H	9:I:279:C:N4	2.03	0.56
6:F:19:LYS:O	6:F:23:SER:HB3	2.06	0.56
6:F:76:ARG:NE	6:F:78:TYR:OH	2.37	0.56
8:H:27:VAL:HB	30:f:76:GLY:HA2	1.87	0.56
8:H:39:LYS:HA	30:f:110:ARG:CZ	2.35	0.56
9:I:61:U:H2'	9:I:62:C:H6	1.68	0.56
9:I:86:C:H2'	9:I:87:U:C6	2.39	0.56
9:I:178:A:C2'	9:I:179:U:H5'	2.34	0.56
9:I:242:A:C2	9:I:244:U:H2'	2.40	0.56
9:I:370:A:C2'	9:I:371:C:H4'	2.35	0.56
9:I:402:C:N4	23:Y:1:ALA:HB2	2.20	0.56
9:I:489:C:H2'	9:I:490:G:H8	1.69	0.56
9:I:598:C:C5'	27:c:87:ARG:HG2	2.34	0.56
9:I:606:A:H2'	9:I:607:A:C5'	2.35	0.56
9:I:641:A:H1'	27:c:105:THR:O	2.05	0.56
9:I:712:G:N2	9:I:776:A:O4'	2.32	0.56
9:I:787:U:O2'	9:I:788:U:H5'	2.04	0.56
9:I:825:C:O2	27:c:15:ASN:ND2	2.39	0.56
9:I:876:G:H5'	27:c:7:ALA:CB	2.35	0.56
9:I:926:G:H4'	9:I:926:G:OP2	2.05	0.56
9:I:931:C:H2'	9:I:932:G:C8	2.40	0.56
9:I:944:G:N2	9:I:1333:G:O2'	2.34	0.56
9:I:976:A:H3'	9:I:976:A:N3	2.20	0.56
9:I:1040:G:O2'	9:I:1041:A:H5'	2.06	0.56
9:I:1082:U:H4'	9:I:1085:U:C4	2.40	0.56
9:I:1150:A:C4	29:e:37:PRO:HG3	2.41	0.56
9:I:1159:G:C6	9:I:1175:A:N6	2.72	0.56
9:I:1285:U:H2'	9:I:1286:A:H5'	1.87	0.56
9:I:1374:A:H2'	9:I:1375:U:N1	2.20	0.56
9:I:1489:A:C5	9:I:4283:C:C2	2.93	0.56
9:I:1497:C:P	9:I:1500:U:HO2'	2.21	0.56
9:I:1515:G:H2'	9:I:1516:C:O4'	2.06	0.56
9:I:1630:C:C2'	9:I:1631:A:H4'	2.22	0.56
9:I:1634:G:C6	9:I:1635:U:C2	2.94	0.56
9:I:1674:U:N3	9:I:1675:G:C5	2.73	0.56
9:I:1727:A:C5	9:I:1728:C:C4	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1739:C:O2'	9:I:1740:C:H5'	2.05	0.56
9:I:1803:G:C5	9:I:1815:G:C6	2.93	0.56
9:I:1871:A:N6	9:I:1902:A:H62	2.02	0.56
9:I:1979:A:H1'	9:I:1981:G:H5''	1.87	0.56
9:I:2106:U:OP1	13:M:99:LYS:HD2	2.05	0.56
9:I:2241:U:H2'	9:I:2242:A:H8	1.70	0.56
9:I:2350:U:H3'	9:I:2351:C:C6	2.40	0.56
9:I:2370:U:O2	9:I:2401:G:C6	2.58	0.56
9:I:2433:G:O2'	9:I:2434:G:H5'	2.05	0.56
9:I:2441:A:C4	9:I:2465:G:N2	2.73	0.56
9:I:2481:C:P	49:y:10:ARG:HH12	2.26	0.56
9:I:2483:G:OP2	49:y:31:ILE:HD13	2.06	0.56
9:I:2494:A:H2'	9:I:2495:A:C8	2.40	0.56
9:I:2500:C:H5'	16:R:30:THR:OG1	2.05	0.56
9:I:2523:A:H61	37:m:5:ALA:CB	2.08	0.56
9:I:2536:G:H3'	9:I:2537:C:C6	2.40	0.56
9:I:2553:G:H2'	9:I:2554:U:C5	2.40	0.56
9:I:2564:A:H3'	9:I:2565:G:H5''	1.86	0.56
9:I:2714:G:H2'	9:I:2715:C:H6	1.69	0.56
9:I:2729:G:H5''	9:I:2730:G:OP2	2.05	0.56
9:I:2813:C:N4	9:I:2814:C:H41	2.02	0.56
9:I:2822:A:O2'	9:I:2823:U:P	2.62	0.56
9:I:2897:A:H5'	9:I:2898:C:OP2	2.05	0.56
9:I:2906:U:C4	9:I:3085:A:N6	2.74	0.56
9:I:2944:G:C3'	9:I:2945:C:C5	2.88	0.56
9:I:3005:G:H2'	9:I:3006:C:C1'	2.34	0.56
9:I:3059:C:H5''	11:K:25:LYS:CE	2.34	0.56
9:I:3103:A:C6	9:I:3110:A:C2	2.93	0.56
9:I:3129:A:H2'	9:I:3130:U:O4'	2.04	0.56
9:I:3131:A:O2'	9:I:3132:C:H5'	2.05	0.56
9:I:3209:G:O2'	9:I:3237:G:O6	2.11	0.56
9:I:3216:A:C2	9:I:3217:G:H1'	2.41	0.56
9:I:3234:G:C2'	9:I:3235:C:O4'	2.53	0.56
9:I:3337:C:C2	9:I:3338:C:C5	2.93	0.56
9:I:3358:U:H2'	9:I:3359:U:C5	2.40	0.56
9:I:3640:C:H4'	9:I:3641:A:O4'	2.05	0.56
9:I:3710:G:H2'	9:I:3711:G:C8	2.40	0.56
9:I:3761:A:O2'	9:I:3762:A:OP2	2.20	0.56
9:I:3783:G:C5	9:I:3784:G:C8	2.94	0.56
9:I:3826:C:C2	9:I:3829:A:H2	2.24	0.56
9:I:3863:A:C6	9:I:3864:G:C6	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3869:G:N2	9:I:3872:A:H62	2.01	0.56
9:I:3872:A:C6	9:I:3873:G:H1'	2.40	0.56
9:I:3921:C:H4'	9:I:3922:G:H5'	1.86	0.56
9:I:4090:U:O2'	9:I:4091:G:H5'	2.06	0.56
9:I:4208:G:H2'	9:I:4209:C:H6	1.70	0.56
9:I:4212:G:N3	9:I:4341:U:C5'	2.68	0.56
9:I:4239:C:H4'	15:O:141:GLY:O	2.05	0.56
9:I:4255:A:H1'	15:O:142:GLN:CD	2.30	0.56
9:I:4273:U:H5''	9:I:4274:G:H5''	1.87	0.56
10:J:3:C:H5''	10:J:60:G:H21	1.70	0.56
10:J:99:G:C6	10:J:100:A:C4	2.94	0.56
11:K:143:VAL:HA	11:K:189:ALA:HB2	1.86	0.56
11:K:172:THR:CB	11:K:180:MET:HE3	2.33	0.56
11:K:249:VAL:HG13	11:K:254:LYS:CE	2.36	0.56
12:L:25:THR:CG2	12:L:193:VAL:HG13	2.35	0.56
12:L:85:ALA:O	12:L:87:GLY:N	2.36	0.56
12:L:125:TRP:CD1	12:L:160:LYS:HB3	2.40	0.56
12:L:172:VAL:O	12:L:175:LEU:HD11	2.05	0.56
14:N:33:ILE:HA	14:N:155:ILE:HA	1.87	0.56
15:O:100:ASN:CG	15:O:115:GLN:HE22	2.13	0.56
15:O:132:LEU:CD1	15:O:143:VAL:HB	2.36	0.56
16:R:23:LYS:HG3	16:R:28:LEU:CD2	2.26	0.56
17:S:92:GLU:HG2	17:S:93:GLN:H	1.71	0.56
17:S:107:LEU:HD12	17:S:112:PHE:CD2	2.40	0.56
17:S:109:SER:O	17:S:110:GLU:HB3	2.06	0.56
18:T:10:GLU:H	18:T:10:GLU:CD	2.12	0.56
18:T:14:LYS:HA	18:T:14:LYS:HE2	1.88	0.56
18:T:71:ALA:O	18:T:74:THR:OG1	2.14	0.56
19:U:44:ARG:O	19:U:48:ALA:CB	2.53	0.56
19:U:56:ALA:O	19:U:58:LYS:HD3	2.04	0.56
19:U:96:ILE:HG23	19:U:100:LYS:CB	2.35	0.56
19:U:99:GLY:HA3	45:u:81:PRO:HB3	1.86	0.56
20:V:7:GLY:O	20:V:46:ARG:NH2	2.38	0.56
20:V:44:LEU:CA	20:V:47:VAL:HB	2.32	0.56
20:V:62:ASN:O	20:V:65:LEU:N	2.38	0.56
21:W:105:ARG:CD	21:W:151:MET:HE2	2.30	0.56
21:W:108:ILE:CG2	21:W:112:LYS:HE2	2.35	0.56
22:X:154:GLY:O	22:X:195:ILE:HG12	2.05	0.56
24:Z:139:ASN:ND2	24:Z:144:VAL:HG23	2.19	0.56
24:Z:141:PRO:O	24:Z:145:ALA:N	2.38	0.56
26:b:24:LYS:O	26:b:28:ILE:HG12	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:b:70:PRO:HB3	26:b:102:TRP:CZ3	2.40	0.56
28:d:17:PHE:HB2	28:d:61:TYR:HB3	1.86	0.56
29:e:6:LEU:O	29:e:67:LEU:HD13	2.04	0.56
29:e:85:ARG:HG2	29:e:85:ARG:O	2.04	0.56
30:f:10:HIS:C	30:f:73:MET:HE3	2.30	0.56
31:g:106:VAL:HG21	31:g:116:TYR:CD1	2.40	0.56
32:h:74:MET:CA	32:h:77:LYS:HB2	2.28	0.56
34:j:5:LYS:HA	34:j:21:THR:CA	2.34	0.56
38:n:2:LYS:HZ2	38:n:3:LYS:CD	2.04	0.56
38:n:3:LYS:HG3	38:n:6:ARG:NH2	2.20	0.56
40:p:75:TYR:CD1	40:p:78:PHE:CD2	2.94	0.56
41:q:29:THR:HG22	41:q:66:HIS:CB	2.35	0.56
42:r:6:LYS:HD2	42:r:8:ARG:NE	2.21	0.56
42:r:11:ARG:HH12	42:r:98:LYS:HG2	1.70	0.56
42:r:84:ARG:C	42:r:96:ILE:HG22	2.30	0.56
43:s:78:SER:O	43:s:80:TRP:NE1	2.38	0.56
44:t:17:ASP:HB3	44:t:20:LYS:CD	2.35	0.56
44:t:66:VAL:C	44:t:69:VAL:HG22	2.29	0.56
45:u:26:PHE:CZ	45:u:89:ILE:HD12	2.38	0.56
47:w:35:HIS:O	47:w:47:THR:HA	2.05	0.56
49:y:1:ALA:H2	49:y:38:GLU:HB3	1.67	0.56
1:A:58:ARG:HD2	9:I:978:C:O2	2.04	0.56
4:D:11:SER:C	4:D:19:VAL:HG11	2.31	0.56
5:E:51:TYR:HE2	9:I:673:G:H4'	1.69	0.56
8:H:15:LEU:HD12	30:f:86:ARG:HA	1.87	0.56
9:I:61:U:O2	9:I:104:G:N2	2.37	0.56
9:I:158:G:N2	9:I:160:A:H3'	2.20	0.56
9:I:488:C:H2'	9:I:489:C:C6	2.40	0.56
9:I:652:U:O2'	9:I:653:G:H8	1.88	0.56
9:I:774:G:C3'	9:I:775:G:H8	2.16	0.56
9:I:779:A:C2	9:I:802:G:N1	2.74	0.56
9:I:858:G:C2	9:I:859:A:H1'	2.40	0.56
9:I:962:G:H2'	9:I:963:A:H5'	1.88	0.56
9:I:1053:C:O2	9:I:1195:A:N6	2.38	0.56
9:I:1323:A:H2'	9:I:1324:C:C6	2.40	0.56
9:I:1576:C:O3'	48:x:51:ARG:HG2	2.06	0.56
9:I:2110:C:O2'	9:I:2111:C:H5'	2.05	0.56
9:I:2234:A:C2	9:I:2235:A:H1'	2.39	0.56
9:I:2435:A:H2'	9:I:2436:G:O4'	2.05	0.56
9:I:2453:A:H2'	9:I:2454:A:N9	2.21	0.56
9:I:2559:U:H2'	9:I:2560:U:O4'	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2930:G:O2'	9:I:2931:C:O5'	2.23	0.56
9:I:2991:U:C4	9:I:3072:U:H4'	2.39	0.56
9:I:3005:G:H2'	9:I:3006:C:N1	2.21	0.56
9:I:3308:G:O5'	9:I:3309:A:H2'	2.06	0.56
9:I:3335:U:C2'	9:I:3336:G:H5'	2.36	0.56
9:I:3355:G:H2'	9:I:3355:G:N3	2.19	0.56
9:I:3665:A:O2'	9:I:3666:U:H3'	2.05	0.56
9:I:3809:G:O2'	14:N:124:ARG:HG2	2.06	0.56
9:I:3912:A:O2'	34:j:17:PHE:O	2.24	0.56
9:I:3959:C:C2'	9:I:3960:C:O5'	2.54	0.56
9:I:3969:C:H6	9:I:3969:C:O5'	1.88	0.56
9:I:3988:G:H2'	9:I:3988:G:N3	2.21	0.56
9:I:4200:A:H5'	9:I:4346:G:OP1	2.05	0.56
9:I:4280:U:H2'	9:I:4280:U:O2	2.06	0.56
9:I:4324:C:OP1	12:L:59:ARG:NH1	2.30	0.56
10:J:74:G:C4'	45:u:29:ILE:HD12	2.35	0.56
10:J:99:G:C6	10:J:100:A:C5	2.93	0.56
11:K:69:ASN:HD21	11:K:188:ARG:NH2	2.03	0.56
12:L:46:ARG:HB2	12:L:84:LEU:HB2	1.87	0.56
13:M:2:GLU:C	13:M:11:ALA:HB1	2.30	0.56
13:M:57:LYS:HZ2	13:M:59:PRO:HA	1.71	0.56
14:N:148:VAL:O	14:N:148:VAL:HG12	2.06	0.56
17:S:15:GLY:HA2	17:S:47:ILE:HG23	1.87	0.56
19:U:53:MET:HE1	19:U:103:TYR:HB3	1.86	0.56
19:U:95:LEU:HD12	19:U:95:LEU:C	2.30	0.56
20:V:21:PHE:HB2	20:V:69:ARG:NH1	2.19	0.56
21:W:107:SER:HA	21:W:110:ARG:CG	2.35	0.56
21:W:160:VAL:CG1	21:W:166:GLU:HB2	2.36	0.56
21:W:180:VAL:CG1	21:W:193:VAL:HA	2.36	0.56
22:X:4:VAL:HG22	22:X:9:ILE:HB	1.86	0.56
22:X:106:ARG:HG2	22:X:107:LYS:HZ3	1.71	0.56
23:Y:106:PHE:CD1	23:Y:158:LEU:HD21	2.41	0.56
24:Z:97:ILE:HG21	24:Z:115:LEU:CD1	2.35	0.56
27:c:35:ILE:O	27:c:38:VAL:HG22	2.05	0.56
31:g:29:LYS:C	31:g:80:LEU:HD12	2.29	0.56
40:p:42:GLY:HA2	40:p:45:ALA:CB	2.35	0.56
41:q:1:MET:O	41:q:15:SER:HA	2.04	0.56
41:q:3:ALA:CA	41:q:40:MET:O	2.54	0.56
46:v:18:GLY:HA2	46:v:56:LYS:CE	2.36	0.56
47:w:33:HIS:HB3	47:w:55:MET:CE	2.27	0.56
1:A:2:LYS:HB2	9:I:1215:A:P	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ARG:HH11	9:I:1057:G:C1'	2.17	0.56
8:H:1:PRO:HD2	30:f:101:VAL:HG12	1.88	0.56
9:I:582:A:C2	9:I:583:G:H1'	2.40	0.56
9:I:671:U:C2	9:I:733:G:O6	2.58	0.56
9:I:835:G:H2'	9:I:836:U:O4'	2.06	0.56
9:I:916:G:H2'	9:I:917:A:H8	1.70	0.56
9:I:1295:C:H2'	9:I:1296:G:H5'	1.88	0.56
9:I:1710:C:C2	9:I:1711:C:C5	2.93	0.56
9:I:2217:C:C2'	9:I:2218:A:H5'	2.35	0.56
9:I:2275:G:C5	9:I:2294:A:C8	2.94	0.56
9:I:2338:C:H2'	9:I:2339:U:H6	1.70	0.56
9:I:2538:C:H6	9:I:2538:C:O5'	1.89	0.56
9:I:2639:C:O2	9:I:2639:C:H2'	2.04	0.56
9:I:2718:U:H2'	9:I:2719:G:C5	2.41	0.56
9:I:3001:C:O2	9:I:3002:A:H1'	2.06	0.56
9:I:3079:C:H2'	9:I:3080:A:H5'	1.86	0.56
9:I:3158:A:H2'	9:I:3159:A:C5'	2.35	0.56
9:I:3160:G:N3	9:I:3160:G:C2'	2.67	0.56
9:I:3194:A:H2'	9:I:3195:A:O4'	2.05	0.56
9:I:3362:C:N4	9:I:3368:C:H42	2.02	0.56
9:I:3587:G:H2'	9:I:3692:A:N6	2.19	0.56
9:I:3887:U:O4	9:I:3916:C:N4	2.37	0.56
9:I:3948:G:H1	9:I:3992:OMC:HN41	1.52	0.56
9:I:4241:G:H2'	9:I:4242:A:C8	2.41	0.56
9:I:4253:G:N3	15:O:34:ARG:NH2	2.53	0.56
9:I:4347:G:H2'	9:I:4348:A:O4'	2.05	0.56
10:J:13:U:O2	10:J:105:G:N2	2.37	0.56
11:K:143:VAL:HG13	11:K:189:ALA:HB2	1.87	0.56
11:K:200:MET:HG3	11:K:201:LEU:HD12	1.86	0.56
12:L:110:THR:O	12:L:201:LEU:HA	2.04	0.56
12:L:110:THR:HG22	12:L:169:ARG:CG	2.35	0.56
13:M:119:ILE:O	13:M:186:VAL:O	2.23	0.56
14:N:39:VAL:HG21	14:N:48:LEU:HD23	1.86	0.56
14:N:93:GLU:CA	14:N:96:TRP:HB2	2.18	0.56
15:O:126:THR:CG2	15:O:127:GLN:H	2.14	0.56
18:T:92:LEU:CD1	18:T:105:ILE:HG23	2.36	0.56
20:V:19:ALA:HA	20:V:22:ARG:CD	2.36	0.56
21:W:20:TRP:HB3	21:W:36:HIS:NE2	2.21	0.56
21:W:29:PHE:HA	21:W:39:ASN:ND2	2.20	0.56
22:X:151:GLU:CD	22:X:153:SER:HG	2.11	0.56
23:Y:123:MET:HG3	23:Y:145:ARG:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Z:128:VAL:O	24:Z:128:VAL:HG13	2.05	0.56
25:a:3:HIS:ND1	25:a:65:GLU:HG3	2.20	0.56
25:a:38:ARG:CD	25:a:97:THR:HG23	2.36	0.56
26:b:70:PRO:HB3	26:b:102:TRP:HH2	1.69	0.56
28:d:77:ARG:O	28:d:81:THR:HG23	2.05	0.56
28:d:94:GLU:HA	28:d:97:LYS:HB3	1.87	0.56
32:h:24:VAL:HA	32:h:28:ARG:CB	2.36	0.56
34:j:44:VAL:HG22	34:j:45:ILE:N	2.20	0.56
36:l:51:LYS:HD3	36:l:51:LYS:N	2.19	0.56
38:n:4:SER:HA	38:n:7:ILE:CD1	2.33	0.56
38:n:78:ALA:HB3	38:n:112:ALA:CB	2.31	0.56
39:o:6:GLN:HG2	39:o:9:GLN:NE2	2.20	0.56
39:o:42:PHE:O	39:o:60:VAL:HG11	2.05	0.56
39:o:47:ILE:HG22	39:o:99:LEU:CB	2.35	0.56
42:r:41:LYS:O	42:r:44:ALA:HB3	2.05	0.56
49:y:4:ILE:CG2	49:y:58:GLU:HA	2.36	0.56
1:A:24:ALA:HA	1:A:27:LYS:HG2	1.87	0.56
1:A:84:ARG:HH21	9:I:1058:C:H2'	1.70	0.56
2:B:1:SER:HA	2:B:34:GLN:OE1	2.05	0.56
2:B:45:HIS:O	2:B:47:LYS:HG2	2.05	0.56
7:G:55:ILE:CD1	7:G:58:ARG:HD2	2.36	0.56
9:I:692:G:O2'	9:I:693:A:H5'	2.06	0.56
9:I:926:G:O2'	9:I:927:G:H5'	2.04	0.56
9:I:961:C:H1'	9:I:1200:A:C5	2.40	0.56
9:I:1002:G:H21	9:I:1004:A:H5'	1.69	0.56
9:I:1078:G:O2'	9:I:1079:A:H5'	2.06	0.56
9:I:1128:C:H5	9:I:1138:G:HO2'	1.51	0.56
9:I:1128:C:H5	9:I:1138:G:O2'	1.88	0.56
9:I:1345:A:OP2	9:I:1345:A:H2'	2.06	0.56
9:I:1405:U:H1'	9:I:4421:G:N2	2.16	0.56
9:I:1408:C:H5'	9:I:3407:A:C8	2.41	0.56
9:I:1509:G:N1	9:I:4123:U:H2'	2.20	0.56
9:I:1612:U:H3'	9:I:1613:U:C6	2.40	0.56
9:I:1708:C:C2	9:I:1709:C:C5	2.93	0.56
9:I:1837:C:C3'	9:I:1838:G:O4'	2.53	0.56
9:I:1980:A:H4'	44:t:43:LYS:N	2.19	0.56
9:I:2087:C:C5	9:I:2171:C:H1'	2.41	0.56
9:I:2346:U:H2'	9:I:2347:U:C5'	2.33	0.56
9:I:2791:C:O2'	9:I:2792:C:H5'	2.06	0.56
9:I:2832:G:HO2'	9:I:2833:G:P	2.25	0.56
9:I:3201:G:H1	9:I:3245:U:C2'	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3233:A:OP2	9:I:3233:A:H8	1.87	0.56
9:I:3247:G:H22	9:I:3252:U:H3	1.54	0.56
9:I:3391:G:C2'	9:I:3392:U:H5'	2.35	0.56
9:I:3711:G:C2	9:I:3712:G:C8	2.94	0.56
9:I:3725:U:H2'	9:I:3726:C:H6	1.69	0.56
9:I:3858:C:H2'	9:I:3859:G:O4'	2.06	0.56
9:I:4023:G:H5'	15:O:172:GLU:O	2.06	0.56
9:I:4155:G:C3'	9:I:4156:A:H8	2.18	0.56
10:J:44:A:C8	14:N:91:ARG:HG3	2.41	0.56
11:K:16:VAL:HB	11:K:203:VAL:N	2.12	0.56
12:L:39:ASP:CG	12:L:41:ALA:H	2.13	0.56
13:M:1:MET:HB2	13:M:14:VAL:HG22	1.87	0.56
13:M:139:LYS:HE3	13:M:140:ASP:OD1	2.05	0.56
13:M:170:ARG:HH22	13:M:176:ASP:H	1.49	0.56
15:O:8:VAL:CG2	15:O:51:PHE:HE1	2.18	0.56
17:S:10:VAL:CG2	17:S:17:ARG:HD3	2.35	0.56
17:S:19:VAL:HA	17:S:44:LYS:NZ	2.21	0.56
19:U:109:PRO:HB2	19:U:111:GLU:CD	2.31	0.56
21:W:1:VAL:CG2	21:W:48:ASN:HD21	2.16	0.56
21:W:94:LEU:HD11	21:W:145:LEU:HD11	1.88	0.56
25:a:66:ALA:HB1	25:a:67:PRO:HD2	1.87	0.56
27:c:103:VAL:HG23	27:c:123:GLU:C	2.31	0.56
30:f:55:ALA:O	30:f:59:ALA:N	2.31	0.56
31:g:31:GLY:O	31:g:79:ILE:N	2.37	0.56
32:h:47:LEU:HB3	32:h:52:ILE:CD1	2.22	0.56
32:h:63:VAL:O	32:h:68:LEU:HD22	2.05	0.56
38:n:25:LEU:HD13	38:n:38:VAL:CG2	2.36	0.56
40:p:81:GLY:HA2	40:p:116:LEU:HA	1.86	0.56
41:q:6:GLN:HB2	41:q:11:GLN:CD	2.29	0.56
41:q:62:GLU:O	41:q:97:LYS:N	2.39	0.56
43:s:7:LEU:HD12	43:s:8:LEU:N	2.21	0.56
43:s:82:LYS:HD3	43:s:84:TYR:HE1	1.71	0.56
44:t:24:VAL:CG1	44:t:34:ILE:H	2.16	0.56
46:v:28:VAL:O	46:v:28:VAL:HG23	2.06	0.56
1:A:5:MET:HE2	9:I:982:A:C4'	2.34	0.56
4:D:18:ILE:HG21	4:D:45:ASP:HB3	1.87	0.56
9:I:276:C:OP2	9:I:276:C:H3'	2.05	0.56
9:I:704:G:C5	9:I:705:A:C8	2.94	0.56
9:I:826:U:H2'	9:I:869:U:C4	2.40	0.56
9:I:1224:A:O2'	9:I:1225:C:O5'	2.24	0.56
9:I:1268:A:N3	9:I:1311:G:N2	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1435:U:H2'	9:I:1436:A:C8	2.41	0.56
9:I:1479:A:C8	9:I:4326:U:C4	2.94	0.56
9:I:1577:G:H2'	9:I:1578:U:C6	2.40	0.56
9:I:1577:G:O2'	9:I:1578:U:H5'	2.05	0.56
9:I:1715:G:H4'	9:I:1716:A:OP1	2.06	0.56
9:I:1803:G:H1'	9:I:1815:G:N2	2.20	0.56
9:I:1949:A:C2	9:I:1950:G:H1'	2.40	0.56
9:I:1986:C:H2'	9:I:1987:C:H6	1.70	0.56
9:I:1995:G:H21	9:I:1996:G:H1'	1.70	0.56
9:I:2058:U:O2'	9:I:2059:G:O5'	2.22	0.56
9:I:2205:A:H2'	9:I:2206:A:H8	1.69	0.56
9:I:2319:A:H62	9:I:2682:U:H3	0.66	0.56
9:I:2383:G:O2'	9:I:2384:U:H5'	2.06	0.56
9:I:2524:C:H2'	9:I:2525:G:C5'	2.36	0.56
9:I:2575:U:O2'	9:I:2576:U:O5'	2.20	0.56
9:I:2645:A:O3'	40:p:80:ASN:ND2	2.39	0.56
9:I:2665:G:H2'	9:I:2666:C:C2	2.39	0.56
9:I:2926:G:C2	9:I:3056:U:O2	2.59	0.56
9:I:2937:U:C2	9:I:2938:G:C8	2.94	0.56
9:I:3052:C:H4'	9:I:3053:U:C5'	2.36	0.56
9:I:3207:A:H2	9:I:3239:A:N6	1.99	0.56
9:I:3248:A:N1	9:I:4211:C:H5'	2.20	0.56
9:I:3351:G:O2'	9:I:3378:G:N2	2.35	0.56
9:I:3756:U:H5'	46:v:31:ARG:CZ	2.35	0.56
9:I:3770:G:H2'	9:I:3771:G:H5'	1.85	0.56
9:I:3963:A:H62	9:I:3975:G:H1'	1.69	0.56
9:I:4037:G:H8	9:I:4260:A:H5'	1.70	0.56
9:I:4170:C:H2'	9:I:4171:G:C8	2.41	0.56
9:I:4212:G:O3'	39:o:95:LYS:CB	2.54	0.56
9:I:4222:U:C5'	17:S:70:ARG:HH22	2.18	0.56
9:I:4312:U:OP1	9:I:4331:A:H1'	2.06	0.56
9:I:4395:G:H2'	9:I:4396:A:C8	2.41	0.56
9:I:4413:C:H2'	9:I:4414:C:H6	1.70	0.56
11:K:68:ARG:HH21	11:K:128:THR:HG21	1.71	0.56
11:K:83:ASP:OD1	11:K:85:ASN:OD1	2.24	0.56
11:K:107:LYS:HB2	11:K:195:GLY:CA	2.34	0.56
11:K:128:THR:OG1	11:K:190:THR:HG23	2.06	0.56
12:L:115:GLY:C	12:L:116:LYS:HD3	2.29	0.56
13:M:40:ARG:HD2	13:M:92:HIS:CB	2.36	0.56
13:M:40:ARG:HD2	13:M:92:HIS:HB2	1.87	0.56
14:N:35:LEU:HD21	14:N:98:PHE:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:132:ARG:HD2	14:N:132:ARG:N	2.21	0.56
15:O:53:PRO:HD3	15:O:61:TRP:NE1	2.21	0.56
15:O:100:ASN:CB	15:O:116:LEU:HB2	2.35	0.56
17:S:52:VAL:HG23	17:S:56:ASP:CB	2.35	0.56
20:V:52:ILE:O	20:V:55:ALA:N	2.28	0.56
22:X:10:ARG:NH1	22:X:177:LEU:HD13	2.20	0.56
22:X:56:ILE:CG2	22:X:65:VAL:HG22	2.35	0.56
22:X:107:LYS:HG2	22:X:143:LEU:HD12	1.86	0.56
23:Y:2:ARG:HD2	23:Y:114:ARG:NE	2.21	0.56
23:Y:101:VAL:HG13	23:Y:106:PHE:HB2	1.87	0.56
24:Z:82:GLY:O	24:Z:121:SER:N	2.32	0.56
25:a:81:ASN:HB3	25:a:84:VAL:CG1	2.33	0.56
26:b:140:VAL:HA	26:b:143:MET:CE	2.27	0.56
27:c:63:LYS:CB	27:c:70:VAL:HG11	2.31	0.56
27:c:105:THR:HA	27:c:121:GLY:O	2.06	0.56
28:d:21:GLY:O	28:d:22:ASN:HB2	2.04	0.56
29:e:14:ILE:HG12	29:e:68:ARG:HG3	1.87	0.56
32:h:12:LYS:C	32:h:16:ILE:HD12	2.29	0.56
38:n:101:ARG:O	38:n:104:ALA:HB3	2.06	0.56
44:t:39:ASN:HB3	44:t:62:ALA:HB3	1.87	0.56
44:t:80:ASP:CG	44:t:96:LYS:O	2.49	0.56
45:u:25:LYS:HB3	45:u:41:GLU:OE1	2.05	0.56
46:v:20:SER:CA	46:v:56:LYS:HG2	2.36	0.56
48:x:27:LEU:HD22	48:x:27:LEU:N	2.19	0.56
48:x:33:SER:CB	48:x:35:GLN:HG3	2.36	0.56
2:B:10:ILE:HD13	2:B:30:LEU:N	2.21	0.56
9:I:12:U:H3'	9:I:13:U:C5	2.40	0.56
9:I:108:A:N1	9:I:325:G:N1	2.54	0.56
9:I:320:A:H2'	9:I:321:C:H6	1.71	0.56
9:I:372:A:N1	9:I:390:G:H1'	2.20	0.56
9:I:526:G7M:HN72	9:I:527:C:H5	1.71	0.56
9:I:665:G:P	9:I:724:G:H21	2.25	0.56
9:I:809:C:C2'	9:I:810:C:O4'	2.54	0.56
9:I:951:U:O3'	9:I:963:A:N6	2.39	0.56
9:I:995:A:C4	9:I:996:U:H5	2.24	0.56
9:I:1387:C:H2'	9:I:1387:C:O2	2.05	0.56
9:I:1401:4OC:H2'	9:I:1402:C:C6	2.41	0.56
9:I:1511:C:H5''	9:I:1512:U:OP2	2.06	0.56
9:I:1579:C:C2	9:I:1608:G:C6	2.93	0.56
9:I:1727:A:H1'	9:I:1728:C:H5'	1.88	0.56
9:I:1820:A:C4	13:M:132:LYS:HB2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1864:C:O2	9:I:1864:C:C2'	2.52	0.56
9:I:1872:G:H1	9:I:1900:G:H3'	1.70	0.56
9:I:1902:A:C8	9:I:1903:U:N3	2.74	0.56
9:I:1928:A:HO2'	9:I:1929:A:P	2.28	0.56
9:I:1983:A:C6	9:I:1984:C:H1'	2.41	0.56
9:I:2159:G:H4'	13:M:95:LYS:HZ2	1.69	0.56
9:I:2218:A:H2'	9:I:2219:C:O4'	2.06	0.56
9:I:2465:G:C6	9:I:2466:A:C2	2.94	0.56
9:I:2743:U:HO2'	9:I:2744:G:H8	1.54	0.56
9:I:2975:U:O2	9:I:3005:G:C2	2.59	0.56
9:I:3205:A:O2'	9:I:3206:U:H5'	2.05	0.56
9:I:3216:A:P	9:I:3231:G:H1	2.29	0.56
9:I:3286:G:N2	9:I:3322:G:O4'	2.39	0.56
9:I:3323:A:H2'	9:I:3323:A:N3	2.19	0.56
9:I:3342:A:H61	9:I:3388:C:H1'	1.69	0.56
9:I:3372:G:OP2	9:I:3372:G:H8	1.89	0.56
9:I:3409:3TD:H3'	9:I:3410:A:C8	2.41	0.56
9:I:3455:C:H5''	9:I:3456:5MC:OP2	2.06	0.56
9:I:3691:U:HO2'	9:I:3692:A:H8	1.53	0.56
9:I:3780:G:C6	34:j:33:LEU:HD12	2.40	0.56
9:I:3807:C:H1'	14:N:152:ASP:O	2.06	0.56
9:I:3826:C:O2	9:I:3829:A:H2	1.89	0.56
9:I:4201:U:H6	9:I:4201:U:H5''	1.71	0.56
9:I:4223:G:C5'	12:L:190:LYS:HE3	2.35	0.56
9:I:4245:G:OP2	15:O:1:SER:OG	2.22	0.56
9:I:4266:C:H5''	12:L:173:GLN:CD	2.31	0.56
9:I:4396:A:OP2	31:g:43:LYS:NZ	2.35	0.56
10:J:27:C:OP2	38:n:35:TYR:OH	2.24	0.56
10:J:59:C:O2'	10:J:60:G:H5'	2.05	0.56
10:J:82:G:C6	10:J:93:A:C6	2.94	0.56
11:K:90:ILE:HG22	11:K:104:LEU:CD1	2.35	0.56
11:K:261:ARG:HA	11:K:264:LYS:HZ2	1.71	0.56
12:L:48:ILE:CD1	12:L:90:PHE:CE1	2.88	0.56
15:O:8:VAL:CG2	15:O:51:PHE:CE1	2.89	0.56
16:R:1:MET:HG2	16:R:2:LYS:N	2.21	0.56
16:R:3:THR:HG22	16:R:4:PHE:N	2.20	0.56
16:R:23:LYS:HE3	16:R:28:LEU:HA	1.87	0.56
16:R:55:ILE:HG23	16:R:125:TYR:CE2	2.39	0.56
16:R:59:ALA:O	16:R:97:PRO:HB2	2.05	0.56
16:R:100:VAL:HA	16:R:103:ILE:HD11	1.88	0.56
18:T:26:GLY:O	18:T:27:LEU:HD23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:114:ARG:O	19:U:118:LYS:HG3	2.05	0.56
20:V:26:GLY:C	20:V:75:ILE:HG13	2.31	0.56
21:W:29:PHE:HA	21:W:39:ASN:HD21	1.70	0.56
21:W:166:GLU:O	21:W:170:ILE:HG13	2.05	0.56
21:W:222:ARG:HD2	21:W:223:SER:N	2.20	0.56
22:X:136:ALA:HA	22:X:139:ASN:ND2	2.18	0.56
23:Y:129:VAL:HG11	23:Y:134:TYR:CB	2.36	0.56
23:Y:187:ARG:NH2	23:Y:194:ILE:O	2.39	0.56
32:h:39:ALA:HB3	32:h:42:VAL:CG1	2.36	0.56
40:p:89:ILE:C	40:p:94:LEU:HG	2.30	0.56
43:s:14:PRO:HA	43:s:32:LEU:HA	1.87	0.56
1:A:13:VAL:HG22	1:A:59:GLN:CG	2.35	0.56
1:A:31:SER:HA	1:A:41:TRP:HZ2	1.69	0.56
1:A:43:ALA:O	1:A:47:LEU:N	2.38	0.56
1:A:73:LEU:CD2	9:I:1357:U:H4'	2.36	0.56
2:B:58:MET:N	2:B:58:MET:HE2	2.21	0.56
4:D:40:LYS:CE	9:I:275:G:H5''	2.35	0.56
5:E:24:ARG:HB3	9:I:719:C:OP1	2.06	0.56
7:G:3:LYS:HE3	9:I:331:G:O5'	2.06	0.56
8:H:39:LYS:HG2	9:I:4428:C:C5'	2.36	0.56
9:I:186:G:N2	9:I:188:A:H3'	2.21	0.56
9:I:472:U:C2	9:I:473:G:C8	2.94	0.56
9:I:651:U:C4	9:I:752:A:C5	2.94	0.56
9:I:719:C:OP2	9:I:720:G:O2'	2.24	0.56
9:I:899:A:H2'	9:I:900:A:N9	2.21	0.56
9:I:937:A:HO2'	26:b:94:ARG:HH22	1.53	0.56
9:I:1386:G:C4	9:I:1387:C:C5	2.94	0.56
9:I:1400:G:O6	9:I:4408:G:N2	2.39	0.56
9:I:1702:U:H2'	9:I:1703:A:C1'	2.35	0.56
9:I:1703:A:H5''	9:I:1704:A:C5'	2.35	0.56
9:I:1778:A:N3	9:I:1778:A:C3'	2.66	0.56
9:I:1828:U:O2	44:t:68:ASN:OD1	2.24	0.56
9:I:1836:C:C3'	44:t:3:LYS:HZ2	2.14	0.56
9:I:2035:G:N1	9:I:2059:G:N7	2.54	0.56
9:I:2131:A:H2'	9:I:2132:A:O4'	2.06	0.56
9:I:2412:A:C2	9:I:2413:U:H1'	2.41	0.56
9:I:2623:A:O2'	9:I:2624:U:OP2	2.21	0.56
9:I:2994:G:C2'	9:I:2995:G:C8	2.89	0.56
9:I:3214:U:H2'	9:I:3215:G:N9	2.20	0.56
9:I:3216:A:C5'	9:I:3232:G:H22	2.19	0.56
9:I:3318:G:H2'	9:I:3319:U:H6	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3322:G:C6	11:K:220:ARG:NH2	2.73	0.56
9:I:3341:A:O2'	9:I:3342:A:H8	1.86	0.56
9:I:3348:A:C4	9:I:3349:U:O4'	2.59	0.56
9:I:3489:U:O5'	9:I:3489:U:H6	1.89	0.56
9:I:3730:U:H2'	9:I:3731:G:C5'	2.36	0.56
9:I:3755:C:O4'	9:I:3882:A:H1'	2.05	0.56
9:I:3823:U:C3'	9:I:3824:G:C8	2.86	0.56
9:I:4094:A:H2'	9:I:4095:C:C6	2.41	0.56
9:I:4125:G:O2'	9:I:4126:A:H5'	2.06	0.56
9:I:4131:U:O5'	9:I:4131:U:H6	1.89	0.56
9:I:4196:G:C2'	9:I:4197:C:H5	2.19	0.56
9:I:4223:G:H4'	12:L:190:LYS:CG	2.36	0.56
9:I:4331:A:H2'	9:I:4332:G:N9	2.20	0.56
10:J:49:A:P	38:n:66:ASN:HB2	2.45	0.56
10:J:74:G:N3	45:u:88:HIS:HE1	2.04	0.56
12:L:115:GLY:HA2	12:L:167:ASN:HB2	1.88	0.56
13:M:105:LEU:O	13:M:109:LEU:HB3	2.06	0.56
14:N:124:ARG:HD3	14:N:160:LYS:C	2.31	0.56
15:O:16:VAL:CG2	15:O:25:ILE:HG12	2.33	0.56
16:R:80:HIS:O	16:R:81:ILE:C	2.49	0.56
17:S:36:GLY:HA2	17:S:107:LEU:CD1	2.36	0.56
17:S:65:THR:C	17:S:67:LYS:H	2.14	0.56
18:T:79:LEU:HD22	18:T:116:VAL:CB	2.36	0.56
21:W:99:THR:HG23	21:W:172:GLU:HG2	1.86	0.56
21:W:107:SER:C	21:W:110:ARG:HG2	2.30	0.56
22:X:19:SER:HG	22:X:21:TRP:CD1	2.24	0.56
23:Y:155:LYS:O	23:Y:159:GLU:HG2	2.06	0.56
24:Z:39:PHE:CE1	24:Z:132:ILE:HG21	2.41	0.56
24:Z:39:PHE:HE1	24:Z:132:ILE:HG21	1.71	0.56
25:a:36:ILE:HD11	25:a:62:MET:CG	2.36	0.56
27:c:77:VAL:HG23	27:c:126:CYS:CA	2.36	0.56
28:d:17:PHE:CD2	28:d:61:TYR:HD2	2.24	0.56
30:f:113:LYS:HZ3	30:f:116:ARG:HD3	1.71	0.56
38:n:3:LYS:HD2	38:n:6:ARG:NH2	2.21	0.56
38:n:7:ILE:O	38:n:11:THR:N	2.39	0.56
38:n:89:VAL:HG13	38:n:114:LEU:CD1	2.29	0.56
40:p:93:ILE:O	40:p:97:ILE:HG13	2.06	0.56
41:q:4:VAL:HG12	41:q:5:PHE:N	2.21	0.56
41:q:52:PRO:O	41:q:53:PHE:HB2	2.06	0.56
42:r:7:HIS:ND1	42:r:10:ALA:HB2	2.20	0.56
43:s:19:LYS:O	43:s:22:THR:OG1	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:w:4:CYS:SG	47:w:8:GLY:N	2.78	0.56
2:B:57:ARG:NH1	2:B:58:MET:HE1	2.19	0.56
5:E:7:ILE:H	25:a:45:ARG:HH22	1.54	0.56
9:I:355:A:O2'	9:I:367:U:H4'	2.06	0.56
9:I:500:C:H1'	9:I:548:C:H1'	1.88	0.56
9:I:1122:U:H2'	9:I:1123:G:N9	2.21	0.56
9:I:1307:U:P	32:h:97:ARG:HG3	2.45	0.56
9:I:1491:G:N2	9:I:1509:G:H1'	2.21	0.56
9:I:1612:U:P	48:x:57:ASN:HD21	2.29	0.56
9:I:1650:U:H2'	9:I:1651:C:O4'	2.06	0.56
9:I:1689:G:C4	9:I:1705:G:N2	2.74	0.56
9:I:1801:G:OP2	9:I:1834:C:C1'	2.54	0.56
9:I:1955:C:N3	9:I:1972:A:H2'	2.21	0.56
9:I:2075:A:C2	9:I:2076:U:C5	2.94	0.56
9:I:2207:G:C4	9:I:2208:G:C8	2.94	0.56
9:I:2365:C:H4'	9:I:2366:A:OP1	2.06	0.56
9:I:2369:G:C6	9:I:2370:U:C2	2.94	0.56
9:I:2373:C:C2	9:I:2374:G:N7	2.73	0.56
9:I:2405:A:H5''	9:I:2406:C:O5'	2.06	0.56
9:I:2545:G:H1'	9:I:4245:G:O2'	2.06	0.56
9:I:2644:C:C2'	9:I:2645:A:O5'	2.53	0.56
9:I:2657:G:O2'	9:I:2658:C:H5'	2.05	0.56
9:I:2909:U:O2	9:I:3082:G:C6	2.58	0.56
9:I:3107:G:H3'	9:I:3108:A:C5'	2.36	0.56
9:I:3825:G:N3	9:I:3830:A:C2	2.74	0.56
9:I:3885:G:N2	9:I:3918:C:H2'	2.20	0.56
9:I:4167:G:C2	9:I:4168:G:C4	2.94	0.56
9:I:4248:U:H3'	9:I:4249:C:H5''	1.87	0.56
9:I:4248:U:C3'	9:I:4249:C:H5''	2.36	0.56
9:I:4417:A:H2'	9:I:4418:G:C8	2.41	0.56
11:K:140:VAL:HG13	11:K:190:THR:O	2.06	0.56
12:L:4:LEU:H	12:L:101:PHE:HZ	1.53	0.56
12:L:12:THR:OG1	39:o:8:GLU:CD	2.49	0.56
13:M:147:LEU:HB2	13:M:183:PHE:HD1	1.71	0.56
13:M:180:LEU:O	13:M:186:VAL:HG21	2.05	0.56
16:R:95:ARG:NH1	16:R:96:ARG:HB2	2.21	0.56
16:R:115:GLY:N	16:R:118:MET:HE2	2.21	0.56
17:S:3:GLN:O	17:S:4:GLU:C	2.48	0.56
17:S:35:VAL:C	17:S:107:LEU:HD21	2.30	0.56
18:T:95:LEU:HB3	18:T:100:ILE:HD11	1.88	0.56
19:U:3:GLN:OE1	19:U:4:PRO:HD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:53:MET:HE3	19:U:103:TYR:HD2	1.70	0.56
19:U:58:LYS:HZ1	19:U:112:LEU:HD21	1.70	0.56
20:V:30:ARG:NE	20:V:30:ARG:CA	2.69	0.56
20:V:51:LEU:N	20:V:51:LEU:HD22	2.20	0.56
20:V:71:ARG:HG3	20:V:71:ARG:O	2.05	0.56
21:W:157:ALA:CA	21:W:179:PRO:HG2	2.33	0.56
22:X:67:ILE:CD1	22:X:100:ILE:HD11	2.36	0.56
23:Y:141:VAL:HA	23:Y:179:GLY:O	2.05	0.56
23:Y:173:ASP:N	23:Y:178:GLU:O	2.36	0.56
31:g:71:HIS:CE1	31:g:73:LEU:HD23	2.41	0.56
32:h:106:ARG:HE	32:h:112:ARG:NH2	2.04	0.56
38:n:27:VAL:CG1	38:n:102:VAL:HG13	2.36	0.56
38:n:38:VAL:CG1	38:n:86:ILE:HG21	2.20	0.56
39:o:22:GLY:HA2	39:o:45:VAL:HG22	1.88	0.56
39:o:38:ARG:HG3	39:o:39:LEU:N	2.20	0.56
39:o:71:ARG:HG2	39:o:73:PHE:CE2	2.41	0.56
43:s:56:GLU:OE2	43:s:88:LYS:HD3	2.06	0.56
44:t:66:VAL:O	44:t:69:VAL:HG22	2.06	0.56
45:u:25:LYS:CD	45:u:43:ASP:HA	2.36	0.56
49:y:23:LEU:HD21	49:y:28:LEU:HB2	1.88	0.56
2:B:86:LEU:HD21	9:I:2215:A:H4'	1.88	0.55
4:D:16:LYS:N	9:I:273:A:P	2.75	0.55
6:F:10:ASP:HB2	6:F:36:SER:OG	2.06	0.55
6:F:61:THR:HG22	6:F:63:GLU:N	2.13	0.55
7:G:1:ASN:OD1	9:I:348:A:H5''	2.07	0.55
7:G:33:VAL:HG22	7:G:48:ALA:C	2.31	0.55
8:H:39:LYS:HE3	8:H:41:THR:CG2	2.36	0.55
9:I:113:U:O4'	9:I:352:A:O2'	2.24	0.55
9:I:249:A:N3	9:I:249:A:H5'	2.21	0.55
9:I:276:C:O2'	9:I:277:G:H5'	2.05	0.55
9:I:411:A:N7	9:I:430:A:N6	2.54	0.55
9:I:882:C:H2'	9:I:883:U:C6	2.41	0.55
9:I:935:C:O2	9:I:935:C:H2'	2.05	0.55
9:I:1432:A:H3'	9:I:1433:A:C8	2.41	0.55
9:I:1498:C:C5	9:I:1499:U:O2'	2.57	0.55
9:I:1812:G:C5	9:I:1813:G:N7	2.74	0.55
9:I:1954:A:H4'	9:I:1955:C:OP2	2.05	0.55
9:I:2016:C:H2'	9:I:2017:C:C6	2.42	0.55
9:I:2503:A:C5	9:I:2504:A:C2	2.94	0.55
9:I:2757:U:O2'	9:I:2758:A:O4'	2.20	0.55
9:I:2789:C:H5''	20:V:71:ARG:NE	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2902:G:N1	9:I:3088:U:N3	2.19	0.55
9:I:2936:U:H2'	9:I:2937:U:O4'	2.06	0.55
9:I:2962:U:H2'	9:I:3016:A:C6	2.41	0.55
9:I:2999:A:H2'	9:I:3000:U:C5'	2.36	0.55
9:I:3009:A:H4'	9:I:3050:C:C3'	2.36	0.55
9:I:3074:A:H3'	9:I:3075:G:C8	2.41	0.55
9:I:3348:A:H4'	9:I:3727:U:H4'	1.88	0.55
9:I:3355:G:H3'	9:I:3356:G:H8	1.69	0.55
9:I:3793:U:OP2	9:I:3793:U:C5	2.59	0.55
9:I:3795:C:H3'	9:I:3796:U:H5	1.70	0.55
9:I:4025:A:C2	9:I:4026:G:C8	2.94	0.55
11:K:216:ARG:HG3	11:K:217:PRO:HD2	1.88	0.55
12:L:9:VAL:H	12:L:27:ILE:HA	1.71	0.55
12:L:84:LEU:N	12:L:84:LEU:HD23	2.21	0.55
13:M:98:LYS:CD	13:M:102:ARG:HH22	2.14	0.55
13:M:101:TYR:HA	13:M:104:ALA:CB	2.36	0.55
13:M:159:LEU:HD23	13:M:162:ARG:NE	2.19	0.55
15:O:36:LEU:HD21	15:O:40:VAL:CG1	2.36	0.55
17:S:94:PRO:HG2	17:S:99:ILE:HD11	1.87	0.55
20:V:115:LEU:HD22	20:V:118:ARG:H	1.70	0.55
21:W:163:ALA:HB1	21:W:170:ILE:HD11	1.86	0.55
23:Y:167:PRO:CG	23:Y:170:LEU:HD12	2.35	0.55
32:h:12:LYS:HB3	32:h:16:ILE:CD1	2.35	0.55
33:i:24:VAL:CG1	33:i:25:THR:H	2.15	0.55
34:j:22:LYS:O	34:j:24:LYS:NZ	2.39	0.55
36:l:12:ARG:O	36:l:13:PHE:HD1	1.89	0.55
38:n:10:ALA:CB	38:n:94:SER:HB3	2.36	0.55
39:o:21:PRO:HB3	39:o:94:ALA:O	2.06	0.55
43:s:61:LEU:HD12	43:s:61:LEU:C	2.31	0.55
43:s:61:LEU:HD21	43:s:82:LYS:HD2	1.88	0.55
44:t:90:LYS:O	44:t:92:VAL:HG13	2.06	0.55
46:v:15:ARG:CB	46:v:57:VAL:HG21	2.27	0.55
46:v:67:ARG:HB3	46:v:69:PHE:CD1	2.41	0.55
49:y:29:ARG:HB2	49:y:33:HIS:ND1	2.21	0.55
2:B:50:HIS:O	2:B:53:ARG:HB3	2.06	0.55
2:B:66:LEU:HD21	2:B:84:LEU:HD21	1.86	0.55
9:I:6:A:H2'	24:Z:115:LEU:HD11	1.87	0.55
9:I:340:C:H2'	9:I:341:C:H6	1.68	0.55
9:I:455:A:H5'	9:I:456:G:OP1	2.06	0.55
9:I:502:C:OP2	31:g:112:ALA:HB2	2.06	0.55
9:I:774:G:H2'	9:I:775:G:O4'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:791:A:O2'	9:I:793:A:N7	2.37	0.55
9:I:931:C:H4'	26:b:3:ARG:CZ	2.37	0.55
9:I:974:A:H8	9:I:1356:A:HO2'	1.55	0.55
9:I:995:A:C6	9:I:1045:A:H1'	2.41	0.55
9:I:1014:G:N3	9:I:1217:C:H1'	2.21	0.55
9:I:1060:G:H2'	9:I:1061:U:H6	1.71	0.55
9:I:1280:C:N4	29:e:3:ARG:HH12	2.03	0.55
9:I:1296:G:O2'	26:b:113:LYS:HE2	2.06	0.55
9:I:1403:C:N3	9:I:4402:UR3:H3U1	2.20	0.55
9:I:1611:A:H5''	48:x:62:ALA:O	2.06	0.55
9:I:1616:C:H2'	9:I:1617:G:C8	2.41	0.55
9:I:1658:U:N3	9:I:1668:G:C6	2.66	0.55
9:I:1709:C:C2	9:I:1710:C:C5	2.95	0.55
9:I:1816:C:O2	9:I:1816:C:C2'	2.55	0.55
9:I:1964:U:O4	9:I:2288:A:C4	2.59	0.55
9:I:1976:G:H1	9:I:1979:A:H5''	1.70	0.55
9:I:2024:G:H2'	9:I:2025:U:H6	1.72	0.55
9:I:2038:A:H5''	16:R:7:LYS:CE	2.35	0.55
9:I:2351:C:C2'	49:y:42:ALA:HB1	2.35	0.55
9:I:2364:G:H2'	9:I:2365:C:OP2	2.05	0.55
9:I:2484:A:H5''	9:I:2485:C:P	2.46	0.55
9:I:2514:A:N6	9:I:2635:U:H1'	2.21	0.55
9:I:2524:C:OP2	9:I:2524:C:H3'	2.05	0.55
9:I:2616:G:H21	37:m:18:LYS:NZ	2.04	0.55
9:I:2619:G:P	9:I:2620:A:O2'	2.65	0.55
9:I:2645:A:H4'	40:p:80:ASN:CG	2.31	0.55
9:I:2698:A:O4'	9:I:2700:G:O4'	2.24	0.55
9:I:2784:C:H2'	9:I:2785:C:C6	2.42	0.55
9:I:2789:C:O2'	9:I:2790:G:H5'	2.06	0.55
9:I:2822:A:O2'	9:I:2823:U:C5'	2.54	0.55
9:I:2969:G:H1'	9:I:3226:C:C5	2.40	0.55
9:I:2993:C:H3'	9:I:2994:G:C8	2.42	0.55
9:I:3012:C:H2'	9:I:3012:C:O2	2.05	0.55
9:I:3286:G:OP2	11:K:204:LEU:HD23	2.06	0.55
9:I:3336:G:C2'	9:I:3337:C:O4'	2.54	0.55
9:I:3342:A:N1	9:I:3388:C:H1'	2.20	0.55
9:I:3488:C:H2'	9:I:3489:U:C6	2.40	0.55
9:I:3529:G:H4'	9:I:3530:C:OP2	2.07	0.55
9:I:3787:G:C6	9:I:3834:A:C4	2.94	0.55
9:I:4177:C:H4'	39:o:74:GLN:CD	2.31	0.55
10:J:71:G:C5	10:J:101:G:P	2.98	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:146:LYS:CG	11:K:149:LYS:HD2	2.36	0.55
11:K:170:TYR:HA	11:K:184:GLU:HA	1.89	0.55
15:O:5:LYS:HD2	15:O:61:TRP:CZ3	2.41	0.55
15:O:23:ILE:HG22	15:O:74:MET:HE2	1.88	0.55
15:O:88:LEU:HD13	15:O:161:VAL:CG2	2.36	0.55
15:O:153:PRO:HG3	15:O:162:ARG:HG2	1.87	0.55
19:U:53:MET:O	19:U:57:VAL:N	2.21	0.55
19:U:70:ASP:C	19:U:92:TRP:HZ3	2.14	0.55
20:V:95:THR:O	20:V:116:VAL:HG23	2.05	0.55
21:W:160:VAL:HG13	21:W:166:GLU:HB2	1.89	0.55
24:Z:44:ALA:HB2	24:Z:53:LYS:NZ	2.21	0.55
24:Z:91:SER:O	24:Z:113:ASN:ND2	2.39	0.55
27:c:24:VAL:CG1	27:c:60:LEU:HB2	2.35	0.55
31:g:35:ARG:HA	31:g:75:GLU:OE2	2.06	0.55
32:h:13:HIS:HB2	32:h:16:ILE:HG13	1.86	0.55
34:j:35:LYS:HE2	34:j:46:TYR:CD2	2.42	0.55
38:n:22:ALA:C	38:n:41:PRO:HG3	2.30	0.55
41:q:2:TYR:HA	41:q:15:SER:HA	1.86	0.55
42:r:24:ILE:O	42:r:27:LYS:HG2	2.07	0.55
45:u:30:ILE:HD11	45:u:63:ILE:HD12	1.88	0.55
46:v:29:ARG:CG	46:v:48:THR:HG21	2.34	0.55
47:w:34:SER:HA	47:w:48:LEU:O	2.05	0.55
3:C:48:GLU:HG2	3:C:49:GLY:N	2.20	0.55
9:I:353:G:H2'	9:I:354:C:C6	2.40	0.55
9:I:362:A:OP2	31:g:30:ARG:NH2	2.37	0.55
9:I:504:G:OP2	9:I:534:A:H5'	2.06	0.55
9:I:982:A:H5''	9:I:982:A:N3	2.21	0.55
9:I:1316:C:H5'	9:I:1317:A:OP2	2.06	0.55
9:I:1359:A:O2'	9:I:1360:G:H5'	2.06	0.55
9:I:1752:G:C2'	9:I:1753:C:H5'	2.37	0.55
9:I:1877:G:H2'	9:I:1878:C:H5'	1.85	0.55
9:I:1935:C:H2'	9:I:1936:C:H5'	1.88	0.55
9:I:2269:U:H2'	9:I:2270:G:H8	1.72	0.55
9:I:2277:G:H2'	9:I:2278:G:H8	1.71	0.55
9:I:2638:A:H3'	9:I:2639:C:C5	2.40	0.55
9:I:2645:A:H2'	9:I:2646:C:O4'	2.06	0.55
9:I:3381:C:C2	9:I:3382:G:N7	2.74	0.55
9:I:3851:G:N2	9:I:3854:G:OP2	2.21	0.55
9:I:3869:G:H21	9:I:3872:A:N6	2.03	0.55
9:I:3966:G:H5''	9:I:3967:U:C4'	2.36	0.55
9:I:3978:G:H2'	9:I:3979:G:H5'	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4174:U:O4'	12:L:192:ALA:HB3	2.06	0.55
9:I:4177:C:N4	9:I:4221:A:H1'	2.20	0.55
9:I:4288:C:H2'	9:I:4288:C:O2	2.05	0.55
9:I:4383:C:H2'	9:I:4384:A:H8	1.70	0.55
10:J:59:C:H2'	10:J:60:G:H5'	1.89	0.55
10:J:76:U:H2'	10:J:77:A:C5'	2.36	0.55
11:K:144:GLU:CG	11:K:150:GLY:H	2.19	0.55
12:L:171:THR:HG22	12:L:173:GLN:HG3	1.88	0.55
12:L:178:VAL:HB	12:L:189:VAL:HA	1.87	0.55
14:N:151:LEU:CD1	14:N:153:ILE:HD11	2.37	0.55
15:O:159:LYS:HA	15:O:159:LYS:HE2	1.89	0.55
17:S:110:GLU:C	17:S:113:MET:HB2	2.31	0.55
19:U:96:ILE:HG23	19:U:100:LYS:CD	2.37	0.55
21:W:112:LYS:HA	21:W:115:GLU:CG	2.37	0.55
23:Y:97:LEU:HB3	23:Y:132:ALA:O	2.07	0.55
27:c:28:SER:CB	27:c:58:LEU:HB3	2.36	0.55
27:c:104:SER:HB2	27:c:109:VAL:CG2	2.33	0.55
29:e:48:LEU:HD21	29:e:55:LYS:HD3	1.88	0.55
30:f:10:HIS:O	30:f:21:THR:N	2.35	0.55
30:f:40:PHE:HB2	30:f:45:LYS:HA	1.88	0.55
30:f:72:VAL:CG2	30:f:95:ILE:HD12	2.35	0.55
31:g:55:ARG:HD2	31:g:61:GLU:HB2	1.89	0.55
34:j:6:ILE:CG1	34:j:20:THR:HG23	2.36	0.55
35:k:45:SER:O	35:k:46:LYS:HB2	2.06	0.55
37:m:24:ARG:HG2	37:m:36:ARG:CD	2.34	0.55
39:o:29:VAL:HG13	39:o:79:VAL:HG12	1.88	0.55
39:o:98:TYR:CD2	39:o:102:ARG:HD2	2.42	0.55
41:q:60:LYS:HZ1	41:q:102:SER:HA	1.71	0.55
42:r:6:LYS:HZ3	42:r:8:ARG:CB	2.19	0.55
43:s:10:VAL:HG23	43:s:35:ALA:H	1.72	0.55
43:s:30:ILE:N	43:s:87:LEU:HD21	2.14	0.55
43:s:69:ARG:HB2	43:s:74:ILE:HG22	1.88	0.55
45:u:5:ASN:HD21	45:u:43:ASP:HB2	1.70	0.55
46:v:67:ARG:HG3	46:v:68:LYS:N	2.20	0.55
1:A:4:SER:N	9:I:1214:G:O3'	2.40	0.55
1:A:86:ALA:HA	1:A:91:GLU:HG3	1.88	0.55
3:C:62:GLY:HA3	9:I:225:G:N2	2.22	0.55
8:H:5:VAL:HG22	30:f:94:ARG:O	2.06	0.55
9:I:63:G:H4'	9:I:64:A:H3'	1.89	0.55
9:I:132:U:H5''	9:I:133:G:OP1	2.07	0.55
9:I:324:A:H8	9:I:324:A:OP1	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:716:U:H5''	9:I:733:G:OP2	2.06	0.55
9:I:764:G:H3'	9:I:811:G:H22	1.72	0.55
9:I:778:C:C3'	9:I:779:A:C8	2.88	0.55
9:I:1038:G:H2'	9:I:1039:U:N1	2.21	0.55
9:I:1135:C:H2'	9:I:1135:C:O2	2.05	0.55
9:I:1156:A:H4'	9:I:1157:C:O4'	2.06	0.55
9:I:1260:A:O5'	9:I:1261:C:H5	1.89	0.55
9:I:1389:U:H2'	9:I:1390:U:H6	1.72	0.55
9:I:1414:G:C2'	9:I:1415:G:H5'	2.37	0.55
9:I:1484:C:N3	9:I:1485:C:N4	2.55	0.55
9:I:1495:A:H1'	16:R:134:ALA:HB1	1.89	0.55
9:I:1628:C:C2	9:I:1629:C:C5	2.95	0.55
9:I:1634:G:C2	9:I:1635:U:H1'	2.41	0.55
9:I:1875:G:H2'	9:I:1876:G:C5'	2.36	0.55
9:I:1999:U:H2'	9:I:2000:G:N9	2.22	0.55
9:I:2331:G:O2'	9:I:2332:U:O5'	2.23	0.55
9:I:2462:C:O2'	9:I:2463:G:H5'	2.07	0.55
9:I:2700:G:H2'	9:I:2701:C:N1	2.22	0.55
9:I:2974:C:C2'	9:I:2975:U:O4'	2.55	0.55
9:I:3147:G:OP1	20:V:2:ARG:NH1	2.40	0.55
9:I:3204:G:C6	9:I:3243:A:C6	2.95	0.55
9:I:3217:G:C8	9:I:3218:G:C8	2.94	0.55
9:I:3319:U:H2'	9:I:3320:G:C8	2.34	0.55
9:I:3797:G:H4'	14:N:120:SER:C	2.32	0.55
9:I:3801:G:H8	9:I:3801:G:OP1	1.89	0.55
9:I:3848:C:O4'	46:v:25:SER:HA	2.06	0.55
9:I:3882:A:OP1	9:I:3883:G:P	2.65	0.55
9:I:3942:A:H4'	9:I:3943:U:OP2	2.06	0.55
9:I:3955:A:H2'	9:I:3956:C:H6	1.72	0.55
12:L:8:LYS:CB	12:L:199:SER:N	2.70	0.55
12:L:33:ARG:HA	12:L:94:GLN:O	2.07	0.55
14:N:111:ARG:HH12	14:N:131:VAL:HB	1.71	0.55
14:N:126:ASN:HA	14:N:157:THR:HG23	1.88	0.55
16:R:119:PHE:O	16:R:122:LEU:HB2	2.07	0.55
18:T:76:GLU:CA	18:T:109:LYS:H	2.07	0.55
19:U:43:ALA:O	19:U:47:GLU:N	2.39	0.55
19:U:59:ARG:NH1	19:U:60:GLN:HG3	2.21	0.55
20:V:35:LYS:HZ2	20:V:110:MET:HG2	1.71	0.55
20:V:40:LYS:HG2	20:V:44:LEU:CG	2.37	0.55
21:W:157:ALA:HB1	21:W:181:PHE:CE2	2.41	0.55
22:X:10:ARG:HB3	22:X:15:LYS:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:110:LEU:HD22	22:X:145:ALA:HB2	1.87	0.55
26:b:110:ARG:HB2	26:b:118:ARG:HE	1.71	0.55
38:n:91:PHE:CD1	38:n:106:ALA:HB2	2.42	0.55
39:o:102:ARG:HH22	39:o:109:ILE:HG23	1.70	0.55
41:q:4:VAL:HG21	41:q:40:MET:CE	2.35	0.55
41:q:71:LYS:HG2	41:q:90:ARG:CG	2.35	0.55
43:s:4:GLU:HG2	43:s:8:LEU:CG	2.36	0.55
43:s:15:HIS:O	43:s:31:VAL:HB	2.06	0.55
44:t:10:VAL:HG21	44:t:69:VAL:CB	2.37	0.55
44:t:34:ILE:HA	44:t:63:ALA:HA	1.87	0.55
45:u:9:ARG:HH12	45:u:17:SER:HG	1.48	0.55
45:u:31:TYR:O	45:u:92:VAL:HA	2.06	0.55
4:D:4:THR:C	4:D:5:LEU:HD12	2.31	0.55
5:E:23:SER:HB2	5:E:33:GLN:CG	2.36	0.55
9:I:372:A:H61	9:I:390:G:C1'	2.16	0.55
9:I:584:G:H2'	9:I:585:C:C6	2.41	0.55
9:I:607:A:C5	9:I:608:A:H1'	2.41	0.55
9:I:848:G:O2'	9:I:849:U:H5'	2.06	0.55
9:I:996:U:H2'	9:I:996:U:O2	2.07	0.55
9:I:1043:A:H3'	9:I:1044:C:O4'	2.07	0.55
9:I:1101:A:C2'	9:I:1102:C:H5'	2.37	0.55
9:I:1349:A:H2'	9:I:1350:U:C6	2.41	0.55
9:I:1703:A:H3'	9:I:1704:A:C8	2.39	0.55
9:I:1718:A:H5''	9:I:1719:A:OP2	2.06	0.55
9:I:1777:G:N3	9:I:1777:G:C2'	2.69	0.55
9:I:1790:U:H2'	9:I:1791:G:N9	2.21	0.55
9:I:1919:U:C2'	9:I:1920:C:C6	2.89	0.55
9:I:2498:U:H1'	9:I:2504:A:N7	2.21	0.55
9:I:2833:G:P	43:s:17:SER:HG	2.22	0.55
9:I:3066:A:H2'	9:I:3067:G:C8	2.41	0.55
9:I:3078:U:C4	9:I:3079:C:H1'	2.42	0.55
9:I:3078:U:C5	9:I:3079:C:H1'	2.42	0.55
9:I:3720:C:O2'	9:I:3721:A:H5'	2.07	0.55
9:I:3830:A:H61	46:v:33:THR:H	1.53	0.55
9:I:3877:G:C2	9:I:3878:U:C4	2.94	0.55
9:I:3896:U:H2'	9:I:3898:U:OP2	2.07	0.55
9:I:3898:U:C4	9:I:3899:G:O6	2.59	0.55
9:I:3913:U:C4'	34:j:17:PHE:CE2	2.89	0.55
9:I:3960:C:P	37:m:4:ARG:HH11	2.29	0.55
9:I:4240:U:H1'	15:O:138:GLN:CG	2.37	0.55
9:I:4303:A:H2'	9:I:4304:A:C4	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4346:G:O2'	9:I:4347:G:H5'	2.07	0.55
10:J:75:G:N2	10:J:76:U:O4'	2.39	0.55
10:J:101:G:H2'	10:J:101:G:N3	2.19	0.55
12:L:16:THR:HG21	12:L:20:VAL:CG1	2.37	0.55
12:L:36:GLN:HG2	12:L:49:GLN:OE1	2.06	0.55
12:L:50:VAL:HG21	12:L:82:PHE:CE2	2.42	0.55
12:L:82:PHE:O	12:L:84:LEU:HD23	2.07	0.55
14:N:37:MET:HA	14:N:151:LEU:CB	2.36	0.55
15:O:24:THR:HA	15:O:33:THR:OG1	2.07	0.55
15:O:112:VAL:HG12	15:O:113:ASP:N	2.22	0.55
17:S:1:MET:HE1	17:S:32:TYR:O	2.07	0.55
17:S:61:VAL:CG1	17:S:87:LEU:CD2	2.79	0.55
17:S:69:VAL:O	17:S:76:VAL:HA	2.06	0.55
17:S:77:ILE:HG12	39:o:71:ARG:HD3	1.88	0.55
19:U:50:ARG:HG2	19:U:50:ARG:HH11	1.71	0.55
19:U:53:MET:HA	19:U:116:ALA:HB1	1.88	0.55
19:U:124:LEU:CD1	19:U:128:THR:HG21	2.37	0.55
22:X:53:ARG:O	22:X:68:HIS:HB2	2.07	0.55
25:a:36:ILE:HD11	25:a:62:MET:HG2	1.89	0.55
26:b:55:LYS:HE2	26:b:60:ALA:CA	2.34	0.55
27:c:77:VAL:N	27:c:126:CYS:HA	2.22	0.55
27:c:94:VAL:CG1	27:c:101:ALA:HB2	2.37	0.55
28:d:27:ILE:HD11	28:d:64:VAL:HG12	1.87	0.55
34:j:4:GLU:HB2	34:j:24:LYS:HZ3	1.69	0.55
36:l:27:ASN:C	36:l:28:LEU:HD22	2.32	0.55
37:m:7:VAL:HG11	37:m:36:ARG:O	2.05	0.55
38:n:38:VAL:HG13	38:n:89:VAL:HG12	1.88	0.55
40:p:87:VAL:HG21	40:p:111:LYS:HG2	1.88	0.55
43:s:43:ILE:HG23	43:s:44:LYS:N	2.22	0.55
44:t:38:ILE:HG13	44:t:39:ASN:HB2	1.88	0.55
46:v:13:VAL:HB	46:v:16:PHE:HE1	1.72	0.55
1:A:86:ALA:HA	1:A:91:GLU:CG	2.37	0.55
3:C:21:VAL:HG21	3:C:60:TRP:CE2	2.42	0.55
4:D:68:LYS:CB	9:I:253:G:H8	2.18	0.55
7:G:27:ARG:O	7:G:31:LYS:HG2	2.07	0.55
9:I:145:G:N2	9:I:146:G:H1'	2.22	0.55
9:I:149:U:O5'	9:I:168:C:N4	2.40	0.55
9:I:190:G:OP2	9:I:190:G:H8	1.90	0.55
9:I:267:U:H2'	9:I:268:C:H6	1.72	0.55
9:I:347:G:H2'	9:I:348:A:O4'	2.07	0.55
9:I:410:A:H4'	9:I:411:A:OP1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:692:G:HO2'	9:I:693:A:H5'	1.71	0.55
9:I:758:A:C2'	9:I:759:G:H5'	2.37	0.55
9:I:777:G:C3'	9:I:778:C:O4'	2.55	0.55
9:I:1168:A:H2'	9:I:1169:A:C8	2.41	0.55
9:I:1408:C:C2'	9:I:1409:A:H5'	2.36	0.55
9:I:1514:A:H3'	9:I:1514:A:OP2	2.07	0.55
9:I:1578:U:C5'	48:x:6:ARG:HH12	2.20	0.55
9:I:1610:G:C2	9:I:1611:A:C8	2.94	0.55
9:I:1717:A:C4	9:I:1718:A:C8	2.95	0.55
9:I:2076:U:H2'	9:I:2077:G:C8	2.41	0.55
9:I:2076:U:H2'	9:I:2077:G:H8	1.72	0.55
9:I:2104:G:HO2'	9:I:2105:G:P	2.24	0.55
9:I:2530:G:O6	9:I:2613:U:C4	2.60	0.55
9:I:2556:G:C2'	9:I:2557:G:H5'	2.36	0.55
9:I:2615:C:H2'	9:I:2616:G:H5'	1.88	0.55
9:I:3160:G:C5'	17:S:82:ASN:HD21	2.18	0.55
9:I:3265:C:H2'	9:I:3266:A:C8	2.41	0.55
9:I:3291:G:H2'	9:I:3292:U:O4'	2.06	0.55
9:I:3363:G:H3'	9:I:3364:C:C5'	2.37	0.55
9:I:3405:PSU:H2'	9:I:3412:A:N1	2.21	0.55
9:I:3780:G:N2	9:I:3838:U:C2	2.74	0.55
9:I:3793:U:O5'	9:I:3793:U:H6	1.90	0.55
9:I:3870:A:C6	9:I:3871:A:C4	2.95	0.55
9:I:3913:U:H4'	34:j:17:PHE:HE2	1.69	0.55
9:I:3952:G:O2'	9:I:3984:G:N1	2.13	0.55
9:I:4093:G:OP2	11:K:234:GLY:HA2	2.06	0.55
10:J:1:G:H2'	10:J:2:C:H6	1.68	0.55
10:J:76:U:N1	10:J:98:A:N7	2.47	0.55
10:J:110:U:C3'	10:J:111:G:H8	2.19	0.55
12:L:2:ILE:HG12	12:L:100:LEU:CD2	2.36	0.55
12:L:15:PHE:HB2	39:o:11:GLN:CD	2.32	0.55
12:L:37:VAL:HG22	12:L:91:THR:CB	2.37	0.55
12:L:48:ILE:CG2	12:L:90:PHE:N	2.70	0.55
13:M:23:PHE:HD1	13:M:111:GLU:OE2	1.90	0.55
17:S:19:VAL:HG21	17:S:84:CYS:SG	2.46	0.55
18:T:5:THR:O	18:T:6:LEU:HD22	2.05	0.55
21:W:105:ARG:NH1	21:W:148:ILE:HD12	2.21	0.55
22:X:41:TYR:CD1	22:X:42:LEU:HD12	2.37	0.55
23:Y:141:VAL:HG11	23:Y:178:GLU:OE2	2.06	0.55
24:Z:117:LYS:NZ	24:Z:118:ALA:O	2.39	0.55
28:d:111:LYS:HD3	28:d:112:LYS:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:e:5:ARG:NH2	29:e:67:LEU:HB3	2.22	0.55
31:g:32:VAL:O	31:g:54:VAL:HA	2.07	0.55
32:h:24:VAL:HG23	32:h:24:VAL:O	2.07	0.55
34:j:24:LYS:O	34:j:28:PRO:HB3	2.07	0.55
39:o:47:ILE:HG22	39:o:99:LEU:CG	2.37	0.55
39:o:64:SER:HB2	39:o:67:GLU:O	2.07	0.55
40:p:12:ARG:HG2	40:p:12:ARG:NH1	2.22	0.55
41:q:65:ALA:N	41:q:95:ASP:O	2.34	0.55
41:q:97:LYS:HE3	41:q:99:THR:HG22	1.87	0.55
42:r:51:LEU:O	42:r:55:ILE:HG13	2.06	0.55
44:t:96:LYS:O	44:t:97:SER:HB2	2.06	0.55
45:u:89:ILE:HG22	45:u:91:PHE:CE1	2.41	0.55
47:w:17:ARG:HG2	47:w:21:LEU:HD12	1.89	0.55
47:w:32:LEU:N	47:w:51:SER:HA	2.21	0.55
1:A:51:PRO:CA	9:I:1014:G:H4'	2.36	0.55
1:A:63:CYS:SG	1:A:66:THR:OG1	2.43	0.55
2:B:42:PHE:CE2	2:B:55:LEU:HD13	2.41	0.55
3:C:60:TRP:HB3	3:C:65:ALA:HB3	1.87	0.55
4:D:5:LEU:HD13	4:D:70:TRP:CH2	2.42	0.55
4:D:11:SER:OG	9:I:274:G:H5'	2.07	0.55
4:D:14:MET:CA	9:I:273:A:O4'	2.43	0.55
4:D:24:ARG:NH2	9:I:279:C:O2	2.40	0.55
8:H:34:ARG:NH1	30:f:109:CYS:HB2	2.22	0.55
9:I:230:U:C2'	9:I:231:G:H5'	2.36	0.55
9:I:247:C:H1'	9:I:281:A:H2	1.71	0.55
9:I:581:C:OP2	9:I:757:C:N4	2.29	0.55
9:I:789:A:H2'	9:I:790:G:C8	2.42	0.55
9:I:955:U:H2'	9:I:956:U:C1'	2.37	0.55
9:I:971:C:O2'	29:e:53:VAL:HA	2.06	0.55
9:I:1464:A:H3'	9:I:1465:G:C8	2.42	0.55
9:I:1479:A:C2	9:I:4328:G:O2'	2.53	0.55
9:I:1595:A:H3'	9:I:1596:C:C5'	2.28	0.55
9:I:1873:U:H6	9:I:1873:U:O5'	1.90	0.55
9:I:1941:U:O2'	9:I:1942:G:H5'	2.07	0.55
9:I:2023:C:O2'	9:I:2024:G:H5'	2.07	0.55
9:I:2039:G:H2'	9:I:2040:C:O4'	2.07	0.55
9:I:2103:A:N6	9:I:2155:A:O4'	2.40	0.55
9:I:2146:U:O4	9:I:3845:G:H4'	2.07	0.55
9:I:2179:C:C2	9:I:2180:C:C5	2.94	0.55
9:I:2314:C:C4'	9:I:2719:G:H21	2.20	0.55
9:I:2513:U:C4	9:I:2636:A:N1	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2971:A:H3'	9:I:2972:G:O4'	2.07	0.55
9:I:3201:G:C5	9:I:3245:U:N3	2.75	0.55
9:I:3207:A:N6	9:I:3240:A:C2	2.75	0.55
9:I:3352:A:H1'	9:I:3379:A:C4	2.42	0.55
9:I:3704:U:C4	9:I:3706:A:C5	2.95	0.55
9:I:3798:G:H5'	14:N:120:SER:CB	2.36	0.55
9:I:3894:G:N1	9:I:3911:C:C4	2.74	0.55
9:I:4011:C:C2	9:I:4036:A:N6	2.73	0.55
9:I:4185:C:O2'	9:I:4340:G:N2	2.39	0.55
9:I:4267:C:C5'	12:L:169:ARG:HH21	2.19	0.55
9:I:4295:G:C2	9:I:4296:G:C5	2.95	0.55
9:I:4301:U:O2'	9:I:4302:G:H5'	2.06	0.55
10:J:42:C:H4'	14:N:94:ARG:NE	2.22	0.55
10:J:109:C:C6	10:J:109:C:OP2	2.60	0.55
11:K:4:LYS:HD3	11:K:16:VAL:CG2	2.36	0.55
15:O:28:LYS:HE3	15:O:79:THR:OG1	2.07	0.55
16:R:119:PHE:C	16:R:122:LEU:HD13	2.32	0.55
17:S:1:MET:N	17:S:34:GLY:HA3	2.22	0.55
17:S:71:ARG:CG	39:o:71:ARG:HH12	2.19	0.55
19:U:56:ALA:O	19:U:58:LYS:NZ	2.39	0.55
20:V:8:ARG:HD2	20:V:43:GLU:HG3	1.88	0.55
20:V:69:ARG:O	20:V:70:THR:CG2	2.50	0.55
21:W:193:VAL:HG12	21:W:195:PHE:C	2.32	0.55
23:Y:158:LEU:O	23:Y:161:ALA:HB3	2.07	0.55
24:Z:52:GLN:HG2	24:Z:56:GLU:HG2	1.89	0.55
36:l:55:GLY:HA2	36:l:58:ILE:CG2	2.35	0.55
39:o:27:VAL:CG2	39:o:58:PHE:CZ	2.89	0.55
41:q:1:MET:HE1	41:q:101:ILE:CG2	2.37	0.55
42:r:8:ARG:HD2	42:r:102:HIS:CE1	2.42	0.55
43:s:10:VAL:HG22	43:s:34:VAL:HB	1.89	0.55
47:w:1:SER:O	47:w:3:VAL:HG12	2.07	0.55
49:y:23:LEU:HD23	49:y:23:LEU:C	2.31	0.55
1:A:94:GLY:O	29:e:61:TYR:OH	2.21	0.55
2:B:10:ILE:HD11	2:B:33:ALA:HB2	1.88	0.55
2:B:52:ARG:HA	2:B:55:LEU:HB2	1.88	0.55
4:D:17:SER:CB	9:I:272:U:C4'	2.85	0.55
9:I:129:A:N6	9:I:232:C:O2	2.40	0.55
9:I:401:G:O2'	9:I:402:C:H5'	2.06	0.55
9:I:697:G:O2'	9:I:797:U:O2'	2.23	0.55
9:I:714:A:H5''	9:I:804:C:H4'	1.88	0.55
9:I:882:C:O2'	9:I:883:U:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:986:G:H22	9:I:1014:G:N2	2.04	0.55
9:I:1056:G:C5	9:I:1203:A:C2	2.94	0.55
9:I:1067:G:H2'	9:I:1068:C:H6	1.72	0.55
9:I:1074:U:H5'	9:I:1100:A:H61	1.71	0.55
9:I:1101:A:H1'	21:W:95:GLY:O	2.06	0.55
9:I:1139:C:HO2'	9:I:1140:C:H6	1.55	0.55
9:I:1560:G:O2'	9:I:1562:U:H5	1.90	0.55
9:I:1979:A:N9	9:I:1981:G:H5''	2.22	0.55
9:I:2300:A:C2	9:I:2302:A:C8	2.94	0.55
9:I:2346:U:C2'	9:I:2347:U:H6	2.20	0.55
9:I:2596:C:H4'	37:m:12:ARG:HD3	1.89	0.55
9:I:2640:C:O2'	9:I:2641:A:H5'	2.07	0.55
9:I:2697:U:H2'	9:I:2698:A:N7	2.22	0.55
9:I:2700:G:H2'	9:I:2701:C:C1'	2.36	0.55
9:I:2811:G:H2'	9:I:2812:U:H6	1.70	0.55
9:I:2881:A:C6	9:I:2895:G:C6	2.95	0.55
9:I:2956:C:H2'	9:I:2957:C:C5	2.41	0.55
9:I:2970:U:H3	9:I:3009:A:H62	0.60	0.55
9:I:3147:G:C5	20:V:9:GLN:HB2	2.42	0.55
9:I:3181:G:O2'	9:I:3195:A:N6	2.39	0.55
9:I:3313:A:OP1	11:K:154:ALA:HA	2.06	0.55
9:I:3663:A:O2'	9:I:3664:A:H5'	2.06	0.55
9:I:3744:G:H5''	19:U:84:LYS:NZ	2.22	0.55
9:I:3780:G:N3	9:I:3838:U:N3	2.53	0.55
9:I:3808:A:O4'	14:N:154:THR:CG2	2.55	0.55
9:I:3877:G:C2	9:I:3878:U:C5	2.95	0.55
9:I:4168:G:C6	9:I:4169:A:C6	2.94	0.55
9:I:4178:U:H5''	39:o:72:VAL:CB	2.36	0.55
9:I:4217:C:C4	9:I:4218:U:C4	2.95	0.55
9:I:4223:G:C3'	12:L:190:LYS:HE2	2.36	0.55
9:I:4371:C:O2'	9:I:4372:A:H5'	2.06	0.55
10:J:28:A:H5''	38:n:2:LYS:NZ	2.21	0.55
10:J:71:G:C6	10:J:101:G:P	3.00	0.55
11:K:15:VAL:CB	11:K:205:GLY:HA3	2.37	0.55
11:K:107:LYS:CD	11:K:195:GLY:HA3	2.35	0.55
11:K:200:MET:C	11:K:201:LEU:HD12	2.32	0.55
11:K:250:GLN:NE2	11:K:254:LYS:CB	2.64	0.55
12:L:29:VAL:O	12:L:185:ASN:HB3	2.07	0.55
13:M:147:LEU:CG	13:M:186:VAL:HG13	2.36	0.55
14:N:14:LYS:HG2	14:N:171:ALA:HB1	1.88	0.55
14:N:64:PRO:CG	14:N:88:VAL:HG12	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:79:ARG:NE	14:N:82:TYR:HD2	2.05	0.55
16:R:15:TRP:CB	16:R:137:PRO:HB3	2.37	0.55
19:U:38:ARG:NH1	19:U:97:GLN:HG2	2.20	0.55
19:U:110:GLU:HG2	19:U:114:ARG:CD	2.36	0.55
19:U:136:MET:HG2	45:u:57:TYR:CD2	2.42	0.55
21:W:183:ILE:CD1	21:W:197:ILE:HB	2.36	0.55
22:X:52:SER:HB3	22:X:114:LEU:HD21	1.87	0.55
23:Y:56:GLU:O	23:Y:60:VAL:HG23	2.06	0.55
27:c:91:LEU:HD13	27:c:116:ARG:HG2	1.88	0.55
29:e:10:ASP:OD2	29:e:13:LEU:HB2	2.07	0.55
31:g:86:VAL:CG1	31:g:89:LEU:HD23	2.36	0.55
31:g:109:ARG:C	31:g:110:LYS:HD3	2.32	0.55
33:i:27:LEU:HD23	33:i:27:LEU:C	2.31	0.55
33:i:54:ILE:O	33:i:55:ALA:CB	2.54	0.55
35:k:9:VAL:HG13	35:k:10:LEU:N	2.21	0.55
35:k:25:LYS:HA	35:k:28:ARG:NH2	2.22	0.55
38:n:6:ARG:CG	38:n:94:SER:O	2.55	0.55
38:n:23:THR:CA	38:n:41:PRO:HG3	2.36	0.55
40:p:68:ALA:C	40:p:71:ASN:HD22	2.13	0.55
41:q:11:GLN:OE1	41:q:11:GLN:N	2.40	0.55
43:s:10:VAL:HG13	43:s:11:LEU:HD12	1.88	0.55
45:u:18:ARG:CA	45:u:21:ARG:HB2	2.34	0.55
45:u:70:ILE:HD11	45:u:93:ARG:CG	2.36	0.55
48:x:26:ASN:C	48:x:27:LEU:HD22	2.30	0.55
1:A:84:ARG:HH21	9:I:1197:G:H22	1.55	0.55
7:G:52:MET:CA	7:G:55:ILE:HG22	2.36	0.55
8:H:45:LYS:HD2	9:I:4432:U:H5	1.72	0.55
9:I:128:A:H2	9:I:231:G:H22	1.55	0.55
9:I:456:G:H2'	9:I:456:G:N3	2.22	0.55
9:I:673:G:N1	9:I:715:A:C2	2.72	0.55
9:I:963:A:C5'	29:e:52:HIS:HE1	2.12	0.55
9:I:1288:A:H2	9:I:1371:U:O4'	1.90	0.55
9:I:1502:G:C2	9:I:1503:U:C5	2.95	0.55
9:I:1577:G:P	48:x:2:ALA:HA	2.46	0.55
9:I:1603:A:C5	9:I:1604:A:C8	2.95	0.55
9:I:1639:U:O4	43:s:2:ILE:HG13	2.07	0.55
9:I:1697:A:H1'	9:I:3924:A:N6	2.22	0.55
9:I:1870:G:C6	9:I:1924:G:N7	2.75	0.55
9:I:1871:A:C8	9:I:1873:U:C4	2.94	0.55
9:I:1960:A:H1'	9:I:1970:A:N6	2.22	0.55
9:I:2117:G:N2	9:I:2118:G:H1'	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2192:C:O3'	11:K:38:LYS:HD2	2.07	0.55
9:I:2311:U:O2	9:I:2745:C:H6	1.89	0.55
9:I:2396:C:H2'	9:I:2396:C:O2	2.05	0.55
9:I:2461:U:H2'	9:I:2462:C:C6	2.41	0.55
9:I:2634:C:O5'	16:R:24:THR:HG21	2.07	0.55
9:I:2766:A:H2	9:I:3112:6MZ:H9	1.72	0.55
9:I:2825:G:C5	9:I:2827:G:N7	2.74	0.55
9:I:2933:A:H2'	9:I:2934:U:O4'	2.07	0.55
9:I:3049:G:C3'	9:I:3050:C:H6	2.18	0.55
9:I:3159:A:H3'	9:I:3160:G:C8	2.40	0.55
9:I:3186:U:C2	9:I:3188:C:N3	2.75	0.55
9:I:3201:G:H22	9:I:3245:U:C2'	2.20	0.55
9:I:3247:G:O2'	9:I:3248:A:C8	2.52	0.55
9:I:3300:C:H2'	9:I:3301:G:O4'	2.06	0.55
9:I:3331:C:H5''	9:I:3332:C:OP2	2.06	0.55
9:I:3349:U:H5''	9:I:3350:U:OP1	2.07	0.55
9:I:3593:U:O4	9:I:3684:G:O6	2.25	0.55
9:I:3692:A:C1'	9:I:3693:A:H8	2.19	0.55
9:I:3808:A:H5''	14:N:156:THR:HG1	1.71	0.55
9:I:3830:A:C4'	9:I:3879:C:H5'	2.36	0.55
9:I:3955:A:H1'	9:I:3986:U:O4	2.07	0.55
9:I:4119:G:H2'	9:I:4120:C:O4'	2.07	0.55
9:I:4175:C:H4'	9:I:4176:A:C8	2.42	0.55
9:I:4405:C:OP2	9:I:4408:G:O2'	2.18	0.55
10:J:8:G:HO2'	38:n:44:SER:HG	1.53	0.55
10:J:22:G:H8	10:J:22:G:H3'	1.72	0.55
11:K:264:LYS:HG3	11:K:265:PHE:CE1	2.41	0.55
13:M:1:MET:CE	13:M:16:GLU:CA	2.85	0.55
13:M:19:PHE:CD1	13:M:109:LEU:HG	2.42	0.55
13:M:98:LYS:HB3	13:M:102:ARG:CZ	2.35	0.55
15:O:88:LEU:HD11	15:O:151:ARG:HD2	1.89	0.55
16:R:45:THR:HG21	16:R:48:VAL:HB	1.87	0.55
16:R:114:LEU:CG	16:R:118:MET:HE2	2.36	0.55
18:T:62:PRO:CG	36:l:26:ALA:HB2	2.36	0.55
18:T:82:LEU:HD13	18:T:118:THR:HG22	1.88	0.55
19:U:45:GLN:C	19:U:48:ALA:HB3	2.32	0.55
20:V:35:LYS:NZ	20:V:110:MET:HG2	2.22	0.55
21:W:39:ASN:HB2	21:W:42:LYS:HD2	1.89	0.55
21:W:47:PHE:HZ	21:W:214:VAL:HG23	1.72	0.55
21:W:122:THR:HG22	21:W:122:THR:O	2.07	0.55
21:W:193:VAL:HG11	21:W:196:VAL:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:Y:77:GLU:OE2	23:Y:80:ARG:NH2	2.39	0.55
24:Z:26:ALA:HB2	24:Z:51:ILE:HA	1.89	0.55
27:c:13:ILE:HG22	27:c:17:GLN:NE2	2.21	0.55
31:g:35:ARG:HB3	31:g:53:ARG:NH1	2.22	0.55
31:g:55:ARG:CD	31:g:61:GLU:HB2	2.37	0.55
32:h:32:ILE:CD1	32:h:59:VAL:HA	2.37	0.55
33:i:51:ARG:NE	33:i:51:ARG:HA	2.22	0.55
34:j:10:SER:CB	34:j:14:THR:OG1	2.55	0.55
37:m:24:ARG:HH11	37:m:36:ARG:HD2	1.72	0.55
37:m:27:CYS:HG	37:m:33:HIS:CG	2.23	0.55
39:o:30:TRP:CD1	39:o:81:ASP:HB2	2.42	0.55
39:o:60:VAL:HB	39:o:73:PHE:HE2	1.71	0.55
44:t:48:VAL:HG22	44:t:52:ASN:HB2	1.89	0.55
44:t:85:ARG:NH2	44:t:94:PHE:HB3	2.20	0.55
48:x:5:LEU:CB	48:x:55:LEU:HD12	2.37	0.55
1:A:20:PHE:CG	1:A:56:PRO:HD3	2.42	0.55
1:A:74:ARG:HG3	9:I:1358:C:OP1	2.06	0.55
2:B:14:PHE:CB	2:B:25:GLU:HB3	2.25	0.55
4:D:44:HIS:HB3	4:D:71:THR:HG23	1.89	0.55
7:G:51:GLU:O	7:G:54:PRO:HG2	2.07	0.55
9:I:59:A:C6	9:I:109:C:N3	2.75	0.55
9:I:131:C:O2'	9:I:132:U:H5'	2.07	0.55
9:I:498:A:O3'	9:I:499:G:H8	1.89	0.55
9:I:1002:G:H3'	9:I:1003:A:C5'	2.27	0.55
9:I:1082:U:H5''	9:I:1083:G:OP2	2.07	0.55
9:I:1312:U:H2'	9:I:1313:C:O4'	2.07	0.55
9:I:1392:U:H6	9:I:1392:U:O5'	1.89	0.55
9:I:1498:C:H1'	9:I:1502:G:N2	2.23	0.55
9:I:1519:A:H2'	9:I:1520:C:H6	1.71	0.55
9:I:1588:G:C5	9:I:1589:A:N7	2.75	0.55
9:I:1614:U:H2'	9:I:1614:U:O2	2.06	0.55
9:I:1637:U:O5'	9:I:1637:U:H6	1.90	0.55
9:I:1861:G:H8	9:I:1861:G:OP2	1.90	0.55
9:I:2029:A:OP2	16:R:116:ARG:NH2	2.40	0.55
9:I:2205:A:C6	9:I:2227:A:C8	2.95	0.55
9:I:2209:U:C2	9:I:2210:U:C5	2.95	0.55
9:I:2254:U:O2'	9:I:2255:U:H5'	2.06	0.55
9:I:2347:U:C4	9:I:2426:U:C2	2.95	0.55
9:I:2468:G:C2'	9:I:2483:G:H22	2.18	0.55
9:I:2548:A:H2'	9:I:2549:G:H8	1.70	0.55
9:I:2618:G:H4'	37:m:22:VAL:HG13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2671:G:H2'	9:I:2672:C:C1'	2.37	0.55
9:I:2708:A:H62	9:I:2729:G:N2	2.04	0.55
9:I:3065:A:H2'	9:I:3065:A:N3	2.22	0.55
9:I:3161:G:C8	17:S:7:MET:HE3	2.42	0.55
9:I:3251:A:H3'	9:I:3252:U:H5''	1.87	0.55
9:I:3336:G:C5	9:I:3337:C:C4	2.95	0.55
9:I:3383:A:C2'	9:I:3384:A:O4'	2.55	0.55
9:I:3418:C:H2'	9:I:3419:C:O4'	2.07	0.55
9:I:3446:A:OP1	17:S:55:GLY:HA2	2.07	0.55
9:I:3856:C:H2'	9:I:3857:G:H8	1.70	0.55
9:I:3870:A:N1	38:n:116:PHE:HE1	2.05	0.55
9:I:3903:G:H2'	9:I:3904:G:O5'	2.07	0.55
9:I:3963:A:HO2'	19:U:55:ARG:NH1	2.03	0.55
9:I:4153:G:OP1	15:O:157:LYS:HD2	2.07	0.55
9:I:4167:G:C3'	9:I:4168:G:H8	2.16	0.55
9:I:4242:A:O2'	15:O:65:GLY:CA	2.53	0.55
9:I:4342:G:P	39:o:94:ALA:H	2.29	0.55
10:J:75:G:H2'	10:J:75:G:N3	2.21	0.55
14:N:33:ILE:HG22	14:N:153:ILE:CG2	2.37	0.55
14:N:117:SER:HB3	14:N:129:MET:CE	2.37	0.55
15:O:3:VAL:CG1	15:O:68:ARG:CB	2.82	0.55
15:O:53:PRO:CA	15:O:60:GLY:HA3	2.36	0.55
16:R:14:ASP:HA	16:R:15:TRP:CE3	2.42	0.55
16:R:118:MET:CB	16:R:121:LYS:HZ2	2.18	0.55
17:S:20:MET:CB	17:S:44:LYS:HZ1	2.20	0.55
21:W:168:ILE:O	21:W:172:GLU:HG3	2.07	0.55
21:W:219:ARG:HB3	21:W:219:ARG:CZ	2.37	0.55
23:Y:8:LEU:HD13	23:Y:31:CYS:SG	2.47	0.55
24:Z:88:GLN:O	24:Z:114:VAL:HA	2.07	0.55
29:e:7:LYS:HZ2	29:e:67:LEU:HD21	1.71	0.55
37:m:35:GLN:HG2	37:m:36:ARG:N	2.22	0.55
38:n:42:ASN:OD1	38:n:43:GLY:N	2.40	0.55
38:n:89:VAL:CG1	38:n:114:LEU:HD11	2.26	0.55
39:o:4:ILE:HA	39:o:7:LEU:HB2	1.89	0.55
40:p:89:ILE:HG22	40:p:94:LEU:HA	1.88	0.55
44:t:24:VAL:HG11	44:t:33:VAL:CB	2.33	0.55
44:t:24:VAL:C	44:t:25:LYS:HD2	2.32	0.55
44:t:86:PHE:CZ	44:t:91:LYS:HE2	2.42	0.55
45:u:70:ILE:HD11	45:u:93:ARG:NE	2.23	0.55
1:A:80:ARG:CD	9:I:972:G:H2'	2.22	0.54
2:B:52:ARG:HG2	2:B:55:LEU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:10:ILE:HG13	7:G:11:GLN:N	2.22	0.54
9:I:32:A:H2'	9:I:33:C:H6	1.72	0.54
9:I:122:U:O2'	9:I:309:G:N2	2.40	0.54
9:I:139:U:H2'	9:I:182:C:H41	1.71	0.54
9:I:283:C:C2	9:I:284:C:C5	2.95	0.54
9:I:283:C:H2'	9:I:284:C:H6	1.70	0.54
9:I:340:C:O2	9:I:341:C:C5	2.60	0.54
9:I:684:G:N1	9:I:703:A:OP2	2.40	0.54
9:I:839:C:O2	9:I:841:U:H5''	2.07	0.54
9:I:1572:U:P	48:x:53:LYS:HE3	2.46	0.54
9:I:1576:C:H2'	48:x:54:THR:HG21	1.88	0.54
9:I:1580:G:H2'	9:I:1580:G:N3	2.21	0.54
9:I:1600:U:N3	9:I:1601:A:N1	2.55	0.54
9:I:1643:C:H2'	9:I:1644:A:H5'	1.89	0.54
9:I:1782:A:H2'	9:I:1783:G:H8	1.73	0.54
9:I:2087:C:C2'	18:T:19:LEU:HD12	2.37	0.54
9:I:2158:U:C2'	9:I:2159:G:O5'	2.55	0.54
9:I:2201:G:C3'	9:I:2202:U:H5''	2.38	0.54
9:I:2214:U:N3	9:I:2216:A:H3'	2.20	0.54
9:I:2328:U:HO2'	9:I:2329:A:C5'	2.20	0.54
9:I:2605:A:N3	9:I:2606:G:C4	2.76	0.54
9:I:3005:G:H2'	9:I:3006:C:O4'	2.07	0.54
9:I:3172:A:N3	9:I:3172:A:H2'	2.22	0.54
9:I:3216:A:OP2	9:I:3232:G:N1	2.40	0.54
9:I:3236:U:C3'	9:I:3237:G:C8	2.90	0.54
9:I:3303:A:H2'	9:I:3304:A:C8	2.41	0.54
9:I:3663:A:H2'	9:I:3664:A:H5'	1.88	0.54
9:I:3721:A:C5	9:I:3722:G:C5	2.95	0.54
9:I:3780:G:O5'	9:I:3781:A:O4'	2.24	0.54
9:I:3782:A:N1	9:I:3819:G:C4	2.75	0.54
9:I:3871:A:H2'	9:I:3872:A:O4'	2.07	0.54
9:I:4017:G:H2'	9:I:4018:G:H5'	1.89	0.54
9:I:4130:C:O2'	12:L:38:LYS:NZ	2.27	0.54
9:I:4147:U:O2	9:I:4162:G:C2	2.60	0.54
9:I:4406:A:H3'	9:I:4407:A:H5''	1.89	0.54
11:K:99:GLU:OE1	11:K:99:GLU:N	2.39	0.54
11:K:196:ASN:ND2	11:K:199:HIS:HB2	2.21	0.54
12:L:51:THR:HB	12:L:79:LEU:CG	2.38	0.54
13:M:6:LYS:HE3	13:M:119:ILE:HA	1.88	0.54
13:M:22:ASP:HA	13:M:114:ARG:HH22	1.72	0.54
13:M:123:LYS:HD3	13:M:189:THR:HG23	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:178:VAL:O	13:M:182:ALA:HB2	2.07	0.54
14:N:134:GLN:O	14:N:137:PHE:N	2.38	0.54
15:O:151:ARG:HH11	15:O:161:VAL:CG2	2.20	0.54
16:R:30:THR:HG22	16:R:31:GLU:OE2	2.06	0.54
16:R:55:ILE:HA	16:R:123:LYS:HB2	1.88	0.54
19:U:20:LEU:HD23	19:U:21:ALA:N	2.21	0.54
20:V:32:GLU:HG3	20:V:120:GLU:CD	2.32	0.54
21:W:32:ARG:NH1	21:W:37:ILE:HG21	2.22	0.54
22:X:90:VAL:HG13	22:X:98:ALA:HB1	1.88	0.54
27:c:6:ILE:CD1	27:c:32:LYS:HG3	2.37	0.54
29:e:37:PRO:O	29:e:38:LEU:HB2	2.06	0.54
30:f:10:HIS:O	30:f:20:VAL:HA	2.07	0.54
30:f:17:ASN:HB2	30:f:45:LYS:HD2	1.89	0.54
31:g:8:ARG:C	31:g:9:LYS:HG3	2.31	0.54
37:m:13:ASN:ND2	37:m:29:ALA:HB2	2.23	0.54
40:p:90:ASP:CA	40:p:94:LEU:HG	2.37	0.54
45:u:4:ILE:HG12	45:u:46:LYS:O	2.06	0.54
45:u:29:ILE:HG22	45:u:90:ASP:OD2	2.08	0.54
46:v:19:GLU:O	46:v:57:VAL:HG23	2.08	0.54
48:x:45:VAL:HA	48:x:48:ASP:HB2	1.89	0.54
48:x:55:LEU:C	48:x:59:LYS:HB2	2.32	0.54
1:A:60:ARG:HB3	9:I:980:U:H5'	1.89	0.54
3:C:63:GLN:HG2	9:I:226:G:C5	2.43	0.54
4:D:22:ILE:HD11	4:D:58:ILE:CD1	2.37	0.54
4:D:33:LYS:HB2	31:g:7:VAL:HG12	1.89	0.54
4:D:40:LYS:HB2	9:I:275:G:O3'	2.07	0.54
9:I:100:A:C2'	9:I:101:G:H5'	2.37	0.54
9:I:168:C:H2'	9:I:169:U:C6	2.43	0.54
9:I:502:C:O2	9:I:509:A:H2	1.90	0.54
9:I:651:U:C2	9:I:752:A:C6	2.94	0.54
9:I:767:A:H5'	9:I:4428:C:O2'	2.07	0.54
9:I:937:A:N3	9:I:1375:U:H1'	2.22	0.54
9:I:962:G:C2'	29:e:52:HIS:CE1	2.89	0.54
9:I:1059:U:H2'	9:I:1060:G:C8	2.42	0.54
9:I:1225:C:N4	32:h:102:LYS:HE3	2.22	0.54
9:I:1235:A:H2'	9:I:1236:C:H6	1.66	0.54
9:I:1260:A:H1'	9:I:1274:A:N1	2.23	0.54
9:I:1385:G:H2'	9:I:1386:G:C8	2.39	0.54
9:I:1468:A:N3	9:I:1469:A:N7	2.55	0.54
9:I:1468:A:OP2	9:I:1469:A:OP2	2.25	0.54
9:I:1574:A:H4'	9:I:1575:G:H5''	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1607:G:O2'	9:I:1793:U:H2'	2.08	0.54
9:I:1637:U:H3	9:I:1643:C:H41	1.50	0.54
9:I:1697:A:C4	9:I:3924:A:C6	2.95	0.54
9:I:1785:G:O6	9:I:1856:G:N7	2.40	0.54
9:I:1850:G:H2'	9:I:1851:C:N1	2.21	0.54
9:I:1851:C:H2'	9:I:1852:A:N7	2.23	0.54
9:I:1896:G:C5'	47:w:9:LYS:HZ3	2.20	0.54
9:I:2011:U:H5	9:I:2012:G:C5	2.25	0.54
9:I:2046:U:H2'	9:I:2047:A:H1'	1.89	0.54
9:I:2477:A:N7	9:I:2478:A:N6	2.55	0.54
9:I:2508:A:N6	9:I:2642:U:H3	2.05	0.54
9:I:2614:G:C2'	9:I:2615:C:C6	2.90	0.54
9:I:2644:C:H2'	9:I:2645:A:C5'	2.36	0.54
9:I:2657:G:H5''	41:q:24:LYS:HZ2	1.71	0.54
9:I:3182:U:C2	9:I:3194:A:H8	2.25	0.54
9:I:3283:A:H2'	9:I:3284:C:O4'	2.07	0.54
9:I:3358:U:C2	9:I:3359:U:O4	2.60	0.54
9:I:3681:U:C4	9:I:3682:U:C4	2.95	0.54
9:I:3751:U:O2'	9:I:3752:C:H5'	2.07	0.54
9:I:3776:G:C5	9:I:3919:A:N1	2.75	0.54
9:I:3871:A:H2	38:n:116:PHE:CE1	2.25	0.54
9:I:3966:G:H5''	9:I:3967:U:O3'	2.07	0.54
9:I:3968:U:H5''	9:I:3969:C:OP2	2.06	0.54
9:I:4078:U:O5'	9:I:4078:U:H6	1.91	0.54
9:I:4213:G:H5'	9:I:4341:U:OP1	2.07	0.54
9:I:4231:G:H2'	9:I:4232:A:H8	1.70	0.54
10:J:33:A:C6	10:J:43:G:H1'	2.42	0.54
11:K:16:VAL:HG11	11:K:201:LEU:O	2.06	0.54
11:K:62:ARG:HG3	11:K:102:TYR:OH	2.07	0.54
12:L:50:VAL:C	12:L:80:TRP:H	2.15	0.54
12:L:68:PHE:HD1	12:L:73:VAL:CG1	2.18	0.54
12:L:108:ASP:H	12:L:204:LYS:N	2.06	0.54
12:L:170:VAL:HG21	12:L:194:PRO:HB2	1.89	0.54
12:L:186:LEU:HD11	39:o:3:ILE:HG22	1.89	0.54
13:M:5:LEU:HD11	13:M:121:VAL:O	2.06	0.54
13:M:14:VAL:HB	13:M:19:PHE:CD2	2.42	0.54
13:M:40:ARG:HD2	13:M:92:HIS:ND1	2.23	0.54
14:N:121:PHE:CZ	14:N:169:LEU:HD12	2.41	0.54
15:O:136:ASP:HB3	15:O:139:VAL:H	1.71	0.54
16:R:115:GLY:HA2	16:R:118:MET:HB2	1.89	0.54
19:U:20:LEU:HD11	45:u:81:PRO:CG	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:46:ARG:O	20:V:50:PRO:HG2	2.07	0.54
21:W:7:LEU:CB	21:W:40:LEU:HD11	2.37	0.54
23:Y:143:SER:HB3	23:Y:178:GLU:CA	2.37	0.54
27:c:12:ARG:HH21	27:c:16:GLY:N	2.04	0.54
28:d:4:TYR:HB2	28:d:17:PHE:CE1	2.42	0.54
29:e:48:LEU:HD11	29:e:55:LYS:NZ	2.19	0.54
31:g:55:ARG:HA	31:g:61:GLU:HB2	1.88	0.54
31:g:56:LEU:HD12	31:g:60:PHE:CB	2.37	0.54
32:h:67:ASP:HB3	32:h:70:ARG:HH21	1.71	0.54
38:n:98:TYR:CZ	38:n:103:GLN:HA	2.42	0.54
39:o:13:LYS:NZ	39:o:80:VAL:HG23	2.22	0.54
39:o:54:LEU:HA	39:o:76:HIS:CB	2.37	0.54
48:x:13:LEU:HD12	48:x:56:LEU:HD11	1.89	0.54
1:A:3:GLN:HG3	9:I:1214:G:H2'	1.89	0.54
2:B:42:PHE:CZ	2:B:55:LEU:HB2	2.43	0.54
3:C:35:ARG:NH1	9:I:607:A:H4'	2.22	0.54
4:D:8:ARG:NH1	4:D:10:VAL:HG22	2.22	0.54
5:E:38:ARG:CG	9:I:734:C:H5''	2.38	0.54
9:I:41:G:N2	9:I:400:C:H1'	2.22	0.54
9:I:334:C:O4'	9:I:1433:A:O2'	2.22	0.54
9:I:704:G:H2'	9:I:705:A:H5'	1.89	0.54
9:I:1044:C:H5'	9:I:1045:A:OP2	2.07	0.54
9:I:1143:G:H5''	9:I:1144:A:OP2	2.07	0.54
9:I:1214:G:H5''	9:I:1215:A:OP2	2.07	0.54
9:I:1380:U:O2'	26:b:78:ARG:O	2.25	0.54
9:I:1431:G:N2	9:I:4371:C:H2'	2.21	0.54
9:I:1517:G:H2'	9:I:1518:U:C6	2.43	0.54
9:I:1576:C:H2'	9:I:1577:G:C5'	2.37	0.54
9:I:1780:U:H3	9:I:1860:U:H3	1.54	0.54
9:I:1832:A:H1'	9:I:1834:C:OP1	2.08	0.54
9:I:1872:G:N1	9:I:1900:G:H2'	2.20	0.54
9:I:2044:C:O3'	9:I:2045:U:O4'	2.25	0.54
9:I:2193:A:H2'	9:I:2194:U:H6	1.70	0.54
9:I:2499:C:C2	9:I:2637:A:C6	2.95	0.54
9:I:2520:G:OP2	9:I:2520:G:H8	1.89	0.54
9:I:2608:C:O5'	9:I:2608:C:H6	1.90	0.54
9:I:2639:C:O2	9:I:2640:C:C5	2.60	0.54
9:I:2895:G:H2'	9:I:2896:U:C6	2.42	0.54
9:I:2966:C:H2'	9:I:2966:C:O2	2.08	0.54
9:I:2983:C:O5'	9:I:2983:C:H6	1.89	0.54
9:I:3058:C:H2'	9:I:3059:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3379:A:N3	9:I:3379:A:H2'	2.23	0.54
9:I:3757:C:C2'	9:I:3758:C:H5'	2.36	0.54
9:I:3792:A:N7	9:I:3812:G:C2	2.75	0.54
9:I:3826:C:C3'	9:I:3827:A:C8	2.91	0.54
9:I:3856:C:C2	9:I:3857:G:C8	2.95	0.54
9:I:3879:C:N4	9:I:3880:A:N6	2.54	0.54
9:I:4212:G:C4'	39:o:95:LYS:HB2	2.32	0.54
9:I:4233:U:H2'	9:I:4234:A:H5'	1.90	0.54
9:I:4266:C:P	12:L:207:VAL:HG21	2.46	0.54
9:I:4288:C:H6	9:I:4288:C:OP2	1.90	0.54
10:J:4:U:O2'	10:J:26:C:C1'	2.52	0.54
10:J:11:C:H3'	46:v:66:ASN:ND2	2.21	0.54
10:J:22:G:H3'	10:J:22:G:C8	2.42	0.54
10:J:84:G:C2	10:J:91:C:C2	2.95	0.54
12:L:101:PHE:CE1	12:L:205:PRO:HG3	2.42	0.54
13:M:6:LYS:CE	13:M:120:VAL:H	2.20	0.54
13:M:103:GLY:CA	13:M:106:LYS:HD3	2.37	0.54
14:N:12:VAL:CG1	14:N:16:MET:HG3	2.38	0.54
22:X:105:VAL:HG11	22:X:114:LEU:HD11	1.88	0.54
26:b:17:PHE:HE1	26:b:43:TYR:HD1	1.55	0.54
29:e:47:VAL:O	29:e:59:ASP:N	2.33	0.54
31:g:41:PRO:HG2	31:g:45:ASN:C	2.32	0.54
34:j:40:VAL:HG12	34:j:42:GLN:HG2	1.89	0.54
38:n:38:VAL:HG22	38:n:89:VAL:HG11	1.89	0.54
38:n:40:ALA:HB2	38:n:47:LEU:HD21	1.89	0.54
39:o:27:VAL:HG23	39:o:60:VAL:HG21	1.90	0.54
40:p:73:ILE:HD11	40:p:116:LEU:CD2	2.36	0.54
41:q:4:VAL:HA	41:q:13:ARG:CA	2.29	0.54
41:q:20:VAL:CG1	41:q:98:ILE:HD11	2.38	0.54
43:s:77:ARG:HG3	43:s:78:SER:N	2.22	0.54
44:t:85:ARG:NH2	44:t:101:THR:HA	2.23	0.54
45:u:9:ARG:HB2	45:u:39:ALA:CB	2.37	0.54
45:u:61:LEU:HD11	45:u:72:VAL:CG2	2.38	0.54
47:w:5:GLN:CD	47:w:48:LEU:HD22	2.32	0.54
47:w:18:SER:O	47:w:21:LEU:N	2.36	0.54
1:A:6:LYS:HG3	9:I:1215:A:OP1	2.08	0.54
2:B:1:SER:C	2:B:34:GLN:HE22	2.14	0.54
2:B:71:ARG:NH1	2:B:72:LYS:HD3	2.22	0.54
5:E:42:ARG:HG3	25:a:86:ARG:HH22	1.72	0.54
5:E:44:ARG:NH2	5:E:51:TYR:OH	2.40	0.54
9:I:355:A:C2	9:I:356:G:H1'	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:536:G:H2'	9:I:537:G:C8	2.42	0.54
9:I:610:C:H2'	9:I:611:C:O4'	2.08	0.54
9:I:932:G:N2	9:I:934:A:O4'	2.41	0.54
9:I:1118:C:C2'	9:I:1119:C:H5'	2.38	0.54
9:I:1220:G:OP1	9:I:1319:C:N4	2.37	0.54
9:I:1777:G:O2'	9:I:1778:A:N1	2.40	0.54
9:I:1778:A:C2	9:I:1861:G:N3	2.76	0.54
9:I:1835:C:H5'	44:t:81:ARG:NE	2.21	0.54
9:I:1870:G:O2'	9:I:1924:G:OP2	2.25	0.54
9:I:1912:A:O5'	9:I:1913:C:H5	1.90	0.54
9:I:1949:A:C6	9:I:1950:G:C4	2.95	0.54
9:I:2147:G:HO2'	9:I:2148:G:P	2.31	0.54
9:I:2449:PSU:H2'	9:I:2450:G:C8	2.43	0.54
9:I:2501:C:H5''	9:I:2502:A:OP2	2.07	0.54
9:I:2528:G:C2'	9:I:2529:U:O4'	2.51	0.54
9:I:2645:A:H2'	9:I:2646:C:H6	1.62	0.54
9:I:2916:G:H2'	9:I:2917:G:O5'	2.07	0.54
9:I:3189:G:N2	9:I:3190:G:C8	2.75	0.54
9:I:3216:A:O4'	9:I:3232:G:N2	2.40	0.54
9:I:3234:G:C5	9:I:3235:C:C4	2.96	0.54
9:I:3303:A:C2'	9:I:3304:A:O5'	2.54	0.54
9:I:3308:G:OP2	9:I:3309:A:O2'	2.18	0.54
9:I:3309:A:O4'	9:I:3311:G:N9	2.40	0.54
9:I:3369:G:O2'	9:I:3370:A:OP2	2.25	0.54
9:I:3448:G:H1'	9:I:3450:U:C4	2.41	0.54
9:I:3691:U:O2'	9:I:3692:A:H8	1.91	0.54
9:I:3719:A:H4'	9:I:3720:C:C5'	2.37	0.54
9:I:3728:G:N3	9:I:3728:G:H2'	2.23	0.54
9:I:3800:C:H42	14:N:38:GLY:HA3	1.72	0.54
9:I:3830:A:C1'	9:I:3879:C:C6	2.90	0.54
9:I:3896:U:C6	9:I:3899:G:O6	2.59	0.54
9:I:4115:G:O2'	9:I:4116:U:H5'	2.08	0.54
9:I:4342:G:H2'	39:o:93:LYS:HA	1.89	0.54
12:L:34:VAL:HA	12:L:49:GLN:O	2.08	0.54
13:M:5:LEU:HD11	13:M:122:GLU:HA	1.90	0.54
13:M:27:LEU:O	13:M:31:VAL:N	2.32	0.54
13:M:129:PRO:CA	13:M:156:ASN:O	2.52	0.54
14:N:90:LEU:HB3	14:N:94:ARG:C	2.32	0.54
15:O:175:LYS:O	15:O:176:LYS:HB2	2.07	0.54
16:R:23:LYS:HE3	16:R:28:LEU:HB2	1.90	0.54
17:S:69:VAL:O	17:S:77:ILE:N	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:S:108:ARG:NH1	39:o:33:GLU:HA	2.21	0.54
19:U:46:ILE:HA	19:U:49:ALA:HB3	1.90	0.54
20:V:27:SER:O	20:V:30:ARG:N	2.24	0.54
20:V:63:ARG:HG2	20:V:80:PHE:CZ	2.42	0.54
22:X:108:PRO:O	22:X:114:LEU:HD12	2.08	0.54
22:X:147:GLY:HA3	22:X:202:PHE:CB	2.38	0.54
23:Y:46:ARG:H	23:Y:46:ARG:HD2	1.73	0.54
26:b:96:ASN:OD1	26:b:100:MET:HG3	2.07	0.54
34:j:40:VAL:O	34:j:42:GLN:HG2	2.07	0.54
36:l:24:LYS:HB2	36:l:46:LYS:HZ2	1.72	0.54
37:m:13:ASN:HD22	37:m:29:ALA:HB2	1.72	0.54
39:o:23:ASP:OD2	39:o:88:ARG:HD2	2.08	0.54
39:o:45:VAL:HG12	39:o:61:ARG:CB	2.31	0.54
40:p:89:ILE:HG13	41:q:49:ILE:CD1	2.33	0.54
40:p:93:ILE:CG2	41:q:40:MET:HE2	2.37	0.54
42:r:18:ARG:HG2	42:r:18:ARG:NH1	2.22	0.54
43:s:19:LYS:HD3	43:s:84:TYR:HH	1.72	0.54
44:t:32:LYS:CG	44:t:63:ALA:HB1	2.33	0.54
47:w:38:TRP:CH2	47:w:43:LYS:HA	2.43	0.54
49:y:7:THR:HG23	49:y:33:HIS:O	2.06	0.54
1:A:48:GLN:HG2	6:F:11:LEU:HD22	1.90	0.54
1:A:52:ARG:HD2	9:I:1013:A:O2'	2.06	0.54
3:C:8:ARG:HH11	3:C:17:TYR:HE2	1.54	0.54
3:C:32:PHE:CE1	9:I:309:G:H5''	2.43	0.54
4:D:66:LYS:HD2	9:I:250:G:H1'	1.88	0.54
7:G:46:GLN:O	7:G:50:ASN:N	2.36	0.54
8:H:5:VAL:HA	30:f:95:ILE:CA	2.35	0.54
9:I:59:A:N6	9:I:107:G:O5'	2.41	0.54
9:I:280:G:H4'	9:I:281:A:C5'	2.34	0.54
9:I:308:A:H2'	9:I:309:G:H8	1.73	0.54
9:I:320:A:H61	9:I:331:G:H1	1.55	0.54
9:I:374:U:O2'	9:I:375:G:H5'	2.06	0.54
9:I:555:C:C2'	9:I:556:G:H5'	2.37	0.54
9:I:581:C:N3	9:I:758:A:N7	2.55	0.54
9:I:946:G:OP1	32:h:106:ARG:HD2	2.08	0.54
9:I:1142:G:H2'	9:I:1143:G:H8	1.65	0.54
9:I:1345:A:H5''	28:d:119:ARG:HH12	1.72	0.54
9:I:1422:G:H2'	9:I:1423:U:H6	1.72	0.54
9:I:1472:G:C6	9:I:1473:G:N7	2.76	0.54
9:I:1495:A:C6	9:I:1505:A:C6	2.96	0.54
9:I:1639:U:H1'	9:I:1641:G:C2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1721:A:C8	9:I:1766:G:N7	2.76	0.54
9:I:1770:A:C5	9:I:1870:G:C6	2.95	0.54
9:I:2135:C:O2	9:I:2135:C:C2'	2.55	0.54
9:I:2141:U:H2'	9:I:2142:U:N1	2.22	0.54
9:I:2155:A:H4'	9:I:2156:G:H5'	1.88	0.54
9:I:2346:U:C2	9:I:2347:U:C5	2.95	0.54
9:I:2359:G:H1'	9:I:2410:G:C6	2.42	0.54
9:I:2374:G:C2	9:I:2375:G:C8	2.94	0.54
9:I:2404:A:C2'	9:I:2405:A:H8	2.19	0.54
9:I:2504:A:P	40:p:65:ASN:HD21	2.27	0.54
9:I:2524:C:C2'	9:I:2525:G:C5'	2.86	0.54
9:I:2673:G:N1	9:I:2674:U:H1'	2.23	0.54
9:I:2871:G:H5''	9:I:2872:A:OP2	2.08	0.54
9:I:2930:G:O2'	9:I:3009:A:C2	2.56	0.54
9:I:3045:A:H2'	9:I:3046:A:H8	1.69	0.54
9:I:3182:U:C2'	9:I:3183:A:N7	2.71	0.54
9:I:3213:G:H3'	9:I:3214:U:C6	2.43	0.54
9:I:3304:A:H8	9:I:3304:A:OP2	1.90	0.54
9:I:3313:A:O4'	9:I:3315:A:C4	2.60	0.54
9:I:3691:U:O2	9:I:3692:A:N7	2.40	0.54
9:I:3756:U:C5'	46:v:31:ARG:HH22	2.20	0.54
9:I:3807:C:O4'	14:N:36:ASN:CB	2.56	0.54
9:I:3830:A:O4'	9:I:3879:C:H5'	2.07	0.54
9:I:3899:G:N2	9:I:3905:A:C8	2.71	0.54
9:I:4155:G:H2'	9:I:4156:A:C8	2.42	0.54
9:I:4218:U:H3	9:I:4219:A:N6	2.04	0.54
9:I:4247:A:H8	9:I:4247:A:OP2	1.90	0.54
9:I:4324:C:OP2	12:L:55:LYS:NZ	2.40	0.54
9:I:4337:G:H2'	9:I:4338:G:H1'	1.90	0.54
9:I:4337:G:C3'	9:I:4338:G:C8	2.89	0.54
11:K:29:PHE:CD2	11:K:31:PRO:HD2	2.42	0.54
11:K:63:ILE:HG23	11:K:63:ILE:O	2.06	0.54
11:K:147:PRO:HB3	11:K:186:ASP:HB3	1.88	0.54
12:L:84:LEU:HA	12:L:88:GLU:CB	2.36	0.54
13:M:121:VAL:CG2	13:M:187:VAL:HG12	2.37	0.54
13:M:121:VAL:CG1	13:M:187:VAL:HG13	2.37	0.54
14:N:2:LYS:HE2	14:N:100:GLU:CD	2.33	0.54
14:N:3:LEU:HG	14:N:100:GLU:HG3	1.89	0.54
14:N:43:ILE:CG2	14:N:78:ILE:HG22	2.38	0.54
15:O:86:LEU:HD11	15:O:144:ALA:HB1	1.90	0.54
16:R:18:VAL:HB	16:R:56:VAL:CG1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:114:LEU:C	16:R:118:MET:HE2	2.31	0.54
19:U:17:ASN:OD1	19:U:97:GLN:HG3	2.06	0.54
20:V:21:PHE:O	20:V:69:ARG:NH2	2.40	0.54
25:a:37:HIS:CD2	25:a:65:GLU:HB2	2.43	0.54
26:b:30:MET:CE	26:b:33:GLY:HA2	2.35	0.54
27:c:77:VAL:HG21	27:c:127:TYR:CD1	2.43	0.54
27:c:84:ILE:O	27:c:123:GLU:HG3	2.08	0.54
29:e:7:LYS:HE3	29:e:65:THR:CG2	2.37	0.54
36:l:38:LYS:CD	36:l:41:ARG:HH22	2.19	0.54
41:q:45:GLU:HG2	41:q:46:GLU:N	2.23	0.54
43:s:12:ARG:NE	43:s:12:ARG:HA	2.21	0.54
44:t:42:LYS:CA	44:t:58:VAL:O	2.51	0.54
44:t:85:ARG:O	44:t:91:LYS:CG	2.55	0.54
1:A:53:ASP:OD2	9:I:1217:C:H5''	2.08	0.54
2:B:14:PHE:CD2	2:B:25:GLU:HB3	2.42	0.54
3:C:4:ILE:CG1	3:C:21:VAL:HG13	2.35	0.54
4:D:37:ARG:HD2	9:I:278:A:OP1	2.06	0.54
5:E:42:ARG:HB2	9:I:734:C:H1'	1.89	0.54
9:I:161:A:H2	9:I:347:G:P	2.31	0.54
9:I:197:G:O2'	9:I:198:A:H5'	2.08	0.54
9:I:322:U:N3	9:I:326:A:N6	2.29	0.54
9:I:458:A:H2'	9:I:459:A:H8	1.72	0.54
9:I:704:G:N1	30:f:32:TRP:CG	2.76	0.54
9:I:737:C:H2'	9:I:738:C:C6	2.42	0.54
9:I:737:C:O2'	9:I:738:C:H5'	2.07	0.54
9:I:779:A:N6	9:I:800:U:OP2	2.40	0.54
9:I:973:A:H5'	9:I:975:G:OP1	2.08	0.54
9:I:1129:A:N1	9:I:1143:G:O2'	2.35	0.54
9:I:1334:U:H5''	9:I:1336:G:N2	2.22	0.54
9:I:1549:A:H4'	9:I:1550:U:H5''	1.89	0.54
9:I:1552:A:H2'	9:I:1552:A:N3	2.22	0.54
9:I:1591:A:H4'	9:I:1592:U:O4'	2.08	0.54
9:I:1785:G:H3'	9:I:1786:U:C6	2.43	0.54
9:I:1786:U:H3	9:I:1854:A:H61	1.56	0.54
9:I:1852:A:H2'	9:I:1853:C:C2	2.42	0.54
9:I:1991:G:H5'	9:I:1992:A:OP2	2.07	0.54
9:I:2020:G:H2'	9:I:2021:U:H6	1.72	0.54
9:I:2100:G:O2'	13:M:100:MET:CE	2.56	0.54
9:I:2116:A:H2'	9:I:2117:G:O4'	2.07	0.54
9:I:2195:G:N1	9:I:2268:G:C5	2.76	0.54
9:I:2328:U:O5'	9:I:2328:U:H6	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2368:U:C5	9:I:2369:G:N7	2.76	0.54
9:I:2423:U:N3	9:I:2424:G:C5	2.76	0.54
9:I:2513:U:C2	9:I:2636:A:C6	2.96	0.54
9:I:2517:U:C2'	9:I:2518:G:H5'	2.38	0.54
9:I:2570:C:H2'	9:I:2571:A:H8	1.70	0.54
9:I:2618:G:H5'	37:m:22:VAL:HG22	1.90	0.54
9:I:2672:C:H2'	9:I:2673:G:H5''	1.88	0.54
9:I:2789:C:H5''	20:V:71:ARG:NH1	2.22	0.54
9:I:2854:G:H2'	9:I:2855:G:H5'	1.90	0.54
9:I:3059:C:C5	11:K:25:LYS:CG	2.90	0.54
9:I:3066:A:H3'	9:I:3067:G:H8	1.73	0.54
9:I:3182:U:O2	9:I:3194:A:C8	2.59	0.54
9:I:3311:G:H5''	9:I:3312:U:OP2	2.08	0.54
9:I:3313:A:H2'	11:K:176:ARG:C	2.33	0.54
9:I:3724:G:C4	9:I:3725:U:C5	2.95	0.54
9:I:3825:G:N2	9:I:3830:A:O2'	2.41	0.54
9:I:3871:A:C2	38:n:91:PHE:HB3	2.42	0.54
9:I:3871:A:C3'	9:I:3872:A:C8	2.89	0.54
9:I:3899:G:C4	9:I:3906:A:N6	2.75	0.54
9:I:4117:G:H2'	9:I:4118:G:H8	1.72	0.54
9:I:4154:A:C2	9:I:4155:G:H1'	2.43	0.54
9:I:4178:U:H5''	39:o:72:VAL:HB	1.88	0.54
10:J:83:G:C2	10:J:84:G:C8	2.96	0.54
12:L:16:THR:CB	12:L:20:VAL:HB	2.37	0.54
12:L:33:ARG:HB2	12:L:51:THR:O	2.08	0.54
14:N:35:LEU:HA	14:N:153:ILE:CG2	2.25	0.54
15:O:32:LEU:HD23	15:O:74:MET:HE3	1.88	0.54
15:O:106:LEU:HD12	15:O:108:PHE:HE2	1.73	0.54
16:R:7:LYS:O	16:R:10:THR:N	2.34	0.54
16:R:38:GLY:HA3	16:R:41:LYS:CG	2.37	0.54
16:R:45:THR:HB	16:R:48:VAL:O	2.07	0.54
17:S:105:ARG:NE	17:S:122:VAL:HG13	2.22	0.54
19:U:4:PRO:HD2	19:U:92:TRP:CD2	2.43	0.54
19:U:45:GLN:HE22	19:U:124:LEU:HD23	1.72	0.54
19:U:62:LYS:HD2	19:U:62:LYS:N	2.22	0.54
20:V:73:ASN:HA	20:V:76:VAL:HG22	1.88	0.54
21:W:20:TRP:HB3	21:W:36:HIS:CD2	2.42	0.54
26:b:46:LEU:HD12	26:b:57:GLU:HG2	1.89	0.54
26:b:69:ARG:NH2	26:b:96:ASN:HB2	2.22	0.54
30:f:16:ASN:HA	30:f:46:SER:HB3	1.90	0.54
30:f:48:PRO:O	30:f:52:GLN:N	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:j:11:SER:OG	34:j:45:ILE:O	2.23	0.54
38:n:36:ALA:O	38:n:50:ALA:HB3	2.08	0.54
40:p:81:GLY:HA3	40:p:116:LEU:CB	2.36	0.54
41:q:34:GLU:CA	41:q:59:ILE:O	2.52	0.54
43:s:29:THR:HG23	43:s:85:VAL:C	2.33	0.54
43:s:39:THR:CG2	43:s:42:GLU:OE1	2.55	0.54
44:t:85:ARG:NE	44:t:92:VAL:HG23	2.23	0.54
49:y:22:THR:CG2	49:y:49:ALA:HB1	2.37	0.54
1:A:68:ARG:CB	9:I:1048:U:H3	2.20	0.54
3:C:70:ARG:HB2	9:I:376:G:P	2.48	0.54
4:D:18:ILE:HG13	4:D:19:VAL:N	2.23	0.54
4:D:42:HIS:CE1	9:I:274:G:O2'	2.61	0.54
8:H:34:ARG:NH1	30:f:109:CYS:SG	2.81	0.54
9:I:127:G:H2'	9:I:128:A:C8	2.43	0.54
9:I:274:G:H21	9:I:275:G:H1'	1.71	0.54
9:I:346:G:H8	9:I:346:G:O5'	1.91	0.54
9:I:354:C:H1'	9:I:387:G:H1'	1.89	0.54
9:I:434:A:O2'	9:I:435:C:H5'	2.07	0.54
9:I:495:A:H3'	9:I:495:A:N3	2.23	0.54
9:I:1103:G:O2'	9:I:1104:A:H5'	2.07	0.54
9:I:1218:A:H3'	9:I:1219:G:C8	2.41	0.54
9:I:1775:C:H42	9:I:1862:A:H61	1.56	0.54
9:I:1850:G:O2'	9:I:1851:C:H5'	2.08	0.54
9:I:1850:G:C8	9:I:1851:C:C4	2.96	0.54
9:I:2132:A:C4	9:I:2133:A:C8	2.95	0.54
9:I:2418:G:C2	9:I:2419:A:C8	2.95	0.54
9:I:2513:U:H5''	9:I:2514:A:OP1	2.07	0.54
9:I:2525:G:O2'	9:I:2526:A:O4'	2.20	0.54
9:I:2609:G:O2'	9:I:2610:G:H5'	2.07	0.54
9:I:2616:G:N2	37:m:18:LYS:HZ2	2.05	0.54
9:I:2834:U:N3	9:I:3097:A:C1'	2.71	0.54
9:I:2963:A:H3'	9:I:3015:G:N2	2.23	0.54
9:I:2973:G:C2'	9:I:2974:C:O4'	2.55	0.54
9:I:3004:G:H2'	9:I:3005:G:C8	2.43	0.54
9:I:3170:A:H2'	9:I:3171:A:O4'	2.08	0.54
9:I:3293:G:C6	11:K:175:LEU:HB3	2.43	0.54
9:I:3428:C:H2'	9:I:3429:G:C8	2.42	0.54
9:I:3695:G:C6	9:I:3717:G:N1	2.76	0.54
9:I:3783:G:H4'	9:I:3878:U:O4'	2.06	0.54
9:I:3796:U:O3'	14:N:119:LYS:NZ	2.40	0.54
9:I:3810:G:C2'	9:I:3811:A:O4'	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4177:C:O3'	39:o:74:GLN:CD	2.50	0.54
9:I:4212:G:C2'	9:I:4341:U:H5''	2.37	0.54
9:I:4213:G:O3'	9:I:4340:G:H4'	2.08	0.54
10:J:8:G:H4'	38:n:43:GLY:O	2.08	0.54
10:J:65:A:H62	10:J:106:G:H3'	1.71	0.54
11:K:4:LYS:CD	11:K:5:CYS:H	2.10	0.54
11:K:159:THR:HG22	11:K:176:ARG:HE	1.73	0.54
11:K:172:THR:CG2	11:K:180:MET:HE3	2.38	0.54
11:K:202:ARG:HD3	11:K:203:VAL:C	2.33	0.54
12:L:37:VAL:HG22	12:L:91:THR:CA	2.37	0.54
12:L:48:ILE:HD11	12:L:82:PHE:HB2	1.89	0.54
12:L:51:THR:HA	12:L:78:GLY:C	2.29	0.54
12:L:112:THR:HG23	12:L:167:ASN:C	2.32	0.54
13:M:5:LEU:HB3	13:M:8:ALA:HB3	1.89	0.54
13:M:101:TYR:HA	13:M:104:ALA:HB2	1.89	0.54
14:N:3:LEU:CG	14:N:100:GLU:HG3	2.38	0.54
15:O:86:LEU:HA	15:O:163:TYR:C	2.32	0.54
15:O:88:LEU:HD13	15:O:161:VAL:HG22	1.88	0.54
15:O:88:LEU:HD21	15:O:93:TYR:CD2	2.42	0.54
16:R:108:MET:C	16:R:109:LEU:HD22	2.33	0.54
20:V:44:LEU:O	20:V:48:VAL:HG13	2.08	0.54
21:W:155:PRO:CB	21:W:158:LEU:HD11	2.37	0.54
21:W:216:ALA:HA	21:W:219:ARG:HH22	1.72	0.54
29:e:1:ARG:HD3	29:e:73:VAL:O	2.08	0.54
30:f:17:ASN:HB2	30:f:45:LYS:CD	2.37	0.54
37:m:25:VAL:HB	37:m:35:GLN:CA	2.38	0.54
38:n:29:ARG:HA	38:n:34:ILE:HD11	1.89	0.54
38:n:69:ALA:C	38:n:72:ALA:H	2.15	0.54
43:s:26:LYS:HA	43:s:26:LYS:HE2	1.89	0.54
43:s:55:VAL:HG12	43:s:56:GLU:N	2.21	0.54
44:t:11:ILE:HD11	44:t:19:GLY:C	2.33	0.54
44:t:34:ILE:HD12	44:t:63:ALA:N	2.22	0.54
44:t:45:GLN:O	44:t:55:GLY:HA2	2.07	0.54
45:u:51:GLN:HG2	45:u:56:PHE:CE2	2.43	0.54
46:v:40:ASN:HB3	46:v:52:LYS:HB2	1.89	0.54
47:w:31:ASN:HB3	47:w:52:ALA:H	1.72	0.54
1:A:68:ARG:NH2	1:A:80:ARG:HH21	2.05	0.54
1:A:88:MET:CE	29:e:49:ILE:HG13	2.34	0.54
4:D:13:LYS:CD	9:I:273:A:H5'	2.38	0.54
4:D:65:SER:HB3	9:I:254:G:H8	1.72	0.54
4:D:66:LYS:HE3	9:I:250:G:C1'	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:33:GLN:HG2	9:I:719:C:O4'	2.07	0.54
9:I:190:G:H3'	9:I:191:A:C8	2.43	0.54
9:I:424:G:H2'	9:I:425:U:C6	2.42	0.54
9:I:689:G:H1'	9:I:697:G:H22	1.73	0.54
9:I:1197:G:H21	29:e:51:PRO:CG	2.21	0.54
9:I:1573:A:P	48:x:50:ALA:HB2	2.48	0.54
9:I:1624:G:N7	35:k:19:ARG:NH2	2.55	0.54
9:I:1665:A:C2'	9:I:1666:U:H5'	2.37	0.54
9:I:1667:A:N3	9:I:1668:G:H1'	2.23	0.54
9:I:1718:A:N3	9:I:1718:A:H2'	2.22	0.54
9:I:1737:C:C4	9:I:1761:G:N1	2.76	0.54
9:I:2136:G:P	18:T:129:LYS:N	2.81	0.54
9:I:2857:C:H5''	47:w:49:ARG:NH1	2.23	0.54
9:I:2860:A:H2'	9:I:2861:A:O4'	2.08	0.54
9:I:2978:U:H2'	9:I:2978:U:O2	2.06	0.54
9:I:3015:G:C8	9:I:3016:A:O2'	2.59	0.54
9:I:3158:A:H61	9:I:3490:C:H42	1.55	0.54
9:I:3291:G:H3'	11:K:270:ARG:HH12	1.71	0.54
9:I:3351:G:N3	9:I:3378:G:N2	2.56	0.54
9:I:3473:U:O2'	9:I:3474:G:H5'	2.08	0.54
9:I:3602:A:H5'	9:I:3644:C:O3'	2.08	0.54
9:I:3670:A:H2'	9:I:3671:C:C6	2.43	0.54
9:I:3802:G:H2'	9:I:3804:C:H5	1.72	0.54
9:I:3830:A:H1'	9:I:3879:C:C5	2.42	0.54
9:I:3846:A:C5	9:I:3859:G:N2	2.76	0.54
9:I:3908:G:H2'	9:I:3908:G:N3	2.23	0.54
9:I:3910:C:H2'	9:I:3910:C:O2	2.08	0.54
9:I:3961:C:C3'	9:I:3962:A:H8	2.20	0.54
9:I:3962:A:H2'	9:I:3970:A:C6	2.43	0.54
9:I:4173:A:C6	9:I:4223:G:C6	2.95	0.54
9:I:4183:U:P	9:I:4185:C:H41	2.30	0.54
9:I:4241:G:H2'	9:I:4248:U:O4	2.07	0.54
9:I:4242:A:N3	15:O:66:THR:OG1	2.40	0.54
10:J:11:C:O5'	10:J:11:C:H6	1.91	0.54
10:J:55:G:N2	10:J:57:A:N1	2.54	0.54
10:J:56:A:C2'	10:J:57:A:C8	2.91	0.54
10:J:99:G:C2	10:J:100:A:H1'	2.42	0.54
12:L:2:ILE:CG1	12:L:100:LEU:CD2	2.85	0.54
12:L:4:LEU:CD2	12:L:98:VAL:HG23	2.36	0.54
12:L:36:GLN:N	12:L:92:VAL:HA	2.23	0.54
13:M:18:THR:CG2	13:M:109:LEU:HD23	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:102:ARG:HA	13:M:200:LEU:CG	2.37	0.54
13:M:144:GLU:N	13:M:144:GLU:OE1	2.41	0.54
13:M:147:LEU:HB2	13:M:183:PHE:CD1	2.42	0.54
13:M:171:ASP:O	13:M:175:ILE:HG23	2.08	0.54
14:N:55:ASP:HA	14:N:140:ILE:HD12	1.90	0.54
14:N:103:ILE:HD13	14:N:107:VAL:HG21	1.88	0.54
16:R:35:ARG:HE	16:R:142:ILE:CD1	2.14	0.54
16:R:100:VAL:HG23	16:R:101:ILE:HD13	1.90	0.54
17:S:71:ARG:N	17:S:75:SER:O	2.41	0.54
17:S:88:ASN:HB2	17:S:92:GLU:O	2.08	0.54
19:U:56:ALA:CB	19:U:116:ALA:HB2	2.38	0.54
19:U:69:PRO:HG2	19:U:92:TRP:CB	2.35	0.54
27:c:75:GLN:O	27:c:126:CYS:HB2	2.07	0.54
27:c:77:VAL:N	27:c:125:ILE:O	2.28	0.54
28:d:35:TYR:HE2	28:d:36:PHE:CZ	2.26	0.54
29:e:6:LEU:CB	29:e:68:ARG:HB2	2.31	0.54
31:g:3:VAL:C	31:g:7:VAL:HG23	2.32	0.54
38:n:55:LYS:HB2	38:n:59:GLU:CD	2.33	0.54
39:o:29:VAL:HG21	39:o:73:PHE:HE1	1.71	0.54
40:p:78:PHE:CD1	40:p:109:VAL:HG22	2.42	0.54
41:q:3:ALA:HB1	41:q:41:ILE:HG12	1.88	0.54
42:r:24:ILE:HA	42:r:27:LYS:NZ	2.23	0.54
44:t:44:HIS:HA	44:t:57:ILE:HG23	1.89	0.54
46:v:27:ILE:HD12	46:v:41:VAL:HG22	1.90	0.54
47:w:48:LEU:O	47:w:50:VAL:N	2.41	0.54
48:x:22:ARG:O	48:x:26:ASN:N	2.34	0.54
49:y:28:LEU:N	49:y:28:LEU:HD12	2.22	0.54
3:C:4:ILE:O	3:C:68:SER:HB2	2.07	0.54
4:D:45:ASP:OD2	4:D:48:ASN:HA	2.08	0.54
7:G:69:LYS:HA	7:G:72:ARG:HH22	1.73	0.54
8:H:33:ARG:NH1	8:H:38:GLU:OE2	2.41	0.54
9:I:673:G:C6	9:I:715:A:N1	2.75	0.54
9:I:675:A:C2	9:I:713:G:N1	2.73	0.54
9:I:1083:G:O2'	9:I:1102:C:H5	1.91	0.54
9:I:1095:C:H1'	9:I:1170:A:OP1	2.07	0.54
9:I:1359:A:H2'	9:I:1360:G:C8	2.43	0.54
9:I:1560:G:O5'	48:x:46:ARG:NH1	2.31	0.54
9:I:1603:A:H2'	9:I:1604:A:H5'	1.90	0.54
9:I:1633:U:O2	9:I:1634:G:C8	2.61	0.54
9:I:1750:G:C6	9:I:1751:A:N1	2.76	0.54
9:I:1795:G:C2'	9:I:1796:U:H5'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1834:C:H6	9:I:1834:C:O5'	1.90	0.54
9:I:1995:G:H21	42:r:61:ASN:CG	2.16	0.54
9:I:2051:G:C4	9:I:2052:U:C5	2.96	0.54
9:I:2100:G:H1	9:I:2157:U:H3	1.56	0.54
9:I:2116:A:O3'	13:M:199:MET:CE	2.56	0.54
9:I:2135:C:C5'	18:T:129:LYS:HZ1	2.20	0.54
9:I:2358:G:O2'	9:I:3762:A:N3	2.36	0.54
9:I:2359:G:H21	9:I:2410:G:H2'	1.72	0.54
9:I:2610:G:C6	9:I:2611:C:C5	2.95	0.54
9:I:2618:G:H2'	9:I:2619:G:C8	2.43	0.54
9:I:2646:C:OP1	40:p:83:LYS:HE2	2.08	0.54
9:I:2729:G:C2	9:I:2730:G:N2	2.76	0.54
9:I:2755:C:O2'	9:I:2756:A:O5'	2.23	0.54
9:I:2895:G:H2'	9:I:2896:U:N1	2.23	0.54
9:I:3238:A:H2'	9:I:3239:A:H8	1.71	0.54
9:I:3340:G:C2	9:I:3389:C:H1'	2.43	0.54
9:I:3382:G:O3'	9:I:3383:A:O4'	2.25	0.54
9:I:3448:G:H1'	9:I:3450:U:C5	2.43	0.54
9:I:3805:A:H4'	14:N:71:LYS:NZ	2.23	0.54
9:I:3825:G:N2	9:I:3830:A:N3	2.55	0.54
9:I:3842:U:C1'	34:j:36:PHE:CE2	2.91	0.54
9:I:3848:C:H4'	46:v:25:SER:CA	2.37	0.54
9:I:4021:C:H2'	9:I:4021:C:O2	2.07	0.54
9:I:4099:PSU:O4	9:I:4100:C:C5	2.61	0.54
9:I:4168:G:H5''	17:S:30:ARG:CD	2.37	0.54
9:I:4182:G:N2	9:I:4215:A:H62	2.06	0.54
9:I:4191:G:C2	9:I:4205:A:C2	2.96	0.54
9:I:4212:G:H1'	9:I:4341:U:O3'	2.07	0.54
9:I:4334:C:H2'	9:I:4334:C:O2	2.08	0.54
9:I:4387:A:H2'	9:I:4388:C:H5'	1.90	0.54
11:K:202:ARG:NH2	11:K:209:ALA:HB1	2.23	0.54
12:L:33:ARG:CG	12:L:95:SER:HA	2.18	0.54
12:L:38:LYS:HD3	12:L:45:TYR:CZ	2.43	0.54
14:N:116:LEU:HD12	14:N:129:MET:HE2	1.90	0.54
15:O:32:LEU:HD22	15:O:74:MET:CG	2.37	0.54
15:O:86:LEU:HD11	15:O:144:ALA:CA	2.37	0.54
15:O:160:GLY:O	15:O:162:ARG:HG3	2.08	0.54
17:S:15:GLY:HA2	17:S:47:ILE:CG2	2.38	0.54
17:S:58:LEU:HD11	17:S:86:LEU:CG	2.38	0.54
17:S:94:PRO:HG2	17:S:99:ILE:CD1	2.37	0.54
20:V:12:ARG:CZ	20:V:17:ARG:HD2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:99:LYS:HD3	20:V:99:LYS:N	2.22	0.54
22:X:8:GLY:HA2	22:X:11:LEU:HG	1.89	0.54
23:Y:129:VAL:HG11	23:Y:134:TYR:HB2	1.90	0.54
25:a:38:ARG:HB2	25:a:97:THR:OG1	2.08	0.54
26:b:30:MET:HE3	26:b:33:GLY:H	1.72	0.54
27:c:44:PHE:CE2	27:c:100:ILE:HG12	2.43	0.54
31:g:30:ARG:CG	31:g:78:VAL:HG12	2.38	0.54
31:g:32:VAL:C	31:g:54:VAL:HG13	2.32	0.54
32:h:47:LEU:HD13	32:h:52:ILE:HD11	1.90	0.54
32:h:78:ARG:O	32:h:82:LEU:HG	2.08	0.54
38:n:25:LEU:HB3	38:n:89:VAL:CB	2.29	0.54
38:n:50:ALA:HA	38:n:54:GLU:OE2	2.08	0.54
40:p:90:ASP:C	40:p:94:LEU:HG	2.33	0.54
41:q:27:ILE:HG22	41:q:28:ALA:N	2.22	0.54
41:q:97:LYS:HG2	41:q:98:ILE:N	2.23	0.54
43:s:54:GLU:CD	43:s:88:LYS:HG3	2.33	0.54
44:t:4:ILE:HA	44:t:93:ARG:NH1	2.23	0.54
49:y:22:THR:HG21	49:y:49:ALA:HB1	1.90	0.54
1:A:13:VAL:HA	1:A:59:GLN:HG2	1.89	0.54
1:A:72:PHE:CE1	1:A:77:GLY:HA2	2.42	0.54
9:I:59:A:H4'	9:I:60:G:C4'	2.38	0.54
9:I:141:G:C4	9:I:142:A:H1'	2.43	0.54
9:I:305:A:O2'	9:I:306:C:H5'	2.08	0.54
9:I:361:G:N1	9:I:364:U:OP2	2.41	0.54
9:I:424:G:H2'	9:I:425:U:O4'	2.07	0.54
9:I:442:C:N4	9:I:443:G:O6	2.41	0.54
9:I:508:A:H2	9:I:543:G:O4'	1.90	0.54
9:I:610:C:H2'	9:I:611:C:C6	2.42	0.54
9:I:611:C:C2	9:I:612:C:C5	2.96	0.54
9:I:661:U:H2'	9:I:662:A:C8	2.43	0.54
9:I:767:A:O2'	9:I:768:G:H5'	2.08	0.54
9:I:878:C:C2	9:I:879:C:C6	2.96	0.54
9:I:1296:G:H21	26:b:113:LYS:CG	2.20	0.54
9:I:1726:A:C2'	9:I:1729:C:H42	2.20	0.54
9:I:1737:C:N4	9:I:1761:G:O6	2.41	0.54
9:I:1770:A:C4	9:I:1868:A:H2	2.26	0.54
9:I:1848:A:H2'	9:I:1849:U:C2	2.42	0.54
9:I:1980:A:O3'	44:t:43:LYS:CA	2.53	0.54
9:I:2305:G:H22	9:I:2331:G:H21	1.55	0.54
9:I:2404:A:C2'	9:I:2405:A:C8	2.83	0.54
9:I:2565:G:N2	9:I:2584:A:N7	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2853:A:N6	9:I:2854:G:N3	2.56	0.54
9:I:2959:G:O2'	9:I:2960:U:H5'	2.08	0.54
9:I:2991:U:H3'	9:I:2992:C:H5	1.72	0.54
9:I:3018:G:O2'	9:I:3019:A:O4'	2.25	0.54
9:I:3159:A:H2'	9:I:3160:G:C1'	2.37	0.54
9:I:3351:G:H1'	9:I:3352:A:H8	1.72	0.54
9:I:3445:U:P	17:S:54:LYS:HZ1	2.28	0.54
9:I:3532:G:H2'	9:I:3533:U:O4'	2.07	0.54
9:I:3594:G:C6	9:I:3684:G:O6	2.60	0.54
9:I:3673:C:H2'	9:I:3673:C:O2	2.07	0.54
9:I:3683:U:C2'	9:I:3684:G:H5'	2.37	0.54
9:I:3689:U:H2'	9:I:3689:U:O2	2.07	0.54
9:I:3804:C:H2'	9:I:3805:A:H5'	1.90	0.54
9:I:3839:G:N7	9:I:3866:U:O2	2.41	0.54
9:I:3863:A:C6	9:I:3864:G:C5	2.95	0.54
9:I:4128:A:O2'	12:L:79:LEU:HD12	2.07	0.54
9:I:4194:A:C2	9:I:4195:U:C4	2.95	0.54
9:I:4196:G:N3	9:I:4197:C:C5	2.76	0.54
9:I:4240:U:H4'	15:O:137:LYS:C	2.32	0.54
9:I:4298:U:O5'	9:I:4298:U:H6	1.90	0.54
10:J:16:C:O2	10:J:66:G:N1	2.40	0.54
10:J:43:G:C4'	10:J:44:A:C6	2.86	0.54
10:J:66:G:H2'	10:J:66:G:N3	2.23	0.54
10:J:112:C:C2'	10:J:113:C:C6	2.91	0.54
11:K:88:ALA:CB	11:K:194:VAL:HG21	2.38	0.54
12:L:38:LYS:HB2	12:L:47:ALA:O	2.08	0.54
12:L:105:LYS:O	12:L:106:LYS:HG3	2.07	0.54
13:M:147:LEU:HB2	13:M:183:PHE:CB	2.31	0.54
15:O:87:GLN:HG2	15:O:163:TYR:O	2.08	0.54
16:R:119:PHE:CE2	16:R:122:LEU:HD22	2.42	0.54
21:W:176:LEU:HB2	21:W:178:ILE:CG1	2.37	0.54
22:X:63:ILE:HD13	22:X:90:VAL:HG22	1.89	0.54
22:X:150:VAL:O	22:X:166:TRP:HA	2.08	0.54
22:X:153:SER:HA	22:X:164:THR:HA	1.90	0.54
24:Z:46:GLU:HB3	24:Z:48:PRO:HD2	1.90	0.54
24:Z:79:VAL:N	24:Z:130:ALA:HB1	2.23	0.54
26:b:58:LEU:H	26:b:58:LEU:HD23	1.73	0.54
31:g:73:LEU:CD2	31:g:103:CYS:HA	2.35	0.54
31:g:111:GLN:OE1	31:g:111:GLN:HA	2.08	0.54
32:h:21:ILE:HD12	32:h:21:ILE:H	1.73	0.54
32:h:25:GLY:O	32:h:29:SER:N	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:m:30:GLU:CD	37:m:31:PRO:HD2	2.33	0.54
38:n:42:ASN:HD21	38:n:45:GLU:CD	2.16	0.54
43:s:4:GLU:C	43:s:7:LEU:HG	2.33	0.54
43:s:48:GLN:HB2	43:s:49:LYS:HZ3	1.71	0.54
45:u:61:LEU:HD12	45:u:61:LEU:C	2.32	0.54
1:A:40:ARG:O	1:A:40:ARG:HG3	2.07	0.53
3:C:63:GLN:CG	9:I:226:G:C4	2.90	0.53
4:D:37:ARG:NE	9:I:278:A:H3'	2.23	0.53
4:D:45:ASP:CG	4:D:48:ASN:HA	2.33	0.53
4:D:68:LYS:HD2	9:I:252:A:C5	2.42	0.53
7:G:59:GLN:HB3	7:G:64:LEU:HD21	1.91	0.53
8:H:49:ALA:O	8:H:53:LYS:HE3	2.08	0.53
9:I:53:C:H2'	9:I:351:C:N4	2.18	0.53
9:I:361:G:H3'	9:I:363:A:OP2	2.08	0.53
9:I:750:U:C2'	9:I:751:G:O4'	2.55	0.53
9:I:798:G:C3'	9:I:799:G:H8	2.20	0.53
9:I:1039:U:H6	9:I:1039:U:H3'	1.72	0.53
9:I:1077:U:H3	24:Z:81:THR:CG2	2.21	0.53
9:I:1081:A:H2'	9:I:1082:U:H6	1.73	0.53
9:I:1180:G:H4'	9:I:1181:G:OP1	2.08	0.53
9:I:1268:A:O2'	9:I:1324:C:H1'	2.08	0.53
9:I:1374:A:C5'	26:b:28:ILE:HD13	2.38	0.53
9:I:1602:U:O2'	9:I:1603:A:H5''	2.08	0.53
9:I:1723:A:N6	9:I:1922:A:C2	2.76	0.53
9:I:1728:C:H5	9:I:3901:A:H1'	1.69	0.53
9:I:1829:G:C8	9:I:1977:A:H1'	2.43	0.53
9:I:1860:U:C3'	9:I:1861:G:C8	2.89	0.53
9:I:1917:C:H2'	9:I:1918:C:C6	2.43	0.53
9:I:2051:G:C6	9:I:2052:U:C4	2.96	0.53
9:I:2455:C:N4	9:I:3525:A:N7	2.56	0.53
9:I:2467:A:H4'	9:I:2682:U:C1'	2.38	0.53
9:I:2490:A:OP2	40:p:92:LYS:NZ	2.34	0.53
9:I:2637:A:H2'	16:R:27:ARG:HH12	1.72	0.53
9:I:2656:G:O2'	9:I:2657:G:H5'	2.07	0.53
9:I:2835:G:N2	43:s:84:TYR:HB3	2.23	0.53
9:I:3003:A:OP2	9:I:3003:A:H8	1.91	0.53
9:I:3176:G:H2'	9:I:3177:U:H6	1.73	0.53
9:I:3236:U:C4	9:I:3237:G:C6	2.95	0.53
9:I:3309:A:O4'	9:I:3311:G:C1'	2.56	0.53
9:I:3312:U:H5''	11:K:155:ARG:HB3	1.91	0.53
9:I:3531:A:H2'	9:I:3532:G:C8	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3815:U:H4'	9:I:3816:A:OP2	2.08	0.53
9:I:3865:G:C2	9:I:3866:U:C1'	2.90	0.53
9:I:3983:U:O2'	9:I:3984:G:H5'	2.08	0.53
9:I:4073:C:O3'	12:L:137:SER:OG	2.24	0.53
9:I:4115:G:H2'	9:I:4116:U:C6	2.44	0.53
9:I:4128:A:H1'	12:L:67:HIS:CE1	2.43	0.53
9:I:4196:G:H2'	9:I:4196:G:N3	2.22	0.53
9:I:4218:U:H2'	9:I:4219:A:C8	2.43	0.53
9:I:4298:U:O5'	9:I:4298:U:C6	2.61	0.53
9:I:4395:G:H2'	9:I:4396:A:H8	1.73	0.53
10:J:39:U:O2'	10:J:41:C:H5''	2.07	0.53
10:J:69:C:O2'	10:J:70:C:H5'	2.08	0.53
12:L:8:LYS:HD3	12:L:196:ALA:O	2.07	0.53
13:M:106:LYS:O	13:M:110:SER:OG	2.11	0.53
13:M:140:ASP:C	13:M:141:MET:HE2	2.33	0.53
14:N:79:ARG:CG	14:N:82:TYR:CD2	2.91	0.53
15:O:106:LEU:HB2	15:O:108:PHE:CE2	2.43	0.53
16:R:23:LYS:CE	16:R:28:LEU:HB2	2.38	0.53
17:S:70:ARG:C	17:S:71:ARG:HG2	2.33	0.53
19:U:136:MET:CG	45:u:57:TYR:HB3	2.38	0.53
22:X:149:LYS:CD	22:X:166:TRP:HB2	2.38	0.53
23:Y:116:LEU:HD21	23:Y:151:GLN:OE1	2.07	0.53
24:Z:16:VAL:HG22	24:Z:19:GLY:O	2.08	0.53
24:Z:83:SER:OG	24:Z:127:VAL:HG12	2.08	0.53
26:b:69:ARG:NH2	26:b:92:PRO:O	2.33	0.53
28:d:84:LEU:HB3	28:d:91:LEU:CD1	2.38	0.53
41:q:4:VAL:CB	41:q:39:LEU:HB2	2.38	0.53
41:q:47:VAL:HG23	41:q:47:VAL:O	2.07	0.53
43:s:17:SER:C	43:s:19:LYS:H	2.16	0.53
44:t:39:ASN:CG	44:t:62:ALA:HB3	2.33	0.53
44:t:80:ASP:HB2	44:t:95:PHE:CD1	2.43	0.53
45:u:61:LEU:CG	45:u:72:VAL:HG23	2.39	0.53
47:w:18:SER:OG	47:w:22:ASN:N	2.28	0.53
47:w:26:ARG:CZ	47:w:28:PHE:HE1	2.21	0.53
49:y:23:LEU:HD23	49:y:23:LEU:O	2.08	0.53
1:A:6:LYS:N	9:I:1215:A:H5''	2.22	0.53
1:A:74:ARG:NH1	9:I:1358:C:O3'	2.40	0.53
3:C:70:ARG:NH2	9:I:375:G:OP2	2.40	0.53
7:G:59:GLN:O	7:G:64:LEU:HD23	2.08	0.53
9:I:56:G:H2'	9:I:57:C:H6	1.72	0.53
9:I:141:G:C2	9:I:142:A:H1'	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:159:A:C6	9:I:342:U:H1'	2.43	0.53
9:I:338:C:C2'	9:I:339:U:H5'	2.38	0.53
9:I:463:U:O5'	9:I:463:U:H6	1.92	0.53
9:I:501:A:H2'	9:I:502:C:H6	1.72	0.53
9:I:632:G:O2'	9:I:633:C:H5'	2.08	0.53
9:I:809:C:O2'	9:I:810:C:O4'	2.25	0.53
9:I:983:C:C2'	9:I:984:C:H5'	2.38	0.53
9:I:991:U:H5'	9:I:992:G:C5	2.42	0.53
9:I:1164:U:H2'	9:I:1165:G:O4'	2.08	0.53
9:I:1590:U:C2'	9:I:1591:A:C8	2.90	0.53
9:I:1621:G:C2'	9:I:1622:G:O5'	2.56	0.53
9:I:1653:U:H2'	9:I:1654:U:O4'	2.08	0.53
9:I:1721:A:C5	9:I:1733:A:H1'	2.43	0.53
9:I:1910:G:C5'	9:I:1911:G:C5'	2.86	0.53
9:I:2126:A:H2'	18:T:78:ARG:NH1	2.22	0.53
9:I:2489:C:H1'	40:p:92:LYS:CD	2.20	0.53
9:I:2522:A:N3	9:I:3981:G:H4'	2.23	0.53
9:I:2522:A:P	9:I:2620:A:H61	2.31	0.53
9:I:2571:A:H2	9:I:2582:A:N3	2.07	0.53
9:I:2575:U:H2'	9:I:2576:U:C5	2.43	0.53
9:I:2599:U:H2'	9:I:2600:G:C8	2.44	0.53
9:I:2904:G:O2'	9:I:2905:U:H5'	2.08	0.53
9:I:3018:G:OP2	9:I:3018:G:H3'	2.08	0.53
9:I:3059:C:H5''	11:K:25:LYS:NZ	2.21	0.53
9:I:3159:A:C2'	9:I:3160:G:O4'	2.51	0.53
9:I:3446:A:N7	17:S:42:THR:HG21	2.23	0.53
9:I:3576:A:C2	9:I:3577:G:H1'	2.43	0.53
9:I:3717:G:H2'	9:I:3718:G:C1'	2.37	0.53
9:I:3763:G:N2	9:I:3764:A:C1'	2.69	0.53
9:I:3783:G:H5'	9:I:3878:U:O2	2.07	0.53
9:I:3783:G:H1'	9:I:3877:G:N3	2.23	0.53
9:I:3785:U:O5'	9:I:3785:U:C6	2.61	0.53
9:I:3841:C:H1'	34:j:36:PHE:CB	2.38	0.53
9:I:3850:U:O3'	46:v:10:ARG:NH1	2.41	0.53
9:I:4097:G:H2'	9:I:4098:U:C6	2.42	0.53
9:I:4151:A:H61	9:I:4158:G:C2'	2.21	0.53
9:I:4167:G:C6	9:I:4168:G:C6	2.96	0.53
9:I:4175:C:C5	9:I:4218:U:C5	2.96	0.53
9:I:4278:U:H2'	9:I:4279:C:H5'	1.91	0.53
11:K:143:VAL:HG22	11:K:189:ALA:HB2	1.89	0.53
11:K:204:LEU:CD1	11:K:210:ALA:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:105:LYS:O	12:L:106:LYS:CG	2.55	0.53
13:M:1:MET:CE	13:M:16:GLU:N	2.71	0.53
14:N:1:ALA:HB2	14:N:97:GLU:HG3	1.89	0.53
14:N:33:ILE:CD1	14:N:99:PHE:HD1	2.20	0.53
15:O:98:LYS:HB2	15:O:101:VAL:HB	1.90	0.53
16:R:33:ALA:HB1	16:R:109:LEU:CD2	2.38	0.53
17:S:48:PRO:HG2	17:S:49:ARG:NH2	2.23	0.53
17:S:65:THR:O	17:S:67:LYS:N	2.41	0.53
17:S:73:ASP:OD1	17:S:75:SER:CB	2.56	0.53
19:U:62:LYS:HB2	19:U:64:TRP:CZ3	2.41	0.53
19:U:115:GLU:OE1	19:U:115:GLU:N	2.32	0.53
21:W:98:LEU:O	21:W:101:TRP:HB2	2.08	0.53
21:W:203:ALA:O	21:W:207:VAL:HG23	2.08	0.53
23:Y:53:GLN:HA	23:Y:198:LEU:CG	2.38	0.53
24:Z:97:ILE:HG21	24:Z:115:LEU:HD13	1.89	0.53
25:a:6:ILE:HD13	25:a:74:LEU:HD21	1.90	0.53
25:a:62:MET:SD	25:a:64:VAL:HG12	2.48	0.53
28:d:28:ASN:HD22	28:d:35:TYR:HE1	1.56	0.53
37:m:4:ARG:NE	37:m:35:GLN:HE22	2.05	0.53
38:n:6:ARG:HG2	38:n:94:SER:O	2.08	0.53
39:o:16:VAL:HG12	39:o:17:PRO:HD2	1.89	0.53
39:o:19:PHE:CZ	39:o:58:PHE:HB2	2.42	0.53
39:o:98:TYR:CE2	39:o:102:ARG:NE	2.76	0.53
41:q:25:LEU:N	41:q:94:THR:OG1	2.39	0.53
42:r:32:ALA:O	42:r:35:ILE:N	2.42	0.53
42:r:84:ARG:HB2	42:r:96:ILE:HG21	1.90	0.53
43:s:88:LYS:HB3	43:s:89:GLU:CD	2.33	0.53
45:u:60:VAL:HG22	45:u:73:LYS:HG3	1.89	0.53
48:x:23:GLU:CD	48:x:26:ASN:HD22	2.15	0.53
49:y:28:LEU:HA	49:y:35:VAL:CG2	2.23	0.53
1:A:80:ARG:HD2	9:I:972:G:O2'	2.09	0.53
1:A:99:SER:HB2	28:d:110:ARG:NH2	2.21	0.53
2:B:24:THR:HB	2:B:69:LEU:HD21	1.90	0.53
2:B:45:HIS:C	2:B:47:LYS:H	2.17	0.53
2:B:53:ARG:NE	9:I:763:C:H4'	2.24	0.53
6:F:64:MET:HE1	6:F:67:HIS:CB	2.28	0.53
9:I:123:C:H2'	9:I:124:U:H6	1.72	0.53
9:I:178:A:H2'	9:I:179:U:H5'	1.90	0.53
9:I:183:G:H2'	9:I:184:U:C6	2.43	0.53
9:I:190:G:C3'	9:I:191:A:H8	2.20	0.53
9:I:409:G:C2'	9:I:431:A:H61	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:539:G:N3	23:Y:39:GLN:NE2	2.55	0.53
9:I:744:G:H1'	9:I:835:G:O2'	2.09	0.53
9:I:840:C:H2'	9:I:842:U:C4'	2.38	0.53
9:I:900:A:H5''	9:I:901:G:OP2	2.08	0.53
9:I:1083:G:H21	9:I:1101:A:N6	2.06	0.53
9:I:1107:G:N3	9:I:1107:G:H2'	2.23	0.53
9:I:1193:U:H2'	9:I:1194:C:O4'	2.08	0.53
9:I:1316:C:H3'	9:I:1317:A:H8	1.73	0.53
9:I:1469:A:O5'	9:I:1470:C:H5	1.91	0.53
9:I:1537:C:H2'	9:I:1538:A:C8	2.43	0.53
9:I:1768:C:N3	9:I:1925:G:O6	2.41	0.53
9:I:1812:G:H2'	9:I:1813:G:C8	2.43	0.53
9:I:1836:C:O2'	9:I:1837:C:C5'	2.57	0.53
9:I:2080:U:O2'	9:I:2081:C:H5'	2.09	0.53
9:I:2159:G:N3	9:I:2159:G:H2'	2.24	0.53
9:I:2215:A:OP1	9:I:2215:A:H8	1.91	0.53
9:I:2229:G:N7	11:K:206:LYS:HD2	2.23	0.53
9:I:2536:G:C8	9:I:2537:C:C5	2.96	0.53
9:I:2640:C:H2'	9:I:2641:A:H5'	1.89	0.53
9:I:2707:A:C4	9:I:2708:A:C8	2.96	0.53
9:I:2769:A:H4'	9:I:2770:A:OP1	2.07	0.53
9:I:3184:A:P	9:I:3184:A:H8	2.31	0.53
9:I:3186:U:H5''	9:I:3187:U:OP2	2.08	0.53
9:I:3214:U:N3	9:I:3234:G:N1	2.32	0.53
9:I:3214:U:C2'	9:I:3215:G:C1'	2.81	0.53
9:I:3228:G:C2	9:I:3229:A:C8	2.97	0.53
9:I:3235:C:H2'	9:I:3236:U:C1'	2.38	0.53
9:I:3294:C:C4	9:I:3296:A:C2	2.97	0.53
9:I:3586:U:O4'	9:I:3587:G:H1'	2.08	0.53
9:I:3822:A:H2'	9:I:3823:U:C5	2.37	0.53
9:I:3866:U:C3'	9:I:3867:G:H8	2.21	0.53
9:I:3912:A:C5'	34:j:16:HIS:NE2	2.71	0.53
10:J:74:G:H1'	45:u:29:ILE:CG2	2.38	0.53
10:J:75:G:C2	10:J:99:G:O6	2.61	0.53
10:J:100:A:H2'	10:J:101:G:C8	2.43	0.53
11:K:3:VAL:CG1	11:K:19:VAL:HG21	2.37	0.53
11:K:100:ARG:O	11:K:101:ARG:CB	2.56	0.53
12:L:1:MET:HG3	12:L:205:PRO:CG	2.32	0.53
13:M:23:PHE:HE2	13:M:25:GLU:CG	2.20	0.53
14:N:59:ILE:HA	14:N:139:GLU:CB	2.35	0.53
14:N:68:LYS:HG2	14:N:81:GLY:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:166:ARG:O	14:N:170:ALA:HB2	2.09	0.53
15:O:36:LEU:HD21	15:O:42:VAL:HB	1.88	0.53
15:O:46:ASP:CG	15:O:47:ASN:H	2.17	0.53
15:O:82:PHE:CG	15:O:137:LYS:HA	2.43	0.53
16:R:32:LEU:CG	16:R:142:ILE:HG21	2.38	0.53
16:R:42:ALA:HB3	40:p:102:LYS:NZ	2.23	0.53
16:R:81:ILE:CG2	16:R:82:GLY:H	2.15	0.53
17:S:34:GLY:O	17:S:36:GLY:N	2.42	0.53
18:T:82:LEU:HD21	18:T:116:VAL:CG2	2.38	0.53
18:T:91:ASP:HB2	18:T:93:ASN:OD1	2.07	0.53
18:T:118:THR:HG23	18:T:118:THR:O	2.08	0.53
20:V:45:ARG:O	20:V:50:PRO:HD2	2.09	0.53
21:W:93:TRP:CD2	21:W:97:MET:HE3	2.43	0.53
22:X:22:PHE:HE2	29:e:93:ASP:HB3	1.73	0.53
22:X:56:ILE:HD13	22:X:65:VAL:HG22	1.91	0.53
22:X:150:VAL:O	22:X:167:TYR:N	2.42	0.53
23:Y:79:ALA:N	23:Y:85:THR:HG23	2.23	0.53
26:b:69:ARG:HG3	26:b:95:ARG:CG	2.38	0.53
26:b:76:SER:OG	26:b:85:GLN:OE1	2.06	0.53
30:f:74:VAL:O	30:f:101:VAL:HG21	2.07	0.53
34:j:4:GLU:HB2	34:j:24:LYS:CD	2.38	0.53
34:j:6:ILE:HB	34:j:49:ALA:HA	1.89	0.53
36:l:16:THR:HG23	36:l:20:GLY:O	2.08	0.53
36:l:36:ALA:O	36:l:40:LYS:HE2	2.08	0.53
42:r:7:HIS:H	42:r:103:ILE:CG2	2.21	0.53
42:r:8:ARG:HD3	42:r:102:HIS:ND1	2.23	0.53
44:t:13:LEU:HG	44:t:68:ASN:CA	2.36	0.53
44:t:24:VAL:CG2	44:t:33:VAL:HB	2.35	0.53
44:t:65:GLN:O	44:t:65:GLN:HG2	2.07	0.53
45:u:2:PHE:HE2	45:u:53:LYS:CG	2.21	0.53
45:u:60:VAL:HG22	45:u:73:LYS:CE	2.38	0.53
49:y:56:VAL:HG22	49:y:58:GLU:HG3	1.90	0.53
1:A:3:GLN:HA	9:I:1215:A:O4'	2.08	0.53
1:A:69:PRO:CG	9:I:982:A:H8	2.21	0.53
1:A:71:GLY:CA	1:A:80:ARG:HB3	2.34	0.53
1:A:88:MET:HG3	9:I:1058:C:O3'	2.08	0.53
2:B:57:ARG:HG2	2:B:58:MET:HE2	1.89	0.53
4:D:26:VAL:H	9:I:279:C:H42	1.56	0.53
6:F:35:ARG:HH12	9:I:1319:C:H41	1.54	0.53
9:I:299:A:C2'	9:I:563:C:H42	2.21	0.53
9:I:696:U:C2'	9:I:697:G:H5'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:748:A:O2'	9:I:749:C:H5'	2.08	0.53
9:I:867:C:H3'	9:I:868:G:H8	1.73	0.53
9:I:1225:C:H41	32:h:102:LYS:HE3	1.73	0.53
9:I:1379:U:O4	26:b:1:PRO:HD2	2.08	0.53
9:I:1476:C:H4'	20:V:90:ARG:NH1	2.23	0.53
9:I:1568:G:N2	9:I:1569:C:H1'	2.23	0.53
9:I:1777:G:C2'	9:I:1778:A:OP2	2.56	0.53
9:I:1926:C:H2'	9:I:1927:U:H5'	1.89	0.53
9:I:2136:G:C5	18:T:128:THR:HG22	2.43	0.53
9:I:2205:A:C4	9:I:2206:A:C8	2.96	0.53
9:I:2225:G:H2'	9:I:2226:G:C4	2.43	0.53
9:I:2229:G:OP1	11:K:12:ARG:HD2	2.08	0.53
9:I:2265:C:C2	9:I:2266:U:C5	2.96	0.53
9:I:2346:U:H2'	9:I:2347:U:O4'	2.09	0.53
9:I:2598:C:H2'	9:I:2599:U:H6	1.72	0.53
9:I:2712:G:N1	9:I:2726:G:N7	2.57	0.53
9:I:3069:C:H2'	9:I:3070:U:H6	1.72	0.53
9:I:3169:C:O5'	9:I:3169:C:H6	1.90	0.53
9:I:3191:G:C6	9:I:3192:A:C6	2.97	0.53
9:I:3240:A:C2	9:I:3241:U:C5	2.97	0.53
9:I:3251:A:N3	9:I:3251:A:H2'	2.24	0.53
9:I:3267:A:C6	11:K:13:ARG:CD	2.92	0.53
9:I:3394:A:O2'	9:I:3395:A:OP1	2.25	0.53
9:I:3823:U:C2'	9:I:3824:G:C8	2.92	0.53
9:I:3871:A:C2	38:n:116:PHE:CD1	2.96	0.53
9:I:4241:G:OP1	15:O:137:LYS:NZ	2.37	0.53
10:J:8:G:N7	10:J:111:G:C6	2.76	0.53
10:J:16:C:C2	10:J:17:G:N7	2.77	0.53
10:J:111:G:C3'	10:J:112:C:C6	2.91	0.53
12:L:64:GLU:O	12:L:68:PHE:N	2.29	0.53
12:L:193:VAL:HB	12:L:201:LEU:HD12	1.90	0.53
14:N:68:LYS:HG3	14:N:83:PRO:CA	2.38	0.53
15:O:24:THR:HG22	15:O:33:THR:OG1	2.09	0.53
16:R:23:LYS:O	16:R:62:VAL:CG2	2.57	0.53
16:R:102:GLU:OE2	16:R:124:VAL:CG1	2.55	0.53
16:R:105:VAL:O	16:R:108:MET:N	2.36	0.53
17:S:36:GLY:CA	17:S:107:LEU:CD2	2.86	0.53
17:S:38:ILE:CD1	17:S:87:LEU:HD11	2.35	0.53
17:S:88:ASN:CB	17:S:92:GLU:O	2.57	0.53
18:T:95:LEU:HD12	18:T:101:ILE:HD13	1.90	0.53
19:U:34:LYS:HB2	19:U:131:VAL:HG11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:41:ALA:HA	20:V:44:LEU:CG	2.38	0.53
21:W:69:THR:HG22	21:W:69:THR:O	2.09	0.53
22:X:116:ALA:HB1	22:X:186:SER:HB3	1.90	0.53
23:Y:75:TYR:CD1	23:Y:200:VAL:HG22	2.44	0.53
24:Z:96:ILE:HD12	24:Z:112:HIS:O	2.07	0.53
27:c:74:ILE:HD12	27:c:128:VAL:HG22	1.89	0.53
28:d:2:GLN:OE1	28:d:2:GLN:HA	2.07	0.53
29:e:10:ASP:OD1	29:e:12:ARG:HD3	2.09	0.53
31:g:50:LYS:O	31:g:66:ILE:HB	2.09	0.53
35:k:40:ALA:HB1	35:k:41:ARG:NH1	2.23	0.53
38:n:27:VAL:O	38:n:27:VAL:HG13	2.08	0.53
38:n:89:VAL:CG2	38:n:116:PHE:HE2	2.21	0.53
40:p:109:VAL:O	40:p:113:LYS:N	2.31	0.53
42:r:5:ALA:HB2	42:r:54:ALA:HB2	1.88	0.53
43:s:10:VAL:O	43:s:35:ALA:N	2.42	0.53
46:v:42:GLY:O	46:v:48:THR:O	2.25	0.53
49:y:3:THR:H	49:y:39:ASP:CG	2.17	0.53
49:y:50:VAL:O	49:y:54:VAL:HG22	2.09	0.53
1:A:48:GLN:NE2	6:F:11:LEU:HB3	2.24	0.53
2:B:10:ILE:CG2	2:B:30:LEU:HG	2.39	0.53
3:C:6:LEU:CD1	3:C:71:VAL:HG22	2.38	0.53
3:C:57:ILE:HD12	3:C:75:ILE:HD13	1.90	0.53
4:D:28:HIS:HB2	4:D:33:LYS:O	2.09	0.53
9:I:116:G:N3	9:I:116:G:H2'	2.22	0.53
9:I:381:A:C2	9:I:382:A:H1'	2.43	0.53
9:I:469:C:O2'	9:I:470:U:H5'	2.08	0.53
9:I:610:C:H2'	9:I:611:C:H6	1.73	0.53
9:I:1064:U:O4'	9:I:1065:C:H5	1.91	0.53
9:I:1106:C:H5''	22:X:173:PRO:HA	1.91	0.53
9:I:1204:U:H5''	22:X:189:HIS:CD2	2.43	0.53
9:I:1387:C:N3	9:I:1388:C:C5	2.76	0.53
9:I:1479:A:H1'	9:I:4310:G:N3	2.23	0.53
9:I:1610:G:C6	9:I:1611:A:N7	2.77	0.53
9:I:1629:C:O2'	9:I:1630:C:H5'	2.08	0.53
9:I:1660:A:N6	9:I:1667:A:C1'	2.65	0.53
9:I:1750:G:O2'	9:I:1751:A:H5'	2.09	0.53
9:I:1819:G:C2'	9:I:1820:A:H8	2.21	0.53
9:I:1897:U:OP2	47:w:9:LYS:NZ	2.29	0.53
9:I:1905:U:H5''	9:I:1906:G:O4'	2.08	0.53
9:I:2041:A:C6	9:I:2053:G:C6	2.96	0.53
9:I:2470:G:H4'	9:I:2650:A:H62	1.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2661:C:C2	9:I:2662:G:N7	2.77	0.53
9:I:2872:A:C8	9:I:2874:G:N7	2.77	0.53
9:I:2946:G:N7	9:I:2951:U:H2'	2.23	0.53
9:I:2984:A:N1	11:K:97:ASP:HA	2.23	0.53
9:I:3595:A:H2'	9:I:3596:G:H8	1.67	0.53
9:I:3777:C:C5	9:I:3883:G:C4	2.96	0.53
9:I:3897:C:N3	9:I:3898:U:H5	2.05	0.53
10:J:5:G:C6	10:J:114:A:C6	2.97	0.53
10:J:99:G:C4	10:J:100:A:C8	2.96	0.53
11:K:68:ARG:HE	11:K:128:THR:CG2	2.14	0.53
12:L:12:THR:CG2	12:L:24:VAL:HG22	2.37	0.53
12:L:48:ILE:CG2	12:L:90:PHE:H	2.22	0.53
13:M:14:VAL:HG11	13:M:19:PHE:HE2	1.72	0.53
13:M:16:GLU:HG2	13:M:21:ARG:NH2	2.23	0.53
13:M:147:LEU:HB3	13:M:186:VAL:CG2	2.35	0.53
14:N:2:LYS:HE2	14:N:100:GLU:OE2	2.07	0.53
14:N:29:ARG:C	14:N:168:LEU:CD1	2.82	0.53
14:N:134:GLN:OE1	14:N:134:GLN:N	2.36	0.53
18:T:123:ARG:HA	18:T:144:GLU:O	2.07	0.53
19:U:34:LYS:HB3	19:U:131:VAL:HG13	1.91	0.53
20:V:10:LEU:O	20:V:12:ARG:HB3	2.09	0.53
20:V:115:LEU:HB3	20:V:118:ARG:CA	2.39	0.53
21:W:111:LEU:HB2	21:W:141:LEU:HD13	1.90	0.53
25:a:69:GLU:OE1	25:a:73:GLU:HB3	2.09	0.53
30:f:38:SER:HB3	30:f:57:ARG:HD3	1.88	0.53
32:h:24:VAL:HG13	32:h:64:VAL:HG11	1.91	0.53
34:j:12:ALA:HB3	34:j:44:VAL:HG21	1.89	0.53
36:l:24:LYS:HG2	36:l:25:HIS:H	1.71	0.53
38:n:24:ARG:HD3	38:n:92:ASP:HB2	1.89	0.53
40:p:98:ALA:CB	40:p:102:LYS:HA	2.37	0.53
41:q:28:ALA:HB3	41:q:31:GLU:CG	2.39	0.53
41:q:71:LYS:HA	41:q:90:ARG:HG2	1.90	0.53
43:s:11:LEU:HD22	48:x:25:PHE:HE1	1.73	0.53
43:s:62:VAL:HG23	43:s:64:LYS:HZ1	1.74	0.53
44:t:23:LYS:N	44:t:36:GLU:H	2.05	0.53
44:t:25:LYS:HA	44:t:25:LYS:CE	2.27	0.53
48:x:27:LEU:O	48:x:31:ALA:N	2.39	0.53
1:A:20:PHE:HE2	9:I:1316:C:H1'	1.72	0.53
4:D:68:LYS:CE	9:I:252:A:N3	2.70	0.53
7:G:8:ARG:HH22	9:I:328:A:H62	1.57	0.53
8:H:11:PHE:CZ	30:f:72:VAL:HG21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:24:C:H2'	9:I:25:A:H8	1.74	0.53
9:I:49:A:H1'	9:I:51:C:O4'	2.08	0.53
9:I:486:A:H3'	9:I:487:C:H6	1.73	0.53
9:I:491:C:H6	9:I:491:C:O5'	1.92	0.53
9:I:542:U:OP1	23:Y:9:LYS:HD3	2.09	0.53
9:I:739:U:O2'	9:I:740:G:H5'	2.09	0.53
9:I:779:A:H3'	9:I:799:G:O6	2.07	0.53
9:I:1329:U:H4'	32:h:22:TYR:HD1	1.73	0.53
9:I:1359:A:H2'	9:I:1360:G:H8	1.74	0.53
9:I:1418:G:N2	9:I:4385:U:O2	2.41	0.53
9:I:1480:U:OP1	9:I:4325:G:O2'	2.25	0.53
9:I:1642:A:O4'	43:s:1:MET:CG	2.56	0.53
9:I:1810:A:O5'	44:t:18:LYS:HE3	2.07	0.53
9:I:1810:A:P	44:t:18:LYS:HZ1	2.27	0.53
9:I:1894:C:H2'	9:I:1895:U:C6	2.43	0.53
9:I:2085:G:H5''	9:I:2086:A:P	2.49	0.53
9:I:2113:A:C3'	9:I:2114:A:H5'	2.20	0.53
9:I:2145:C:N4	9:I:3844:C:C1'	2.71	0.53
9:I:2229:G:H5''	9:I:2230:A:C5'	2.36	0.53
9:I:2232:C:H2'	9:I:2233:G:O5'	2.09	0.53
9:I:2348:C:C2'	9:I:2349:A:C8	2.90	0.53
9:I:2369:G:H2'	9:I:2370:U:O4'	2.09	0.53
9:I:2535:G:C2	9:I:2536:G:C8	2.96	0.53
9:I:2638:A:H2'	9:I:2639:C:C6	2.43	0.53
9:I:2858:G:OP2	47:w:1:SER:N	2.39	0.53
9:I:2920:G:H8	9:I:2920:G:O5'	1.90	0.53
9:I:3302:A:H3'	9:I:3303:A:C8	2.44	0.53
9:I:3389:C:N3	9:I:3390:G:C8	2.77	0.53
9:I:3392:U:O5'	9:I:3392:U:H6	1.92	0.53
9:I:3585:C:H6	9:I:3586:U:O2'	1.91	0.53
9:I:3849:G:H4'	46:v:14:LYS:CD	2.38	0.53
9:I:3865:G:N2	34:j:43:HIS:HE1	1.99	0.53
9:I:3871:A:HO2'	38:n:116:PHE:C	2.17	0.53
9:I:3885:G:H1'	9:I:3918:C:N4	2.23	0.53
9:I:3891:G:H2'	9:I:3892:U:C6	2.44	0.53
9:I:3946:C:H2'	9:I:3947:A:H8	1.73	0.53
9:I:4240:U:H1'	15:O:138:GLN:HG3	1.91	0.53
9:I:4241:G:H1'	9:I:4251:A:H61	1.70	0.53
9:I:4243:A:P	9:I:4244:A:H3'	2.49	0.53
9:I:4248:U:H5''	9:I:4249:C:OP2	2.08	0.53
9:I:4265:C:H2'	9:I:4266:C:H6	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:17:G:O6	10:J:64:U:O4	2.27	0.53
10:J:47:U:H2'	10:J:48:C:H5	1.74	0.53
10:J:98:A:C4	10:J:99:G:C8	2.96	0.53
11:K:95:TYR:H	11:K:100:ARG:HA	1.74	0.53
11:K:180:MET:HG3	11:K:267:VAL:HB	1.90	0.53
12:L:91:THR:HG22	12:L:92:VAL:N	2.23	0.53
13:M:95:LYS:HD2	13:M:96:VAL:N	2.23	0.53
14:N:45:ASP:CG	14:N:48:LEU:HB2	2.33	0.53
14:N:56:LEU:HB2	14:N:64:PRO:HG2	1.90	0.53
15:O:115:GLN:HE21	15:O:116:LEU:C	2.17	0.53
15:O:156:TYR:HE1	15:O:172:GLU:O	1.92	0.53
19:U:109:PRO:HB2	19:U:111:GLU:OE2	2.09	0.53
25:a:2:ARG:HG2	25:a:92:THR:OG1	2.07	0.53
25:a:38:ARG:HE	25:a:97:THR:HA	1.74	0.53
25:a:72:ASP:O	25:a:76:THR:HG23	2.07	0.53
26:b:97:ALA:CA	26:b:100:MET:HE3	2.35	0.53
29:e:22:VAL:HG22	29:e:70:VAL:CG1	2.38	0.53
29:e:48:LEU:HD21	29:e:55:LYS:CD	2.38	0.53
39:o:22:GLY:C	39:o:45:VAL:HG23	2.34	0.53
43:s:54:GLU:HG2	43:s:88:LYS:CG	2.39	0.53
45:u:19:ARG:O	45:u:23:ALA:HB2	2.09	0.53
47:w:33:HIS:ND1	47:w:55:MET:HE3	2.24	0.53
5:E:44:ARG:HB3	9:I:672:A:O2'	2.07	0.53
8:H:34:ARG:HH22	30:f:108:GLY:HA3	1.74	0.53
9:I:780:A:H2	9:I:4418:G:C4'	2.20	0.53
9:I:841:U:H4'	9:I:845:G:C6	2.44	0.53
9:I:859:A:C2'	9:I:860:G:H5'	2.39	0.53
9:I:881:C:N3	9:I:882:C:N4	2.56	0.53
9:I:1031:G:N3	9:I:1031:G:H3'	2.24	0.53
9:I:1296:G:N3	26:b:113:LYS:HD2	2.24	0.53
9:I:1328:A:O2'	9:I:1329:U:H5'	2.09	0.53
9:I:1414:G:O2'	9:I:1415:G:H5'	2.08	0.53
9:I:1559:U:H5''	9:I:1560:G:OP2	2.08	0.53
9:I:1621:G:O2'	9:I:1622:G:H5'	2.09	0.53
9:I:1646:A:O2'	9:I:1647:C:H5'	2.08	0.53
9:I:1753:C:C2'	9:I:1754:G:H5'	2.39	0.53
9:I:1801:G:OP2	9:I:1834:C:C2'	2.57	0.53
9:I:1808:G:H2'	9:I:1809:A:C5	2.42	0.53
9:I:1822:A:H3'	9:I:1823:C:C5'	2.38	0.53
9:I:2155:A:H4'	9:I:2156:G:OP1	2.08	0.53
9:I:2220:U:O2	9:I:2220:U:H2'	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2284:G:N1	11:K:227:VAL:HG21	2.24	0.53
9:I:2449:PSU:C3'	9:I:2450:G:H8	2.21	0.53
9:I:2525:G:H21	37:m:23:ILE:HG13	1.72	0.53
9:I:2535:G:C4	9:I:2536:G:N7	2.76	0.53
9:I:2536:G:C6	9:I:2607:U:N3	2.63	0.53
9:I:2647:C:OP1	40:p:79:ILE:HG21	2.09	0.53
9:I:2743:U:O2'	9:I:2744:G:H8	1.92	0.53
9:I:2766:A:C2	9:I:3112:6MZ:H9	2.43	0.53
9:I:2845:C:H2'	9:I:2846:U:C6	2.39	0.53
9:I:2963:A:H8	9:I:3016:A:N6	2.04	0.53
9:I:3067:G:H3'	9:I:3068:C:C5	2.44	0.53
9:I:3128:A:H4'	9:I:3129:A:OP2	2.08	0.53
9:I:3352:A:C4	9:I:3379:A:C8	2.96	0.53
9:I:3356:G:N2	9:I:3374:U:O2	2.36	0.53
9:I:3405:PSU:O2'	9:I:3413:A:N6	2.42	0.53
9:I:3537:C:C4	9:I:4271:G:C2	2.96	0.53
9:I:3756:U:P	9:I:3881:U:HO2'	2.27	0.53
9:I:3774:G:H4'	9:I:3821:A:C4'	2.38	0.53
9:I:3786:U:C2'	9:I:3787:G:O5'	2.57	0.53
9:I:3827:A:P	9:I:3827:A:H8	2.32	0.53
9:I:3831:G:HO2'	9:I:3832:C:P	2.31	0.53
9:I:3871:A:C3'	9:I:3872:A:H8	2.22	0.53
9:I:3872:A:C8	9:I:3872:A:O5'	2.62	0.53
9:I:4058:A:H5''	9:I:4059:A:OP1	2.09	0.53
9:I:4066:A:N7	12:L:150:GLN:HB2	2.24	0.53
9:I:4157:G:P	9:I:4157:G:H8	2.31	0.53
9:I:4316:G:H8	9:I:4316:G:O5'	1.92	0.53
10:J:8:G:C6	10:J:110:U:O2	2.62	0.53
10:J:15:G:H2'	10:J:15:G:N3	2.23	0.53
10:J:33:A:N6	10:J:43:G:HO2'	2.07	0.53
10:J:75:G:H5'	45:u:27:PRO:CG	2.39	0.53
10:J:80:G:C6	10:J:94:U:O2	2.62	0.53
10:J:115:G:C2'	10:J:116:G:H5'	2.39	0.53
12:L:8:LYS:O	12:L:198:GLY:CA	2.57	0.53
12:L:27:ILE:HG21	12:L:187:LEU:HB3	1.86	0.53
12:L:46:ARG:HB3	12:L:84:LEU:CD1	2.37	0.53
13:M:2:GLU:CA	13:M:11:ALA:HB1	2.39	0.53
13:M:147:LEU:HG	13:M:186:VAL:HG13	1.90	0.53
14:N:110:ILE:HA	14:N:136:ILE:HG21	1.91	0.53
15:O:18:ILE:O	15:O:20:GLY:N	2.42	0.53
15:O:86:LEU:HD11	15:O:144:ALA:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:57:LEU:HA	16:R:125:TYR:HB2	1.90	0.53
16:R:122:LEU:C	16:R:123:LYS:HG3	2.34	0.53
19:U:34:LYS:HB3	19:U:131:VAL:CG1	2.38	0.53
19:U:43:ALA:HB3	19:U:44:ARG:HH11	1.74	0.53
19:U:44:ARG:NH2	19:U:91:TYR:HB2	2.24	0.53
20:V:41:ALA:O	20:V:45:ARG:N	2.29	0.53
21:W:107:SER:HA	21:W:110:ARG:HD3	1.90	0.53
21:W:155:PRO:HB2	21:W:158:LEU:HD11	1.90	0.53
23:Y:13:ARG:HG3	23:Y:62:ARG:HH12	1.74	0.53
24:Z:111:VAL:HB	24:Z:114:VAL:HG13	1.91	0.53
36:l:41:ARG:C	36:l:43:LEU:H	2.16	0.53
38:n:29:ARG:HG2	38:n:101:ARG:NH1	2.23	0.53
38:n:98:TYR:OH	38:n:106:ALA:HB3	2.09	0.53
40:p:75:TYR:HD1	40:p:78:PHE:CD2	2.26	0.53
41:q:77:PHE:HE2	41:q:79:ARG:HA	1.74	0.53
43:s:4:GLU:HA	43:s:7:LEU:HD21	1.89	0.53
44:t:34:ILE:HD12	44:t:62:ALA:C	2.34	0.53
45:u:53:LYS:HZ3	45:u:55:GLU:HB2	1.74	0.53
47:w:55:MET:O	47:w:58:ILE:HB	2.09	0.53
48:x:1:LYS:HZ2	48:x:51:ARG:HB2	1.73	0.53
48:x:37:GLN:NE2	48:x:38:GLN:HG3	2.23	0.53
49:y:4:ILE:HG21	49:y:58:GLU:HA	1.91	0.53
1:A:20:PHE:HA	1:A:24:ALA:CB	2.36	0.53
4:D:12:ASP:CG	4:D:18:ILE:HD12	2.34	0.53
4:D:13:LYS:HE3	9:I:273:A:C5'	2.28	0.53
7:G:25:MET:CE	9:I:4361:G:OP2	2.56	0.53
7:G:43:ALA:HA	7:G:46:GLN:HB2	1.91	0.53
7:G:69:LYS:CG	9:I:259:G:OP1	2.57	0.53
9:I:143:G:N2	9:I:144:G:H1'	2.24	0.53
9:I:180:A:OP2	9:I:180:A:H8	1.91	0.53
9:I:247:C:H1'	9:I:281:A:C2	2.44	0.53
9:I:966:5MC:P	9:I:967:A:HO2'	2.32	0.53
9:I:1072:U:H4'	21:W:102:LYS:CD	2.38	0.53
9:I:1231:U:P	28:d:123:GLN:HE21	2.31	0.53
9:I:1337:G:H2'	9:I:1338:A:C8	2.43	0.53
9:I:1391:G:O2'	9:I:1392:U:H5'	2.09	0.53
9:I:1416:G:C6	9:I:4386:G:C6	2.97	0.53
9:I:1465:G:C6	9:I:1466:C:C4	2.97	0.53
9:I:1549:A:C2	9:I:1677:G:N2	2.77	0.53
9:I:1572:U:H1'	48:x:50:ALA:CB	2.39	0.53
9:I:1612:U:H2'	9:I:1613:U:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1780:U:H2'	9:I:1781:C:C6	2.44	0.53
9:I:1829:G:H2'	44:t:15:GLY:N	2.24	0.53
9:I:1870:G:C2	9:I:1924:G:C8	2.96	0.53
9:I:2038:A:N1	9:I:2056:A:C8	2.77	0.53
9:I:2046:U:H2'	9:I:2047:A:O4'	2.09	0.53
9:I:2093:U:H2'	9:I:2094:U:C6	2.44	0.53
9:I:2146:U:C5	9:I:3845:G:H4'	2.44	0.53
9:I:2610:G:C2'	9:I:2611:C:H5'	2.38	0.53
9:I:2619:G:C8	9:I:2620:A:C2'	2.92	0.53
9:I:2667:U:C6	9:I:2667:U:OP2	2.62	0.53
9:I:2706:G:OP2	9:I:2706:G:H8	1.91	0.53
9:I:2748:A:O2'	9:I:2749:U:OP1	2.23	0.53
9:I:2917:G:C6	9:I:3070:U:O2	2.62	0.53
9:I:3208:U:O5'	9:I:3208:U:H6	1.92	0.53
9:I:3236:U:H3'	9:I:3237:G:N7	2.23	0.53
9:I:3247:G:N1	9:I:3249:A:H3'	2.22	0.53
9:I:3687:G:C2	9:I:3688:U:C6	2.96	0.53
9:I:3782:A:C6	9:I:3819:G:O4'	2.61	0.53
9:I:3786:U:H2'	9:I:3787:G:O5'	2.09	0.53
9:I:4279:C:OP1	12:L:42:ASN:ND2	2.41	0.53
9:I:4319:G:N2	9:I:4319:G:OP2	2.37	0.53
9:I:4422:MA6:H2'	9:I:4423:MA6:C8	2.39	0.53
10:J:33:A:N6	10:J:43:G:H1'	2.23	0.53
10:J:72:A:P	10:J:99:G:OP2	2.67	0.53
10:J:90:C:N3	10:J:91:C:C5	2.77	0.53
11:K:15:VAL:HG13	11:K:202:ARG:HH12	1.72	0.53
11:K:87:SER:OG	11:K:157:ALA:HB2	2.08	0.53
11:K:179:GLU:OE2	11:K:181:ARG:HD3	2.08	0.53
11:K:244:VAL:HG12	11:K:250:GLN:CB	2.38	0.53
12:L:16:THR:HG21	12:L:20:VAL:CB	2.35	0.53
12:L:34:VAL:N	12:L:96:ILE:HD11	2.24	0.53
12:L:104:VAL:CG1	12:L:105:LYS:H	2.22	0.53
13:M:19:PHE:O	13:M:113:VAL:HB	2.09	0.53
14:N:116:LEU:HD12	14:N:129:MET:HE3	1.91	0.53
14:N:147:ARG:HG2	14:N:149:ARG:N	2.24	0.53
15:O:102:ILE:HB	15:O:114:HIS:CA	2.39	0.53
16:R:42:ALA:HB3	40:p:102:LYS:HZ1	1.74	0.53
16:R:60:ASP:OD2	16:R:61:LYS:HD2	2.07	0.53
16:R:115:GLY:CA	16:R:118:MET:CE	2.85	0.53
17:S:19:VAL:HA	17:S:44:LYS:HZ3	1.72	0.53
17:S:65:THR:O	17:S:79:PHE:CD2	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:92:LEU:O	18:T:96:LYS:HB2	2.09	0.53
18:T:110:VAL:HB	18:T:127:VAL:HG13	1.90	0.53
20:V:22:ARG:O	20:V:70:THR:CB	2.56	0.53
21:W:63:LYS:CG	21:W:156:ASP:H	2.22	0.53
21:W:126:LEU:HB3	21:W:131:ALA:N	2.23	0.53
21:W:176:LEU:CB	21:W:178:ILE:HG13	2.36	0.53
21:W:214:VAL:O	21:W:217:THR:HG22	2.09	0.53
25:a:3:HIS:H	25:a:92:THR:HG23	1.73	0.53
26:b:46:LEU:O	26:b:50:ALA:N	2.32	0.53
26:b:87:PRO:HD2	26:b:151:ALA:CB	2.39	0.53
31:g:120:ARG:HG3	31:g:122:LYS:NZ	2.24	0.53
34:j:4:GLU:CB	34:j:24:LYS:HD3	2.39	0.53
34:j:23:ASN:O	34:j:27:LYS:N	2.40	0.53
41:q:29:THR:HA	41:q:66:HIS:CD2	2.44	0.53
42:r:21:ALA:HB1	42:r:74:ILE:HG21	1.91	0.53
42:r:88:ARG:HG3	42:r:89:ALA:H	1.73	0.53
45:u:9:ARG:HH22	45:u:17:SER:N	2.07	0.53
45:u:17:SER:O	45:u:21:ARG:HG3	2.09	0.53
1:A:88:MET:HE3	9:I:1059:U:P	2.49	0.53
2:B:24:THR:CB	2:B:69:LEU:HD21	2.39	0.53
4:D:42:HIS:O	4:D:70:TRP:HB2	2.09	0.53
7:G:55:ILE:HD12	7:G:58:ARG:HD2	1.91	0.53
8:H:3:ILE:HG22	30:f:95:ILE:HD11	1.90	0.53
9:I:248:U:O2	9:I:274:G:O6	2.27	0.53
9:I:426:U:H3'	9:I:427:G:H8	1.73	0.53
9:I:520:G:H21	9:I:535:C:H5'	1.74	0.53
9:I:677:U:C4'	9:I:777:G:H5'	2.39	0.53
9:I:788:U:H3'	9:I:790:G:OP2	2.09	0.53
9:I:792:U:O2	9:I:4420:2MG:O3'	2.27	0.53
9:I:967:A:O4'	9:I:1060:G:O2'	2.27	0.53
9:I:1311:G:H2'	9:I:1312:U:H5'	1.91	0.53
9:I:1328:A:H2'	9:I:1329:U:C6	2.44	0.53
9:I:1328:A:H2'	9:I:1329:U:H6	1.73	0.53
9:I:1408:C:H5'	9:I:3407:A:H8	1.74	0.53
9:I:1427:A:H3'	9:I:1428:A:H5''	1.91	0.53
9:I:1445:A:H2'	9:I:1446:A:C8	2.44	0.53
9:I:1505:A:C2	9:I:1506:A:C5	2.96	0.53
9:I:1539:G:H2'	9:I:1540:U:C6	2.43	0.53
9:I:1562:U:O2	9:I:1564:A:N7	2.42	0.53
9:I:1653:U:H2'	9:I:1654:U:H6	1.73	0.53
9:I:1656:A:H2'	9:I:1657:C:H6	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1700:U:O2	9:I:1700:U:H2'	2.08	0.53
9:I:1801:G:C8	9:I:1817:G:C2	2.97	0.53
9:I:1826:G:C2	9:I:1837:C:O2	2.62	0.53
9:I:1882:A:C2	9:I:1893:C:C2	2.96	0.53
9:I:1914:C:O2	9:I:1915:A:C8	2.62	0.53
9:I:2037:G:N1	9:I:2055:G:C2	2.77	0.53
9:I:2049:G:P	9:I:2050:C:O4'	2.67	0.53
9:I:2193:A:H2'	9:I:2194:U:O4'	2.08	0.53
9:I:2210:U:O2	9:I:2210:U:H2'	2.07	0.53
9:I:2309:G:C4	9:I:2310:U:C5	2.96	0.53
9:I:2486:C:O2'	9:I:2487:G:H5'	2.08	0.53
9:I:2625:G:C5	16:R:77:HIS:CE1	2.97	0.53
9:I:2634:C:C4'	16:R:27:ARG:HH21	2.18	0.53
9:I:2849:G:C2	9:I:2850:G:C8	2.97	0.53
9:I:2877:A:H2	9:I:2900:U:HO2'	1.55	0.53
9:I:2919:G:C2'	9:I:2920:G:O4'	2.57	0.53
9:I:3133:C:O4'	9:I:4193:C:H4'	2.08	0.53
9:I:3347:A:H62	9:I:3382:G:C2'	2.22	0.53
9:I:3451:C:C2	9:I:3452:C:C5	2.97	0.53
9:I:3692:A:C5	9:I:3719:A:N6	2.76	0.53
9:I:3698:G:C6	9:I:3714:U:O2	2.59	0.53
9:I:3794:C:O2	9:I:3794:C:H2'	2.08	0.53
9:I:3802:G:C2'	9:I:3804:C:H5	2.22	0.53
9:I:3865:G:C3'	9:I:3866:U:H5'	2.37	0.53
9:I:3912:A:O4'	34:j:16:HIS:CD2	2.61	0.53
9:I:4032:C:O2'	37:m:1:MET:HG3	2.09	0.53
9:I:4181:U:C3'	9:I:4182:G:C8	2.91	0.53
9:I:4333:G:H21	20:V:91:ALA:HB1	1.74	0.53
9:I:4341:U:OP2	39:o:95:LYS:NZ	2.42	0.53
9:I:4421:G:O2'	9:I:4422:MA6:H5'	2.09	0.53
9:I:4434:G:H2'	9:I:4435:A:C8	2.44	0.53
10:J:17:G:C6	10:J:63:G:O6	2.62	0.53
10:J:27:C:H2'	10:J:28:A:O4'	2.09	0.53
10:J:51:A:O2'	10:J:52:A:P	2.66	0.53
10:J:76:U:O2	10:J:77:A:H1'	2.09	0.53
10:J:105:G:H3'	10:J:106:G:C8	2.43	0.53
11:K:117:SER:HA	11:K:121:ALA:HB2	1.88	0.53
12:L:3:GLY:C	12:L:4:LEU:HD12	2.34	0.53
14:N:11:VAL:O	14:N:15:LEU:HG	2.08	0.53
14:N:21:TYR:HD2	14:N:26:GLN:CD	2.17	0.53
14:N:105:ILE:CD1	14:N:138:PRO:HG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:119:LYS:O	14:N:119:LYS:HD3	2.08	0.53
14:N:133:GLU:HG3	14:N:135:ILE:N	2.22	0.53
17:S:88:ASN:HB3	17:S:92:GLU:N	2.24	0.53
18:T:79:LEU:HD23	18:T:82:LEU:CD2	2.39	0.53
19:U:74:THR:HB	19:U:87:GLY:HA3	1.91	0.53
20:V:42:LYS:HE3	20:V:45:ARG:NH1	2.23	0.53
23:Y:98:ASP:N	23:Y:132:ALA:O	2.37	0.53
23:Y:144:ILE:CG2	23:Y:148:ALA:HB3	2.39	0.53
24:Z:71:THR:HB	24:Z:113:ASN:ND2	2.23	0.53
26:b:29:LEU:HD11	26:b:41:ILE:HG22	1.90	0.53
29:e:79:THR:O	29:e:79:THR:HG22	2.08	0.53
36:l:15:LYS:HA	36:l:21:PHE:HD2	1.74	0.53
38:n:24:ARG:HH11	38:n:92:ASP:HB2	1.74	0.53
42:r:56:ALA:CA	42:r:59:GLU:HB2	2.32	0.53
45:u:44:HIS:NE2	45:u:48:MET:HG2	2.24	0.53
48:x:13:LEU:HD13	48:x:56:LEU:HD11	1.90	0.53
1:A:3:GLN:H	9:I:1214:G:C3'	2.22	0.53
8:H:38:GLU:HB2	30:f:112:PRO:C	2.34	0.53
9:I:145:G:C2'	9:I:146:G:H5'	2.39	0.53
9:I:283:C:H2'	9:I:284:C:C6	2.44	0.53
9:I:323:G:N2	9:I:325:G:H2'	2.23	0.53
9:I:569:G:C1'	9:I:819:U:C4	2.89	0.53
9:I:843:G:H2'	9:I:844:A:C8	2.44	0.53
9:I:916:G:H2'	9:I:917:A:C8	2.43	0.53
9:I:1114:U:O2	9:I:1184:G:N2	2.40	0.53
9:I:1115:U:O2'	28:d:107:GLN:HG3	2.09	0.53
9:I:1197:G:H21	29:e:51:PRO:HG3	1.73	0.53
9:I:1289:G:H4'	26:b:36:SER:CB	2.39	0.53
9:I:1305:A:C2'	9:I:1306:U:H5'	2.39	0.53
9:I:1423:U:H2'	9:I:1424:U:O4'	2.09	0.53
9:I:1548:G:N1	9:I:1677:G:OP1	2.31	0.53
9:I:1595:A:H2'	9:I:1596:C:C4'	2.39	0.53
9:I:1730:G:C6	9:I:1731:A:C5	2.97	0.53
9:I:1754:G:C2'	9:I:1755:A:O5'	2.57	0.53
9:I:1829:G:N1	44:t:16:LYS:CG	2.72	0.53
9:I:1850:G:C2'	9:I:1851:C:O4'	2.55	0.53
9:I:1992:A:H2'	9:I:1993:G:O4'	2.09	0.53
9:I:2131:A:C4	9:I:2132:A:C8	2.97	0.53
9:I:2141:U:N3	9:I:2145:C:P	2.82	0.53
9:I:2147:G:O2'	9:I:2148:G:P	2.67	0.53
9:I:2861:A:C2'	9:I:2862:G:H5'	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3003:A:C1'	9:I:3004:G:H5'	2.39	0.53
9:I:3069:C:C4	9:I:3070:U:C4	2.97	0.53
9:I:3158:A:N6	9:I:3490:C:N4	2.53	0.53
9:I:3202:C:C2	9:I:3245:U:O2	2.62	0.53
9:I:3253:A:OP2	9:I:3253:A:H3'	2.08	0.53
9:I:3293:G:HO2'	11:K:181:ARG:HD3	1.69	0.53
9:I:3459:C:H5''	9:I:3460:A:C2'	2.38	0.53
9:I:3576:A:C2'	9:I:3577:G:H5'	2.38	0.53
9:I:3789:C:N3	9:I:3832:C:N4	2.56	0.53
9:I:3850:U:H4'	46:v:10:ARG:NE	2.24	0.53
9:I:3964:G:H2'	9:I:3965:A:O4'	2.09	0.53
9:I:4162:G:C4	15:O:109:SER:CB	2.92	0.53
9:I:4265:C:H2'	9:I:4266:C:C6	2.43	0.53
10:J:45:A:C2	10:J:46:C:C2	2.97	0.53
10:J:71:G:N1	10:J:102:U:OP2	2.42	0.53
10:J:100:A:H3'	10:J:101:G:H8	1.73	0.53
11:K:144:GLU:OE2	11:K:188:ARG:CZ	2.57	0.53
11:K:153:LEU:HD12	11:K:175:LEU:HD22	1.87	0.53
11:K:257:ARG:NH2	11:K:266:ILE:HD12	2.24	0.53
12:L:186:LEU:CD1	39:o:7:LEU:HD21	2.35	0.53
14:N:49:LEU:HD11	14:N:66:ILE:HD12	1.90	0.53
15:O:34:ARG:NE	15:O:70:LEU:CD2	2.71	0.53
15:O:86:LEU:CD2	15:O:147:LEU:HB3	2.39	0.53
15:O:151:ARG:CG	15:O:161:VAL:H	2.21	0.53
17:S:58:LEU:HD21	17:S:86:LEU:CD2	2.39	0.53
20:V:18:GLN:O	20:V:22:ARG:NH1	2.41	0.53
20:V:34:ILE:O	20:V:112:TYR:HD1	1.92	0.53
20:V:73:ASN:HA	20:V:76:VAL:CG2	2.38	0.53
21:W:63:LYS:HG2	21:W:156:ASP:HB2	1.91	0.53
21:W:155:PRO:HB2	21:W:158:LEU:CD1	2.39	0.53
22:X:54:ILE:HD11	22:X:65:VAL:CG1	2.39	0.53
22:X:149:LYS:HD2	22:X:166:TRP:CG	2.44	0.53
24:Z:52:GLN:HG3	24:Z:55:MET:CE	2.34	0.53
24:Z:74:HIS:CB	27:c:96:ALA:HB2	2.33	0.53
26:b:70:PRO:HG2	26:b:95:ARG:HG3	1.91	0.53
27:c:1:SER:O	27:c:2:MET:HE2	2.09	0.53
28:d:17:PHE:HB2	28:d:61:TYR:O	2.08	0.53
28:d:32:LEU:HD11	28:d:42:ARG:HA	1.91	0.53
30:f:55:ALA:HB2	30:f:84:THR:HG23	1.90	0.53
30:f:73:MET:HE1	30:f:75:LYS:HE2	1.90	0.53
34:j:19:THR:HG23	36:l:33:THR:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:42:ASN:HD21	38:n:45:GLU:HG2	1.74	0.53
38:n:91:PHE:CE2	38:n:98:TYR:CD1	2.96	0.53
39:o:12:MET:HG3	39:o:76:HIS:CG	2.44	0.53
41:q:94:THR:HG22	41:q:96:VAL:HG13	1.91	0.53
42:r:6:LYS:HD2	42:r:8:ARG:HE	1.74	0.53
43:s:4:GLU:CG	43:s:7:LEU:HD11	2.38	0.53
44:t:44:HIS:HD2	44:t:57:ILE:HG21	1.74	0.53
45:u:2:PHE:HD1	45:u:50:MET:SD	2.31	0.53
45:u:14:LYS:CG	45:u:15:GLY:N	2.72	0.53
46:v:15:ARG:NH2	46:v:25:SER:HB3	2.24	0.53
1:A:9:GLU:OE1	1:A:9:GLU:HA	2.08	0.52
1:A:97:LYS:HD3	22:X:4:VAL:CG2	2.29	0.52
3:C:63:GLN:HG3	9:I:227:A:C8	2.44	0.52
4:D:68:LYS:HB2	9:I:253:G:C8	2.42	0.52
9:I:53:C:C2'	9:I:351:C:H41	2.17	0.52
9:I:291:G:H2'	9:I:292:G:O5'	2.08	0.52
9:I:356:G:O4'	9:I:367:U:H1'	2.08	0.52
9:I:518:C:C2'	9:I:519:A:H5'	2.39	0.52
9:I:606:A:H2'	9:I:607:A:C4'	2.38	0.52
9:I:673:G:C2'	9:I:674:A:O5'	2.56	0.52
9:I:1711:C:C2	9:I:1712:G:C8	2.97	0.52
9:I:1721:A:C4	9:I:1733:A:H1'	2.44	0.52
9:I:1777:G:N3	9:I:1861:G:O6	2.42	0.52
9:I:1919:U:OP2	9:I:1919:U:C6	2.62	0.52
9:I:1993:G:H2'	9:I:1994:G:O4'	2.10	0.52
9:I:2136:G:H2'	9:I:2137:A:OP2	2.09	0.52
9:I:2162:G:H2'	9:I:2163:G:H8	1.74	0.52
9:I:2300:A:H2	9:I:2302:A:H8	1.56	0.52
9:I:2362:G:H2'	10:J:98:A:C2	2.44	0.52
9:I:2498:U:C2	9:I:2505:G:C8	2.97	0.52
9:I:2644:C:O2'	9:I:2645:A:O5'	2.25	0.52
9:I:2912:G:C1'	9:I:3074:A:H61	2.22	0.52
9:I:2953:G:H2'	9:I:2955:C:C5	2.43	0.52
9:I:3146:A:N1	9:I:3147:G:N2	2.56	0.52
9:I:3158:A:P	9:I:3159:A:OP2	2.67	0.52
9:I:3249:A:C2	9:I:4210:C:H1'	2.44	0.52
9:I:3290:U:H2'	9:I:3291:G:C8	2.43	0.52
9:I:3312:U:C2	11:K:152:GLN:CD	2.87	0.52
9:I:3745:OMG:HM23	9:I:3746:G:O4'	2.09	0.52
9:I:3774:G:H4'	9:I:3821:A:O5'	2.08	0.52
9:I:3793:U:N3	9:I:3812:G:N1	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3909:G:C4	9:I:3910:C:C5	2.96	0.52
9:I:4009:C:H2'	9:I:4010:A:H8	1.74	0.52
9:I:4018:G:C2'	9:I:4019:G:C5'	2.84	0.52
9:I:4027:U:C4	9:I:4028:A:C5	2.97	0.52
9:I:4149:G:N3	9:I:4158:G:C6	2.76	0.52
9:I:4177:C:H42	9:I:4221:A:H1'	1.74	0.52
9:I:4182:G:N1	9:I:4213:G:H2'	2.24	0.52
9:I:4208:G:C4	9:I:4209:C:C5	2.97	0.52
9:I:4214:U:H2'	9:I:4215:A:C8	2.43	0.52
9:I:4281:C:O2	9:I:4281:C:H2'	2.09	0.52
9:I:4314:A:C2'	9:I:4315:A:OP1	2.57	0.52
10:J:29:C:C6	10:J:30:C:C5	2.97	0.52
10:J:95:G:H3'	10:J:96:C:C6	2.43	0.52
10:J:100:A:H2'	10:J:101:G:C1'	2.39	0.52
11:K:63:ILE:O	11:K:102:TYR:HB2	2.10	0.52
11:K:67:LYS:C	11:K:68:ARG:HG2	2.34	0.52
12:L:50:VAL:HG23	12:L:50:VAL:O	2.08	0.52
12:L:113:SER:C	12:L:167:ASN:HA	2.34	0.52
13:M:5:LEU:HB3	13:M:8:ALA:H	1.74	0.52
13:M:57:LYS:HZ3	13:M:59:PRO:HA	1.73	0.52
13:M:129:PRO:N	13:M:156:ASN:HA	2.23	0.52
13:M:177:PRO:HA	13:M:180:LEU:CD1	2.35	0.52
13:M:196:VAL:HG22	13:M:199:MET:CB	2.39	0.52
14:N:43:ILE:HB	14:N:79:ARG:NH1	2.24	0.52
16:R:5:THR:O	16:R:5:THR:HG23	2.08	0.52
17:S:61:VAL:CB	17:S:87:LEU:HD11	2.31	0.52
18:T:4:ASN:CG	18:T:5:THR:HG23	2.35	0.52
20:V:25:ALA:HB2	20:V:69:ARG:HH21	1.72	0.52
20:V:29:VAL:HG12	20:V:78:LYS:CE	2.40	0.52
21:W:43:THR:HA	21:W:198:PRO:CG	2.39	0.52
23:Y:11:SER:OG	23:Y:18:LEU:HG	2.09	0.52
24:Z:51:ILE:HG13	24:Z:52:GLN:N	2.24	0.52
24:Z:96:ILE:HG22	24:Z:96:ILE:O	2.09	0.52
32:h:14:ALA:HB1	32:h:38:ILE:HG21	1.90	0.52
36:l:23:HIS:O	36:l:46:LYS:HD3	2.09	0.52
39:o:113:LEU:O	39:o:113:LEU:HG	2.08	0.52
41:q:7:SER:HB2	41:q:37:GLU:OE2	2.10	0.52
46:v:33:THR:HG22	46:v:47:HIS:ND1	2.24	0.52
46:v:45:ARG:O	46:v:47:HIS:HD2	1.92	0.52
47:w:3:VAL:H	47:w:32:LEU:HD21	1.73	0.52
48:x:38:GLN:HB2	48:x:40:HIS:ND1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:25:GLU:HG3	2:B:80:LEU:HD22	1.89	0.52
4:D:33:LYS:HB3	4:D:35:ILE:CD1	2.30	0.52
5:E:11:LYS:HA	5:E:14:ILE:HG12	1.91	0.52
7:G:2:ILE:CG1	9:I:348:A:H5'	2.39	0.52
9:I:36:U:P	31:g:120:ARG:HH11	2.33	0.52
9:I:174:C:H2'	9:I:175:C:H6	1.74	0.52
9:I:246:G:H2'	9:I:247:C:H6	1.74	0.52
9:I:438:U:H1'	23:Y:118:SER:OG	2.08	0.52
9:I:517:C:OP2	9:I:529:G:H1'	2.09	0.52
9:I:641:A:H1'	27:c:108:GLY:H	1.74	0.52
9:I:651:U:N3	9:I:752:A:C5	2.77	0.52
9:I:692:G:H2'	9:I:693:A:O4'	2.08	0.52
9:I:788:U:H2'	9:I:790:G:C8	2.43	0.52
9:I:851:G:O2'	9:I:852:C:H5'	2.10	0.52
9:I:855:C:H2'	9:I:855:C:O2	2.09	0.52
9:I:1179:A:H5'	28:d:102:THR:CG2	2.36	0.52
9:I:1253:A:H2	9:I:1258:C:O2'	1.92	0.52
9:I:1327:C:H5''	32:h:27:THR:CB	2.39	0.52
9:I:1481:G:O6	33:i:39:ARG:NH2	2.42	0.52
9:I:1705:G:O2'	9:I:1706:U:OP2	2.27	0.52
9:I:1729:C:C6	9:I:1729:C:C3'	2.91	0.52
9:I:1763:G:H2'	9:I:1764:C:N1	2.24	0.52
9:I:1806:U:C2	9:I:1810:A:N7	2.77	0.52
9:I:1846:A:P	9:I:1847:A:H62	2.33	0.52
9:I:1928:A:H2'	9:I:1929:A:O5'	2.09	0.52
9:I:2037:G:P	16:R:2:LYS:NZ	2.82	0.52
9:I:2045:U:N3	9:I:2046:U:O2'	2.40	0.52
9:I:2116:A:O3'	13:M:199:MET:HE1	2.10	0.52
9:I:2245:1MG:O2'	9:I:2246:PSU:H5''	2.09	0.52
9:I:2268:G:O2'	9:I:2269:U:H5'	2.09	0.52
9:I:2360:U:C6	9:I:3762:A:H1'	2.44	0.52
9:I:2368:U:H3'	9:I:2369:G:C8	2.44	0.52
9:I:2377:A:OP2	9:I:2377:A:H8	1.91	0.52
9:I:2489:C:N4	16:R:2:LYS:HA	2.22	0.52
9:I:2765:G:H5''	9:I:2766:A:OP1	2.09	0.52
9:I:2926:G:C2	9:I:2927:A:C5	2.97	0.52
9:I:2962:U:C4	9:I:3018:G:O6	2.62	0.52
9:I:3049:G:H3'	9:I:3050:C:C6	2.40	0.52
9:I:3181:G:N2	9:I:3196:G:O6	2.42	0.52
9:I:3443:G:H2'	9:I:3444:G:O4'	2.09	0.52
9:I:3745:OMG:HM22	9:I:3746:G:H5'	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3780:G:H1'	9:I:3838:U:O4	2.09	0.52
9:I:3887:U:O5'	36:l:29:ARG:NE	2.38	0.52
9:I:3906:A:H2'	9:I:3907:G:H8	1.74	0.52
9:I:3965:A:C5	9:I:3966:G:C4	2.97	0.52
9:I:4025:A:C2	9:I:4153:G:O4'	2.62	0.52
9:I:4133:A:C2	9:I:4134:G:H1'	2.44	0.52
9:I:4238:G:H4'	15:O:148:ARG:NH2	2.24	0.52
10:J:65:A:N6	10:J:106:G:C2'	2.70	0.52
11:K:117:SER:HA	11:K:121:ALA:HB1	1.92	0.52
13:M:1:MET:HE1	13:M:15:SER:C	2.33	0.52
14:N:12:VAL:CG2	14:N:29:ARG:HH22	2.21	0.52
14:N:109:ARG:O	14:N:136:ILE:HG22	2.10	0.52
15:O:5:LYS:CD	15:O:61:TRP:CZ3	2.92	0.52
15:O:71:LEU:HD23	15:O:75:VAL:HG23	1.92	0.52
15:O:151:ARG:CD	15:O:160:GLY:HA2	2.39	0.52
15:O:154:GLU:CD	15:O:156:TYR:H	2.12	0.52
17:S:64:ARG:HH21	17:S:83:ALA:CB	2.21	0.52
19:U:76:LYS:HE2	19:U:82:MET:HA	1.90	0.52
20:V:18:GLN:HA	20:V:22:ARG:NH1	2.24	0.52
21:W:16:GLN:HB2	21:W:19:TYR:CD2	2.45	0.52
22:X:83:VAL:HG13	22:X:100:ILE:HG21	1.90	0.52
22:X:126:ARG:HH12	22:X:190:THR:CG2	2.22	0.52
27:c:50:VAL:CG2	27:c:56:PRO:HB3	2.39	0.52
28:d:19:LYS:HD3	28:d:20:PRO:CD	2.38	0.52
30:f:16:ASN:O	30:f:46:SER:HB3	2.09	0.52
31:g:22:ALA:HB3	31:g:94:TYR:OH	2.09	0.52
34:j:6:ILE:HG22	34:j:49:ALA:O	2.08	0.52
34:j:18:TYR:HE1	34:j:20:THR:HB	1.70	0.52
34:j:37:ASP:HB2	34:j:46:TYR:HE1	1.73	0.52
39:o:45:VAL:HG21	39:o:99:LEU:HD13	1.90	0.52
39:o:46:VAL:CG2	39:o:59:THR:O	2.56	0.52
43:s:13:ALA:H	43:s:33:LYS:HB3	1.73	0.52
44:t:24:VAL:HG21	44:t:33:VAL:CG2	2.39	0.52
45:u:28:ALA:HB3	45:u:40:ILE:O	2.09	0.52
2:B:76:ARG:O	2:B:79:GLN:HB2	2.09	0.52
4:D:21:ALA:O	4:D:22:ILE:HD13	2.09	0.52
8:H:1:PRO:HD2	30:f:101:VAL:CG1	2.39	0.52
8:H:21:SER:OG	30:f:100:ASP:N	2.43	0.52
9:I:27:A:H3'	9:I:28:U:H6	1.74	0.52
9:I:35:C:H4'	31:g:118:VAL:O	2.09	0.52
9:I:73:A:H2'	9:I:74:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:342:U:H2'	9:I:344:C:C4	2.45	0.52
9:I:344:C:H5'	9:I:345:G:N7	2.25	0.52
9:I:714:A:H5'	9:I:804:C:C1'	2.39	0.52
9:I:762:G:H2'	9:I:763:C:O4'	2.09	0.52
9:I:1122:U:H2'	9:I:1123:G:C8	2.44	0.52
9:I:1196:A:OP1	9:I:1196:A:H3'	2.09	0.52
9:I:1506:A:O2'	16:R:135:GLN:CG	2.58	0.52
9:I:1521:A:O2'	9:I:1522:C:H5'	2.09	0.52
9:I:1600:U:C1'	9:I:1601:A:O5'	2.56	0.52
9:I:1626:A:O2'	9:I:1627:A:O4'	2.25	0.52
9:I:1637:U:H3'	9:I:1640:C:C4	2.44	0.52
9:I:1780:U:C4	9:I:1781:C:N4	2.78	0.52
9:I:1801:G:O4'	9:I:1817:G:N2	2.42	0.52
9:I:1821:U:H5'	13:M:130:LYS:HD3	1.92	0.52
9:I:1836:C:P	44:t:3:LYS:HZ3	2.30	0.52
9:I:1875:G:O6	9:I:1899:U:C2	2.61	0.52
9:I:1964:U:C4	9:I:1965:G:N2	2.78	0.52
9:I:2045:U:O2	9:I:2045:U:C3'	2.53	0.52
9:I:2136:G:C4	18:T:128:THR:HG21	2.44	0.52
9:I:2370:U:H2'	9:I:2371:U:C5	2.44	0.52
9:I:2404:A:C2	9:I:2405:A:C5	2.97	0.52
9:I:2415:C:C2	9:I:2416:C:C5	2.98	0.52
9:I:2536:G:O6	9:I:2607:U:O4	2.26	0.52
9:I:2542:A:C2'	9:I:2542:A:N3	2.72	0.52
9:I:2598:C:O5'	9:I:2598:C:H6	1.93	0.52
9:I:2684:G:OP1	18:T:32:GLY:HA2	2.08	0.52
9:I:2833:G:H5''	43:s:19:LYS:CD	2.40	0.52
9:I:2970:U:O2'	9:I:2971:A:H5'	2.09	0.52
9:I:2985:G:H2'	9:I:2985:G:N3	2.24	0.52
9:I:3027:C:H6	9:I:3027:C:OP2	1.92	0.52
9:I:3125:G:H5''	9:I:3126:A:OP2	2.09	0.52
9:I:3210:U:H3	9:I:3238:A:H62	0.61	0.52
9:I:3210:U:C2'	9:I:3211:A:H5'	2.39	0.52
9:I:3217:G:O6	9:I:3231:G:C1'	2.53	0.52
9:I:3324:C:C2'	9:I:3325:G:H5'	2.39	0.52
9:I:3684:G:H2'	9:I:3685:A:H8	1.74	0.52
9:I:3693:A:H2'	9:I:3694:C:C6	2.44	0.52
9:I:3693:A:H2'	9:I:3694:C:C5'	2.39	0.52
9:I:3723:U:O2	9:I:3724:G:C8	2.63	0.52
9:I:3772:A:C5'	19:U:10:ARG:HH12	2.21	0.52
9:I:3790:U:O4	9:I:3829:A:OP2	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3791:A:C8	9:I:3791:A:H5'	2.44	0.52
9:I:3841:C:H1'	34:j:36:PHE:HB3	1.91	0.52
9:I:3894:G:C6	9:I:3895:U:C4	2.98	0.52
9:I:3913:U:O3'	34:j:19:THR:CB	2.57	0.52
9:I:3945:A:C8	9:I:3946:C:H5	2.26	0.52
9:I:3978:G:C2	9:I:3979:G:C8	2.98	0.52
9:I:4151:A:O5'	9:I:4152:C:H5	1.92	0.52
9:I:4215:A:H2'	9:I:4216:G:H8	1.75	0.52
9:I:4338:G:H2'	9:I:4338:G:N3	2.23	0.52
10:J:13:U:C4	10:J:70:C:H1'	2.45	0.52
10:J:47:U:O3'	38:n:29:ARG:NH1	2.41	0.52
11:K:182:LYS:HD2	11:K:265:PHE:HA	1.90	0.52
12:L:49:GLN:HG2	12:L:79:LEU:HB3	1.90	0.52
12:L:124:ARG:HD2	12:L:165:MET:HB2	1.90	0.52
13:M:155:GLU:OE2	13:M:156:ASN:ND2	2.41	0.52
14:N:8:LYS:HA	14:N:8:LYS:HE2	1.91	0.52
14:N:30:VAL:HG13	14:N:168:LEU:CD1	2.39	0.52
15:O:51:PHE:CE2	15:O:71:LEU:HB3	2.44	0.52
15:O:122:ALA:HA	15:O:133:LYS:HD2	1.89	0.52
18:T:91:ASP:C	18:T:93:ASN:H	2.17	0.52
18:T:112:LEU:HB2	18:T:131:ALA:CA	2.39	0.52
18:T:132:ARG:NH2	18:T:142:ILE:HG21	2.24	0.52
19:U:7:THR:HG21	19:U:10:ARG:HA	1.91	0.52
19:U:43:ALA:O	19:U:47:GLU:OE1	2.27	0.52
19:U:61:GLY:C	19:U:62:LYS:HD2	2.35	0.52
20:V:69:ARG:C	20:V:71:ARG:H	2.17	0.52
21:W:7:LEU:HD12	21:W:12:HIS:ND1	2.25	0.52
21:W:100:ASN:ND2	21:W:103:THR:HB	2.24	0.52
22:X:149:LYS:HZ3	22:X:168:ARG:HH21	1.58	0.52
26:b:20:GLU:O	26:b:23:ALA:HB3	2.09	0.52
29:e:7:LYS:CG	29:e:67:LEU:HD13	2.39	0.52
32:h:32:ILE:HA	32:h:58:GLU:CD	2.34	0.52
32:h:79:LEU:HD13	32:h:86:ARG:HD2	1.90	0.52
40:p:95:ALA:C	40:p:97:ILE:H	2.17	0.52
41:q:40:MET:CA	41:q:54:VAL:HG21	2.39	0.52
43:s:10:VAL:HG22	43:s:35:ALA:H	1.75	0.52
44:t:53:GLN:N	44:t:54:PRO:CD	2.73	0.52
45:u:78:GLN:HB2	45:u:88:HIS:H	1.73	0.52
49:y:7:THR:CG2	49:y:32:GLY:HA2	2.39	0.52
2:B:52:ARG:C	2:B:55:LEU:H	2.17	0.52
3:C:13:LYS:HA	9:I:390:G:C5'	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:54:A:N6	9:I:356:G:C2'	2.72	0.52
9:I:267:U:H2'	9:I:268:C:C6	2.44	0.52
9:I:332:U:N3	9:I:333:C:C5	2.78	0.52
9:I:409:G:OP2	23:Y:30:LYS:NZ	2.39	0.52
9:I:640:U:H5''	27:c:107:LYS:NZ	2.24	0.52
9:I:641:A:C3'	9:I:642:C:H6	2.23	0.52
9:I:670:G:H2'	9:I:671:U:H5'	1.91	0.52
9:I:841:U:C2'	9:I:843:G:H21	2.23	0.52
9:I:879:C:C2	9:I:880:G:C8	2.98	0.52
9:I:921:G:H2'	9:I:922:A:C8	2.44	0.52
9:I:995:A:H2'	9:I:996:U:C6	2.44	0.52
9:I:1071:G:N2	21:W:103:THR:HG21	2.25	0.52
9:I:1406:5MC:O2	9:I:1406:5MC:H2'	2.09	0.52
9:I:1418:G:H2'	9:I:1419:U:C6	2.45	0.52
9:I:1648:U:H2'	9:I:1649:A:H5''	1.91	0.52
9:I:1698:C:O2'	9:I:1699:A:H5''	2.10	0.52
9:I:1766:G:C3'	9:I:1767:C:C5'	2.86	0.52
9:I:1799:A:C3'	9:I:1800:A:C8	2.92	0.52
9:I:1848:A:H2'	9:I:1849:U:O4'	2.09	0.52
9:I:1865:U:H2'	9:I:1865:U:O2	2.09	0.52
9:I:1874:A:H8	9:I:1874:A:OP2	1.93	0.52
9:I:1960:A:H2'	9:I:1961:C:H5'	1.91	0.52
9:I:1971:A:N3	9:I:1971:A:H2'	2.24	0.52
9:I:1995:G:H1'	42:r:57:ASN:OD1	2.10	0.52
9:I:2159:G:C4	9:I:2160:C:C5	2.97	0.52
9:I:2363:A:C6	9:I:2364:G:N7	2.77	0.52
9:I:2503:A:H2'	9:I:2504:A:O4'	2.09	0.52
9:I:2645:A:C5	9:I:2646:C:C4	2.97	0.52
9:I:2980:U:C2	9:I:2998:A:C4	2.97	0.52
9:I:3051:C:C5'	9:I:3052:C:H2'	2.38	0.52
9:I:3159:A:C4'	17:S:67:LYS:HZ1	2.22	0.52
9:I:3160:G:H5'	17:S:82:ASN:HD21	1.73	0.52
9:I:3380:U:H2'	9:I:3381:C:O4'	2.09	0.52
9:I:3695:G:H2'	9:I:3696:U:H6	1.73	0.52
9:I:3799:U:H1'	14:N:132:ARG:HD2	1.91	0.52
9:I:3841:C:C2'	34:j:36:PHE:HB3	2.39	0.52
9:I:3873:G:H2'	9:I:3874:C:O4'	2.10	0.52
9:I:3881:U:C6	9:I:3881:U:OP2	2.62	0.52
9:I:3885:G:O2'	9:I:3918:C:N4	2.35	0.52
9:I:3914:C:O2'	9:I:3915:G:H5'	2.10	0.52
9:I:4070:G:P	9:I:4070:G:H21	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4130:C:C1'	12:L:38:LYS:NZ	2.72	0.52
9:I:4180:G:H2'	9:I:4181:U:C1'	2.40	0.52
9:I:4251:A:N1	15:O:66:THR:HG21	2.24	0.52
9:I:4290:U:H2'	9:I:4292:U:OP2	2.09	0.52
9:I:4375:U:O2'	9:I:4376:U:H5'	2.10	0.52
9:I:4383:C:H2'	9:I:4384:A:C8	2.44	0.52
10:J:15:G:O6	10:J:107:A:C2	2.62	0.52
10:J:58:A:H2'	10:J:59:C:H6	1.69	0.52
11:K:123:ILE:HG23	11:K:191:LEU:HB3	1.91	0.52
11:K:174:ARG:CG	11:K:178:GLY:HA2	2.39	0.52
12:L:35:THR:HG21	12:L:79:LEU:HD21	1.92	0.52
12:L:171:THR:CG2	12:L:173:GLN:HG3	2.39	0.52
14:N:65:LEU:HG	14:N:66:ILE:N	2.24	0.52
16:R:129:GLU:HG2	16:R:130:HIS:N	2.14	0.52
17:S:69:VAL:HB	17:S:71:ARG:NH2	2.24	0.52
18:T:77:ILE:CG2	18:T:125:LEU:HD23	2.39	0.52
18:T:96:LYS:HD3	18:T:103:ILE:CA	2.23	0.52
18:T:96:LYS:HG3	18:T:102:GLY:O	2.10	0.52
20:V:7:GLY:C	20:V:46:ARG:HH22	2.18	0.52
21:W:47:PHE:O	21:W:51:LEU:N	2.37	0.52
22:X:140:ALA:HA	22:X:143:LEU:HD23	1.91	0.52
23:Y:96:ARG:HB3	23:Y:98:ASP:OD1	2.08	0.52
24:Z:139:ASN:HD22	24:Z:144:VAL:CG2	2.18	0.52
25:a:39:LEU:CD1	25:a:62:MET:HB2	2.40	0.52
25:a:70:VAL:HG12	25:a:73:GLU:OE1	2.08	0.52
27:c:88:LYS:HG3	27:c:89:ASP:N	2.24	0.52
29:e:33:ARG:O	29:e:33:ARG:HG3	2.10	0.52
32:h:18:LEU:HD13	32:h:29:SER:HA	1.91	0.52
32:h:39:ALA:O	32:h:42:VAL:HG22	2.09	0.52
34:j:23:ASN:ND2	34:j:26:THR:HG22	2.25	0.52
38:n:13:ALA:HB1	38:n:94:SER:OG	2.10	0.52
38:n:24:ARG:HA	38:n:90:SER:HB2	1.91	0.52
38:n:97:GLN:OE1	38:n:99:HIS:HB2	2.09	0.52
39:o:19:PHE:HA	39:o:23:ASP:OD2	2.09	0.52
40:p:44:TYR:O	40:p:45:ALA:C	2.53	0.52
41:q:41:ILE:O	41:q:47:VAL:HG22	2.09	0.52
42:r:24:ILE:HA	42:r:27:LYS:HG2	1.92	0.52
43:s:11:LEU:CD2	48:x:25:PHE:CE1	2.91	0.52
44:t:5:ARG:HH12	44:t:93:ARG:HG3	1.72	0.52
45:u:9:ARG:HH21	45:u:11:GLU:CB	2.23	0.52
45:u:12:GLN:H	45:u:16:ALA:CB	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:u:17:SER:HA	45:u:20:LEU:HB2	1.91	0.52
46:v:9:LYS:HD2	46:v:11:LEU:HD21	1.90	0.52
7:G:72:ARG:HE	9:I:258:G:C5'	2.20	0.52
9:I:6:A:H5'	9:I:297:A:OP1	2.10	0.52
9:I:65:A:H4'	9:I:198:A:H4'	1.91	0.52
9:I:334:C:C5'	9:I:1433:A:H4'	2.40	0.52
9:I:455:A:N3	9:I:455:A:H2'	2.23	0.52
9:I:466:U:C3'	9:I:467:A:H5''	2.29	0.52
9:I:652:U:HO2'	9:I:653:G:P	2.32	0.52
9:I:899:A:H2'	9:I:900:A:C4	2.44	0.52
9:I:1031:G:N2	9:I:1032:G:O4'	2.43	0.52
9:I:1103:G:H5'	21:W:110:ARG:HH12	1.74	0.52
9:I:1165:G:H1'	9:I:1169:A:N6	2.24	0.52
9:I:1323:A:O2'	9:I:1324:C:H5'	2.10	0.52
9:I:1475:A:N6	9:I:4328:G:C8	2.78	0.52
9:I:1512:U:H2'	9:I:1513:A:C8	2.45	0.52
9:I:1572:U:O4'	48:x:50:ALA:HA	2.10	0.52
9:I:1580:G:H3'	9:I:1581:G:H8	1.74	0.52
9:I:1603:A:C8	9:I:1603:A:OP1	2.62	0.52
9:I:1638:U:OP2	9:I:1640:C:C2	2.63	0.52
9:I:1718:A:C3'	9:I:1719:A:H8	2.21	0.52
9:I:1725:C:O2'	9:I:1726:A:H5'	2.09	0.52
9:I:1801:G:C5'	9:I:1817:G:N2	2.71	0.52
9:I:2205:A:C2'	9:I:2206:A:O4'	2.55	0.52
9:I:2525:G:C2'	9:I:2526:A:O4'	2.57	0.52
9:I:2530:G:C2	9:I:2614:G:N7	2.77	0.52
9:I:2637:A:O2'	16:R:27:ARG:NH2	2.42	0.52
9:I:2926:G:C2'	9:I:2927:A:O4'	2.58	0.52
9:I:2982:C:H3'	9:I:2982:C:C6	2.45	0.52
9:I:3015:G:H8	9:I:3016:A:HO2'	1.53	0.52
9:I:3023:G:C2	9:I:3036:U:O2	2.61	0.52
9:I:3027:C:H3'	9:I:3028:U:C6	2.45	0.52
9:I:3068:C:C2	9:I:3069:C:C5	2.98	0.52
9:I:3178:G:C6	9:I:3179:C:C4	2.97	0.52
9:I:3216:A:H8	9:I:3232:G:N3	2.08	0.52
9:I:3225:G:C6	9:I:3227:G:N7	2.78	0.52
9:I:3244:G:O2'	9:I:3245:U:H5'	2.10	0.52
9:I:3309:A:H4'	9:I:3311:G:C1'	2.39	0.52
9:I:3435:C:O2	9:I:3435:C:C2'	2.54	0.52
9:I:3443:G:H2'	9:I:3444:G:H8	1.73	0.52
9:I:3587:G:H4'	9:I:3587:G:OP1	1.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3704:U:C2	9:I:3706:A:H2'	2.44	0.52
9:I:3742:C:C3'	9:I:3743:U:H5'	2.39	0.52
9:I:3810:G:H5'	14:N:124:ARG:NH1	2.25	0.52
9:I:3823:U:C2'	9:I:3824:G:O4'	2.58	0.52
9:I:3965:A:C3'	9:I:3966:G:C8	2.86	0.52
9:I:3999:G:N1	9:I:4070:G:C5	2.77	0.52
9:I:4025:A:H5'	15:O:173:ALA:HB2	1.90	0.52
9:I:4183:U:P	9:I:4213:G:H22	2.32	0.52
9:I:4189:U:O2	9:I:4208:G:N2	2.37	0.52
9:I:4262:U:O5'	9:I:4262:U:H6	1.93	0.52
10:J:51:A:OP1	10:J:51:A:H3'	2.08	0.52
11:K:87:SER:HB2	11:K:157:ALA:CB	2.35	0.52
11:K:93:VAL:HG13	11:K:103:ILE:HG12	1.91	0.52
11:K:249:VAL:HG13	11:K:254:LYS:HD3	1.91	0.52
14:N:33:ILE:HG21	14:N:98:PHE:HE2	1.74	0.52
14:N:147:ARG:HH11	14:N:149:ARG:HA	1.71	0.52
14:N:164:GLU:O	14:N:168:LEU:HB2	2.09	0.52
16:R:38:GLY:O	16:R:41:LYS:HG2	2.09	0.52
19:U:126:ILE:HG13	19:U:126:ILE:O	2.09	0.52
20:V:22:ARG:NE	20:V:69:ARG:HG3	2.24	0.52
21:W:176:LEU:HD12	21:W:178:ILE:HD11	1.90	0.52
22:X:82:ASP:O	22:X:85:LYS:HG3	2.10	0.52
23:Y:46:ARG:HD2	23:Y:46:ARG:N	2.24	0.52
27:c:8:ASP:OD2	27:c:26:MET:HE3	2.09	0.52
27:c:85:TYR:HA	27:c:122:GLY:O	2.10	0.52
38:n:16:LYS:HB2	38:n:24:ARG:HH22	1.72	0.52
38:n:33:HIS:HE1	38:n:58:ALA:HB1	1.74	0.52
40:p:80:ASN:O	40:p:84:LYS:HG3	2.09	0.52
41:q:5:PHE:CD1	41:q:12:HIS:O	2.63	0.52
41:q:69:GLY:O	41:q:90:ARG:NE	2.27	0.52
43:s:56:GLU:CG	43:s:88:LYS:HD3	2.39	0.52
44:t:38:ILE:HG13	44:t:39:ASN:N	2.25	0.52
45:u:30:ILE:HA	45:u:91:PHE:O	2.09	0.52
47:w:36:ARG:O	47:w:45:PHE:HD1	1.92	0.52
48:x:41:LEU:HA	48:x:44:GLN:HB2	1.90	0.52
49:y:27:GLY:C	49:y:37:ARG:HH21	2.17	0.52
2:B:57:ARG:HG2	2:B:58:MET:CE	2.38	0.52
7:G:60:ALA:HB2	7:G:70:ALA:CB	2.39	0.52
9:I:108:A:H5'	9:I:109:C:H5	1.75	0.52
9:I:220:C:O2'	9:I:221:C:H5'	2.09	0.52
9:I:310:C:O2	9:I:310:C:H2'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:878:C:O2'	9:I:879:C:H5'	2.10	0.52
9:I:1067:G:N7	9:I:1093:G:H2'	2.25	0.52
9:I:1195:A:H3'	9:I:1196:A:C5'	2.40	0.52
9:I:1236:C:H2'	9:I:1334:U:C4'	2.39	0.52
9:I:1311:G:N2	9:I:1325:U:O2	2.43	0.52
9:I:1333:G:H8	9:I:1333:G:O5'	1.93	0.52
9:I:1449:A:N1	9:I:4358:G:C6	2.78	0.52
9:I:1577:G:N2	9:I:1610:G:H1'	2.25	0.52
9:I:1598:G:H2'	9:I:1599:U:O4'	2.09	0.52
9:I:1690:A:N6	9:I:1707:A:N9	2.58	0.52
9:I:1769:C:N3	9:I:1770:A:C8	2.77	0.52
9:I:1856:G:H2'	9:I:1857:C:C4'	2.40	0.52
9:I:2307:U:H5'	18:T:36:LYS:NZ	2.24	0.52
9:I:2321:A:H8	9:I:2440:C:C6	2.26	0.52
9:I:2321:A:C8	9:I:2440:C:C6	2.98	0.52
9:I:2482:A:C3'	49:y:11:SER:OG	2.58	0.52
9:I:2993:C:C4	9:I:2994:G:O6	2.63	0.52
9:I:3094:C:O2	9:I:3095:G:C8	2.63	0.52
9:I:3163:A:HO2'	9:I:3164:C:P	2.33	0.52
9:I:3267:A:N3	11:K:13:ARG:NH1	2.57	0.52
9:I:3359:U:C5	9:I:3369:G:H2'	2.44	0.52
9:I:3604:G:H5'	9:I:3612:U:O2	2.10	0.52
9:I:3797:G:H21	14:N:154:THR:CG2	2.23	0.52
9:I:3839:G:C4'	9:I:3840:A:H3'	2.40	0.52
9:I:3889:C:H2'	9:I:3890:G:C1'	2.40	0.52
9:I:4174:U:O2'	9:I:4176:A:N7	2.43	0.52
9:I:4178:U:C3'	39:o:72:VAL:HG11	2.40	0.52
9:I:4219:A:N3	9:I:4221:A:C8	2.77	0.52
9:I:4230:A:C6	9:I:4263:U:N3	2.78	0.52
9:I:4240:U:C4'	15:O:138:GLN:HA	2.39	0.52
10:J:73:U:C1'	45:u:37:PRO:HB2	2.38	0.52
11:K:9:SER:O	11:K:12:ARG:N	2.41	0.52
11:K:77:VAL:HA	11:K:92:LEU:O	2.10	0.52
13:M:17:THR:CG2	13:M:106:LYS:CE	2.85	0.52
16:R:30:THR:CB	16:R:108:MET:HE1	2.39	0.52
16:R:74:TYR:N	16:R:87:ALA:O	2.36	0.52
20:V:8:ARG:HB3	20:V:10:LEU:HG	1.92	0.52
20:V:35:LYS:CE	20:V:110:MET:HG2	2.40	0.52
20:V:66:ALA:HB1	20:V:76:VAL:HG12	1.92	0.52
20:V:79:LEU:HD23	20:V:83:LEU:HB2	1.91	0.52
21:W:108:ILE:HD11	21:W:148:ILE:CD1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:112:LYS:HD3	21:W:112:LYS:N	2.22	0.52
25:a:67:PRO:O	25:a:71:ILE:HG12	2.09	0.52
26:b:69:ARG:CZ	26:b:96:ASN:HB2	2.40	0.52
27:c:102:VAL:HG13	27:c:109:VAL:CG1	2.40	0.52
28:d:8:ARG:HG3	28:d:103:ARG:NH2	2.25	0.52
29:e:24:THR:O	29:e:28:THR:HG23	2.10	0.52
31:g:18:SER:OG	31:g:20:VAL:HG12	2.09	0.52
36:l:23:HIS:CE1	36:l:47:ALA:HB3	2.45	0.52
38:n:29:ARG:HD3	38:n:101:ARG:NE	2.25	0.52
38:n:38:VAL:CG1	38:n:89:VAL:HG12	2.40	0.52
39:o:21:PRO:CD	39:o:91:VAL:HG11	2.40	0.52
39:o:50:ARG:CG	39:o:52:ARG:HG2	2.38	0.52
41:q:35:PHE:O	41:q:59:ILE:N	2.37	0.52
42:r:69:LEU:HD13	42:r:107:VAL:HG21	1.92	0.52
43:s:25:GLU:HG3	43:s:26:LYS:CG	2.32	0.52
43:s:77:ARG:NH1	43:s:78:SER:H	2.01	0.52
46:v:28:VAL:CG2	46:v:35:PHE:CB	2.87	0.52
46:v:37:ALA:CB	46:v:41:VAL:HG12	2.39	0.52
1:A:53:ASP:OD1	1:A:58:ARG:CD	2.58	0.52
2:B:12:SER:HA	2:B:18:ALA:HA	1.92	0.52
2:B:65:LEU:O	2:B:69:LEU:N	2.39	0.52
3:C:62:GLY:HA2	9:I:225:G:H1	1.75	0.52
4:D:65:SER:OG	4:D:68:LYS:O	2.27	0.52
5:E:20:ILE:HD11	5:E:40:ILE:HD13	1.90	0.52
5:E:42:ARG:CG	25:a:86:ARG:HH22	2.23	0.52
5:E:53:ASP:O	8:H:1:PRO:HA	2.10	0.52
7:G:53:GLN:O	7:G:56:VAL:HB	2.10	0.52
9:I:3:U:H4'	9:I:4:U:O5'	2.10	0.52
9:I:362:A:N6	31:g:26:CYS:SG	2.83	0.52
9:I:384:C:H2'	9:I:385:C:O4'	2.09	0.52
9:I:878:C:N3	9:I:879:C:C5	2.78	0.52
9:I:932:G:H5''	9:I:933:C:OP2	2.10	0.52
9:I:944:G:H1'	9:I:1336:G:O2'	2.10	0.52
9:I:969:C:N4	28:d:127:ARG:O	2.42	0.52
9:I:1329:U:H4'	32:h:22:TYR:CE1	2.43	0.52
9:I:1466:C:O5'	9:I:1467:U:OP2	2.28	0.52
9:I:1495:A:C6	9:I:1496:A:C5	2.98	0.52
9:I:1561:C:C4	9:I:1594:A:N1	2.77	0.52
9:I:1812:G:H4'	9:I:1831:C:N3	2.24	0.52
9:I:1812:G:C2'	9:I:1813:G:H8	2.22	0.52
9:I:1904:A:N1	9:I:1921:C:O2'	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1912:A:P	9:I:1913:C:H5	2.33	0.52
9:I:2052:U:C2	9:I:2053:G:C8	2.97	0.52
9:I:2267:U:O2'	9:I:2268:G:O5'	2.26	0.52
9:I:2283:A:N1	9:I:2285:G:C4	2.78	0.52
9:I:2390:A:H3'	9:I:2391:C:C5'	2.39	0.52
9:I:2479:C:H2'	9:I:2479:C:O2	2.09	0.52
9:I:2501:C:OP2	9:I:2502:A:O2'	2.20	0.52
9:I:2748:A:H3'	9:I:2749:U:H5'	1.91	0.52
9:I:2943:G:H5''	9:I:2944:G:OP2	2.09	0.52
9:I:2962:U:C2	9:I:3018:G:N1	2.69	0.52
9:I:3231:G:H3'	9:I:3232:G:H8	1.75	0.52
9:I:3248:A:C2	9:I:3249:A:C4	2.98	0.52
9:I:3418:C:H3'	9:I:3419:C:C5	2.45	0.52
9:I:3426:A:H61	9:I:3462:G:C1'	2.23	0.52
9:I:3450:U:H2'	9:I:3450:U:O2	2.10	0.52
9:I:3592:U:O2'	9:I:3593:U:O4'	2.25	0.52
9:I:3794:C:H3'	9:I:3795:C:C5	2.44	0.52
9:I:3839:G:H5''	9:I:3841:C:O5'	2.08	0.52
9:I:3957:C:H2'	9:I:3958:G:C5'	2.39	0.52
9:I:4017:G:H2'	9:I:4018:G:C5'	2.40	0.52
9:I:4149:G:O5'	9:I:4150:U:C6	2.63	0.52
9:I:4213:G:H4'	9:I:4340:G:C3'	2.39	0.52
9:I:4312:U:O2	9:I:4312:U:H2'	2.08	0.52
10:J:51:A:P	10:J:51:A:H2'	2.49	0.52
10:J:65:A:N6	10:J:106:G:H3'	2.25	0.52
10:J:74:G:H2'	10:J:75:G:O4'	2.10	0.52
11:K:132:ARG:HD3	11:K:185:ALA:O	2.10	0.52
11:K:261:ARG:C	11:K:264:LYS:HZ2	2.18	0.52
12:L:3:GLY:HA2	12:L:101:PHE:HZ	1.73	0.52
13:M:147:LEU:CB	13:M:183:PHE:HB2	2.34	0.52
14:N:34:THR:HB	14:N:87:LYS:HZ2	1.75	0.52
15:O:43:LYS:HB2	15:O:50:THR:HG23	1.90	0.52
15:O:139:VAL:C	15:O:143:VAL:HG23	2.34	0.52
17:S:10:VAL:HG11	17:S:16:ALA:O	2.10	0.52
17:S:12:ASP:OD2	17:S:85:VAL:HG13	2.09	0.52
17:S:33:ALA:HB1	17:S:37:ASP:CG	2.35	0.52
19:U:6:ARG:HH22	19:U:8:LYS:CG	2.23	0.52
20:V:25:ALA:HB3	20:V:70:THR:CG2	2.40	0.52
20:V:102:PHE:HA	20:V:108:ALA:O	2.09	0.52
22:X:152:VAL:HG22	22:X:165:GLU:OE2	2.09	0.52
23:Y:46:ARG:H	23:Y:46:ARG:CD	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Z:1:GLU:HG2	24:Z:32:ASP:CB	2.40	0.52
24:Z:21:ILE:HG21	24:Z:45:ARG:NH2	2.24	0.52
24:Z:106:LEU:O	24:Z:111:VAL:HG22	2.09	0.52
25:a:8:PHE:HB2	25:a:84:VAL:CG2	2.40	0.52
26:b:132:THR:O	26:b:136:LYS:HG3	2.09	0.52
29:e:14:ILE:HG12	29:e:68:ARG:HG2	1.91	0.52
31:g:55:ARG:HH12	31:g:59:GLY:H	1.55	0.52
32:h:18:LEU:HD11	32:h:33:LEU:HG	1.90	0.52
38:n:98:TYR:CE1	38:n:106:ALA:CB	2.86	0.52
39:o:2:ASN:O	39:o:5:LYS:HG3	2.09	0.52
40:p:68:ALA:O	40:p:71:ASN:ND2	2.29	0.52
41:q:6:GLN:HE21	41:q:9:GLY:HA2	1.74	0.52
41:q:31:GLU:O	41:q:63:VAL:N	2.43	0.52
44:t:94:PHE:HA	44:t:100:GLU:O	2.10	0.52
49:y:1:ALA:N	49:y:39:ASP:H	2.08	0.52
2:B:53:ARG:HD2	9:I:763:C:H4'	1.91	0.52
3:C:8:ARG:HE	9:I:389:U:H4'	1.75	0.52
3:C:59:HIS:CD2	9:I:226:G:HO2'	2.27	0.52
5:E:5:LYS:HB3	25:a:42:TRP:HZ3	1.74	0.52
5:E:20:ILE:HD12	5:E:40:ILE:CD1	2.39	0.52
6:F:48:ALA:CB	6:F:55:HIS:HB3	2.38	0.52
9:I:122:U:C2'	9:I:123:C:H5'	2.40	0.52
9:I:315:C:C5	9:I:350:G:C5	2.97	0.52
9:I:517:C:C5	9:I:528:G:H2'	2.44	0.52
9:I:1003:A:H61	9:I:1024:U:H5'	1.74	0.52
9:I:1210:U:C2'	9:I:1211:U:OP2	2.58	0.52
9:I:1584:A:H2'	9:I:1599:U:O2'	2.10	0.52
9:I:1591:A:C1'	9:I:1592:U:C6	2.90	0.52
9:I:1667:A:C4	9:I:1668:G:C8	2.97	0.52
9:I:1723:A:N7	9:I:1907:G:O2'	2.42	0.52
9:I:1779:A:H8	9:I:1779:A:P	2.32	0.52
9:I:2127:A:N7	18:T:113:ALA:HA	2.25	0.52
9:I:2523:A:O2'	9:I:3980:C:H4'	2.10	0.52
9:I:2782:G:N2	9:I:2821:A:N3	2.57	0.52
9:I:2816:A:C5	9:I:2817:C:C5	2.97	0.52
9:I:2836:A:C6	9:I:2891:U:C5	2.97	0.52
9:I:2884:U:H2'	9:I:2885:U:H5''	1.91	0.52
9:I:2977:G:C2	9:I:2978:U:C6	2.97	0.52
9:I:3044:C:O2'	9:I:3045:A:O4'	2.25	0.52
9:I:3047:A:O3'	9:I:3048:U:H3'	2.09	0.52
9:I:3054:G:N3	9:I:3054:G:H2'	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3247:G:H1'	9:I:3249:A:N7	2.25	0.52
9:I:3350:U:H2'	9:I:3351:G:C5'	2.40	0.52
9:I:3420:U:O2'	9:I:3422:A:N7	2.31	0.52
9:I:3730:U:H2'	9:I:3731:G:H5'	1.91	0.52
9:I:3961:C:N4	9:I:3962:A:H62	2.08	0.52
9:I:4061:G:H2'	9:I:4062:U:C6	2.42	0.52
9:I:4132:G:H22	9:I:4269:G:H2'	1.74	0.52
9:I:4177:C:H2'	9:I:4177:C:O2	2.09	0.52
9:I:4297:G:N3	9:I:4297:G:H2'	2.23	0.52
10:J:32:G:C8	10:J:32:G:H3'	2.45	0.52
10:J:43:G:H4'	10:J:44:A:N1	2.25	0.52
10:J:56:A:N9	14:N:25:MET:HB2	2.24	0.52
10:J:74:G:C1'	45:u:29:ILE:HG21	2.40	0.52
10:J:112:C:H2'	10:J:113:C:N1	2.24	0.52
11:K:24:HIS:HB2	11:K:79:ARG:NH1	2.24	0.52
11:K:144:GLU:OE1	11:K:187:CYS:HA	2.10	0.52
12:L:6:GLY:N	12:L:27:ILE:HD11	2.23	0.52
12:L:50:VAL:H	12:L:80:TRP:N	2.08	0.52
14:N:16:MET:C	14:N:20:ASN:H	2.18	0.52
15:O:65:GLY:O	15:O:68:ARG:HB3	2.10	0.52
23:Y:21:LYS:HE3	23:Y:30:LYS:CE	2.40	0.52
23:Y:199:ILE:HG22	23:Y:203:TYR:HE2	1.74	0.52
25:a:53:LYS:HG3	25:a:54:LEU:N	2.24	0.52
27:c:50:VAL:HG21	27:c:56:PRO:HB3	1.91	0.52
30:f:16:ASN:CA	30:f:46:SER:HB3	2.39	0.52
30:f:49:PHE:O	30:f:53:VAL:HG13	2.10	0.52
31:g:53:ARG:HB2	31:g:53:ARG:CZ	2.40	0.52
31:g:88:D2T:N	31:g:88:D2T:OD1	2.43	0.52
35:k:4:THR:HG23	35:k:5:PHE:N	2.25	0.52
38:n:25:LEU:HD12	38:n:37:GLN:O	2.08	0.52
40:p:82:LEU:O	40:p:85:ALA:CB	2.56	0.52
40:p:89:ILE:H	41:q:49:ILE:HD11	1.73	0.52
41:q:2:TYR:CA	41:q:14:VAL:O	2.57	0.52
41:q:4:VAL:O	41:q:38:VAL:CA	2.57	0.52
45:u:65:VAL:O	45:u:66:ASP:HB2	2.09	0.52
45:u:83:LYS:HB2	45:u:85:LYS:HZ2	1.71	0.52
3:C:39:PHE:CD1	3:C:74:LEU:HD21	2.45	0.52
4:D:15:GLU:N	9:I:272:U:H3'	2.21	0.52
7:G:47:LYS:CA	7:G:50:ASN:HB2	2.35	0.52
9:I:34:G:O2'	9:I:35:C:H5'	2.10	0.52
9:I:106:G:C3'	9:I:107:G:H5''	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:507:U:H5''	23:Y:50:TYR:CD2	2.45	0.52
9:I:706:U:H4'	30:f:10:HIS:CG	2.43	0.52
9:I:758:A:H2'	9:I:759:G:O4'	2.09	0.52
9:I:874:U:O2'	27:c:14:ARG:NH1	2.26	0.52
9:I:1089:U:O2'	9:I:1170:A:H4'	2.10	0.52
9:I:1205:G:H2'	9:I:1206:2MG:O4'	2.10	0.52
9:I:1375:U:C6	9:I:1375:U:C3'	2.93	0.52
9:I:1621:G:N1	9:I:1622:G:C5	2.78	0.52
9:I:1653:U:C2	9:I:1654:U:C6	2.98	0.52
9:I:1768:C:O2	9:I:1768:C:C2'	2.56	0.52
9:I:1799:A:C8	9:I:1822:A:C6	2.98	0.52
9:I:1818:C:C3'	9:I:1819:G:H8	2.22	0.52
9:I:1840:A:H3'	9:I:1841:C:H6	1.72	0.52
9:I:2003:A:C6	9:I:2006:G:C6	2.98	0.52
9:I:2039:G:O6	9:I:2054:U:C4	2.63	0.52
9:I:2039:G:C6	9:I:2054:U:N3	2.73	0.52
9:I:2083:G:O3'	40:p:4:LYS:NZ	2.30	0.52
9:I:2084:C:OP1	40:p:4:LYS:HD2	2.08	0.52
9:I:2430:A:O2'	9:I:2431:C:H5'	2.10	0.52
9:I:2481:C:O3'	49:y:10:ARG:NE	2.43	0.52
9:I:2535:G:C2	9:I:2609:G:O6	2.63	0.52
9:I:2665:G:O3'	9:I:2666:C:O4'	2.28	0.52
9:I:2920:G:H8	9:I:2921:A:H2'	1.73	0.52
9:I:3064:A:H2'	9:I:3065:A:C1'	2.40	0.52
9:I:3148:A:C1'	9:I:4317:A:H5'	2.39	0.52
9:I:3300:C:H2'	9:I:3301:G:H8	1.75	0.52
9:I:3399:C:H2'	9:I:3424:G:H8	1.75	0.52
9:I:3585:C:O5'	9:I:3586:U:O2'	2.25	0.52
9:I:3643:U:H2'	9:I:3644:C:C6	2.44	0.52
9:I:3692:A:N3	9:I:3693:A:O4'	2.42	0.52
9:I:3790:U:O4	38:n:9:ARG:NH2	2.43	0.52
9:I:3792:A:H5'	9:I:3816:A:O4'	2.10	0.52
9:I:3816:A:N6	9:I:3829:A:H61	2.07	0.52
9:I:3818:U:H4'	9:I:3831:G:H5''	1.91	0.52
9:I:3847:G:O2'	46:v:23:ALA:O	2.16	0.52
9:I:3931:G:H2'	9:I:3932:U:C6	2.43	0.52
9:I:3953:A:H2'	9:I:3954:U:H5'	1.90	0.52
9:I:3963:A:H2'	9:I:3964:G:C4'	2.40	0.52
9:I:4024:A:C8	15:O:156:TYR:OH	2.58	0.52
9:I:4041:A:C8	9:I:4060:A:C5	2.98	0.52
9:I:4156:A:H3'	9:I:4157:G:H8	1.60	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4240:U:H1'	15:O:138:GLN:HB2	1.92	0.52
9:I:4242:A:O2'	9:I:4243:A:H5'	2.10	0.52
9:I:4279:C:H2'	9:I:4280:U:O4'	2.10	0.52
10:J:69:C:C4	10:J:106:G:N2	2.76	0.52
10:J:98:A:C5	10:J:99:G:C5	2.97	0.52
11:K:81:GLU:CD	11:K:83:ASP:HA	2.35	0.52
12:L:122:VAL:HG11	12:L:141:ARG:NH1	2.24	0.52
12:L:124:ARG:HD3	12:L:165:MET:SD	2.49	0.52
13:M:24:ASN:O	13:M:27:LEU:HB3	2.10	0.52
13:M:27:LEU:HD23	13:M:28:VAL:N	2.25	0.52
13:M:170:ARG:CZ	13:M:176:ASP:H	2.23	0.52
17:S:5:GLN:CA	17:S:20:MET:SD	2.90	0.52
17:S:39:ILE:O	17:S:59:LYS:HA	2.10	0.52
18:T:90:VAL:HG22	18:T:94:THR:CB	2.37	0.52
22:X:6:PRO:HG3	22:X:200:TRP:CH2	2.45	0.52
24:Z:125:ILE:O	24:Z:129:ARG:NE	2.43	0.52
28:d:36:PHE:CE1	28:d:69:ILE:HD13	2.44	0.52
29:e:15:ASP:HA	29:e:18:THR:CG2	2.40	0.52
30:f:19:ILE:HG22	30:f:34:THR:HG22	1.92	0.52
32:h:96:VAL:HG23	32:h:108:ARG:NH2	2.24	0.52
40:p:84:LYS:NZ	40:p:116:LEU:HD12	2.25	0.52
40:p:88:GLU:N	41:q:49:ILE:HD12	2.17	0.52
41:q:40:MET:C	41:q:54:VAL:HG21	2.35	0.52
45:u:9:ARG:HH21	45:u:20:LEU:CD1	2.16	0.52
45:u:20:LEU:O	45:u:25:LYS:HB2	2.10	0.52
45:u:27:PRO:CG	45:u:88:HIS:HD2	2.23	0.52
45:u:79:ARG:HE	45:u:84:PRO:HA	1.75	0.52
2:B:61:GLN:CA	2:B:64:LYS:HE3	2.40	0.52
4:D:37:ARG:NH2	9:I:279:C:OP1	2.38	0.52
7:G:5:ALA:HB2	9:I:331:G:O2'	2.10	0.52
7:G:23:ARG:HD2	7:G:27:ARG:NH1	2.25	0.52
9:I:397:U:H2'	9:I:398:G:C8	2.44	0.52
9:I:400:C:H1'	9:I:621:A:H1'	1.92	0.52
9:I:438:U:O2'	23:Y:130:ASN:OD1	2.26	0.52
9:I:663:G:O2'	9:I:665:G:OP2	2.20	0.52
9:I:769:C:H2'	9:I:770:G:H8	1.75	0.52
9:I:1073:G:C4'	21:W:100:ASN:HA	2.35	0.52
9:I:1108:C:OP2	22:X:175:HIS:NE2	2.42	0.52
9:I:1126:G:H1'	9:I:1279:A:C2	2.45	0.52
9:I:1248:C:C4'	28:d:72:GLN:HE22	2.19	0.52
9:I:1257:G:O2'	9:I:1258:C:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1303:G:O2'	9:I:1332:A:N6	2.39	0.52
9:I:1479:A:C8	9:I:4326:U:C5	2.98	0.52
9:I:1554:G:H21	9:I:1555:G:H1'	1.75	0.52
9:I:1676:A:O2'	9:I:1677:G:H5'	2.10	0.52
9:I:1750:G:C8	9:I:1750:G:H3'	2.45	0.52
9:I:1797:G:H2'	9:I:1798:G:O4'	2.10	0.52
9:I:1808:G:H1'	9:I:1829:G:H22	1.75	0.52
9:I:1820:A:H3'	13:M:132:LYS:HB3	1.92	0.52
9:I:1874:A:O4'	9:I:1901:A:N1	2.43	0.52
9:I:1907:G:C2'	9:I:1908:G:C8	2.82	0.52
9:I:2208:G:H2'	9:I:2208:G:N3	2.24	0.52
9:I:2230:A:C2'	9:I:2231:C:H5'	2.40	0.52
9:I:2254:U:C2	9:I:2255:U:C5	2.97	0.52
9:I:2527:U:H3'	9:I:2528:G:H5''	1.92	0.52
9:I:2645:A:C2'	9:I:2646:C:C6	2.83	0.52
9:I:2789:C:C4'	20:V:71:ARG:HD3	2.39	0.52
9:I:2837:G:H1'	9:I:3091:A:C2	2.45	0.52
9:I:3007:U:C2'	9:I:3008:G:C4	2.85	0.52
9:I:3202:C:C4	9:I:3245:U:N3	2.78	0.52
9:I:3338:C:C2	9:I:3339:G:C8	2.98	0.52
9:I:3457:U:H2'	9:I:3458:G:H5'	1.92	0.52
9:I:3791:A:N3	9:I:3792:A:H5'	2.25	0.52
9:I:3820:C:H5	9:I:3881:U:C4	2.28	0.52
9:I:3850:U:P	46:v:14:LYS:HZ2	2.31	0.52
9:I:3884:U:OP1	36:l:34:LYS:NZ	2.35	0.52
9:I:3913:U:C4'	34:j:19:THR:HB	2.40	0.52
9:I:4024:A:H4'	9:I:4028:A:N1	2.25	0.52
9:I:4040:U:C2'	9:I:4041:A:OP2	2.57	0.52
9:I:4142:G:C2'	9:I:4143:C:H6	2.23	0.52
9:I:4175:C:C2	9:I:4176:A:N1	2.78	0.52
9:I:4215:A:C6	9:I:4216:G:C5	2.98	0.52
9:I:4218:U:N3	9:I:4219:A:N6	2.56	0.52
9:I:4307:A:C4	9:I:4308:A:C8	2.98	0.52
10:J:16:C:H6	10:J:16:C:OP2	1.91	0.52
10:J:34:C:H2'	10:J:35:C:H6	1.75	0.52
10:J:35:C:OP2	10:J:37:C:N4	2.42	0.52
10:J:65:A:C5	10:J:106:G:C5	2.97	0.52
11:K:107:LYS:HB2	11:K:195:GLY:HA3	1.90	0.52
11:K:163:ILE:HG12	11:K:173:LEU:HD22	1.92	0.52
12:L:124:ARG:CD	12:L:165:MET:HB2	2.39	0.52
12:L:151:THR:CG2	12:L:152:PRO:CD	2.84	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:148:ILE:HD12	13:M:187:VAL:CB	2.39	0.52
14:N:31:GLU:OE2	14:N:156:THR:HG22	2.09	0.52
15:O:140:ILE:HG13	15:O:141:GLY:H	1.73	0.52
16:R:23:LYS:CE	16:R:28:LEU:HA	2.40	0.52
20:V:19:ALA:O	20:V:22:ARG:CB	2.57	0.52
20:V:78:LYS:HG3	20:V:82:GLU:OE2	2.09	0.52
22:X:110:LEU:O	22:X:203:LYS:NZ	2.37	0.52
24:Z:71:THR:HA	24:Z:113:ASN:OD1	2.09	0.52
30:f:73:MET:SD	30:f:75:LYS:HE2	2.50	0.52
32:h:47:LEU:HD13	32:h:52:ILE:CD1	2.40	0.52
32:h:63:VAL:HG12	32:h:68:LEU:HA	1.92	0.52
38:n:4:SER:O	38:n:6:ARG:N	2.43	0.52
38:n:48:VAL:HG12	38:n:49:ALA:N	2.25	0.52
39:o:45:VAL:N	39:o:61:ARG:H	2.06	0.52
39:o:58:PHE:CZ	39:o:83:ILE:CD1	2.92	0.52
40:p:50:ARG:O	40:p:53:LYS:CB	2.56	0.52
40:p:64:ILE:HD11	40:p:91:ARG:O	2.10	0.52
40:p:93:ILE:HG21	41:q:4:VAL:HG21	1.92	0.52
40:p:113:LYS:O	40:p:116:LEU:HB3	2.10	0.52
42:r:31:GLN:O	42:r:34:ASP:N	2.43	0.52
43:s:12:ARG:CB	43:s:33:LYS:CG	2.84	0.52
44:t:4:ILE:HG23	44:t:8:ASP:CG	2.34	0.52
45:u:35:GLU:OE1	45:u:93:ARG:HD2	2.09	0.52
48:x:37:GLN:HE21	48:x:38:GLN:CG	2.23	0.52
1:A:5:MET:HE2	9:I:982:A:C5'	2.40	0.51
2:B:10:ILE:HG21	2:B:30:LEU:HG	1.92	0.51
2:B:35:ILE:O	2:B:39:GLN:HB2	2.09	0.51
9:I:322:U:H2'	9:I:323:G:C8	2.45	0.51
9:I:322:U:C4	9:I:326:A:N7	2.77	0.51
9:I:356:G:H1'	9:I:367:U:O2	2.10	0.51
9:I:452:G:H2'	9:I:452:G:N3	2.25	0.51
9:I:580:G:N1	9:I:757:C:H2'	2.25	0.51
9:I:665:G:C2'	9:I:666:G:H5'	2.40	0.51
9:I:931:C:H2'	9:I:931:C:O2	2.10	0.51
9:I:968:A:OP1	29:e:54:ASN:ND2	2.43	0.51
9:I:971:C:H1'	29:e:53:VAL:CG2	2.32	0.51
9:I:1077:U:H2'	9:I:1078:G:C4	2.44	0.51
9:I:1260:A:H1'	9:I:1274:A:C6	2.46	0.51
9:I:1279:A:O4'	29:e:39:PRO:HG2	2.10	0.51
9:I:1469:A:H3'	9:I:1470:C:C6	2.45	0.51
9:I:1489:A:N7	9:I:4283:C:H2'	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1667:A:H2'	9:I:1668:G:H8	1.74	0.51
9:I:1779:A:H2'	9:I:1780:U:C5'	2.40	0.51
9:I:2201:G:C2	9:I:2202:U:C1'	2.92	0.51
9:I:2348:C:C2'	9:I:2349:A:H8	2.22	0.51
9:I:2440:C:H2'	9:I:2441:A:H8	1.74	0.51
9:I:2518:G:H2'	9:I:2519:G:N7	2.24	0.51
9:I:2522:A:C5	9:I:2523:A:N7	2.79	0.51
9:I:2533:A:C8	9:I:2533:A:OP2	2.63	0.51
9:I:2592:A:C2'	9:I:2593:G:H5'	2.40	0.51
9:I:2612:C:H2'	9:I:2613:U:C5	2.44	0.51
9:I:2683:A:H2'	9:I:2684:G:C5'	2.39	0.51
9:I:2693:U:H2'	9:I:2694:C:C6	2.45	0.51
9:I:2888:U:H5''	9:I:3098:C:P	2.50	0.51
9:I:2955:C:O2	9:I:2956:C:C5	2.63	0.51
9:I:3047:A:C5	9:I:3049:G:C6	2.97	0.51
9:I:3049:G:H2'	9:I:3050:C:C6	2.45	0.51
9:I:3059:C:H3'	11:K:25:LYS:HZ1	1.75	0.51
9:I:3209:G:H1'	9:I:3237:G:C6	2.45	0.51
9:I:3218:G:H2'	9:I:3219:U:C6	2.45	0.51
9:I:3282:C:C2	9:I:3283:A:C8	2.98	0.51
9:I:3309:A:H5'	9:I:3311:G:H1'	1.91	0.51
9:I:3351:G:C2	9:I:3378:G:N3	2.78	0.51
9:I:3587:G:H21	9:I:3692:A:H62	1.57	0.51
9:I:3634:G:H1	9:I:3645:U:H3	1.57	0.51
9:I:3693:A:H2'	9:I:3694:C:H6	1.74	0.51
9:I:3774:G:N3	9:I:3882:A:C2	2.78	0.51
9:I:3797:G:H21	14:N:154:THR:CB	2.23	0.51
9:I:3879:C:C2'	9:I:3880:A:C8	2.89	0.51
9:I:3954:U:H2'	9:I:3955:A:H5'	1.91	0.51
9:I:4019:G:C6	9:I:4020:G:N7	2.78	0.51
9:I:4073:C:H2'	9:I:4074:PSU:H6	1.73	0.51
9:I:4176:A:H5''	39:o:55:HIS:NE2	2.25	0.51
9:I:4214:U:P	39:o:52:ARG:HH22	2.29	0.51
9:I:4214:U:C4	9:I:4215:A:C4	2.98	0.51
9:I:4227:A:C2	9:I:4228:A:C8	2.97	0.51
9:I:4251:A:N1	15:O:66:THR:OG1	2.35	0.51
9:I:4258:A:O2'	9:I:4259:A:C2	2.61	0.51
9:I:4331:A:H3'	9:I:4332:G:C8	2.43	0.51
9:I:4333:G:N2	20:V:91:ALA:HB1	2.25	0.51
10:J:77:A:H2'	10:J:78:G:C4'	2.40	0.51
11:K:117:SER:C	11:K:121:ALA:HB2	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:47:ALA:HB1	12:L:81:GLU:HB3	1.92	0.51
12:L:50:VAL:CG2	12:L:80:TRP:HE3	2.13	0.51
12:L:108:ASP:N	12:L:204:LYS:H	2.05	0.51
14:N:49:LEU:CD2	14:N:66:ILE:HD12	2.39	0.51
14:N:51:ASN:HB2	14:N:149:ARG:NH1	2.25	0.51
14:N:105:ILE:HD12	14:N:138:PRO:HG2	1.92	0.51
14:N:111:ARG:HH22	14:N:131:VAL:CB	2.23	0.51
14:N:111:ARG:CD	14:N:133:GLU:HB3	2.34	0.51
19:U:43:ALA:C	19:U:47:GLU:OE1	2.53	0.51
22:X:35:ASP:HA	22:X:38:VAL:HG22	1.92	0.51
23:Y:64:TYR:HD2	23:Y:93:LEU:HB3	1.71	0.51
34:j:6:ILE:HD12	34:j:8:LEU:HD21	1.92	0.51
39:o:96:LEU:N	39:o:96:LEU:HD12	2.25	0.51
41:q:40:MET:CA	41:q:54:VAL:CG2	2.88	0.51
43:s:8:LEU:C	48:x:28:ARG:HH22	2.18	0.51
44:t:9:GLU:C	44:t:72:PHE:H	2.17	0.51
45:u:32:GLY:CA	45:u:92:VAL:HG13	2.37	0.51
47:w:5:GLN:NE2	47:w:48:LEU:HD22	2.26	0.51
49:y:51:SER:HA	49:y:54:VAL:CG2	2.40	0.51
1:A:52:ARG:HB2	9:I:1218:A:O5'	2.11	0.51
1:A:85:GLU:CD	9:I:1201:U:H3	2.18	0.51
4:D:7:GLY:HA2	4:D:21:ALA:O	2.10	0.51
4:D:14:MET:CA	9:I:273:A:O5'	2.58	0.51
4:D:18:ILE:HB	4:D:45:ASP:CG	2.34	0.51
8:H:19:LYS:HG3	30:f:81:ARG:CZ	2.40	0.51
9:I:27:A:C2'	9:I:295:U:H5''	2.39	0.51
9:I:348:A:H2'	9:I:348:A:N3	2.24	0.51
9:I:429:A:H2'	9:I:430:A:H5'	1.91	0.51
9:I:484:U:O2	9:I:484:U:H2'	2.10	0.51
9:I:602:U:O5'	9:I:602:U:H6	1.93	0.51
9:I:832:G:O2'	9:I:833:U:H5'	2.10	0.51
9:I:871:A:N3	9:I:871:A:H2'	2.25	0.51
9:I:911:C:O2'	9:I:912:A:H5'	2.10	0.51
9:I:930:C:P	26:b:2:ARG:HH22	2.33	0.51
9:I:980:U:OP2	9:I:981:U:H2'	2.09	0.51
9:I:1162:A:C2'	9:I:1163:G:H5'	2.40	0.51
9:I:1170:A:O2'	9:I:1171:C:H5'	2.09	0.51
9:I:1220:G:H5''	9:I:1320:U:O2	2.09	0.51
9:I:1457:A:N1	9:I:4351:A:C2	2.78	0.51
9:I:1462:U:H4'	9:I:1463:G:H4'	1.92	0.51
9:I:1463:G:N2	9:I:4342:G:H1'	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1509:G:C2'	9:I:4294:A:H62	2.22	0.51
9:I:1856:G:N7	9:I:1857:C:C5	2.78	0.51
9:I:1906:G:C2'	9:I:1907:G:H5'	2.41	0.51
9:I:2041:A:H2'	9:I:2042:C:O4'	2.10	0.51
9:I:2050:C:C2	9:I:2051:G:C8	2.98	0.51
9:I:2072:A:H8	9:I:2072:A:O5'	1.92	0.51
9:I:2178:C:O2'	9:I:2179:C:H5'	2.09	0.51
9:I:2360:U:H2'	9:I:2361:A:H8	1.75	0.51
9:I:2362:G:C2'	10:J:98:A:N1	2.73	0.51
9:I:2387:C:O2'	9:I:2388:U:H5'	2.10	0.51
9:I:2682:U:H2'	9:I:2682:U:O2	2.10	0.51
9:I:2874:G:C2	9:I:2875:G:C8	2.98	0.51
9:I:2913:A:C4	9:I:2915:G:C5	2.99	0.51
9:I:2916:G:C5	9:I:3071:C:C2	2.99	0.51
9:I:2917:G:C2'	9:I:2918:G:O5'	2.58	0.51
9:I:2950:G:N1	9:I:4198:C:N4	2.57	0.51
9:I:3000:U:H2'	9:I:3001:C:H6	1.76	0.51
9:I:3044:C:H2'	9:I:3045:A:H8	1.70	0.51
9:I:3293:G:P	9:I:3313:A:H61	2.33	0.51
9:I:3340:G:N2	9:I:3389:C:C1'	2.74	0.51
9:I:3377:U:C2'	9:I:3378:G:H5'	2.40	0.51
9:I:3419:C:O2	9:I:3423:G:C2	2.62	0.51
9:I:3682:U:H2'	9:I:3683:U:N1	2.25	0.51
9:I:3787:G:C3'	38:n:97:GLN:NE2	2.74	0.51
9:I:3792:A:N7	9:I:3812:G:N3	2.59	0.51
9:I:3793:U:C2	9:I:3812:G:C2	2.99	0.51
9:I:3831:G:C2	9:I:3832:C:C4	2.98	0.51
9:I:3856:C:P	36:l:39:ARG:HH21	2.33	0.51
9:I:3868:C:H2'	9:I:3869:G:C1'	2.40	0.51
9:I:3881:U:C6	9:I:3881:U:H3'	2.46	0.51
9:I:4142:G:O6	9:I:4166:U:O4	2.27	0.51
9:I:4174:U:C4'	12:L:11:MET:HE1	2.36	0.51
9:I:4197:C:H2'	9:I:4197:C:O2	2.09	0.51
9:I:4211:C:O2	39:o:93:LYS:HD3	2.10	0.51
9:I:4245:G:H2'	9:I:4245:G:N3	2.25	0.51
9:I:4270:A:H4'	9:I:4272:A:OP1	2.09	0.51
9:I:4303:A:C2'	9:I:4304:A:O4'	2.59	0.51
10:J:16:C:N4	10:J:107:A:C4	2.78	0.51
10:J:70:C:N3	10:J:105:G:N2	2.58	0.51
11:K:15:VAL:CG2	11:K:205:GLY:HA3	2.40	0.51
11:K:123:ILE:HA	11:K:127:ASN:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:159:THR:HG22	11:K:176:ARG:CD	2.39	0.51
12:L:38:LYS:HD2	12:L:81:GLU:OE2	2.10	0.51
12:L:201:LEU:O	12:L:203:VAL:HG23	2.09	0.51
13:M:16:GLU:HG3	13:M:20:GLY:C	2.35	0.51
13:M:157:LEU:CD1	13:M:169:VAL:HG11	2.37	0.51
13:M:170:ARG:NH1	13:M:179:SER:HB3	2.25	0.51
16:R:38:GLY:O	16:R:40:HIS:N	2.43	0.51
16:R:92:MET:HG3	16:R:92:MET:O	2.10	0.51
18:T:96:LYS:HD3	18:T:103:ILE:CD1	2.21	0.51
22:X:57:GLU:OE2	22:X:59:PRO:HG3	2.11	0.51
22:X:62:SER:OG	22:X:97:PRO:HG2	2.11	0.51
23:Y:154:VAL:CA	23:Y:157:ALA:HB3	2.35	0.51
23:Y:185:PRO:HB2	23:Y:190:LEU:HD21	1.91	0.51
25:a:64:VAL:CG2	25:a:71:ILE:HD11	2.40	0.51
25:a:78:PHE:HA	25:a:84:VAL:HG11	1.92	0.51
26:b:70:PRO:HD2	26:b:95:ARG:CG	2.40	0.51
27:c:16:GLY:HA2	27:c:21:LYS:NZ	2.26	0.51
30:f:23:THR:HA	30:f:30:LEU:H	1.75	0.51
33:i:54:ILE:O	33:i:55:ALA:HB2	2.11	0.51
34:j:23:ASN:HB3	34:j:26:THR:CG2	2.40	0.51
39:o:22:GLY:O	39:o:89:GLY:HA3	2.09	0.51
39:o:64:SER:HB2	39:o:67:GLU:C	2.35	0.51
40:p:53:LYS:O	40:p:57:ARG:CG	2.58	0.51
42:r:69:LEU:HD23	42:r:108:SER:CA	2.40	0.51
42:r:79:GLY:HA2	42:r:102:HIS:CE1	2.45	0.51
44:t:85:ARG:HH22	44:t:101:THR:CB	2.22	0.51
45:u:72:VAL:HG21	45:u:91:PHE:HB2	1.91	0.51
46:v:36:HIS:HB2	46:v:69:PHE:CD1	2.44	0.51
46:v:39:ALA:O	46:v:72:ILE:CD1	2.57	0.51
46:v:62:LYS:NZ	46:v:71:SER:CB	2.73	0.51
47:w:31:ASN:HD22	47:w:52:ALA:CB	2.24	0.51
4:D:17:SER:HB3	9:I:272:U:O4'	2.11	0.51
9:I:8:G:H4'	24:Z:100:GLY:CA	2.40	0.51
9:I:120:U:O5'	9:I:120:U:H6	1.94	0.51
9:I:128:A:H1'	9:I:129:A:C8	2.45	0.51
9:I:162:C:H2'	9:I:163:G:H4'	1.92	0.51
9:I:176:G:N7	9:I:177:C:C5	2.78	0.51
9:I:224:C:O5'	9:I:224:C:H6	1.93	0.51
9:I:598:C:C2'	9:I:599:A:H5'	2.41	0.51
9:I:667:G:H2'	9:I:668:G:C8	2.45	0.51
9:I:931:C:OP2	26:b:2:ARG:CD	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1159:G:H2'	9:I:1159:G:N3	2.25	0.51
9:I:1303:G:O3'	9:I:1304:G:O4'	2.28	0.51
9:I:1468:A:N6	9:I:4339:U:C2	2.78	0.51
9:I:1567:U:C2'	9:I:1568:G:H5'	2.40	0.51
9:I:1666:U:H2'	9:I:1667:A:H8	1.72	0.51
9:I:1748:G:C4	9:I:1750:G:N2	2.78	0.51
9:I:1774:C:C2	9:I:1864:C:C2	2.98	0.51
9:I:1872:G:C6	9:I:1900:G:C8	2.98	0.51
9:I:1980:A:H5''	44:t:43:LYS:HB3	1.91	0.51
9:I:2045:U:H2'	9:I:2046:U:O3'	2.10	0.51
9:I:2107:U:C5'	13:M:98:LYS:HE2	2.40	0.51
9:I:2123:C:C2	9:I:2124:C:C5	2.99	0.51
9:I:2208:G:C2	9:I:2209:U:C5	2.98	0.51
9:I:2245:1MG:C8	9:I:2245:1MG:O5'	2.63	0.51
9:I:2367:C:C5	9:I:2368:U:C4	2.98	0.51
9:I:2463:G:P	49:y:17:PRO:HG3	2.51	0.51
9:I:2533:A:H2'	9:I:2534:A:H8	1.75	0.51
9:I:2556:G:C4	9:I:2557:G:C8	2.99	0.51
9:I:2646:C:H6	9:I:2646:C:OP2	1.94	0.51
9:I:2767:U:O2'	9:I:2768:A:H5''	2.10	0.51
9:I:2869:U:C2'	9:I:2870:C:O5'	2.57	0.51
9:I:2921:A:H8	9:I:2921:A:O5'	1.93	0.51
9:I:2971:A:H5''	9:I:2972:G:OP2	2.10	0.51
9:I:3016:A:H3'	9:I:3017:U:H6	1.71	0.51
9:I:3165:U:H2'	9:I:3167:G:OP2	2.10	0.51
9:I:3209:G:H22	9:I:3238:A:P	2.31	0.51
9:I:3212:G:O6	9:I:3236:U:O4	2.29	0.51
9:I:3238:A:H2'	9:I:3239:A:O4'	2.10	0.51
9:I:3335:U:H2'	9:I:3336:G:C8	2.41	0.51
9:I:3347:A:HO2'	9:I:3728:G:P	2.33	0.51
9:I:3400:G:N2	9:I:3419:C:H1'	2.26	0.51
9:I:3421:A:H2'	9:I:3422:A:N9	2.25	0.51
9:I:3508:A:C2'	9:I:3509:A:O5'	2.58	0.51
9:I:3828:U:O4	46:v:69:PHE:CZ	2.64	0.51
9:I:3842:U:C2	34:j:36:PHE:CE2	2.99	0.51
9:I:3848:C:P	46:v:22:LEU:HD12	2.50	0.51
9:I:3851:G:C2	9:I:3855:G:C6	2.99	0.51
9:I:3948:G:H2'	9:I:3948:G:N3	2.25	0.51
9:I:3967:U:OP1	9:I:4023:G:N2	2.43	0.51
9:I:4025:A:N3	9:I:4025:A:H2'	2.24	0.51
9:I:4136:G:H2'	9:I:4137:G:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4193:C:N4	9:I:4194:A:N6	2.57	0.51
9:I:4215:A:H2'	9:I:4216:G:C8	2.46	0.51
9:I:4242:A:O2'	15:O:65:GLY:C	2.53	0.51
9:I:4332:G:C2	9:I:4333:G:C8	2.99	0.51
9:I:4341:U:H3'	39:o:94:ALA:HB2	1.92	0.51
10:J:99:G:H8	10:J:99:G:O5'	1.94	0.51
10:J:109:C:OP2	10:J:109:C:H6	1.93	0.51
11:K:175:LEU:HD11	11:K:181:ARG:CB	2.40	0.51
12:L:33:ARG:HH22	12:L:53:GLY:N	2.09	0.51
12:L:180:VAL:HG22	12:L:181:ASP:N	2.24	0.51
15:O:132:LEU:HD21	15:O:144:ALA:CB	2.37	0.51
16:R:17:VAL:HG11	16:R:130:HIS:NE2	2.24	0.51
16:R:24:THR:HG22	16:R:25:LEU:N	2.25	0.51
16:R:100:VAL:HG23	16:R:101:ILE:N	2.26	0.51
16:R:118:MET:C	16:R:121:LYS:HZ3	2.11	0.51
18:T:59:ARG:HA	36:l:12:ARG:NH1	2.25	0.51
18:T:123:ARG:HA	18:T:144:GLU:C	2.35	0.51
19:U:64:TRP:HB3	19:U:66:ARG:NH2	2.24	0.51
20:V:36:THR:HG21	20:V:44:LEU:HD12	1.91	0.51
20:V:44:LEU:C	20:V:48:VAL:HG22	2.34	0.51
20:V:65:LEU:C	20:V:65:LEU:HD23	2.36	0.51
24:Z:34:ASN:C	24:Z:67:LEU:HD11	2.35	0.51
25:a:37:HIS:HE2	25:a:65:GLU:HB2	1.74	0.51
29:e:4:ILE:O	29:e:4:ILE:HG13	2.10	0.51
29:e:5:ARG:NH2	29:e:38:LEU:HB2	2.13	0.51
31:g:29:LYS:O	31:g:80:LEU:HD12	2.11	0.51
31:g:73:LEU:HD11	31:g:102:ASP:HB3	1.92	0.51
32:h:26:LYS:HD2	32:h:26:LYS:N	2.25	0.51
38:n:45:GLU:O	38:n:45:GLU:HG3	2.10	0.51
38:n:98:TYR:CZ	38:n:106:ALA:HB3	2.44	0.51
39:o:12:MET:HA	39:o:54:LEU:CD1	2.41	0.51
39:o:26:GLU:CB	39:o:43:GLU:HA	2.40	0.51
41:q:22:LEU:HD12	41:q:96:VAL:HG21	1.91	0.51
42:r:55:ILE:CG2	42:r:59:GLU:OE2	2.57	0.51
43:s:12:ARG:CB	43:s:33:LYS:HG3	2.39	0.51
47:w:17:ARG:NE	47:w:21:LEU:HA	2.26	0.51
47:w:69:GLU:OE1	47:w:69:GLU:N	2.43	0.51
49:y:28:LEU:HD12	49:y:35:VAL:HG11	1.92	0.51
1:A:46:LYS:HA	1:A:49:THR:HG23	1.92	0.51
2:B:63:ARG:NE	2:B:87:ARG:HH12	2.09	0.51
3:C:1:MET:HG2	3:C:2:VAL:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:28:ARG:HB2	9:I:109:C:O2'	2.11	0.51
4:D:11:SER:HB3	9:I:274:G:O3'	2.11	0.51
7:G:1:ASN:ND2	9:I:349:G:OP2	2.31	0.51
7:G:42:LYS:HD3	7:G:84:LEU:O	2.11	0.51
9:I:37:G:H1'	9:I:396:A:H61	1.73	0.51
9:I:315:C:C2'	9:I:316:U:H5'	2.40	0.51
9:I:511:U:O2'	9:I:512:C:H5'	2.10	0.51
9:I:735:C:C2	9:I:736:C:C5	2.99	0.51
9:I:1075:U:H2'	9:I:1076:G:O4'	2.10	0.51
9:I:1433:A:C2'	9:I:1434:G:O4'	2.57	0.51
9:I:1445:A:C2'	9:I:1446:A:O5'	2.58	0.51
9:I:1477:U:O2'	9:I:1478:A:O4'	2.21	0.51
9:I:1491:G:C2'	9:I:1492:C:H5'	2.40	0.51
9:I:1510:A:H2'	9:I:1511:C:O4'	2.11	0.51
9:I:1621:G:C5	9:I:1631:A:C5	2.99	0.51
9:I:1639:U:C1'	9:I:1641:G:H22	2.23	0.51
9:I:1671:U:H2'	9:I:1671:U:O2	2.10	0.51
9:I:1694:G:H2'	9:I:1695:A:O4'	2.10	0.51
9:I:1708:C:H2'	9:I:1709:C:C6	2.44	0.51
9:I:1753:C:H2'	9:I:1754:G:O4'	2.10	0.51
9:I:1808:G:C4'	44:t:16:LYS:NZ	2.72	0.51
9:I:1808:G:C4	9:I:1809:A:C2	2.99	0.51
9:I:1818:C:H2'	9:I:1819:G:C1'	2.39	0.51
9:I:1818:C:C2'	9:I:1819:G:C8	2.93	0.51
9:I:1877:G:H2'	9:I:1878:C:C5'	2.41	0.51
9:I:1886:G:H4'	9:I:1887:U:OP2	2.09	0.51
9:I:1897:U:C2	9:I:1898:C:C5	2.99	0.51
9:I:2049:G:H5''	9:I:2050:C:C5	2.46	0.51
9:I:2150:C:C4	9:I:2151:G:C8	2.98	0.51
9:I:2504:A:H3'	9:I:2504:A:H8	1.76	0.51
9:I:2630:G:C2	9:I:2631:G:C4	2.99	0.51
9:I:2646:C:H5''	40:p:79:ILE:CB	2.36	0.51
9:I:2699:A:C6	13:M:165:HIS:CG	2.99	0.51
9:I:2857:C:O3'	47:w:49:ARG:NH2	2.41	0.51
9:I:2901:G:H3'	9:I:2902:G:H8	1.74	0.51
9:I:2957:C:O2'	9:I:2958:G:H5'	2.11	0.51
9:I:3163:A:H5''	9:I:4044:G:OP1	2.11	0.51
9:I:3267:A:C2	9:I:3268:C:H1'	2.45	0.51
9:I:3312:U:H5''	11:K:155:ARG:O	2.10	0.51
9:I:3334:G:C4	9:I:3335:U:C5	2.98	0.51
9:I:3825:G:N2	9:I:3830:A:C1'	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4042:U:C1'	17:S:23:LYS:NZ	2.74	0.51
9:I:4167:G:C3'	9:I:4168:G:C8	2.93	0.51
9:I:4217:C:C4	9:I:4218:U:C5	2.97	0.51
9:I:4287:C:H2'	9:I:4288:C:H1'	1.92	0.51
10:J:17:G:C6	10:J:64:U:N3	2.77	0.51
10:J:65:A:C8	10:J:107:A:N6	2.78	0.51
11:K:170:TYR:HB3	11:K:184:GLU:HA	1.90	0.51
11:K:260:LYS:H	11:K:263:ASP:CG	2.18	0.51
12:L:5:VAL:HG13	12:L:201:LEU:C	2.35	0.51
12:L:108:ASP:CB	12:L:204:LYS:H	2.24	0.51
12:L:151:THR:HG22	12:L:152:PRO:N	2.26	0.51
13:M:108:ILE:HG13	13:M:109:LEU:H	1.73	0.51
14:N:33:ILE:CG1	14:N:155:ILE:HG12	2.22	0.51
17:S:18:ARG:HB3	17:S:45:GLU:HG3	1.91	0.51
17:S:41:ILE:O	17:S:58:LEU:O	2.27	0.51
17:S:69:VAL:O	17:S:69:VAL:HG23	2.09	0.51
19:U:24:THR:O	19:U:24:THR:HG22	2.10	0.51
19:U:43:ALA:O	19:U:46:ILE:CA	2.57	0.51
20:V:2:ARG:O	20:V:2:ARG:CG	2.49	0.51
20:V:54:LEU:HD23	20:V:54:LEU:C	2.36	0.51
22:X:37:LYS:CB	22:X:93:ILE:HG21	2.39	0.51
23:Y:97:LEU:HD22	23:Y:134:TYR:HB3	1.93	0.51
24:Z:32:ASP:CG	24:Z:36:ARG:HB3	2.36	0.51
29:e:28:THR:O	29:e:78:LYS:HE2	2.11	0.51
32:h:86:ARG:HG2	32:h:90:HIS:HD2	1.75	0.51
32:h:95:PRO:HA	32:h:108:ARG:HE	1.72	0.51
36:l:31:ILE:C	36:l:33:THR:H	2.19	0.51
38:n:52:THR:HB	38:n:64:THR:CG2	2.40	0.51
39:o:74:GLN:HB2	39:o:77:SER:HB3	1.91	0.51
40:p:42:GLY:O	40:p:45:ALA:N	2.43	0.51
40:p:77:LYS:CE	40:p:116:LEU:HD11	2.41	0.51
41:q:19:THR:HG22	41:q:97:LYS:HG3	1.92	0.51
41:q:36:ALA:HA	41:q:57:GLY:O	2.11	0.51
42:r:84:ARG:O	42:r:96:ILE:HG22	2.10	0.51
44:t:84:PHE:O	44:t:94:PHE:CE2	2.64	0.51
45:u:22:ALA:C	45:u:24:ASN:H	2.18	0.51
45:u:26:PHE:CE2	45:u:89:ILE:HG13	2.46	0.51
45:u:30:ILE:HG13	45:u:40:ILE:CD1	2.39	0.51
45:u:72:VAL:HG12	45:u:92:VAL:C	2.35	0.51
46:v:36:HIS:HB3	46:v:69:PHE:CE2	2.45	0.51
1:A:11:LYS:HD3	9:I:1216:C:C4'	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:ARG:HG2	1:A:53:ASP:OD1	2.11	0.51
1:A:56:PRO:HA	1:A:59:GLN:HG3	1.92	0.51
8:H:18:PHE:N	30:f:98:ILE:HD12	2.26	0.51
9:I:265:G:P	9:I:266:C:H41	2.32	0.51
9:I:295:U:H3	9:I:300:G:H1	1.58	0.51
9:I:337:A:C2'	9:I:338:C:H5'	2.41	0.51
9:I:376:G:O2'	9:I:377:G:O4'	2.22	0.51
9:I:454:G:H2'	9:I:455:A:O4'	2.11	0.51
9:I:693:A:H5''	30:f:43:SER:H	1.76	0.51
9:I:696:U:C1'	9:I:785:G:H1'	2.40	0.51
9:I:933:C:H4'	9:I:934:A:OP1	2.10	0.51
9:I:951:U:C3'	9:I:963:A:H61	2.24	0.51
9:I:1102:C:C5'	21:W:94:LEU:HD13	2.38	0.51
9:I:1141:G:C2'	9:I:1142:G:H5'	2.40	0.51
9:I:1482:A:C4	9:I:1483:A:C8	2.99	0.51
9:I:1611:A:C4'	48:x:58:GLU:HB2	2.40	0.51
9:I:1871:A:HO2'	9:I:1872:G:P	2.25	0.51
9:I:2715:C:H2'	9:I:2716:U:H6	1.73	0.51
9:I:3013:G:H2'	9:I:3014:U:C5'	2.41	0.51
9:I:3016:A:H8	9:I:3016:A:OP1	1.93	0.51
9:I:3209:G:H1'	9:I:3237:G:N1	2.26	0.51
9:I:3214:U:O2	9:I:3234:G:C2	2.63	0.51
9:I:3223:U:OP2	9:I:3224:C:C5	2.64	0.51
9:I:3298:C:C4	9:I:3308:G:N2	2.78	0.51
9:I:3352:A:C6	9:I:3353:U:C2	2.98	0.51
9:I:3363:G:H22	9:I:3365:A:HO2'	1.52	0.51
9:I:3692:A:C1'	9:I:3693:A:C8	2.93	0.51
9:I:3788:G:C2'	9:I:3789:C:O5'	2.57	0.51
9:I:3797:G:C4'	14:N:120:SER:HA	2.41	0.51
9:I:3809:G:O5'	9:I:3809:G:H8	1.92	0.51
9:I:3849:G:O4'	46:v:26:ILE:CD1	2.53	0.51
9:I:4024:A:O4'	9:I:4029:G:O6	2.29	0.51
9:I:4196:G:C3'	9:I:4197:C:H5	2.23	0.51
9:I:4245:G:C2	15:O:2:ARG:NE	2.77	0.51
9:I:4247:A:H3'	9:I:4248:U:C6	2.44	0.51
10:J:16:C:C2'	10:J:17:G:H8	2.22	0.51
10:J:17:G:N1	10:J:64:U:C2	2.66	0.51
11:K:57:HIS:ND1	11:K:58:LYS:O	2.41	0.51
11:K:140:VAL:HA	11:K:190:THR:O	2.11	0.51
11:K:150:GLY:CA	11:K:188:ARG:NH1	2.72	0.51
11:K:226:PRO:HG3	11:K:232:GLY:CA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:3:GLY:O	12:L:4:LEU:HD12	2.11	0.51
12:L:50:VAL:H	12:L:80:TRP:H	1.59	0.51
12:L:114:LYS:HB2	12:L:116:LYS:HE2	1.92	0.51
13:M:5:LEU:HD11	13:M:190:ALA:HB2	1.91	0.51
13:M:47:LYS:HD3	13:M:52:VAL:HG12	1.92	0.51
13:M:113:VAL:N	13:M:118:LEU:HD11	2.26	0.51
13:M:147:LEU:HB3	13:M:186:VAL:HA	1.91	0.51
14:N:26:GLN:HG2	14:N:26:GLN:O	2.09	0.51
15:O:96:ALA:HB3	15:O:103:ASN:HB2	1.93	0.51
16:R:56:VAL:O	16:R:125:TYR:HB2	2.11	0.51
17:S:41:ILE:HD13	17:S:60:ALA:HB2	1.92	0.51
19:U:30:SER:HB3	19:U:31:PHE:CE2	2.46	0.51
19:U:38:ARG:HH11	19:U:97:GLN:CG	2.19	0.51
20:V:22:ARG:HD2	20:V:69:ARG:CD	2.41	0.51
20:V:43:GLU:O	20:V:46:ARG:N	2.44	0.51
21:W:180:VAL:HG12	21:W:193:VAL:HG13	1.92	0.51
22:X:146:LYS:CE	22:X:204:GLY:HA2	2.41	0.51
28:d:76:ILE:O	28:d:80:ILE:N	2.39	0.51
29:e:5:ARG:CZ	29:e:67:LEU:HB3	2.41	0.51
29:e:30:ALA:H	29:e:74:GLU:CD	2.18	0.51
30:f:19:ILE:HG22	30:f:34:THR:HB	1.92	0.51
30:f:21:THR:HA	30:f:32:TRP:HA	1.92	0.51
37:m:4:ARG:CG	37:m:35:GLN:NE2	2.73	0.51
37:m:35:GLN:HG2	37:m:36:ARG:H	1.75	0.51
38:n:17:LEU:HD22	38:n:41:PRO:HA	1.93	0.51
39:o:29:VAL:HG11	39:o:71:ARG:HH21	1.76	0.51
39:o:44:GLY:CA	39:o:61:ARG:O	2.59	0.51
40:p:63:ARG:C	40:p:66:ALA:HB3	2.36	0.51
42:r:83:LYS:O	42:r:84:ARG:HD3	2.11	0.51
43:s:38:ALA:HB3	43:s:81:LYS:HZ1	1.74	0.51
43:s:78:SER:CB	43:s:80:TRP:CZ2	2.92	0.51
44:t:4:ILE:HG12	44:t:71:ILE:CD1	2.39	0.51
46:v:27:ILE:N	46:v:49:LEU:O	2.41	0.51
46:v:27:ILE:HD12	46:v:41:VAL:CG2	2.40	0.51
46:v:36:HIS:O	46:v:70:ILE:N	2.38	0.51
49:y:16:LEU:HD23	49:y:18:LYS:HE3	1.91	0.51
49:y:19:HIS:HA	49:y:22:THR:OG1	2.10	0.51
2:B:17:ASP:CG	2:B:18:ALA:N	2.66	0.51
2:B:66:LEU:HD11	2:B:84:LEU:CD2	2.41	0.51
6:F:62:ASP:O	6:F:65:VAL:HG23	2.11	0.51
9:I:66:C:H1'	9:I:171:A:H1'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:476:C:O5'	9:I:476:C:H6	1.93	0.51
9:I:714:A:C5'	9:I:804:C:H4'	2.40	0.51
9:I:721:G:O2'	9:I:723:G:OP1	2.27	0.51
9:I:780:A:P	9:I:799:G:H1	2.33	0.51
9:I:1372:G:H4'	26:b:33:GLY:HA2	1.93	0.51
9:I:1494:U:O2'	9:I:1495:A:H5'	2.10	0.51
9:I:1658:U:C2	9:I:1669:G:N1	2.78	0.51
9:I:1661:A:N6	9:I:1665:A:C2	2.78	0.51
9:I:1807:G:H2'	9:I:1809:A:N7	2.25	0.51
9:I:1829:G:N1	44:t:16:LYS:HG3	2.26	0.51
9:I:1874:A:C2'	9:I:1875:G:O4'	2.55	0.51
9:I:1908:G:H8	9:I:1908:G:OP2	1.93	0.51
9:I:1998:G:H2'	9:I:1999:U:C6	2.45	0.51
9:I:2053:G:C4	9:I:2054:U:C5	2.98	0.51
9:I:2081:C:H5'	40:p:30:VAL:HG13	1.92	0.51
9:I:2205:A:OP2	9:I:2225:G:N1	2.39	0.51
9:I:2350:U:H3'	9:I:2351:C:H6	1.75	0.51
9:I:2507:C:H2'	9:I:2508:A:C5'	2.40	0.51
9:I:2914:A:O3'	9:I:2915:G:H8	1.94	0.51
9:I:2933:A:OP2	9:I:2934:U:H5	1.92	0.51
9:I:2980:U:C4	9:I:2998:A:C6	2.99	0.51
9:I:3061:G:C5	11:K:25:LYS:HD3	2.44	0.51
9:I:3460:A:N3	9:I:4087:U:H4'	2.26	0.51
9:I:3586:U:H4'	9:I:3587:G:H4'	1.93	0.51
9:I:3616:U:H2'	9:I:3617:G:C8	2.44	0.51
9:I:3655:C:OP2	9:I:3655:C:H6	1.94	0.51
9:I:3824:G:C6	9:I:3825:G:C6	2.98	0.51
9:I:3841:C:H2'	9:I:3842:U:C6	2.45	0.51
9:I:3895:U:C4	9:I:3909:G:C6	2.90	0.51
9:I:3962:A:C2	9:I:3975:G:N2	2.79	0.51
9:I:4153:G:H2'	9:I:4155:G:N7	2.26	0.51
9:I:4154:A:C2'	9:I:4155:G:O5'	2.59	0.51
9:I:4186:G:H21	9:I:4342:G:H5'	1.74	0.51
9:I:4337:G:C3'	9:I:4338:G:H8	2.24	0.51
9:I:4342:G:C2'	39:o:93:LYS:HA	2.40	0.51
11:K:220:ARG:HD2	11:K:220:ARG:N	2.26	0.51
12:L:8:LYS:HB3	12:L:198:GLY:H	1.73	0.51
12:L:15:PHE:H	39:o:11:GLN:NE2	2.09	0.51
12:L:107:VAL:CA	12:L:204:LYS:O	2.55	0.51
14:N:109:ARG:O	14:N:136:ILE:CG2	2.58	0.51
15:O:86:LEU:HD13	15:O:147:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:58:ASN:HB3	16:R:60:ASP:OD1	2.09	0.51
20:V:103:ARG:N	20:V:108:ALA:O	2.43	0.51
21:W:74:SER:O	21:W:78:LYS:NZ	2.43	0.51
21:W:112:LYS:HD2	21:W:115:GLU:OE2	2.10	0.51
21:W:162:ASP:OD2	21:W:165:HIS:HB2	2.11	0.51
23:Y:98:ASP:CB	23:Y:132:ALA:HB1	2.14	0.51
23:Y:104:MET:HB3	23:Y:172:VAL:CG2	2.40	0.51
28:d:54:MET:CE	28:d:84:LEU:HD21	2.40	0.51
30:f:97:ASN:OD1	30:f:98:ILE:N	2.40	0.51
33:i:21:LEU:HB2	42:r:19:LEU:CD2	2.34	0.51
34:j:40:VAL:HG12	34:j:42:GLN:CG	2.40	0.51
38:n:29:ARG:CZ	38:n:102:VAL:HG23	2.41	0.51
41:q:4:VAL:C	41:q:12:HIS:O	2.53	0.51
41:q:58:VAL:C	41:q:102:SER:HB2	2.35	0.51
44:t:12:VAL:HA	44:t:69:VAL:HA	1.92	0.51
44:t:27:VAL:CG2	44:t:31:GLY:HA2	2.40	0.51
45:u:26:PHE:HD2	45:u:88:HIS:HA	1.74	0.51
45:u:80:HIS:HD1	45:u:85:LYS:C	2.15	0.51
46:v:13:VAL:HG22	46:v:35:PHE:CZ	2.45	0.51
49:y:6:ILE:HG23	49:y:55:LYS:O	2.11	0.51
3:C:2:VAL:HG22	3:C:3:THR:N	2.26	0.51
3:C:12:LYS:NZ	9:I:44:G:OP1	2.44	0.51
3:C:39:PHE:HE2	9:I:374:U:O3'	1.94	0.51
3:C:56:ARG:C	3:C:60:TRP:HD1	2.19	0.51
6:F:76:ARG:HB3	6:F:78:TYR:CE2	2.45	0.51
8:H:3:ILE:O	30:f:71:GLU:HA	2.10	0.51
9:I:8:G:H4'	24:Z:100:GLY:HA3	1.90	0.51
9:I:159:A:C6	9:I:342:U:O2'	2.63	0.51
9:I:413:A:H3'	9:I:414:A:C8	2.43	0.51
9:I:580:G:H1'	9:I:760:G:H22	1.74	0.51
9:I:1034:A:H5''	9:I:1035:A:OP1	2.11	0.51
9:I:1038:G:C8	9:I:1039:U:C4	2.99	0.51
9:I:1056:G:O2'	22:X:187:GLU:HG2	2.11	0.51
9:I:1465:G:N2	9:I:4186:G:C4'	2.74	0.51
9:I:1470:C:O2	9:I:1470:C:C2'	2.57	0.51
9:I:1473:G:H2'	9:I:1474:U:O5'	2.10	0.51
9:I:1548:G:C2	9:I:1678:G:C6	2.99	0.51
9:I:1572:U:O4'	48:x:53:LYS:HD2	2.11	0.51
9:I:1576:C:C2'	9:I:1577:G:O5'	2.59	0.51
9:I:1580:G:C6	9:I:1607:G:C6	2.98	0.51
9:I:1652:A:H2'	9:I:1653:U:H6	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1652:A:C4	9:I:1675:G:N2	2.78	0.51
9:I:1709:C:H2'	9:I:1710:C:C6	2.46	0.51
9:I:1762:A:C6	9:I:1763:G:N1	2.78	0.51
9:I:1770:A:N1	9:I:1869:U:O4'	2.44	0.51
9:I:1796:U:C3'	44:t:86:PHE:HE1	2.24	0.51
9:I:1811:A:N6	9:I:1828:U:C2	2.79	0.51
9:I:1879:G:N2	9:I:1896:G:C4	2.79	0.51
9:I:2222:A:H2'	9:I:2223:C:O5'	2.11	0.51
9:I:2307:U:C2	9:I:2308:G:C8	2.99	0.51
9:I:2338:C:H2'	9:I:2339:U:C6	2.46	0.51
9:I:2363:A:H1'	10:J:99:G:H1'	1.93	0.51
9:I:2499:C:C1'	9:I:2506:U:C4	2.94	0.51
9:I:2618:G:C2'	9:I:2619:G:O4'	2.58	0.51
9:I:2698:A:H1'	9:I:2700:G:C8	2.45	0.51
9:I:2883:G:H2'	9:I:2884:U:H6	1.75	0.51
9:I:3082:G:O2'	9:I:3083:U:H5'	2.11	0.51
9:I:3286:G:N1	9:I:3321:U:N3	2.18	0.51
9:I:3300:C:H2'	9:I:3301:G:C8	2.45	0.51
9:I:3333:G:C2	9:I:3334:G:C8	2.99	0.51
9:I:3429:G:C3'	9:I:3456:5MC:HN41	2.05	0.51
9:I:3572:C:H2'	9:I:3573:U:H6	1.74	0.51
9:I:3745:OMG:HM22	9:I:3745:OMG:O3'	2.11	0.51
9:I:3759:U:C6	9:I:3760:A:C8	2.99	0.51
9:I:3801:G:N2	9:I:3806:U:N3	2.58	0.51
9:I:3814:U:O2'	9:I:3816:A:N7	2.44	0.51
9:I:3842:U:C2	34:j:36:PHE:HE2	2.29	0.51
9:I:3858:C:O2'	9:I:3859:G:H5'	2.11	0.51
9:I:3879:C:C2	9:I:3880:A:C5	2.98	0.51
9:I:3961:C:H5'	37:m:8:LYS:NZ	2.26	0.51
9:I:4042:U:H1'	17:S:23:LYS:NZ	2.26	0.51
9:I:4129:A:H2'	9:I:4130:C:O5'	2.11	0.51
9:I:4171:G:C2	9:I:4172:C:C4	2.98	0.51
9:I:4231:G:C2'	9:I:4232:A:O4'	2.57	0.51
9:I:4233:U:C4	9:I:4258:A:N7	2.79	0.51
9:I:4311:U:H2'	9:I:4312:U:O5'	2.11	0.51
9:I:4338:G:H21	9:I:4339:U:H5	1.58	0.51
9:I:4344:A:C6	9:I:4345:A:C6	2.98	0.51
10:J:14:A:P	10:J:107:A:H5'	2.49	0.51
10:J:32:G:C2	10:J:49:A:C6	2.98	0.51
10:J:38:A:N1	10:J:43:G:C5	2.79	0.51
10:J:63:G:C2	10:J:64:U:H1'	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:131:MET:HE2	11:K:188:ARG:C	2.36	0.51
12:L:24:VAL:HB	12:L:188:LEU:C	2.33	0.51
13:M:145:ASP:O	13:M:185:LYS:N	2.43	0.51
14:N:121:PHE:O	14:N:122:ASP:OD1	2.28	0.51
15:O:14:VAL:HG13	15:O:26:LYS:C	2.36	0.51
15:O:138:GLN:O	15:O:142:GLN:N	2.41	0.51
17:S:10:VAL:HG21	17:S:17:ARG:HD3	1.91	0.51
17:S:20:MET:HB3	17:S:44:LYS:HZ2	1.74	0.51
18:T:73:ILE:O	18:T:107:PHE:N	2.39	0.51
18:T:78:ARG:O	18:T:82:LEU:HD23	2.10	0.51
20:V:9:GLN:C	20:V:12:ARG:NH1	2.69	0.51
20:V:18:GLN:O	20:V:22:ARG:CD	2.53	0.51
20:V:38:LEU:HG	20:V:42:LYS:CG	2.27	0.51
20:V:103:ARG:CA	20:V:110:MET:HE3	2.39	0.51
21:W:105:ARG:HA	21:W:108:ILE:CG1	2.40	0.51
27:c:107:LYS:HA	27:c:107:LYS:CE	2.40	0.51
28:d:64:VAL:HG21	28:d:72:GLN:HB3	1.92	0.51
30:f:14:SER:OG	30:f:17:ASN:O	2.29	0.51
31:g:30:ARG:HA	31:g:79:ILE:O	2.09	0.51
36:l:15:LYS:HD2	36:l:16:THR:O	2.09	0.51
41:q:6:GLN:HG3	41:q:10:LYS:N	2.26	0.51
42:r:48:LYS:O	42:r:52:GLU:HG3	2.10	0.51
42:r:81:SER:O	42:r:82:MET:HE2	2.10	0.51
45:u:25:LYS:HD2	45:u:42:LEU:C	2.36	0.51
45:u:27:PRO:CB	45:u:88:HIS:HD2	2.24	0.51
48:x:13:LEU:O	48:x:17:LEU:HG	2.11	0.51
49:y:26:LEU:CD2	49:y:43:ILE:CG2	2.89	0.51
1:A:2:LYS:HB3	9:I:1214:G:O2'	2.11	0.51
1:A:62:ARG:CG	9:I:980:U:H4'	2.29	0.51
3:C:72:ALA:O	3:C:76:LYS:HG2	2.11	0.51
8:H:18:PHE:CE1	30:f:72:VAL:HG12	2.46	0.51
9:I:121:G:H2'	9:I:122:U:C5	2.46	0.51
9:I:599:A:P	27:c:87:ARG:HD2	2.51	0.51
9:I:642:C:C2	9:I:643:U:C5	2.98	0.51
9:I:1082:U:O2'	9:I:1101:A:OP2	2.23	0.51
9:I:1165:G:C5	9:I:1167:U:H5''	2.44	0.51
9:I:1185:G:H4'	28:d:109:GLU:CD	2.36	0.51
9:I:1209:C:O4'	9:I:1213:C:N4	2.44	0.51
9:I:1231:U:H5''	28:d:123:GLN:O	2.11	0.51
9:I:1235:A:H4'	9:I:1303:G:H4'	1.93	0.51
9:I:1359:A:H2'	9:I:1360:G:O4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1567:U:H2'	9:I:1568:G:C5'	2.40	0.51
9:I:1576:C:O2	48:x:54:THR:CG2	2.58	0.51
9:I:1584:A:OP2	44:t:6:ARG:NH2	2.44	0.51
9:I:1772:A:C4	9:I:1866:C:C2	2.99	0.51
9:I:1778:A:N1	9:I:1861:G:C2'	2.74	0.51
9:I:1812:G:C2'	9:I:1813:G:C8	2.94	0.51
9:I:1817:G:H2'	9:I:1818:C:H5'	1.93	0.51
9:I:1854:A:N1	9:I:1855:U:H1'	2.25	0.51
9:I:1870:G:N1	9:I:1924:G:C8	2.78	0.51
9:I:1979:A:C1'	9:I:1981:G:H5''	2.41	0.51
9:I:2039:G:N1	9:I:2054:U:C2	2.77	0.51
9:I:2076:U:C2	9:I:2077:G:N7	2.79	0.51
9:I:2104:G:C6	9:I:2105:G:C6	2.99	0.51
9:I:2140:C:C4	9:I:2141:U:C4	2.99	0.51
9:I:2148:G:N1	9:I:2149:G:C6	2.78	0.51
9:I:2203:U:C5	9:I:2204:G:C6	2.99	0.51
9:I:2352:U:C5'	49:y:42:ALA:HA	2.25	0.51
9:I:2362:G:H21	10:J:99:G:H1'	1.75	0.51
9:I:2373:C:H2'	9:I:2373:C:O2	2.11	0.51
9:I:2474:A:C2	9:I:2630:G:H4'	2.45	0.51
9:I:2614:G:C5	9:I:2615:C:C4	2.99	0.51
9:I:2635:U:O5'	16:R:65:THR:HG21	2.11	0.51
9:I:2782:G:N2	9:I:2821:A:C2	2.79	0.51
9:I:3061:G:C5	11:K:25:LYS:HA	2.45	0.51
9:I:3092:A:H5''	9:I:3093:U:OP2	2.11	0.51
9:I:3203:U:C4	9:I:3244:G:N1	2.79	0.51
9:I:3285:A:C4'	11:K:204:LEU:HB2	2.40	0.51
9:I:3339:G:H2'	9:I:3340:G:O5'	2.10	0.51
9:I:3669:C:H2'	9:I:3670:A:C8	2.43	0.51
9:I:3691:U:P	9:I:3718:G:O6	2.69	0.51
9:I:3777:C:C4	9:I:3883:G:C4	2.99	0.51
9:I:4010:A:C6	9:I:4011:C:C4	2.99	0.51
9:I:4151:A:H1'	9:I:4159:A:C6	2.46	0.51
9:I:4238:G:N1	9:I:4239:C:C6	2.79	0.51
9:I:4241:G:C1'	9:I:4251:A:N6	2.72	0.51
9:I:4242:A:C5'	9:I:4247:A:N7	2.74	0.51
9:I:4245:G:OP2	15:O:2:ARG:NH2	2.43	0.51
9:I:4252:A:C1'	15:O:63:GLN:NE2	2.67	0.51
10:J:7:C:O2'	38:n:43:GLY:O	2.29	0.51
10:J:8:G:H2'	10:J:9:G:H8	1.75	0.51
11:K:140:VAL:HG22	11:K:191:LEU:CA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:172:THR:HG23	11:K:181:ARG:C	2.36	0.51
11:K:250:GLN:O	11:K:254:LYS:HD2	2.11	0.51
12:L:8:LYS:O	12:L:9:VAL:C	2.52	0.51
12:L:104:VAL:CG1	12:L:105:LYS:N	2.74	0.51
13:M:23:PHE:H	13:M:114:ARG:HH22	1.59	0.51
13:M:143:LEU:CD1	13:M:146:VAL:HG11	2.28	0.51
15:O:51:PHE:CD2	15:O:64:ALA:O	2.63	0.51
15:O:86:LEU:CD1	15:O:144:ALA:HB1	2.41	0.51
16:R:114:LEU:HG	16:R:118:MET:CE	2.37	0.51
18:T:108:ALA:HB3	18:T:125:LEU:HD23	1.89	0.51
19:U:34:LYS:HD3	45:u:82:TYR:HA	1.93	0.51
21:W:108:ILE:HD12	21:W:148:ILE:HG13	1.93	0.51
22:X:153:SER:HG	22:X:164:THR:HG1	1.56	0.51
22:X:168:ARG:HH12	22:X:172:VAL:HG11	1.76	0.51
24:Z:81:THR:HG22	24:Z:82:GLY:N	2.26	0.51
26:b:70:PRO:HG3	26:b:98:LEU:CB	2.37	0.51
27:c:110:MET:HG3	27:c:111:THR:N	2.26	0.51
31:g:87:LYS:C	31:g:88:D2T:H7	2.36	0.51
32:h:21:ILE:HG21	32:h:24:VAL:HG22	1.92	0.51
32:h:24:VAL:HA	32:h:28:ARG:HB2	1.93	0.51
34:j:10:SER:HB2	34:j:37:ASP:OD2	2.10	0.51
38:n:30:THR:OG1	38:n:35:TYR:HE1	1.94	0.51
40:p:8:ILE:O	40:p:11:ALA:HB3	2.10	0.51
44:t:22:GLY:HA2	44:t:36:GLU:O	2.11	0.51
44:t:66:VAL:O	44:t:69:VAL:O	2.28	0.51
46:v:37:ALA:HB2	46:v:41:VAL:HG12	1.93	0.51
1:A:6:LYS:N	9:I:1215:A:O3'	2.44	0.51
1:A:58:ARG:HD3	9:I:1218:A:OP1	2.11	0.51
4:D:42:HIS:HB2	9:I:253:G:O5'	2.11	0.51
8:H:1:PRO:CD	30:f:101:VAL:HG12	2.41	0.51
9:I:49:A:H1'	9:I:51:C:C1'	2.41	0.51
9:I:259:G:OP2	9:I:259:G:C8	2.63	0.51
9:I:343:A:O5'	9:I:344:C:H5	1.94	0.51
9:I:391:C:O4'	9:I:481:A:H2	1.94	0.51
9:I:778:C:H3'	9:I:779:A:N7	2.25	0.51
9:I:875:C:O4'	27:c:11:THR:OG1	2.28	0.51
9:I:940:G:O2'	9:I:1349:A:H5''	2.11	0.51
9:I:974:A:N1	9:I:1365:C:H1'	2.26	0.51
9:I:1080:A:N7	24:Z:43:LYS:NZ	2.56	0.51
9:I:1105:G:H5''	22:X:171:ARG:HD3	1.92	0.51
9:I:1165:G:O2'	9:I:1168:A:N6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1226:A:H2	9:I:1227:C:O4'	1.93	0.51
9:I:1332:A:H2'	9:I:1333:G:C8	2.45	0.51
9:I:1373:A:H1'	26:b:30:MET:HE2	1.92	0.51
9:I:1582:U:O3'	9:I:1601:A:N6	2.44	0.51
9:I:1590:U:O5'	9:I:1591:A:O2'	2.29	0.51
9:I:1602:U:O4	48:x:2:ALA:CB	2.59	0.51
9:I:1642:A:N3	43:s:1:MET:HA	2.26	0.51
9:I:1691:A:O2'	9:I:1692:C:O5'	2.28	0.51
9:I:1790:U:O2	9:I:1850:G:C2	2.63	0.51
9:I:1807:G:C2	9:I:1809:A:H3'	2.46	0.51
9:I:1988:G:N1	9:I:1991:G:OP2	2.44	0.51
9:I:2168:A:H2'	9:I:2170:A:N6	2.21	0.51
9:I:2496:G:C6	9:I:2648:G:N2	2.79	0.51
9:I:2525:G:N2	37:m:37:GLN:HE22	2.09	0.51
9:I:2587:G:N2	9:I:2592:A:N6	2.15	0.51
9:I:3189:G:N2	9:I:3190:G:N7	2.59	0.51
9:I:3233:A:P	9:I:3234:G:N7	2.83	0.51
9:I:3267:A:H2'	9:I:3268:C:O4'	2.11	0.51
9:I:3301:G:C2'	9:I:3302:A:H5'	2.41	0.51
9:I:3430:A:H5''	9:I:3431:A:H5'	1.93	0.51
9:I:3708:C:H2'	9:I:3709:C:C5'	2.40	0.51
9:I:3788:G:C4	9:I:3833:C:C4	2.99	0.51
9:I:3824:G:C6	9:I:3825:G:C5	2.99	0.51
9:I:3870:A:N3	38:n:110:ARG:NH2	2.59	0.51
9:I:3879:C:C2'	9:I:3880:A:O4'	2.59	0.51
9:I:3913:U:OP1	34:j:19:THR:N	2.44	0.51
9:I:3989:G:C2'	9:I:3990:C:O5'	2.59	0.51
9:I:4018:G:C5	9:I:4019:G:C8	2.99	0.51
9:I:4139:G:C1'	9:I:4227:A:OP1	2.59	0.51
9:I:4173:A:C4'	12:L:194:PRO:HD3	2.38	0.51
9:I:4212:G:H21	9:I:4341:U:H5'	1.74	0.51
9:I:4230:A:O2'	9:I:4231:G:H5'	2.10	0.51
9:I:4240:U:P	15:O:141:GLY:HA3	2.50	0.51
9:I:4278:U:O3'	12:L:42:ASN:ND2	2.41	0.51
9:I:4425:C:O2'	9:I:4426:U:H5'	2.11	0.51
10:J:4:U:H2'	10:J:4:U:O2	2.10	0.51
10:J:41:C:C5	14:N:65:LEU:HB2	2.46	0.51
10:J:47:U:OP1	38:n:96:PHE:HD1	1.94	0.51
10:J:60:G:H2'	10:J:60:G:N3	2.25	0.51
10:J:70:C:C2	10:J:105:G:N2	2.79	0.51
11:K:76:VAL:HG22	11:K:77:VAL:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:119:VAL:N	11:K:129:LEU:HB2	2.26	0.51
11:K:140:VAL:HG22	11:K:191:LEU:HD13	1.91	0.51
12:L:34:VAL:HG21	12:L:48:ILE:HD12	1.92	0.51
12:L:106:LYS:HB2	12:L:206:ALA:HB2	1.93	0.51
13:M:5:LEU:HA	13:M:120:VAL:CG2	2.41	0.51
14:N:62:GLN:CD	14:N:90:LEU:HD23	2.36	0.51
19:U:101:VAL:CG1	19:U:104:GLU:OE2	2.59	0.51
19:U:119:LEU:C	19:U:123:LYS:HG2	2.36	0.51
20:V:38:LEU:HB3	20:V:39:PRO:HD3	1.92	0.51
21:W:43:THR:CA	21:W:198:PRO:HG2	2.41	0.51
23:Y:52:VAL:O	23:Y:55:ARG:HG3	2.11	0.51
26:b:11:ILE:HD12	26:b:11:ILE:H	1.76	0.51
28:d:17:PHE:HD2	28:d:61:TYR:CD2	2.27	0.51
31:g:3:VAL:HG13	31:g:4:ASN:N	2.26	0.51
32:h:26:LYS:HD2	32:h:26:LYS:H	1.76	0.51
38:n:45:GLU:CD	38:n:47:LEU:HD21	2.36	0.51
43:s:11:LEU:CD2	48:x:25:PHE:HE1	2.23	0.51
44:t:14:THR:O	44:t:65:GLN:NE2	2.44	0.51
44:t:44:HIS:HA	44:t:57:ILE:HG12	1.93	0.51
47:w:71:ARG:C	47:w:74:GLY:H	2.19	0.51
47:w:76:LYS:HG3	47:w:77:TYR:N	2.26	0.51
1:A:4:SER:OG	9:I:1214:G:O5'	2.29	0.51
1:A:84:ARG:NE	9:I:1058:C:H2'	2.26	0.51
2:B:28:VAL:HG11	2:B:84:LEU:CD2	2.41	0.51
3:C:60:TRP:C	9:I:226:G:H21	2.06	0.51
4:D:42:HIS:NE2	9:I:275:G:C5'	2.74	0.51
6:F:9:ILE:HA	6:F:36:SER:HA	1.92	0.51
6:F:38:ILE:HD11	6:F:69:LEU:CD2	2.41	0.51
7:G:8:ARG:NH1	9:I:328:A:N6	2.59	0.51
8:H:18:PHE:HB3	30:f:85:ILE:HD13	1.93	0.51
8:H:34:ARG:NH1	9:I:676:U:O4'	2.43	0.51
9:I:122:U:H5''	9:I:310:C:O2'	2.11	0.51
9:I:345:G:C2'	9:I:346:G:H5'	2.40	0.51
9:I:541:G:H2'	9:I:542:U:H6	1.76	0.51
9:I:719:C:C2'	9:I:720:G:C8	2.92	0.51
9:I:742:A:C2'	9:I:743:C:H6	2.22	0.51
9:I:758:A:H2'	9:I:759:G:H5'	1.93	0.51
9:I:1476:C:C4	9:I:1477:U:C4	2.99	0.51
9:I:1479:A:H3'	9:I:4326:U:C4	2.45	0.51
9:I:1577:G:C6	9:I:1610:G:C5	2.99	0.51
9:I:1797:G:H2'	9:I:1798:G:C8	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1806:U:C2'	9:I:1807:G:C1'	2.82	0.51
9:I:1848:A:H2'	9:I:1849:U:C6	2.46	0.51
9:I:1882:A:C2	9:I:1893:C:N3	2.79	0.51
9:I:1967:G:C2	9:I:1968:G:C8	2.99	0.51
9:I:1969:G:HO2'	9:I:1970:A:P	2.34	0.51
9:I:1986:C:H4'	42:r:60:HIS:CG	2.45	0.51
9:I:1992:A:C4	9:I:1993:G:C8	2.99	0.51
9:I:2135:C:OP2	18:T:126:ARG:CZ	2.59	0.51
9:I:2157:U:H2'	9:I:2158:U:C6	2.46	0.51
9:I:2166:A:O2'	9:I:2167:U:H5'	2.10	0.51
9:I:2274:G:P	11:K:47:ARG:HH12	2.33	0.51
9:I:2359:G:N2	9:I:2410:G:C8	2.79	0.51
9:I:2444:G:H2'	9:I:2445:C:C6	2.45	0.51
9:I:2790:G:H2'	9:I:2791:C:C6	2.46	0.51
9:I:2950:G:H3'	9:I:2951:U:C6	2.46	0.51
9:I:2976:G:C2'	9:I:2977:G:O5'	2.59	0.51
9:I:2990:A:H8	9:I:2990:A:OP2	1.94	0.51
9:I:3015:G:C5'	9:I:3017:U:C5	2.80	0.51
9:I:3122:G:C6	9:I:3133:C:N3	2.78	0.51
9:I:3350:U:O2'	9:I:3351:G:H5'	2.11	0.51
9:I:3495:C:H1'	9:I:4183:U:C4	2.46	0.51
9:I:3520:U:C4	9:I:3521:G:N7	2.79	0.51
9:I:3541:C:O2'	9:I:3542:G:H5'	2.11	0.51
9:I:3850:U:H5''	46:v:10:ARG:HH21	1.76	0.51
9:I:4032:C:C2	9:I:4033:C:C5	2.99	0.51
9:I:4129:A:C1'	12:L:49:GLN:HE21	2.22	0.51
9:I:4177:C:OP1	39:o:55:HIS:HB3	2.11	0.51
9:I:4243:A:P	9:I:4245:G:H5''	2.49	0.51
9:I:4370:C:H2'	9:I:4371:C:O4'	2.11	0.51
10:J:22:G:C8	10:J:22:G:C3'	2.94	0.51
10:J:33:A:O2'	10:J:35:C:H5	1.94	0.51
10:J:58:A:H2'	10:J:59:C:C5	2.44	0.51
10:J:65:A:C4	10:J:106:G:C6	2.99	0.51
11:K:2:VAL:HG13	11:K:17:LYS:O	2.11	0.51
11:K:66:PHE:O	11:K:68:ARG:NH1	2.37	0.51
12:L:48:ILE:CG2	12:L:90:PHE:CB	2.89	0.51
14:N:7:TYR:CZ	14:N:29:ARG:HD2	2.46	0.51
15:O:18:ILE:HA	15:O:22:VAL:O	2.10	0.51
16:R:59:ALA:HB3	16:R:126:ALA:CA	2.41	0.51
16:R:129:GLU:CG	16:R:130:HIS:N	2.69	0.51
18:T:57:LEU:HD23	18:T:57:LEU:C	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:91:ASP:HB2	18:T:93:ASN:H	1.76	0.51
19:U:34:LYS:CE	19:U:101:VAL:HG22	2.34	0.51
19:U:95:LEU:C	19:U:96:ILE:HD13	2.35	0.51
19:U:133:LYS:HD2	19:U:134:THR:C	2.36	0.51
20:V:36:THR:N	20:V:111:ALA:O	2.37	0.51
25:a:67:PRO:HD2	25:a:70:VAL:CG2	2.41	0.51
27:c:13:ILE:HG22	27:c:17:GLN:HE21	1.76	0.51
27:c:87:ARG:O	27:c:121:GLY:N	2.44	0.51
28:d:20:PRO:HA	28:d:58:LEU:HA	1.93	0.51
28:d:81:THR:CG2	28:d:100:PHE:HB3	2.35	0.51
29:e:11:HIS:HA	29:e:66:HIS:CD2	2.46	0.51
31:g:20:VAL:HG22	31:g:23:LEU:CB	2.41	0.51
31:g:49:ARG:HG3	31:g:89:LEU:HD21	1.92	0.51
32:h:90:HIS:CD2	32:h:96:VAL:HG11	2.46	0.51
37:m:24:ARG:NH1	37:m:36:ARG:HD2	2.26	0.51
39:o:21:PRO:O	39:o:91:VAL:HB	2.11	0.51
39:o:21:PRO:O	39:o:96:LEU:CD1	2.59	0.51
40:p:60:TRP:CG	40:p:92:LYS:HA	2.45	0.51
44:t:9:GLU:O	44:t:71:ILE:HA	2.11	0.51
44:t:44:HIS:HD2	44:t:57:ILE:HG23	1.76	0.51
46:v:37:ALA:HB1	46:v:41:VAL:O	2.11	0.51
2:B:14:PHE:HD2	2:B:25:GLU:HB3	1.77	0.50
2:B:24:THR:HG21	2:B:69:LEU:CD2	2.41	0.50
2:B:59:VAL:HG11	9:I:2215:A:C8	2.45	0.50
4:D:12:ASP:HA	4:D:19:VAL:CB	2.41	0.50
6:F:9:ILE:HG13	6:F:37:THR:N	2.15	0.50
8:H:39:LYS:HD3	9:I:4428:C:H3'	1.90	0.50
9:I:48:U:O2	9:I:361:G:H1'	2.11	0.50
9:I:59:A:N6	9:I:109:C:C5	2.78	0.50
9:I:520:G:P	31:g:69:GLU:HG2	2.52	0.50
9:I:829:G:H5''	21:W:20:TRP:CD1	2.46	0.50
9:I:1041:A:H2'	9:I:1042:G:C1'	2.41	0.50
9:I:1073:G:H4'	21:W:99:THR:C	2.36	0.50
9:I:1115:U:N3	9:I:1184:G:O6	2.44	0.50
9:I:1144:A:O2'	9:I:1145:A:H8	1.94	0.50
9:I:1400:G:H2'	9:I:1401:4OC:O4'	2.10	0.50
9:I:1709:C:H2'	9:I:1710:C:H6	1.75	0.50
9:I:1723:A:N1	9:I:1922:A:C2	2.79	0.50
9:I:1762:A:C3'	9:I:1763:G:C8	2.91	0.50
9:I:1773:G:H1'	9:I:1865:U:O2	2.11	0.50
9:I:1810:A:C4	9:I:1812:G:C5	2.98	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1819:G:C2'	9:I:1820:A:C8	2.91	0.50
9:I:1821:U:H3	9:I:1841:C:H4'	1.75	0.50
9:I:1874:A:C8	9:I:1901:A:N6	2.79	0.50
9:I:2145:C:H5'	9:I:2147:G:C5	2.45	0.50
9:I:2488:C:O2'	41:q:10:LYS:CD	2.59	0.50
9:I:2528:G:O2'	9:I:2529:U:H5'	2.11	0.50
9:I:2726:G:H2'	9:I:2727:C:C6	2.46	0.50
9:I:2829:C:O2'	9:I:2830:A:H5'	2.11	0.50
9:I:2903:U:H2'	9:I:2904:G:H8	1.76	0.50
9:I:3380:U:H2'	9:I:3381:C:H6	1.75	0.50
9:I:3693:A:C2'	9:I:3694:C:C5'	2.89	0.50
9:I:3772:A:C2	9:I:3773:G:H1'	2.46	0.50
9:I:3784:G:C2	9:I:3837:U:H1'	2.45	0.50
9:I:3792:A:H4'	9:I:3816:A:H4'	1.92	0.50
9:I:3864:G:C6	9:I:3865:G:C6	2.99	0.50
9:I:3962:A:C2	9:I:3975:G:C2	2.99	0.50
9:I:4001:C:C2	9:I:4077:G:C6	2.99	0.50
9:I:4138:G:HO2'	9:I:4139:G:C1'	2.18	0.50
9:I:4315:A:C4'	12:L:167:ASN:HD21	2.24	0.50
9:I:4329:A:O4'	9:I:4330:U:H5	1.94	0.50
9:I:4338:G:H8	9:I:4338:G:P	2.33	0.50
10:J:46:C:O2'	38:n:97:GLN:HB2	2.09	0.50
10:J:74:G:C5	10:J:75:G:C8	2.99	0.50
10:J:111:G:C3'	10:J:112:C:H6	2.22	0.50
12:L:169:ARG:HG2	12:L:170:VAL:N	2.24	0.50
13:M:47:LYS:HB3	13:M:52:VAL:CG1	2.42	0.50
13:M:147:LEU:O	13:M:186:VAL:HA	2.11	0.50
14:N:39:VAL:HG23	14:N:147:ARG:NH2	2.26	0.50
15:O:32:LEU:O	15:O:74:MET:HE3	2.12	0.50
15:O:106:LEU:HD13	15:O:151:ARG:NH2	2.21	0.50
17:S:25:LEU:HG	17:S:38:ILE:C	2.36	0.50
18:T:108:ALA:O	18:T:125:LEU:HA	2.10	0.50
20:V:29:VAL:HG12	20:V:78:LYS:HZ3	1.75	0.50
23:Y:86:GLY:O	23:Y:90:LEU:HG	2.10	0.50
23:Y:97:LEU:O	23:Y:101:VAL:HG23	2.10	0.50
23:Y:200:VAL:O	23:Y:203:TYR:HB2	2.11	0.50
24:Z:26:ALA:O	24:Z:54:ALA:HB2	2.10	0.50
24:Z:132:ILE:HD12	24:Z:132:ILE:H	1.76	0.50
25:a:8:PHE:HB3	25:a:87:SER:CB	2.32	0.50
29:e:25:ALA:HB2	29:e:83:LEU:CD1	2.41	0.50
32:h:78:ARG:HG2	32:h:82:LEU:HG	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:h:79:LEU:HB3	32:h:84:CYS:SG	2.51	0.50
32:h:84:CYS:SG	32:h:87:GLY:N	2.72	0.50
32:h:95:PRO:CD	32:h:101:THR:HG22	2.41	0.50
39:o:61:ARG:NE	39:o:99:LEU:O	2.44	0.50
40:p:78:PHE:HE1	40:p:109:VAL:CG2	2.24	0.50
41:q:5:PHE:HB2	41:q:37:GLU:O	2.11	0.50
42:r:65:ASP:C	42:r:67:ASP:H	2.19	0.50
44:t:4:ILE:HA	44:t:93:ARG:HH12	1.76	0.50
45:u:4:ILE:HG13	45:u:50:MET:HG3	1.93	0.50
47:w:61:LYS:HA	47:w:61:LYS:CE	2.41	0.50
48:x:19:ASN:O	48:x:22:ARG:HG3	2.11	0.50
49:y:5:LYS:CE	49:y:34:THR:CG2	2.89	0.50
49:y:26:LEU:HB3	49:y:28:LEU:HD13	1.92	0.50
1:A:30:ILE:HG23	1:A:41:TRP:CH2	2.46	0.50
1:A:44:VAL:O	1:A:47:LEU:HB3	2.11	0.50
1:A:52:ARG:HD3	9:I:1218:A:C4'	2.41	0.50
2:B:53:ARG:HE	9:I:763:C:C4'	2.24	0.50
4:D:68:LYS:HE2	9:I:253:G:C5'	2.40	0.50
7:G:73:HIS:HA	7:G:76:ASN:HD22	1.77	0.50
9:I:75:G:H2'	9:I:76:A:H8	1.72	0.50
9:I:138:A:H2'	9:I:139:U:O4'	2.11	0.50
9:I:465:A:H2'	9:I:467:A:N3	2.26	0.50
9:I:603:G:H2'	9:I:604:U:H6	1.75	0.50
9:I:827:U:C3'	9:I:828:G:H5''	2.16	0.50
9:I:975:G:H8	9:I:1357:U:H2'	1.76	0.50
9:I:1036:C:N3	9:I:1037:C:N4	2.58	0.50
9:I:1054:A:H5''	9:I:1195:A:N1	2.26	0.50
9:I:1100:A:H61	21:W:99:THR:CG2	2.24	0.50
9:I:1186:G:H5'	28:d:112:LYS:CE	2.40	0.50
9:I:1471:C:H4'	39:o:1:SER:OG	2.11	0.50
9:I:1479:A:H1'	9:I:4310:G:C1'	2.41	0.50
9:I:1564:A:H2'	9:I:1565:U:H6	1.76	0.50
9:I:1583:A:H2'	9:I:1600:U:C4	2.46	0.50
9:I:1721:A:C6	9:I:1733:A:C4	3.00	0.50
9:I:1787:G:H1'	9:I:1854:A:N3	2.27	0.50
9:I:1795:G:C2	9:I:1796:U:C6	2.99	0.50
9:I:1983:A:OP1	44:t:46:LYS:HD2	2.11	0.50
9:I:2187:C:O3'	35:k:2:LYS:NZ	2.44	0.50
9:I:2223:C:H2'	9:I:2224:U:H6	1.75	0.50
9:I:2283:A:H2'	9:I:2285:G:OP1	2.11	0.50
9:I:2466:A:C8	9:I:2467:A:C8	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2500:C:O4'	16:R:30:THR:OG1	2.20	0.50
9:I:2920:G:H1'	9:I:3066:A:H61	1.76	0.50
9:I:2990:A:H5''	9:I:2991:U:OP1	2.11	0.50
9:I:3000:U:H2'	9:I:3001:C:C6	2.46	0.50
9:I:3173:A:H2'	9:I:3173:A:N3	2.26	0.50
9:I:3225:G:C2'	9:I:3226:C:O5'	2.59	0.50
9:I:3274:A:H3'	9:I:3275:U:H2'	1.93	0.50
9:I:3313:A:C5	11:K:177:SER:CB	2.94	0.50
9:I:3363:G:C2	9:I:3367:G:C6	2.99	0.50
9:I:3368:C:H5''	9:I:3369:G:OP2	2.11	0.50
9:I:3399:C:O2'	9:I:3400:G:OP2	2.28	0.50
9:I:3435:C:C5	9:I:3459:C:C2	2.99	0.50
9:I:3445:U:C5'	17:S:54:LYS:NZ	2.74	0.50
9:I:3772:A:C2	9:I:3773:G:C1'	2.94	0.50
9:I:3797:G:H21	14:N:128:SER:HG	1.59	0.50
9:I:3797:G:P	14:N:119:LYS:HZ2	2.33	0.50
9:I:3839:G:C6	9:I:3841:C:N4	2.79	0.50
9:I:3865:G:P	9:I:3865:G:H8	2.33	0.50
9:I:4011:C:H2'	9:I:4036:A:N7	2.27	0.50
9:I:4113:C:O5'	12:L:157:LYS:HE3	2.11	0.50
9:I:4215:A:C4	9:I:4216:G:C8	2.99	0.50
9:I:4225:G:H2'	9:I:4226:G:N7	2.25	0.50
9:I:4278:U:H2'	9:I:4279:C:C5'	2.41	0.50
10:J:90:C:C2	10:J:91:C:C6	2.99	0.50
10:J:105:G:C2'	10:J:106:G:O4'	2.58	0.50
11:K:147:PRO:HB3	11:K:186:ASP:CB	2.42	0.50
12:L:46:ARG:HB3	12:L:84:LEU:CG	2.41	0.50
12:L:89:GLU:O	12:L:90:PHE:CD2	2.64	0.50
12:L:110:THR:HG23	12:L:171:THR:N	2.25	0.50
15:O:86:LEU:HD11	15:O:144:ALA:CB	2.41	0.50
17:S:24:VAL:HG13	17:S:39:ILE:HG22	1.93	0.50
17:S:70:ARG:HD3	17:S:71:ARG:H	1.73	0.50
18:T:79:LEU:HD12	18:T:114:GLY:O	2.11	0.50
19:U:82:MET:HG3	19:U:83:GLY:N	2.27	0.50
21:W:88:PHE:O	21:W:147:GLY:HA3	2.11	0.50
21:W:90:ASN:OD1	21:W:91:HIS:ND1	2.44	0.50
23:Y:57:LYS:CG	23:Y:199:ILE:HG23	2.40	0.50
23:Y:167:PRO:HB3	23:Y:170:LEU:HD12	1.93	0.50
24:Z:30:VAL:O	24:Z:30:VAL:HG23	2.10	0.50
24:Z:92:GLU:HA	24:Z:113:ASN:HD22	1.76	0.50
29:e:96:ILE:O	29:e:96:ILE:HG12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:h:7:ASN:CG	32:h:9:PRO:HD3	2.36	0.50
34:j:6:ILE:HA	34:j:50:LYS:C	2.36	0.50
34:j:19:THR:O	36:l:33:THR:CA	2.58	0.50
36:l:8:GLY:O	36:l:11:LYS:HB2	2.11	0.50
38:n:87:LYS:HG3	38:n:113:GLY:O	2.11	0.50
38:n:93:ARG:HD3	38:n:97:GLN:HA	1.92	0.50
43:s:13:ALA:O	43:s:33:LYS:CB	2.60	0.50
43:s:39:THR:HG23	43:s:42:GLU:OE1	2.11	0.50
43:s:76:ARG:HG3	43:s:76:ARG:HH11	1.76	0.50
44:t:33:VAL:O	44:t:64:ILE:N	2.42	0.50
46:v:62:LYS:NZ	46:v:71:SER:HB3	2.27	0.50
48:x:1:LYS:CE	48:x:48:ASP:O	2.59	0.50
3:C:31:ARG:HG3	9:I:310:C:H5''	1.94	0.50
3:C:46:LYS:HZ3	9:I:615:G:H21	1.59	0.50
5:E:47:SER:HA	25:a:49:TYR:CE1	2.46	0.50
7:G:26:MET:CE	7:G:59:GLN:HG3	2.41	0.50
8:H:16:ARG:O	8:H:20:ARG:HG3	2.11	0.50
9:I:78:G:H2'	9:I:79:A:C8	2.46	0.50
9:I:162:C:H2'	9:I:163:G:O4'	2.12	0.50
9:I:211:G:H2'	9:I:212:G:H8	1.75	0.50
9:I:237:A:H2'	9:I:238:U:H6	1.72	0.50
9:I:409:G:H5''	9:I:410:A:OP1	2.11	0.50
9:I:526:G7M:HN72	9:I:527:C:C5	2.46	0.50
9:I:641:A:H3'	9:I:642:C:C5	2.47	0.50
9:I:852:C:H2'	9:I:853:U:C6	2.45	0.50
9:I:1120:U:C2	9:I:1121:U:C5	2.98	0.50
9:I:1165:G:C2'	9:I:1168:A:H62	2.25	0.50
9:I:1200:A:H4'	9:I:1201:U:H5''	1.92	0.50
9:I:1259:G:OP1	9:I:1283:C:H4'	2.11	0.50
9:I:1261:C:H2'	9:I:1261:C:O2	2.12	0.50
9:I:1265:G:N2	9:I:1267:G:H8	2.08	0.50
9:I:1381:C:H2'	9:I:1381:C:O2	2.12	0.50
9:I:1465:G:H22	9:I:4186:G:C4'	2.22	0.50
9:I:1539:G:H3'	9:I:1540:U:C5	2.46	0.50
9:I:1565:U:H2'	9:I:1566:C:H6	1.76	0.50
9:I:1611:A:C5	9:I:1612:U:C4	3.00	0.50
9:I:1621:G:H5'	9:I:1649:A:H5'	1.93	0.50
9:I:1635:U:O5'	9:I:1635:U:H6	1.93	0.50
9:I:1809:A:C8	9:I:1830:A:N1	2.79	0.50
9:I:1892:U:C2	9:I:1893:C:C5	2.98	0.50
9:I:2088:U:C2	9:I:2089:U:C5	2.98	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2205:A:C2	9:I:2206:A:C4	3.00	0.50
9:I:2364:G:C2'	9:I:2365:C:C6	2.88	0.50
9:I:2509:U:O2	9:I:2509:U:H2'	2.11	0.50
9:I:2893:C:O2	9:I:2894:U:C5	2.64	0.50
9:I:2904:G:C2	9:I:2905:U:C6	2.99	0.50
9:I:2955:C:H2'	9:I:2956:C:C5	2.45	0.50
9:I:3158:A:N6	9:I:3490:C:H42	2.08	0.50
9:I:3158:A:N3	17:S:67:LYS:NZ	2.51	0.50
9:I:3165:U:C6	9:I:3167:G:OP2	2.65	0.50
9:I:3267:A:C2	11:K:13:ARG:NH1	2.79	0.50
9:I:3510:U:O2	9:I:3510:U:H2'	2.11	0.50
9:I:3601:G:O2'	9:I:3645:U:H5'	2.11	0.50
9:I:3643:U:H2'	9:I:3644:C:H6	1.75	0.50
9:I:3717:G:H3'	9:I:3718:G:C8	2.46	0.50
9:I:3742:C:H2'	9:I:3743:U:H5'	1.92	0.50
9:I:3838:U:O3'	9:I:3839:G:H3'	2.10	0.50
9:I:3838:U:C5	34:j:33:LEU:HD22	2.46	0.50
9:I:3951:PSU:O2'	9:I:3952:G:H5'	2.11	0.50
9:I:4119:G:H2'	9:I:4120:C:H6	1.74	0.50
9:I:4226:G:P	12:L:208:LYS:NZ	2.85	0.50
9:I:4235:A:N6	9:I:4257:G:O2'	2.45	0.50
9:I:4237:U:N3	9:I:4238:G:C8	2.79	0.50
9:I:4314:A:H2'	9:I:4315:A:OP1	2.11	0.50
9:I:4340:G:C6	9:I:4341:U:C5	2.99	0.50
9:I:4341:U:O4	9:I:4342:G:N1	2.44	0.50
9:I:4421:G:O6	9:I:4422:MA6:H93	2.11	0.50
9:I:4432:U:H4'	9:I:4433:G:OP1	2.11	0.50
9:I:4434:G:H2'	9:I:4435:A:H8	1.75	0.50
10:J:44:A:H3'	10:J:44:A:N3	2.26	0.50
10:J:46:C:OP2	10:J:46:C:H3'	2.10	0.50
10:J:72:A:C2	45:u:37:PRO:HG3	2.41	0.50
11:K:226:PRO:CG	11:K:233:GLY:H	2.18	0.50
12:L:4:LEU:N	12:L:101:PHE:CZ	2.79	0.50
12:L:107:VAL:HB	12:L:203:VAL:HG12	1.93	0.50
12:L:151:THR:O	12:L:152:PRO:C	2.53	0.50
13:M:108:ILE:HD13	13:M:177:PRO:CB	2.19	0.50
13:M:121:VAL:O	13:M:188:MET:O	2.29	0.50
13:M:131:THR:HB	13:M:164:LEU:HD12	1.93	0.50
14:N:95:MET:CA	14:N:98:PHE:HB3	2.33	0.50
14:N:110:ILE:CG1	14:N:136:ILE:HD12	2.40	0.50
14:N:163:GLU:HA	14:N:166:ARG:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:23:ILE:HG22	15:O:74:MET:CE	2.41	0.50
17:S:18:ARG:CG	17:S:44:LYS:HE2	2.30	0.50
18:T:109:LYS:HE2	18:T:128:THR:CG2	2.42	0.50
21:W:54:LEU:HD21	21:W:181:PHE:CD2	2.46	0.50
21:W:70:LYS:O	21:W:74:SER:HB3	2.11	0.50
21:W:102:LYS:HG3	21:W:103:THR:N	2.26	0.50
22:X:107:LYS:CD	22:X:110:LEU:HD12	2.41	0.50
23:Y:10:LEU:HB3	23:Y:62:ARG:CG	2.42	0.50
24:Z:86:PHE:O	24:Z:116:ALA:HB1	2.11	0.50
26:b:14:ASP:OD2	26:b:22:LEU:HB2	2.12	0.50
28:d:109:GLU:OE1	28:d:119:ARG:NH2	2.43	0.50
29:e:7:LYS:HG3	29:e:67:LEU:HD13	1.94	0.50
30:f:19:ILE:HA	30:f:34:THR:HA	1.92	0.50
30:f:49:PHE:HD1	30:f:52:GLN:OE1	1.94	0.50
32:h:15:VAL:HG11	32:h:40:GLU:HA	1.94	0.50
38:n:38:VAL:CG2	38:n:89:VAL:HG11	2.41	0.50
38:n:81:ALA:HB1	38:n:86:ILE:CB	2.38	0.50
39:o:50:ARG:HG3	39:o:52:ARG:HH11	1.77	0.50
41:q:46:GLU:HG2	41:q:46:GLU:O	2.11	0.50
41:q:77:PHE:CE2	41:q:79:ARG:HA	2.47	0.50
42:r:81:SER:C	42:r:82:MET:HE2	2.36	0.50
43:s:56:GLU:HG3	43:s:88:LYS:CD	2.40	0.50
44:t:40:LEU:CD2	44:t:60:LYS:HA	2.41	0.50
44:t:102:ILE:HG22	44:t:102:ILE:OXT	2.11	0.50
45:u:30:ILE:HD12	45:u:40:ILE:HG21	1.93	0.50
46:v:55:GLY:CA	46:v:75:GLU:HB3	2.38	0.50
1:A:20:PHE:O	1:A:25:GLU:HG2	2.12	0.50
2:B:10:ILE:HD13	2:B:30:LEU:CA	2.41	0.50
2:B:10:ILE:HB	2:B:30:LEU:HD21	1.92	0.50
2:B:53:ARG:CD	9:I:763:C:H4'	2.41	0.50
2:B:66:LEU:HD21	2:B:84:LEU:CD1	2.41	0.50
9:I:30:G:O4'	9:I:305:A:C2	2.64	0.50
9:I:128:A:H1'	9:I:129:A:N7	2.27	0.50
9:I:196:A:H2	9:I:197:G:N3	2.09	0.50
9:I:311:C:H2'	9:I:312:A:O4'	2.11	0.50
9:I:438:U:C4'	23:Y:119:HIS:HA	2.42	0.50
9:I:641:A:H1'	27:c:108:GLY:N	2.26	0.50
9:I:1091:A:C2	9:I:1109:A:H4'	2.46	0.50
9:I:1178:A:H2'	9:I:1179:A:C8	2.47	0.50
9:I:1259:G:H2'	9:I:1260:A:H2	1.77	0.50
9:I:1421:G:O2'	9:I:1422:G:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1562:U:O2'	9:I:1563:A:OP2	2.23	0.50
9:I:1578:U:C2	9:I:1608:G:O6	2.62	0.50
9:I:1686:G:O2'	9:I:1687:G:H5'	2.12	0.50
9:I:1716:A:C4	9:I:1717:A:C8	2.99	0.50
9:I:1808:G:C2	9:I:2001:A:C5	3.00	0.50
9:I:1845:A:O2'	9:I:1847:A:N6	2.36	0.50
9:I:1869:U:N3	9:I:1922:A:OP2	2.44	0.50
9:I:1919:U:C3'	9:I:1920:C:C6	2.94	0.50
9:I:2036:G:H2'	9:I:2037:G:C5'	2.39	0.50
9:I:2085:G:N1	9:I:2750:G:O6	2.45	0.50
9:I:2133:A:C3'	9:I:2134:C:C5'	2.88	0.50
9:I:2141:U:C3'	9:I:2142:U:C6	2.94	0.50
9:I:2146:U:C4	9:I:3845:G:H4'	2.47	0.50
9:I:2186:U:C4'	35:k:11:LYS:HZ1	2.24	0.50
9:I:2193:A:H2'	9:I:2194:U:C6	2.47	0.50
9:I:2319:A:N1	9:I:2683:A:N3	2.59	0.50
9:I:2405:A:H3'	19:U:9:PHE:CZ	2.44	0.50
9:I:2617:C:O2'	37:m:18:LYS:HE3	2.11	0.50
9:I:2816:A:H2'	9:I:2817:C:O5'	2.12	0.50
9:I:2862:G:H2'	9:I:2863:G:C8	2.45	0.50
9:I:2934:U:C3'	9:I:2935:G:H8	2.25	0.50
9:I:3008:G:H4'	9:I:3051:C:O3'	2.12	0.50
9:I:3079:C:C2'	9:I:3080:A:H5'	2.41	0.50
9:I:3160:G:H5'	17:S:82:ASN:ND2	2.27	0.50
9:I:3210:U:O2'	9:I:3211:A:H5'	2.11	0.50
9:I:3292:U:C2	9:I:3313:A:C2	2.99	0.50
9:I:3317:G:C2	9:I:3318:G:C8	3.00	0.50
9:I:3395:A:C6	9:I:3396:C:C4	2.99	0.50
9:I:3403:C:O2	9:I:3403:C:H2'	2.12	0.50
9:I:3436:C:O5'	9:I:3437:U:H2'	2.11	0.50
9:I:3486:G:C2	9:I:3491:C:C4	3.00	0.50
9:I:3584:A:C2'	9:I:3585:C:O5'	2.59	0.50
9:I:3692:A:H1'	9:I:3693:A:C8	2.43	0.50
9:I:3730:U:C2'	9:I:3731:G:H5'	2.41	0.50
9:I:3772:A:H5'	19:U:10:ARG:HH22	1.77	0.50
9:I:3807:C:C2	14:N:152:ASP:OD2	2.64	0.50
9:I:3889:C:H2'	9:I:3890:G:O4'	2.11	0.50
9:I:3898:U:C5	9:I:3908:G:N1	2.80	0.50
9:I:4216:G:C6	9:I:4217:C:C4	3.00	0.50
10:J:67:C:C2'	10:J:68:G:H5'	2.40	0.50
10:J:105:G:C3'	10:J:106:G:C8	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:95:TYR:CD2	11:K:100:ARG:O	2.64	0.50
11:K:140:VAL:CG1	11:K:190:THR:N	2.75	0.50
11:K:198:GLU:C	11:K:201:LEU:HD13	2.36	0.50
12:L:12:THR:CG2	12:L:14:ILE:HD11	2.41	0.50
12:L:178:VAL:CG2	12:L:190:LYS:HB3	2.42	0.50
13:M:47:LYS:HB3	13:M:52:VAL:HG12	1.93	0.50
13:M:147:LEU:CD2	13:M:186:VAL:HG13	2.41	0.50
13:M:169:VAL:HG12	13:M:170:ARG:N	2.25	0.50
14:N:11:VAL:O	14:N:15:LEU:N	2.43	0.50
16:R:3:THR:HG22	16:R:4:PHE:H	1.75	0.50
16:R:31:GLU:HB3	16:R:142:ILE:HG13	1.89	0.50
16:R:125:TYR:CZ	16:R:130:HIS:HB2	2.46	0.50
17:S:105:ARG:CZ	17:S:122:VAL:HG22	2.41	0.50
22:X:172:VAL:HG12	22:X:174:LEU:CD1	2.35	0.50
24:Z:7:ILE:CB	24:Z:27:LEU:HD23	2.31	0.50
25:a:5:GLU:O	25:a:89:VAL:HA	2.12	0.50
28:d:19:LYS:HD3	28:d:20:PRO:HD2	1.93	0.50
32:h:89:ARG:CG	32:h:96:VAL:HG22	2.37	0.50
32:h:93:GLY:C	32:h:94:LEU:HD22	2.37	0.50
36:l:61:LEU:HB3	36:l:64:ALA:HB2	1.94	0.50
39:o:27:VAL:HG21	39:o:73:PHE:CD2	2.47	0.50
40:p:33:VAL:HG13	40:p:34:ALA:N	2.27	0.50
41:q:94:THR:HG22	41:q:96:VAL:CG1	2.40	0.50
43:s:20:ALA:CA	43:s:24:MET:H	2.23	0.50
1:A:8:ARG:HG3	9:I:1216:C:OP1	2.12	0.50
2:B:26:VAL:O	2:B:30:LEU:HG	2.12	0.50
2:B:51:SER:O	2:B:54:GLY:N	2.45	0.50
4:D:20:VAL:CG1	4:D:58:ILE:HG21	2.37	0.50
6:F:13:LEU:CD2	6:F:36:SER:HB2	2.38	0.50
7:G:25:MET:O	7:G:28:THR:OG1	2.29	0.50
8:H:42:THR:HG22	8:H:46:ARG:HG3	1.92	0.50
9:I:239:G:H2'	9:I:240:G:O4'	2.11	0.50
9:I:285:C:O2'	9:I:286:U:H5'	2.11	0.50
9:I:478:U:H2'	9:I:479:U:H5'	1.92	0.50
9:I:499:G:H2'	9:I:500:C:H6	1.75	0.50
9:I:705:A:C4	9:I:706:U:C5	2.99	0.50
9:I:749:C:N4	9:I:750:U:O4	2.45	0.50
9:I:829:G:H2'	9:I:830:A:O4'	2.10	0.50
9:I:1089:U:H2'	9:I:1090:U:H6	1.77	0.50
9:I:1297:U:O2	9:I:1297:U:O4'	2.29	0.50
9:I:1387:C:C2	9:I:1388:C:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1476:C:O2'	9:I:1477:U:H5'	2.10	0.50
9:I:1509:G:C2	9:I:4123:U:C2	3.00	0.50
9:I:1583:A:C4	9:I:1601:A:C2	3.00	0.50
9:I:1750:G:H3'	9:I:1750:G:H8	1.76	0.50
9:I:1821:U:O4'	13:M:159:LEU:HD13	2.12	0.50
9:I:1846:A:H2'	9:I:1847:A:O5'	2.11	0.50
9:I:1874:A:O4'	9:I:1901:A:C6	2.65	0.50
9:I:2001:A:C6	9:I:2002:A:C5	3.00	0.50
9:I:2122:G:C2	9:I:2123:C:C6	2.99	0.50
9:I:2131:A:H2'	9:I:2132:A:C8	2.47	0.50
9:I:2265:C:O2'	9:I:2266:U:O5'	2.30	0.50
9:I:2404:A:N7	19:U:13:HIS:HB2	2.26	0.50
9:I:2714:G:H2'	9:I:2715:C:C6	2.47	0.50
9:I:2743:U:HO2'	9:I:2744:G:P	2.34	0.50
9:I:2790:G:H2'	9:I:2791:C:H6	1.76	0.50
9:I:2883:G:H2'	9:I:2884:U:C6	2.46	0.50
9:I:2993:C:C3'	9:I:2994:G:H8	2.24	0.50
9:I:3013:G:H2'	9:I:3014:U:O5'	2.12	0.50
9:I:3306:U:H2'	9:I:3307:G:C8	2.47	0.50
9:I:3383:A:H8	9:I:3383:A:P	2.33	0.50
9:I:3451:C:O2	9:I:3451:C:H2'	2.12	0.50
9:I:3693:A:OP1	47:w:36:ARG:NH1	2.45	0.50
9:I:3784:G:H1	9:I:3837:U:H1'	1.76	0.50
9:I:3805:A:C5	14:N:40:GLY:HA2	2.47	0.50
9:I:3826:C:H2'	9:I:3827:A:C8	2.46	0.50
9:I:3827:A:C3'	46:v:65:LYS:NZ	2.66	0.50
9:I:4072:G:C5	12:L:145:SER:OG	2.65	0.50
9:I:4080:U:O2'	9:I:4081:A:O5'	2.28	0.50
9:I:4174:U:H4'	12:L:11:MET:SD	2.52	0.50
9:I:4241:G:O2'	15:O:66:THR:HG23	2.12	0.50
9:I:4242:A:C4'	15:O:3:VAL:HG21	2.40	0.50
9:I:4245:G:C4'	15:O:3:VAL:HG23	2.14	0.50
9:I:4260:A:N3	9:I:4260:A:H2'	2.25	0.50
9:I:4307:A:C2'	9:I:4308:A:H8	2.25	0.50
9:I:4392:G:H2'	9:I:4393:G:C8	2.46	0.50
12:L:2:ILE:HD12	12:L:82:PHE:CE2	2.46	0.50
14:N:9:ASP:OD1	14:N:10:GLU:HG3	2.11	0.50
14:N:103:ILE:HD13	14:N:107:VAL:CG2	2.41	0.50
15:O:43:LYS:CD	15:O:50:THR:HG21	2.37	0.50
15:O:51:PHE:CZ	15:O:71:LEU:CB	2.89	0.50
15:O:94:ARG:HB2	15:O:105:SER:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:145:ALA:O	15:O:148:ARG:HG3	2.11	0.50
17:S:92:GLU:C	17:S:93:GLN:HG3	2.36	0.50
19:U:3:GLN:HB2	19:U:4:PRO:HD2	1.94	0.50
21:W:55:ASN:OD1	21:W:221:GLY:HA2	2.11	0.50
21:W:162:ASP:HA	21:W:201:ASP:HB2	1.93	0.50
22:X:87:ARG:HA	22:X:90:VAL:HG12	1.92	0.50
22:X:116:ALA:HB1	22:X:186:SER:HB2	1.93	0.50
25:a:88:MET:HG3	25:a:90:MET:CE	2.41	0.50
29:e:95:GLN:OE1	29:e:95:GLN:N	2.45	0.50
30:f:41:ARG:H	30:f:44:ARG:NE	2.10	0.50
32:h:47:LEU:HD22	32:h:52:ILE:CD1	2.41	0.50
32:h:94:LEU:C	32:h:108:ARG:HE	2.18	0.50
33:i:43:THR:H	33:i:47:TYR:C	2.17	0.50
34:j:35:LYS:HE2	34:j:46:TYR:CZ	2.46	0.50
39:o:20:ARG:HH21	39:o:91:VAL:HG13	1.71	0.50
40:p:60:TRP:HB3	40:p:64:ILE:CD1	2.42	0.50
40:p:60:TRP:HA	40:p:63:ARG:HB2	1.94	0.50
41:q:5:PHE:HE1	41:q:14:VAL:CG1	2.24	0.50
44:t:4:ILE:HD11	44:t:71:ILE:HG13	1.93	0.50
44:t:71:ILE:HD12	44:t:95:PHE:CE1	2.47	0.50
45:u:5:ASN:O	45:u:5:ASN:OD1	2.30	0.50
45:u:30:ILE:HG21	45:u:70:ILE:HD13	1.93	0.50
45:u:47:VAL:HG12	45:u:86:LEU:HD12	1.92	0.50
49:y:45:GLY:O	49:y:48:ASN:HB2	2.12	0.50
1:A:6:LYS:HA	1:A:62:ARG:HH12	1.74	0.50
2:B:14:PHE:HB3	2:B:25:GLU:HB2	1.88	0.50
3:C:46:LYS:HZ1	9:I:624:U:H1'	1.74	0.50
4:D:19:VAL:HG22	4:D:20:VAL:N	2.27	0.50
5:E:33:GLN:O	5:E:36:LEU:HB2	2.12	0.50
9:I:28:U:H5'	9:I:295:U:OP1	2.12	0.50
9:I:35:C:O4'	31:g:114:SER:HB2	2.11	0.50
9:I:122:U:H2'	9:I:123:C:H5'	1.93	0.50
9:I:252:A:P	9:I:252:A:C8	3.04	0.50
9:I:582:A:H61	9:I:757:C:H1'	1.76	0.50
9:I:643:U:C2	9:I:644:G:C8	3.00	0.50
9:I:703:A:C5	9:I:704:G:C8	3.00	0.50
9:I:860:G:O2'	9:I:873:G:H4'	2.12	0.50
9:I:990:U:H4'	9:I:991:U:C5'	2.35	0.50
9:I:1127:C:O4'	9:I:1147:U:N3	2.44	0.50
9:I:1268:A:N7	9:I:1269:G:H1'	2.26	0.50
9:I:1472:G:H5'	39:o:2:ASN:ND2	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1499:U:H1'	9:I:1500:U:OP1	2.11	0.50
9:I:1579:C:H2'	9:I:1580:G:C1'	2.42	0.50
9:I:1586:G:H2'	9:I:1587:U:H6	1.76	0.50
9:I:1659:G:C2'	9:I:1667:A:H61	2.24	0.50
9:I:1661:A:H1'	9:I:3702:C:H4'	1.93	0.50
9:I:1675:G:O2'	9:I:1676:A:C5'	2.48	0.50
9:I:1784:U:C2	9:I:1856:G:O6	2.64	0.50
9:I:1788:U:O2'	9:I:1789:G:H5'	2.10	0.50
9:I:1824:A:O2'	9:I:1825:G:H5'	2.11	0.50
9:I:1836:C:O2'	9:I:1837:C:O4'	2.21	0.50
9:I:1870:G:O2'	9:I:1923:A:H2'	2.11	0.50
9:I:1891:A:H5''	9:I:1913:C:OP1	2.12	0.50
9:I:1902:A:C2'	9:I:1903:U:O4'	2.60	0.50
9:I:2080:U:O3'	40:p:30:VAL:HG11	2.12	0.50
9:I:2175:A:H4'	13:M:62:GLN:NE2	2.26	0.50
9:I:2177:A:N6	9:I:2302:A:N7	2.60	0.50
9:I:2327:U:H4'	9:I:2328:U:H5	1.77	0.50
9:I:2520:G:C2'	9:I:2521:A:O5'	2.59	0.50
9:I:2535:G:C6	9:I:2609:G:O6	2.65	0.50
9:I:2693:U:H2'	9:I:2694:C:H6	1.75	0.50
9:I:2832:G:O3'	43:s:17:SER:O	2.29	0.50
9:I:2850:G:C5	9:I:2851:C:C4	2.99	0.50
9:I:3006:C:C2'	9:I:3007:U:C1'	2.86	0.50
9:I:3013:G:H2'	9:I:3014:U:H5'	1.93	0.50
9:I:3067:G:N3	9:I:3067:G:C2'	2.69	0.50
9:I:3089:C:C2	9:I:3090:A:C8	3.00	0.50
9:I:3175:G:O3'	9:I:3176:G:C8	2.65	0.50
9:I:3390:G:C6	9:I:3391:G:N7	2.79	0.50
9:I:3587:G:C2	9:I:3588:A:N7	2.80	0.50
9:I:3679:U:C5'	9:I:3680:G:OP2	2.60	0.50
9:I:3779:C:O2'	9:I:3781:A:O2'	1.93	0.50
9:I:3856:C:C2'	9:I:3857:G:O4'	2.58	0.50
9:I:3891:G:C2	9:I:3913:U:O2	2.64	0.50
9:I:4110:C:C2'	9:I:4111:U:H5'	2.42	0.50
9:I:4131:U:C2	9:I:4270:A:N7	2.79	0.50
9:I:4132:G:P	12:L:83:ARG:NH2	2.79	0.50
9:I:4139:G:H5''	9:I:4140:C:H5''	1.93	0.50
9:I:4193:C:H5''	9:I:4194:A:OP2	2.11	0.50
9:I:4320:A:C6	9:I:4321:C:C5	3.00	0.50
9:I:4340:G:C5	9:I:4341:U:C5	3.00	0.50
10:J:42:C:HO2'	14:N:94:ARG:HD2	1.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:77:VAL:HG12	11:K:78:GLU:N	2.26	0.50
12:L:24:VAL:CG2	12:L:188:LEU:HB3	2.27	0.50
14:N:107:VAL:HA	14:N:110:ILE:CD1	2.42	0.50
15:O:3:VAL:HG12	15:O:65:GLY:CA	2.41	0.50
16:R:15:TRP:CA	16:R:53:TYR:O	2.52	0.50
17:S:77:ILE:CG2	39:o:69:VAL:HB	2.34	0.50
19:U:30:SER:O	19:U:133:LYS:HB2	2.12	0.50
19:U:44:ARG:CA	19:U:47:GLU:OE2	2.54	0.50
19:U:118:LYS:O	19:U:121:ALA:HB3	2.12	0.50
20:V:2:ARG:HA	20:V:5:LYS:HZ1	1.75	0.50
21:W:107:SER:O	21:W:110:ARG:HG2	2.11	0.50
22:X:52:SER:HB3	22:X:114:LEU:HG	1.94	0.50
22:X:83:VAL:HG13	22:X:100:ILE:CG2	2.42	0.50
23:Y:148:ALA:CA	23:Y:151:GLN:HG3	2.41	0.50
24:Z:56:GLU:OE1	24:Z:59:ARG:NH2	2.44	0.50
29:e:5:ARG:N	29:e:95:GLN:O	2.36	0.50
30:f:36:GLY:HA3	30:f:45:LYS:HG3	1.94	0.50
32:h:46:GLU:O	32:h:46:GLU:HG3	2.12	0.50
32:h:49:GLU:HG3	32:h:53:ASP:CG	2.37	0.50
35:k:25:LYS:NZ	35:k:26:ASN:OD1	2.31	0.50
36:l:61:LEU:HB3	36:l:64:ALA:CB	2.41	0.50
38:n:89:VAL:CG2	38:n:116:PHE:CE2	2.88	0.50
39:o:6:GLN:O	39:o:9:GLN:HG2	2.11	0.50
40:p:64:ILE:HD11	40:p:91:ARG:CA	2.39	0.50
41:q:1:MET:CE	41:q:101:ILE:HG21	2.42	0.50
42:r:56:ALA:O	42:r:57:ASN:C	2.55	0.50
43:s:20:ALA:O	43:s:24:MET:CG	2.57	0.50
43:s:38:ALA:O	43:s:39:THR:HB	2.10	0.50
44:t:98:ASN:O	44:t:100:GLU:HG3	2.11	0.50
49:y:16:LEU:HB3	49:y:19:HIS:CG	2.47	0.50
49:y:29:ARG:HB2	49:y:33:HIS:CE1	2.46	0.50
1:A:13:VAL:CG2	1:A:59:GLN:HG2	2.42	0.50
1:A:58:ARG:NH1	9:I:979:C:O4'	2.45	0.50
2:B:1:SER:H1	9:I:738:C:H4'	1.76	0.50
2:B:63:ARG:NH1	9:I:2215:A:O4'	2.44	0.50
3:C:4:ILE:HG22	3:C:71:VAL:HG21	1.93	0.50
5:E:23:SER:OG	5:E:27:GLY:O	2.29	0.50
6:F:33:SER:O	6:F:69:LEU:HD12	2.11	0.50
8:H:28:LEU:H	30:f:76:GLY:HA2	1.75	0.50
9:I:343:A:O2'	9:I:345:G:O6	2.28	0.50
9:I:371:C:H41	9:I:386:U:H2'	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:444:G:O2'	9:I:445:G:H5'	2.12	0.50
9:I:493:G:O2'	9:I:495:A:H1'	2.11	0.50
9:I:559:A:P	9:I:565:G:H22	2.34	0.50
9:I:911:C:H2'	9:I:912:A:H8	1.76	0.50
9:I:1129:A:C4'	28:d:17:PHE:HE2	2.25	0.50
9:I:1177:G:N2	9:I:1179:A:H3'	2.26	0.50
9:I:1378:G:O6	26:b:1:PRO:HG3	2.11	0.50
9:I:1491:G:C5	9:I:1509:G:C2	3.00	0.50
9:I:1611:A:C4	9:I:1612:U:C5	3.00	0.50
9:I:1641:G:OP2	9:I:1642:A:N6	2.45	0.50
9:I:1677:G:N2	9:I:1677:G:OP2	2.44	0.50
9:I:1812:G:C4	9:I:1813:G:C8	3.00	0.50
9:I:1951:U:O2	9:I:1953:A:N6	2.45	0.50
9:I:1979:A:C8	9:I:1981:G:C8	2.99	0.50
9:I:2076:U:C2'	9:I:2077:G:O5'	2.60	0.50
9:I:2084:C:H2'	9:I:2085:G:C8	2.47	0.50
9:I:2135:C:O3'	18:T:129:LYS:NZ	2.36	0.50
9:I:2203:U:C6	9:I:2204:G:C5	3.00	0.50
9:I:2271:G:H2'	9:I:2272:C:H6	1.77	0.50
9:I:2525:G:H2'	9:I:2526:A:O4'	2.12	0.50
9:I:2702:C:H3'	9:I:2703:U:C6	2.47	0.50
9:I:2717:G:C6	9:I:2721:G:C6	2.99	0.50
9:I:2718:U:H2'	9:I:2719:G:C4	2.46	0.50
9:I:2802:A:O2'	9:I:2803:G:H5'	2.11	0.50
9:I:2816:A:O2'	9:I:2817:C:H5'	2.12	0.50
9:I:2915:G:N2	9:I:2990:A:C2	2.80	0.50
9:I:2916:G:C2'	9:I:2986:G:H21	2.22	0.50
9:I:3051:C:H2'	9:I:3052:C:C5	2.47	0.50
9:I:3098:C:H2'	9:I:3099:C:H6	1.77	0.50
9:I:3171:A:C4	9:I:3172:A:C8	3.00	0.50
9:I:3176:G:N1	9:I:3251:A:H1'	2.27	0.50
9:I:3602:A:O5'	9:I:3602:A:H8	1.95	0.50
9:I:3619:G:H5'	9:I:3620:A:OP2	2.12	0.50
9:I:3897:C:H2'	9:I:3897:C:O2	2.10	0.50
9:I:3960:C:OP1	37:m:4:ARG:CD	2.59	0.50
9:I:3963:A:C2	9:I:3976:A:C1'	2.95	0.50
9:I:4020:G:C2	9:I:4021:C:C2	3.00	0.50
9:I:4032:C:H4'	37:m:1:MET:O	2.12	0.50
9:I:4090:U:O2'	9:I:4091:G:O4'	2.29	0.50
9:I:4156:A:O5'	9:I:4157:G:N7	2.44	0.50
9:I:4177:C:H4'	12:L:13:ARG:HH22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4210:C:H2'	9:I:4211:C:H5	1.75	0.50
9:I:4282:C:H3'	9:I:4282:C:P	2.52	0.50
9:I:4419:G:H2'	9:I:4420:2MG:O4'	2.11	0.50
11:K:6:LYS:O	11:K:12:ARG:O	2.30	0.50
11:K:94:LEU:HD12	11:K:100:ARG:HG2	1.94	0.50
11:K:182:LYS:HD2	11:K:265:PHE:CD2	2.47	0.50
11:K:216:ARG:HG2	11:K:217:PRO:CD	2.38	0.50
12:L:39:ASP:O	12:L:45:TYR:N	2.44	0.50
13:M:23:PHE:HE2	13:M:25:GLU:CB	2.24	0.50
14:N:35:LEU:HD22	14:N:88:VAL:HG21	1.92	0.50
14:N:56:LEU:CB	14:N:64:PRO:HG2	2.41	0.50
14:N:111:ARG:HD3	14:N:136:ILE:HG21	1.93	0.50
17:S:15:GLY:CA	17:S:47:ILE:CG2	2.89	0.50
17:S:77:ILE:CG2	39:o:69:VAL:HG12	2.41	0.50
18:T:94:THR:C	18:T:97:ALA:H	2.20	0.50
19:U:124:LEU:CB	19:U:126:ILE:HG12	2.39	0.50
20:V:21:PHE:CB	20:V:69:ARG:NH1	2.70	0.50
20:V:86:ARG:HE	20:V:117:ASP:CB	2.24	0.50
21:W:126:LEU:O	21:W:127:THR:HB	2.11	0.50
22:X:82:ASP:O	22:X:86:LEU:HG	2.11	0.50
26:b:46:LEU:HA	26:b:49:LEU:CB	2.33	0.50
30:f:5:SER:HB2	30:f:68:LYS:HB2	1.94	0.50
38:n:10:ALA:HB1	38:n:94:SER:CB	2.40	0.50
39:o:91:VAL:HG22	39:o:92:ARG:N	2.27	0.50
41:q:5:PHE:HB3	41:q:37:GLU:O	2.10	0.50
42:r:41:LYS:C	42:r:44:ALA:H	2.19	0.50
43:s:44:LYS:HE3	43:s:56:GLU:C	2.37	0.50
43:s:55:VAL:CG1	43:s:86:THR:C	2.84	0.50
46:v:28:VAL:HB	46:v:35:PHE:CD2	2.46	0.50
48:x:56:LEU:HD23	48:x:59:LYS:CD	2.41	0.50
1:A:82:LYS:HG2	9:I:1201:U:O2'	2.11	0.50
1:A:85:GLU:OE1	1:A:89:ARG:NH2	2.39	0.50
4:D:62:ARG:HD3	9:I:263:C:O2'	2.12	0.50
6:F:16:LYS:CD	6:F:29:LEU:HD23	2.22	0.50
6:F:29:LEU:HB2	6:F:47:ILE:HD12	1.94	0.50
8:H:40:PRO:CD	9:I:4429:G:OP1	2.60	0.50
9:I:131:C:H2'	9:I:132:U:O4'	2.11	0.50
9:I:177:C:H2'	9:I:178:A:H5'	1.92	0.50
9:I:177:C:O2	9:I:178:A:H8	1.95	0.50
9:I:676:U:O2	9:I:776:A:O2'	2.25	0.50
9:I:713:G:H2'	9:I:714:A:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:718:C:H2'	9:I:719:C:O4'	2.11	0.50
9:I:724:G:C2'	9:I:725:C:H5'	2.42	0.50
9:I:748:A:C2'	9:I:749:C:H5'	2.41	0.50
9:I:759:G:C2'	9:I:760:G:H5'	2.41	0.50
9:I:983:C:H2'	9:I:984:C:O4'	2.12	0.50
9:I:1150:A:H5'	29:e:40:THR:CB	2.41	0.50
9:I:1799:A:P	44:t:96:LYS:CE	2.98	0.50
9:I:1908:G:C2'	9:I:1909:G:O4'	2.60	0.50
9:I:1977:A:C4	9:I:1978:A:C8	3.00	0.50
9:I:1981:G:HO2'	9:I:2007:A:N6	2.10	0.50
9:I:2045:U:C6	9:I:2047:A:H5'	2.47	0.50
9:I:2072:A:H2	9:I:3527:A:C2	2.29	0.50
9:I:2128:G:C2	9:I:2129:G:C5	3.00	0.50
9:I:2179:C:H2'	9:I:2180:C:H6	1.76	0.50
9:I:2245:1MG:N2	9:I:2253:A:C6	2.80	0.50
9:I:2834:U:C2	9:I:3097:A:O4'	2.65	0.50
9:I:2958:G:C2	9:I:2959:G:C5	3.00	0.50
9:I:3045:A:C5	9:I:3046:A:C5	3.00	0.50
9:I:3060:A:H2'	9:I:3060:A:P	2.52	0.50
9:I:3076:C:C3'	9:I:3077:A:C5'	2.85	0.50
9:I:3308:G:C5	9:I:3309:A:C6	3.00	0.50
9:I:3622:G:O2'	9:I:3668:C:H4'	2.12	0.50
9:I:3775:A:C3'	9:I:3776:G:C5'	2.89	0.50
9:I:3778:A:C2'	9:I:3779:C:C5'	2.89	0.50
9:I:3788:G:OP1	10:J:45:A:N1	2.44	0.50
9:I:3808:A:O4'	14:N:154:THR:HG22	2.12	0.50
9:I:3843:G:O5'	9:I:3843:G:H8	1.95	0.50
9:I:3950:C:C2	9:I:3951:PSU:N1	2.79	0.50
9:I:4029:G:C4	9:I:4030:G:C8	3.00	0.50
9:I:4043:G:H2'	9:I:4044:G:H8	1.77	0.50
9:I:4143:C:C2	9:I:4144:U:C5	3.00	0.50
9:I:4214:U:C3'	9:I:4339:U:HO2'	2.17	0.50
9:I:4231:G:C2	9:I:4262:U:N3	2.80	0.50
10:J:6:G:C2'	10:J:7:C:O4'	2.60	0.50
10:J:83:G:C2	10:J:92:C:C2	2.99	0.50
10:J:99:G:C5	10:J:100:A:C8	3.00	0.50
10:J:106:G:H8	10:J:106:G:O5'	1.95	0.50
11:K:147:PRO:HG3	11:K:186:ASP:HB3	1.93	0.50
12:L:114:LYS:CE	12:L:196:ALA:HA	2.40	0.50
14:N:4:HIS:CD2	14:N:93:GLU:OE2	2.65	0.50
14:N:66:ILE:HB	14:N:68:LYS:HZ1	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:155:PRO:CB	15:O:171:LYS:HE2	2.29	0.50
17:S:61:VAL:HB	17:S:87:LEU:CD2	2.41	0.50
17:S:86:LEU:O	17:S:94:PRO:HA	2.11	0.50
18:T:122:VAL:CB	18:T:142:ILE:HG23	2.39	0.50
19:U:69:PRO:HB3	19:U:93:VAL:C	2.36	0.50
22:X:147:GLY:O	22:X:201:ILE:HA	2.12	0.50
25:a:25:TYR:O	25:a:29:ILE:HD12	2.11	0.50
25:a:46:GLN:HA	25:a:56:LYS:HB3	1.94	0.50
31:g:2:THR:HB	31:g:5:GLN:CG	2.41	0.50
31:g:33:CYS:HB3	31:g:75:GLU:HA	1.94	0.50
34:j:29:GLU:H	34:j:29:GLU:CD	2.19	0.50
37:m:15:LYS:H	37:m:26:ILE:HG12	1.75	0.50
40:p:75:TYR:CZ	40:p:79:ILE:HD11	2.46	0.50
41:q:11:GLN:HG2	41:q:39:LEU:CD2	2.42	0.50
42:r:23:LEU:O	42:r:27:LYS:NZ	2.42	0.50
42:r:72:THR:HG21	42:r:108:SER:OG	2.11	0.50
44:t:12:VAL:HA	44:t:68:ASN:O	2.11	0.50
44:t:21:ARG:CD	44:t:72:PHE:CZ	2.94	0.50
44:t:24:VAL:HG22	44:t:35:VAL:HG22	1.89	0.50
44:t:86:PHE:CE1	44:t:91:LYS:HE2	2.47	0.50
46:v:23:ALA:CB	46:v:53:ALA:HA	2.37	0.50
46:v:26:ILE:CA	46:v:50:PHE:CB	2.66	0.50
46:v:56:LYS:CG	46:v:75:GLU:CD	2.85	0.50
47:w:17:ARG:CG	47:w:21:LEU:HD12	2.42	0.50
4:D:35:ILE:HG22	4:D:36:LYS:N	2.27	0.50
8:H:39:LYS:HD2	9:I:4429:G:P	2.52	0.50
9:I:235:A:O2'	9:I:236:G:H5'	2.12	0.50
9:I:689:G:C2'	9:I:690:G:C8	2.94	0.50
9:I:766:A:H4'	9:I:4429:G:C4'	2.28	0.50
9:I:1073:G:H4'	21:W:99:THR:O	2.12	0.50
9:I:1350:U:O2	9:I:1370:G:O6	2.29	0.50
9:I:1446:A:H2'	9:I:1447:C:C6	2.47	0.50
9:I:1479:A:O5'	9:I:4326:U:O4	2.30	0.50
9:I:1500:U:H2'	9:I:1500:U:O2	2.12	0.50
9:I:1528:A:H2'	9:I:1529:U:O5'	2.11	0.50
9:I:1652:A:C6	9:I:1653:U:C4	3.00	0.50
9:I:1660:A:C6	9:I:1661:A:C6	3.00	0.50
9:I:1691:A:C4	9:I:1692:C:C5	3.00	0.50
9:I:1744:A:O3'	18:T:69:ARG:NE	2.44	0.50
9:I:1780:U:C3'	9:I:1781:C:C6	2.95	0.50
9:I:1796:U:HO2'	44:t:86:PHE:HE1	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1820:A:H3'	13:M:132:LYS:CB	2.42	0.50
9:I:1863:G:N3	9:I:1863:G:C2'	2.75	0.50
9:I:2123:C:H2'	9:I:2124:C:H6	1.72	0.50
9:I:2158:U:O2'	9:I:2159:G:O5'	2.28	0.50
9:I:2473:A:C4	9:I:2476:C:N4	2.79	0.50
9:I:2474:A:N7	9:I:2475:A:C5	2.80	0.50
9:I:2519:G:H1	9:I:2633:G:H1	1.60	0.50
9:I:2633:G:O3'	16:R:26:GLY:CA	2.60	0.50
9:I:2781:A:N6	20:V:106:ASP:HB3	2.25	0.50
9:I:2782:G:H2'	9:I:2782:G:N3	2.27	0.50
9:I:2905:U:O2'	9:I:2906:U:H5'	2.12	0.50
9:I:3009:A:OP1	9:I:3051:C:C5'	2.59	0.50
9:I:3016:A:H3'	9:I:3017:U:C5	2.46	0.50
9:I:3091:A:O5'	9:I:3092:A:H5'	2.12	0.50
9:I:3109:C:O2'	9:I:3110:A:H5''	2.11	0.50
9:I:3147:G:C4	20:V:9:GLN:CD	2.90	0.50
9:I:3277:A:C2	9:I:4081:A:C6	2.99	0.50
9:I:3310:C:HO2'	9:I:3311:G:P	2.27	0.50
9:I:3363:G:C2	9:I:3365:A:H8	2.30	0.50
9:I:3457:U:C2'	9:I:3458:G:H5'	2.41	0.50
9:I:3591:A:C6	9:I:3687:G:C6	2.99	0.50
9:I:3722:G:C4	9:I:3723:U:C5	3.00	0.50
9:I:3724:G:O4'	47:w:31:ASN:OD1	2.30	0.50
9:I:3770:G:C2	9:I:3771:G:C8	3.00	0.50
9:I:3810:G:C8	9:I:3810:G:O5'	2.64	0.50
9:I:3939:2MG:C2	9:I:3940:G:C5	3.00	0.50
9:I:3958:G:C5	9:I:3959:C:C5	2.99	0.50
9:I:3961:C:H3'	9:I:3962:A:C8	2.46	0.50
9:I:3965:A:C2'	9:I:3966:G:O4'	2.60	0.50
9:I:4020:G:N1	9:I:4031:U:N3	2.15	0.50
9:I:4042:U:C2	9:I:4043:G:C8	3.00	0.50
9:I:4139:G:H4'	9:I:4140:C:OP2	2.11	0.50
9:I:4142:G:C5	9:I:4143:C:C5	3.00	0.50
9:I:4273:U:H3'	9:I:4273:U:OP1	2.12	0.50
9:I:4318:C:P	9:I:4319:G:H22	2.35	0.50
9:I:4333:G:H21	20:V:91:ALA:CB	2.25	0.50
10:J:16:C:OP2	10:J:16:C:C6	2.65	0.50
10:J:64:U:C2	10:J:66:G:N7	2.80	0.50
10:J:110:U:C3'	10:J:111:G:C8	2.95	0.50
11:K:80:LEU:HA	11:K:90:ILE:O	2.11	0.50
11:K:106:PRO:CD	11:K:109:LEU:HD13	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:260:LYS:HA	11:K:263:ASP:OD2	2.11	0.50
14:N:36:ASN:HA	14:N:87:LYS:CB	2.41	0.50
17:S:12:ASP:OD1	17:S:99:ILE:HG12	2.12	0.50
18:T:127:VAL:HB	18:T:132:ARG:HB2	1.94	0.50
19:U:99:GLY:N	45:u:82:TYR:HD1	2.10	0.50
21:W:129:LYS:HD2	21:W:129:LYS:O	2.12	0.50
22:X:133:MET:HE1	22:X:152:VAL:HG13	1.94	0.50
25:a:38:ARG:CB	25:a:97:THR:HG23	2.42	0.50
27:c:77:VAL:HB	27:c:124:ILE:HG22	1.94	0.50
28:d:91:LEU:O	28:d:95:LEU:HD13	2.12	0.50
30:f:40:PHE:HE2	30:f:53:VAL:HG21	1.76	0.50
32:h:47:LEU:CG	32:h:52:ILE:HD11	2.42	0.50
34:j:6:ILE:H	34:j:21:THR:HA	1.76	0.50
34:j:22:LYS:HE2	34:j:27:LYS:CB	2.38	0.50
38:n:10:ALA:HB2	38:n:94:SER:CA	2.42	0.50
41:q:14:VAL:HG12	41:q:20:VAL:HG11	1.93	0.50
41:q:36:ALA:HA	41:q:58:VAL:HA	1.93	0.50
42:r:29:VAL:HG13	42:r:30:SER:N	2.26	0.50
43:s:20:ALA:HA	43:s:23:ALA:CA	2.42	0.50
46:v:15:ARG:C	46:v:57:VAL:HG21	2.37	0.50
46:v:45:ARG:HG3	46:v:46:ASP:N	2.26	0.50
4:D:20:VAL:HG12	4:D:21:ALA:N	2.26	0.49
4:D:54:ASP:HB3	4:D:78:LYS:CE	2.42	0.49
5:E:44:ARG:CZ	5:E:51:TYR:OH	2.60	0.49
7:G:3:LYS:HD3	7:G:4:SER:H	1.75	0.49
8:H:22:CYS:SG	30:f:74:VAL:HB	2.51	0.49
8:H:44:ARG:NH2	9:I:4430:G:P	2.85	0.49
9:I:48:U:H5	9:I:364:U:O4	1.95	0.49
9:I:159:A:N1	9:I:342:U:H1'	2.27	0.49
9:I:316:U:H2'	9:I:317:G:H8	1.77	0.49
9:I:341:C:H2'	9:I:342:U:H5'	1.92	0.49
9:I:439:C:C2'	9:I:440:A:H5'	2.41	0.49
9:I:541:G:H5'	23:Y:38:GLY:CA	2.42	0.49
9:I:744:G:OP1	9:I:850:G:O2'	2.24	0.49
9:I:757:C:O2'	9:I:758:A:O5'	2.30	0.49
9:I:1283:C:H3'	9:I:1284:A:H8	1.77	0.49
9:I:1483:A:H2'	9:I:1483:A:N3	2.27	0.49
9:I:1510:A:C6	9:I:4294:A:C6	3.00	0.49
9:I:1603:A:OP1	9:I:1603:A:H8	1.94	0.49
9:I:1608:G:C1'	9:I:1846:A:N1	2.75	0.49
9:I:1639:U:HO2'	9:I:1641:G:H22	1.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1640:C:O3'	9:I:1641:G:N2	2.44	0.49
9:I:1781:C:H6	9:I:1781:C:P	2.35	0.49
9:I:1787:G:C1'	9:I:1854:A:N3	2.75	0.49
9:I:1789:G:C2	9:I:1790:U:C2	3.00	0.49
9:I:1844:A:H2'	9:I:1844:A:N3	2.26	0.49
9:I:1874:A:H2'	9:I:1875:G:O5'	2.11	0.49
9:I:1874:A:C1'	9:I:1901:A:N1	2.74	0.49
9:I:1905:U:O5'	9:I:1905:U:H6	1.95	0.49
9:I:2104:G:C2'	9:I:2105:G:O5'	2.60	0.49
9:I:2428:U:O2'	9:I:2429:C:H5'	2.12	0.49
9:I:2569:C:H2'	9:I:2570:C:C5	2.47	0.49
9:I:2588:U:H2'	9:I:2590:A:OP2	2.12	0.49
9:I:2672:C:N3	9:I:2673:G:C8	2.80	0.49
9:I:2970:U:H5''	9:I:3226:C:C6	2.47	0.49
9:I:3008:G:C3'	9:I:3051:C:H4'	2.42	0.49
9:I:3038:A:C2'	9:I:3039:A:H8	2.18	0.49
9:I:3101:C:H4'	9:I:3102:A:H5'	1.94	0.49
9:I:3158:A:C2	9:I:4220:A:C4	2.99	0.49
9:I:3160:G:N2	9:I:3489:U:N3	2.61	0.49
9:I:3293:G:N7	11:K:177:SER:CB	2.75	0.49
9:I:3348:A:C8	9:I:3349:U:C6	3.00	0.49
9:I:3495:C:C1'	9:I:4183:U:H3	2.24	0.49
9:I:3613:A:N6	9:I:3663:A:N7	2.59	0.49
9:I:3683:U:C2	9:I:3684:G:N7	2.80	0.49
9:I:3701:C:C2	9:I:3712:G:C2	3.00	0.49
9:I:3820:C:H4'	9:I:3821:A:OP2	2.09	0.49
9:I:4021:C:O2	9:I:4021:C:C2'	2.59	0.49
9:I:4028:A:N1	15:O:174:LYS:CE	2.75	0.49
9:I:4094:A:N7	11:K:235:GLU:OE2	2.45	0.49
9:I:4137:G:C6	9:I:4138:G:O6	2.64	0.49
9:I:4187:G:H4'	9:I:4343:U:OP1	2.12	0.49
9:I:4203:G:C2	9:I:4204:C:C2	3.00	0.49
9:I:4212:G:C2	9:I:4213:G:C1'	2.95	0.49
9:I:4281:C:H2'	9:I:4282:C:C5	2.47	0.49
10:J:35:C:P	10:J:37:C:H41	2.34	0.49
10:J:49:A:N6	10:J:50:G:O6	2.45	0.49
11:K:132:ARG:HD3	11:K:185:ALA:CB	2.42	0.49
11:K:170:TYR:HA	11:K:184:GLU:CA	2.42	0.49
13:M:2:GLU:CB	13:M:11:ALA:HB1	2.39	0.49
13:M:18:THR:OG1	13:M:106:LYS:HG2	2.12	0.49
13:M:111:GLU:O	13:M:114:ARG:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:16:MET:HA	14:N:20:ASN:H	1.77	0.49
14:N:107:VAL:HA	14:N:110:ILE:CG1	2.40	0.49
15:O:104:LEU:C	15:O:112:VAL:H	2.20	0.49
15:O:140:ILE:HA	15:O:143:VAL:CG2	2.42	0.49
16:R:13:ARG:CZ	16:R:49:ASP:O	2.59	0.49
17:S:1:MET:H1	17:S:34:GLY:HA3	1.75	0.49
19:U:35:ALA:HA	19:U:128:THR:HA	1.94	0.49
20:V:114:GLU:HB3	20:V:118:ARG:HG3	1.93	0.49
22:X:10:ARG:O	22:X:15:LYS:N	2.39	0.49
23:Y:21:LYS:HE3	23:Y:30:LYS:HE3	1.95	0.49
23:Y:90:LEU:HD11	23:Y:196:GLU:CG	2.42	0.49
25:a:38:ARG:NE	25:a:97:THR:HA	2.27	0.49
27:c:29:SER:O	27:c:33:VAL:HG23	2.12	0.49
38:n:4:SER:CA	38:n:7:ILE:HD12	2.39	0.49
39:o:23:ASP:O	39:o:45:VAL:HA	2.12	0.49
39:o:46:VAL:CG1	39:o:49:ILE:HG12	2.39	0.49
42:r:110:ARG:HG3	42:r:110:ARG:OXT	2.12	0.49
46:v:9:LYS:CE	46:v:11:LEU:HD11	2.42	0.49
48:x:55:LEU:O	48:x:58:GLU:N	2.45	0.49
49:y:5:LYS:CE	49:y:34:THR:HG22	2.42	0.49
1:A:2:LYS:HB3	9:I:1214:G:O3'	2.12	0.49
1:A:99:SER:O	28:d:110:ARG:NH1	2.44	0.49
2:B:81:ILE:O	2:B:85:GLY:N	2.44	0.49
3:C:59:HIS:CD2	9:I:226:G:O2'	2.65	0.49
7:G:26:MET:SD	7:G:59:GLN:HG3	2.52	0.49
7:G:43:ALA:C	7:G:46:GLN:H	2.19	0.49
9:I:107:G:O6	9:I:326:A:N6	2.39	0.49
9:I:268:C:H2'	9:I:269:A:H8	1.75	0.49
9:I:342:U:H3'	9:I:344:C:N4	2.27	0.49
9:I:782:C:OP1	9:I:4419:G:H4'	2.12	0.49
9:I:803:U:H5''	9:I:804:C:OP2	2.12	0.49
9:I:857:G:N2	9:I:858:G:N7	2.60	0.49
9:I:989:C:O2'	9:I:992:G:H1'	2.11	0.49
9:I:995:A:H2'	9:I:996:U:C5	2.47	0.49
9:I:1088:G:H2'	9:I:1169:A:H2	1.76	0.49
9:I:1149:A:N6	9:I:1150:A:H62	2.09	0.49
9:I:1437:G:C2	9:I:4368:U:C2	3.00	0.49
9:I:1468:A:H2	9:I:1469:A:H62	1.54	0.49
9:I:1495:A:H1'	16:R:134:ALA:CB	2.41	0.49
9:I:1577:G:C4	9:I:1578:U:C6	3.00	0.49
9:I:1770:A:O4'	9:I:1870:G:N2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1773:G:C4	9:I:1865:U:C2	3.00	0.49
9:I:1792:U:C2'	9:I:1793:U:O4'	2.60	0.49
9:I:2046:U:O2	9:I:2046:U:H3'	2.12	0.49
9:I:2187:C:H2'	9:I:2187:C:O2	2.13	0.49
9:I:2199:A:C3'	9:I:2200:G:H5'	2.42	0.49
9:I:2299:G:C6	9:I:2300:A:C6	3.00	0.49
9:I:2447:G:OP2	19:U:18:ARG:NH1	2.45	0.49
9:I:2511:G:H2'	9:I:2512:U:C6	2.46	0.49
9:I:2534:A:C2	9:I:2610:G:C6	3.00	0.49
9:I:2534:A:C6	9:I:2610:G:O6	2.65	0.49
9:I:2619:G:O5'	9:I:2620:A:O2'	2.29	0.49
9:I:2714:G:C6	9:I:2724:A:C6	2.99	0.49
9:I:2782:G:H5''	9:I:2783:C:H5	1.77	0.49
9:I:2858:G:OP2	47:w:1:SER:CA	2.60	0.49
9:I:2929:G:H2'	9:I:2930:G:O5'	2.12	0.49
9:I:2945:C:H6	9:I:2945:C:P	2.36	0.49
9:I:3080:A:H3'	9:I:3081:G:H8	1.76	0.49
9:I:3085:A:C8	9:I:3085:A:O5'	2.64	0.49
9:I:3289:C:H2'	9:I:3290:U:C6	2.47	0.49
9:I:3292:U:C4	9:I:3313:A:C2	3.00	0.49
9:I:3325:G:C6	9:I:3469:G:C6	3.00	0.49
9:I:3382:G:H5''	9:I:3383:A:H5'	1.94	0.49
9:I:3424:G:O2'	9:I:3425:U:H5	1.94	0.49
9:I:3489:U:H2'	9:I:3490:C:OP1	2.13	0.49
9:I:3507:A:C2'	9:I:3508:A:O5'	2.61	0.49
9:I:3558:C:H2'	9:I:3559:C:H6	1.75	0.49
9:I:3648:A:O2'	9:I:3649:U:H5'	2.12	0.49
9:I:3808:A:H5''	14:N:34:THR:CG2	2.37	0.49
9:I:3823:U:N3	9:I:3824:G:C6	2.80	0.49
9:I:3962:A:O2'	9:I:3963:A:OP2	2.26	0.49
9:I:4019:G:C4'	9:I:4235:A:H2	2.26	0.49
10:J:49:A:N1	10:J:50:G:C6	2.81	0.49
10:J:56:A:C2	10:J:57:A:C6	2.99	0.49
10:J:74:G:N3	10:J:75:G:H1'	2.27	0.49
11:K:182:LYS:CD	11:K:265:PHE:HB3	2.40	0.49
12:L:1:MET:HE2	12:L:205:PRO:CB	2.42	0.49
12:L:48:ILE:HG22	12:L:90:PHE:CB	2.41	0.49
12:L:48:ILE:HG21	12:L:90:PHE:CG	2.48	0.49
14:N:68:LYS:HE3	14:N:83:PRO:HG3	1.94	0.49
15:O:39:ALA:HB1	15:O:60:GLY:HA2	1.94	0.49
15:O:98:LYS:CE	15:O:103:ASN:HB2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:100:ASN:O	15:O:116:LEU:HB2	2.10	0.49
16:R:121:LYS:C	16:R:123:LYS:HZ2	2.20	0.49
16:R:125:TYR:CD2	16:R:130:HIS:CB	2.95	0.49
18:T:118:THR:HG23	18:T:120:VAL:CG2	2.40	0.49
19:U:72:PRO:HD3	19:U:92:TRP:CH2	2.46	0.49
22:X:90:VAL:CG1	22:X:98:ALA:HB1	2.42	0.49
22:X:151:GLU:HB3	22:X:198:LYS:HB2	1.94	0.49
23:Y:50:TYR:O	23:Y:54:LEU:HG	2.13	0.49
27:c:91:LEU:O	27:c:116:ARG:NH2	2.45	0.49
31:g:27:PRO:HB2	31:g:28:GLN:OE1	2.11	0.49
31:g:108:ASP:O	31:g:108:ASP:OD2	2.30	0.49
32:h:69:ARG:HH21	32:h:72:ILE:CG2	2.23	0.49
32:h:74:MET:N	32:h:77:LYS:HZ2	2.08	0.49
35:k:40:ALA:HB1	35:k:41:ARG:NH2	2.27	0.49
35:k:41:ARG:NE	35:k:41:ARG:HA	2.27	0.49
38:n:2:LYS:HD2	38:n:3:LYS:N	2.28	0.49
38:n:33:HIS:CA	38:n:64:THR:HB	2.37	0.49
42:r:66:ILE:HG22	42:r:66:ILE:O	2.11	0.49
43:s:4:GLU:HA	43:s:7:LEU:CD2	2.42	0.49
45:u:20:LEU:O	45:u:23:ALA:HB3	2.11	0.49
45:u:80:HIS:CD2	45:u:87:GLN:HG2	2.47	0.49
46:v:67:ARG:HH11	46:v:68:LYS:H	1.59	0.49
47:w:31:ASN:HB3	47:w:52:ALA:HB3	1.94	0.49
3:C:21:VAL:HG11	3:C:60:TRP:CZ3	2.47	0.49
7:G:69:LYS:HG3	9:I:259:G:OP1	2.13	0.49
8:H:40:PRO:O	8:H:43:GLU:HG2	2.12	0.49
9:I:6:A:O2'	24:Z:115:LEU:HD11	2.11	0.49
9:I:106:G:H3'	9:I:107:G:C5'	2.40	0.49
9:I:204:A:H2'	9:I:205:C:C6	2.44	0.49
9:I:245:A:C2	9:I:281:A:C5	3.00	0.49
9:I:641:A:C1'	27:c:108:GLY:HA2	2.42	0.49
9:I:673:G:O6	9:I:715:A:C6	2.65	0.49
9:I:765:A:C2	9:I:766:A:C1'	2.95	0.49
9:I:863:A:H2'	9:I:864:A:N9	2.27	0.49
9:I:927:G:H2'	9:I:928:G:H5'	1.94	0.49
9:I:1226:A:H3'	9:I:1226:A:N3	2.28	0.49
9:I:1373:A:H1'	26:b:30:MET:CE	2.42	0.49
9:I:1395:A:H2	24:Z:15:THR:HG21	1.75	0.49
9:I:1584:A:N6	9:I:1603:A:OP1	2.45	0.49
9:I:1644:A:C4	9:I:1645:C:C6	3.00	0.49
9:I:1710:C:H2'	9:I:1711:C:C6	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2319:A:C2'	9:I:2320:A:O5'	2.60	0.49
9:I:2341:G:C2'	9:I:2342:U:H5'	2.42	0.49
9:I:2617:C:C2'	37:m:21:GLY:O	2.60	0.49
9:I:2761:U:O2	9:I:2761:U:H2'	2.11	0.49
9:I:2762:A:N3	9:I:3507:A:C6	2.80	0.49
9:I:2806:U:H4'	9:I:2807:U:O5'	2.11	0.49
9:I:2807:U:O2	9:I:2807:U:C2'	2.58	0.49
9:I:2873:U:O2	9:I:2873:U:C2'	2.60	0.49
9:I:2900:U:C3'	9:I:2901:G:H8	2.24	0.49
9:I:2923:G:C5	9:I:3062:G:C6	3.00	0.49
9:I:2942:G:N1	9:I:2958:G:C6	2.79	0.49
9:I:3064:A:C2'	9:I:3065:A:C8	2.96	0.49
9:I:3097:A:C4	9:I:3098:C:C6	3.00	0.49
9:I:3151:U:C2	9:I:3152:C:C5	3.00	0.49
9:I:3172:A:C4	9:I:3173:A:C8	3.01	0.49
9:I:3210:U:C2	9:I:3238:A:N6	2.73	0.49
9:I:3230:U:H2'	9:I:3231:G:H8	1.75	0.49
9:I:3291:G:C5	9:I:3292:U:C4	3.00	0.49
9:I:3414:C:C2'	9:I:3415:G:H5'	2.41	0.49
9:I:3426:A:H61	9:I:3462:G:C2'	2.24	0.49
9:I:3450:U:C2	9:I:3451:C:C6	3.00	0.49
9:I:3461:C:H2'	9:I:3462:G:O4'	2.11	0.49
9:I:3625:U:H1'	9:I:3627:G:C2	2.47	0.49
9:I:3778:A:H2'	9:I:3779:C:O4'	2.12	0.49
9:I:3799:U:C2	14:N:132:ARG:HA	2.47	0.49
9:I:3814:U:H1'	9:I:3816:A:C5	2.48	0.49
9:I:3830:A:C2	9:I:3879:C:C2	3.00	0.49
9:I:3842:U:OP2	36:l:37:THR:HG21	2.13	0.49
9:I:3856:C:O2'	9:I:3857:G:H5'	2.12	0.49
9:I:3978:G:C2'	9:I:3979:G:H5'	2.43	0.49
9:I:4089:G:N1	9:I:4093:G:C6	2.80	0.49
9:I:4149:G:C4'	9:I:4150:U:H5'	2.42	0.49
9:I:4178:U:H2'	9:I:4179:G:O4'	2.12	0.49
9:I:4233:U:O2'	9:I:4234:A:H5'	2.12	0.49
9:I:4236:G:C2'	9:I:4237:U:H5'	2.42	0.49
9:I:4242:A:H5''	9:I:4242:A:C8	2.43	0.49
9:I:4313:G:C6	9:I:4315:A:C2	3.00	0.49
9:I:4318:C:P	9:I:4319:G:N2	2.86	0.49
9:I:4341:U:OP1	39:o:95:LYS:HG2	2.12	0.49
10:J:4:U:O3'	10:J:26:C:O2	2.30	0.49
11:K:3:VAL:CG2	11:K:17:LYS:HB2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:243:PRO:HD2	11:K:252:LYS:NZ	2.26	0.49
12:L:112:THR:HA	12:L:168:GLU:CA	2.41	0.49
14:N:111:ARG:NH2	14:N:131:VAL:CA	2.76	0.49
15:O:125:PRO:O	15:O:126:THR:OG1	2.28	0.49
18:T:73:ILE:HG23	18:T:107:PHE:HD2	1.77	0.49
18:T:121:THR:HG22	18:T:143:GLU:HG2	1.94	0.49
21:W:77:VAL:CG1	21:W:88:PHE:HB2	2.40	0.49
21:W:176:LEU:HD13	21:W:178:ILE:HD11	1.94	0.49
22:X:69:THR:HG21	22:X:102:ILE:HD11	1.93	0.49
22:X:91:ALA:HB2	22:X:98:ALA:CB	2.43	0.49
22:X:150:VAL:HA	22:X:198:LYS:O	2.11	0.49
24:Z:104:ALA:O	24:Z:108:VAL:HG22	2.13	0.49
26:b:45:ALA:O	26:b:49:LEU:N	2.40	0.49
26:b:129:ASN:HB2	26:b:134:VAL:HG11	1.94	0.49
27:c:78:SER:N	27:c:124:ILE:O	2.45	0.49
30:f:49:PHE:HA	30:f:52:GLN:CB	2.43	0.49
38:n:97:GLN:O	38:n:102:VAL:HG21	2.11	0.49
41:q:38:VAL:HG22	41:q:59:ILE:CD1	2.38	0.49
43:s:15:HIS:HB2	43:s:31:VAL:HG12	1.94	0.49
45:u:27:PRO:HB2	45:u:88:HIS:CD2	2.47	0.49
45:u:61:LEU:CD1	45:u:72:VAL:CG2	2.90	0.49
1:A:12:ARG:HD3	1:A:58:ARG:CG	2.26	0.49
1:A:68:ARG:CG	1:A:69:PRO:HD2	2.40	0.49
2:B:59:VAL:CG1	9:I:2215:A:H1'	2.42	0.49
3:C:6:LEU:HB3	3:C:17:TYR:CD1	2.47	0.49
5:E:52:THR:HG23	5:E:54:ARG:HG2	1.94	0.49
8:H:17:ARG:HG2	8:H:20:ARG:HH21	1.78	0.49
9:I:65:A:N1	9:I:103:G:H1'	2.27	0.49
9:I:277:G:H4'	9:I:281:A:C4'	2.42	0.49
9:I:338:C:C2	9:I:339:U:C5	3.00	0.49
9:I:345:G:O2'	9:I:346:G:H5'	2.13	0.49
9:I:467:A:H3'	9:I:468:C:C5	2.47	0.49
9:I:515:PSU:H2'	9:I:516:G:O4'	2.12	0.49
9:I:1062:C:H6	9:I:1062:C:P	2.36	0.49
9:I:1379:U:H1'	9:I:1380:U:H5	1.76	0.49
9:I:1481:G:N2	9:I:1482:A:HO2'	2.11	0.49
9:I:1714:G:C2'	9:I:1715:G:O5'	2.61	0.49
9:I:1760:G:C6	9:I:1761:G:N7	2.80	0.49
9:I:1766:G:N2	9:I:1927:U:H1'	2.28	0.49
9:I:1772:A:C5	9:I:1866:C:C2	3.00	0.49
9:I:1829:G:C5	9:I:1977:A:C4	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1918:C:H3'	9:I:1919:U:C6	2.42	0.49
9:I:2148:G:C6	9:I:2149:G:C6	3.00	0.49
9:I:2203:U:C3'	9:I:2204:G:C8	2.85	0.49
9:I:2267:U:HO2'	9:I:2268:G:C5'	2.25	0.49
9:I:2275:G:C2	9:I:2277:G:O6	2.65	0.49
9:I:2376:C:H2'	9:I:2377:A:O4'	2.11	0.49
9:I:2525:G:H2'	9:I:2526:A:H8	1.74	0.49
9:I:2592:A:O2'	9:I:2593:G:H5'	2.11	0.49
9:I:2617:C:O3'	37:m:21:GLY:O	2.30	0.49
9:I:2719:G:HO2'	9:I:2720:A:C4'	2.15	0.49
9:I:2958:G:O2'	9:I:2959:G:H5'	2.12	0.49
9:I:2962:U:H2'	9:I:3016:A:N6	2.26	0.49
9:I:2967:G:C6	9:I:3013:G:C6	2.99	0.49
9:I:3051:C:H5''	9:I:3052:C:C2'	2.42	0.49
9:I:3074:A:H5''	9:I:3075:G:OP2	2.12	0.49
9:I:3161:G:P	17:S:7:MET:HE3	2.52	0.49
9:I:3340:G:C2'	9:I:3341:A:C8	2.92	0.49
9:I:3347:A:H2'	9:I:3727:U:O2'	2.12	0.49
9:I:3587:G:OP1	9:I:3587:G:O3'	2.31	0.49
9:I:3707:U:O2'	9:I:3708:C:H5'	2.12	0.49
9:I:3802:G:O3'	9:I:3803:A:C8	2.66	0.49
9:I:3809:G:N3	9:I:3810:G:C8	2.80	0.49
9:I:3871:A:C5	9:I:3872:A:C4	3.01	0.49
9:I:3956:C:H2'	9:I:3957:C:O4'	2.12	0.49
9:I:3986:U:H2'	9:I:3987:U:C6	2.47	0.49
9:I:4029:G:C6	9:I:4030:G:C5	3.00	0.49
9:I:4076:G:O2'	9:I:4077:G:H5'	2.12	0.49
9:I:4199:A:C2'	9:I:4346:G:OP1	2.61	0.49
9:I:4252:A:N1	15:O:34:ARG:NH2	2.60	0.49
9:I:4273:U:H3'	9:I:4273:U:P	2.52	0.49
9:I:4273:U:OP1	9:I:4274:G:H2'	2.12	0.49
10:J:54:U:O2'	10:J:56:A:N6	2.36	0.49
10:J:61:C:H2'	10:J:62:C:H6	1.72	0.49
10:J:75:G:C6	10:J:76:U:C5	3.01	0.49
11:K:162:GLN:O	11:K:173:LEU:HD12	2.12	0.49
12:L:68:PHE:CA	12:L:71:ALA:HB3	2.32	0.49
15:O:94:ARG:O	15:O:104:LEU:HA	2.12	0.49
17:S:15:GLY:C	17:S:47:ILE:HG23	2.38	0.49
19:U:26:VAL:HA	19:U:104:GLU:OE2	2.12	0.49
21:W:96:GLY:HA2	21:W:99:THR:OG1	2.11	0.49
21:W:107:SER:CA	21:W:110:ARG:HG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:199:VAL:HG22	22:X:201:ILE:CD1	2.43	0.49
24:Z:142:GLU:O	24:Z:145:ALA:HB3	2.13	0.49
25:a:38:ARG:HB2	25:a:97:THR:CG2	2.43	0.49
26:b:55:LYS:HG3	26:b:56:SER:N	2.27	0.49
31:g:20:VAL:CG2	31:g:23:LEU:HB3	2.42	0.49
35:k:18:PHE:CZ	35:k:45:SER:CB	2.96	0.49
39:o:21:PRO:O	39:o:91:VAL:CB	2.60	0.49
39:o:98:TYR:O	39:o:102:ARG:CD	2.60	0.49
41:q:3:ALA:O	41:q:13:ARG:CA	2.61	0.49
41:q:29:THR:C	41:q:63:VAL:HG12	2.36	0.49
42:r:110:ARG:NE	42:r:110:ARG:HA	2.26	0.49
43:s:76:ARG:HG2	43:s:77:ARG:N	2.26	0.49
44:t:45:GLN:CB	44:t:56:GLY:O	2.55	0.49
45:u:2:PHE:CD1	45:u:50:MET:HA	2.47	0.49
46:v:21:VAL:HG21	46:v:51:ALA:HB2	1.95	0.49
2:B:52:ARG:HA	2:B:55:LEU:CB	2.42	0.49
2:B:80:LEU:O	2:B:84:LEU:HG	2.12	0.49
4:D:66:LYS:HE3	9:I:250:G:O3'	2.12	0.49
9:I:115:A:C4	9:I:116:G:H1'	2.48	0.49
9:I:203:G:H3'	9:I:204:A:C8	2.47	0.49
9:I:239:G:O2'	9:I:240:G:H5'	2.12	0.49
9:I:256:G:N1	9:I:269:A:C6	2.80	0.49
9:I:550:U:O5'	9:I:550:U:H6	1.95	0.49
9:I:622:C:H2'	9:I:623:C:H6	1.78	0.49
9:I:651:U:O4	9:I:752:A:C8	2.65	0.49
9:I:827:U:O2	21:W:22:PRO:HG2	2.12	0.49
9:I:888:A:H4'	9:I:889:G:OP1	2.12	0.49
9:I:1057:G:H2'	9:I:1058:C:H6	1.77	0.49
9:I:1088:G:N2	9:I:1169:A:H2'	2.28	0.49
9:I:1229:C:H2'	9:I:1230:G:H8	1.78	0.49
9:I:1259:G:O2'	9:I:1260:A:O5'	2.30	0.49
9:I:1344:U:C3'	9:I:1345:A:H5'	2.41	0.49
9:I:1394:C:O2	9:I:1394:C:H2'	2.13	0.49
9:I:1671:U:C6	9:I:1671:U:O5'	2.65	0.49
9:I:1689:G:H2'	9:I:1705:G:N2	2.27	0.49
9:I:1744:A:H2'	9:I:1745:G:O4'	2.12	0.49
9:I:1755:A:C5	9:I:1756:A:C8	3.01	0.49
9:I:1770:A:C2	9:I:1870:G:C8	3.01	0.49
9:I:1810:A:OP1	44:t:18:LYS:CB	2.57	0.49
9:I:1817:G:C2	9:I:1818:C:C1'	2.95	0.49
9:I:1829:G:C2	44:t:16:LYS:HG2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1859:G:OP2	9:I:1860:U:H5	1.95	0.49
9:I:1891:A:H1'	9:I:1911:G:N9	2.27	0.49
9:I:1993:G:C4	9:I:1994:G:C8	3.00	0.49
9:I:2139:U:H2'	9:I:2140:C:H6	1.69	0.49
9:I:2367:C:N3	9:I:2406:C:C2'	2.76	0.49
9:I:2422:A:C6	9:I:2423:U:C4	3.00	0.49
9:I:2482:A:OP2	49:y:10:ARG:NE	2.26	0.49
9:I:2522:A:O2'	9:I:2523:A:H5'	2.12	0.49
9:I:2564:A:O2'	9:I:2591:U:H5'	2.13	0.49
9:I:2781:A:N7	9:I:2782:G:C6	2.80	0.49
9:I:2783:C:N4	9:I:2784:C:H41	2.09	0.49
9:I:2931:C:O4'	9:I:3009:A:H2	1.95	0.49
9:I:3005:G:C2'	9:I:3006:C:O4'	2.60	0.49
9:I:3027:C:C2'	9:I:3028:U:O5'	2.60	0.49
9:I:3172:A:H3'	9:I:3173:A:H8	1.78	0.49
9:I:3289:C:H2'	9:I:3290:U:H6	1.77	0.49
9:I:3316:C:C2'	9:I:3317:G:H5'	2.42	0.49
9:I:3350:U:H2'	9:I:3351:G:O5'	2.12	0.49
9:I:3383:A:H8	9:I:3383:A:OP2	1.96	0.49
9:I:3401:G:O6	9:I:3418:C:N4	2.45	0.49
9:I:3774:G:OP1	9:I:3821:A:H5'	2.12	0.49
9:I:3780:G:O6	34:j:31:LEU:CD1	2.61	0.49
9:I:3780:G:O6	34:j:31:LEU:HD13	2.12	0.49
9:I:3821:A:H2'	9:I:3822:A:C1'	2.41	0.49
9:I:3850:U:H2'	9:I:3851:G:C1'	2.43	0.49
9:I:3858:C:H2'	9:I:3859:G:H8	1.74	0.49
9:I:3865:G:C2	9:I:3866:U:H1'	2.47	0.49
9:I:3868:C:H2'	9:I:3869:G:O4'	2.13	0.49
9:I:3879:C:N3	9:I:3880:A:C5	2.81	0.49
9:I:4020:G:C5	9:I:4021:C:C4	3.00	0.49
9:I:4214:U:H2'	9:I:4215:A:O5'	2.13	0.49
9:I:4342:G:C2'	39:o:92:ARG:O	2.61	0.49
10:J:15:G:H3'	10:J:16:C:C6	2.47	0.49
10:J:41:C:H42	14:N:89:THR:HG21	1.78	0.49
10:J:72:A:OP1	10:J:99:G:OP2	2.31	0.49
11:K:147:PRO:HB3	11:K:186:ASP:OD2	2.13	0.49
11:K:159:THR:HG22	11:K:176:ARG:NE	2.28	0.49
11:K:250:GLN:HE21	11:K:254:LYS:HD2	1.77	0.49
12:L:170:VAL:CG2	12:L:194:PRO:HB2	2.42	0.49
14:N:11:VAL:HG12	14:N:15:LEU:HD12	1.93	0.49
14:N:131:VAL:HG23	14:N:131:VAL:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:174:PHE:C	14:N:176:PHE:H	2.18	0.49
15:O:158:GLY:O	15:O:159:LYS:HE2	2.13	0.49
16:R:88:THR:OG1	16:R:91:GLU:CG	2.60	0.49
17:S:76:VAL:C	39:o:71:ARG:HD2	2.35	0.49
19:U:53:MET:O	19:U:57:VAL:HG13	2.12	0.49
20:V:28:LEU:HD13	20:V:34:ILE:HG23	1.93	0.49
20:V:37:THR:O	20:V:41:ALA:N	2.25	0.49
20:V:102:PHE:CD1	20:V:109:PRO:HA	2.48	0.49
22:X:54:ILE:HD13	22:X:67:ILE:HG12	1.95	0.49
22:X:171:ARG:NH1	22:X:173:PRO:HB3	2.27	0.49
23:Y:8:LEU:HD22	23:Y:27:ILE:HD11	1.93	0.49
23:Y:10:LEU:HB2	23:Y:18:LEU:HD12	1.95	0.49
24:Z:126:ASN:HA	24:Z:129:ARG:HD3	1.93	0.49
24:Z:130:ALA:O	24:Z:134:GLY:N	2.27	0.49
29:e:1:ARG:HD3	29:e:73:VAL:HG13	1.93	0.49
30:f:47:THR:OG1	30:f:50:ALA:HB2	2.13	0.49
32:h:32:ILE:HD12	32:h:59:VAL:N	2.27	0.49
32:h:90:HIS:CE1	32:h:96:VAL:HG21	2.47	0.49
34:j:23:ASN:O	34:j:27:LYS:HB2	2.13	0.49
40:p:81:GLY:O	40:p:84:LYS:HB2	2.13	0.49
41:q:58:VAL:HG13	41:q:102:SER:CB	2.42	0.49
45:u:79:ARG:HH12	45:u:82:TYR:CA	2.26	0.49
47:w:21:LEU:HG	47:w:21:LEU:O	2.13	0.49
48:x:52:VAL:CG1	48:x:56:LEU:HD11	2.43	0.49
49:y:33:HIS:ND1	49:y:35:VAL:HG23	2.28	0.49
9:I:107:G:N2	9:I:108:A:N1	2.61	0.49
9:I:461:G:C2'	9:I:462:U:H5''	2.43	0.49
9:I:523:G:H3'	9:I:524:C:C5	2.47	0.49
9:I:714:A:C3'	9:I:715:A:C8	2.95	0.49
9:I:724:G:O2'	9:I:725:C:H5'	2.12	0.49
9:I:859:A:O2'	9:I:860:G:H5'	2.13	0.49
9:I:958:A:O3'	9:I:959:U:H4'	2.13	0.49
9:I:1007:U:H5'	9:I:1008:U:OP1	2.12	0.49
9:I:1386:G:C2	9:I:1387:C:C5	3.01	0.49
9:I:1489:A:C6	9:I:4283:C:C2	3.00	0.49
9:I:1510:A:H2'	9:I:1511:C:C6	2.47	0.49
9:I:1772:A:N3	9:I:1772:A:H2'	2.28	0.49
9:I:1777:G:H2'	9:I:1861:G:O6	2.12	0.49
9:I:1983:A:C8	9:I:1984:C:C6	3.01	0.49
9:I:2086:A:C2	9:I:2748:A:N1	2.81	0.49
9:I:2251:A:H5''	9:I:2252:A:OP1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2284:G:HO2'	9:I:2285:G:P	2.34	0.49
9:I:2336:G:C5	9:I:2337:C:C5	3.01	0.49
9:I:2467:A:H5'	9:I:2682:U:H1'	1.95	0.49
9:I:2525:G:N2	37:m:37:GLN:NE2	2.60	0.49
9:I:2860:A:H2'	9:I:2861:A:C8	2.48	0.49
9:I:2934:U:C2'	9:I:2935:G:C8	2.95	0.49
9:I:2957:C:H6	9:I:2957:C:O5'	1.96	0.49
9:I:3020:C:H2'	9:I:3021:G:O4'	2.13	0.49
9:I:3080:A:H2'	9:I:3081:G:C8	2.48	0.49
9:I:3113:G:H2'	9:I:3114:G:H8	1.77	0.49
9:I:3313:A:C2'	11:K:176:ARG:HG3	2.42	0.49
9:I:3395:A:C2'	9:I:3396:C:H5'	2.42	0.49
9:I:3543:G:C2'	9:I:3544:C:H5'	2.42	0.49
9:I:3649:U:H2'	9:I:3650:G:C8	2.48	0.49
9:I:3708:C:C2'	9:I:3709:C:H5'	2.43	0.49
9:I:3719:A:C4'	9:I:3720:C:H5'	2.43	0.49
9:I:3771:G:C6	9:I:3772:A:N7	2.80	0.49
9:I:3780:G:C4'	9:I:3781:A:O4'	2.57	0.49
9:I:3792:A:H1'	9:I:3815:U:O3'	2.12	0.49
9:I:3826:C:O2	9:I:3829:A:C2	2.65	0.49
9:I:3966:G:C6	9:I:3969:C:C5	3.00	0.49
9:I:3978:G:H2'	9:I:3979:G:C5'	2.41	0.49
9:I:4075:G:H4'	9:I:4076:G:C8	2.47	0.49
9:I:4098:U:O2	9:I:4099:PSU:C6	2.66	0.49
9:I:4129:A:C4'	12:L:49:GLN:NE2	2.72	0.49
9:I:4223:G:O2'	9:I:4224:C:H5'	2.13	0.49
9:I:4239:C:O2'	15:O:138:GLN:O	2.30	0.49
9:I:4247:A:C3'	9:I:4248:U:C6	2.96	0.49
10:J:5:G:H5'	10:J:26:C:C2'	2.43	0.49
10:J:5:G:O6	10:J:114:A:C6	2.65	0.49
10:J:15:G:O6	10:J:65:A:C2	2.65	0.49
10:J:45:A:C2	10:J:46:C:N1	2.80	0.49
11:K:68:ARG:NH2	11:K:128:THR:HG21	2.27	0.49
11:K:146:LYS:HG3	11:K:149:LYS:HD2	1.92	0.49
11:K:201:LEU:HD12	11:K:201:LEU:N	2.28	0.49
12:L:47:ALA:HB2	12:L:83:ARG:HD2	1.93	0.49
12:L:110:THR:OG1	12:L:171:THR:CA	2.48	0.49
12:L:181:ASP:O	12:L:185:ASN:N	2.45	0.49
14:N:40:GLY:O	14:N:84:ILE:HD11	2.13	0.49
14:N:128:SER:OG	14:N:154:THR:OG1	2.22	0.49
15:O:104:LEU:CB	15:O:112:VAL:HB	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:136:ASP:CB	15:O:139:VAL:H	2.24	0.49
16:R:11:VAL:HG12	16:R:12:LYS:N	2.28	0.49
16:R:18:VAL:HG23	16:R:55:ILE:O	2.12	0.49
16:R:95:ARG:HH11	16:R:96:ARG:HB2	1.78	0.49
16:R:109:LEU:HD22	16:R:109:LEU:N	2.27	0.49
17:S:105:ARG:CD	39:o:33:GLU:OE2	2.60	0.49
20:V:45:ARG:HA	20:V:49:GLU:HG3	1.93	0.49
21:W:112:LYS:HA	21:W:115:GLU:HG2	1.94	0.49
22:X:90:VAL:HG13	22:X:98:ALA:CB	2.42	0.49
23:Y:10:LEU:HA	23:Y:62:ARG:NH1	2.28	0.49
26:b:123:LEU:HA	26:b:126:ALA:HB3	1.93	0.49
31:g:6:LEU:HD23	31:g:6:LEU:C	2.38	0.49
31:g:29:LYS:O	31:g:80:LEU:HA	2.13	0.49
31:g:56:LEU:HB2	31:g:60:PHE:O	2.11	0.49
31:g:105:GLY:HA3	31:g:117:GLY:O	2.11	0.49
31:g:106:VAL:O	31:g:118:VAL:HG22	2.13	0.49
39:o:30:TRP:NE1	39:o:81:ASP:HB2	2.27	0.49
39:o:62:LYS:C	39:o:63:ILE:HD13	2.38	0.49
43:s:9:LYS:HA	48:x:28:ARG:HH12	1.76	0.49
43:s:12:ARG:NE	43:s:12:ARG:CA	2.74	0.49
43:s:42:GLU:O	43:s:43:ILE:C	2.55	0.49
44:t:71:ILE:HD13	44:t:95:PHE:HZ	1.77	0.49
45:u:18:ARG:CA	45:u:21:ARG:HG3	2.41	0.49
45:u:27:PRO:HB2	45:u:88:HIS:HD2	1.77	0.49
46:v:29:ARG:HA	46:v:48:THR:CG2	2.38	0.49
46:v:57:VAL:O	46:v:73:GLU:OE2	2.31	0.49
49:y:5:LYS:CD	49:y:34:THR:HG23	2.43	0.49
1:A:5:MET:N	9:I:1215:A:P	2.80	0.49
2:B:24:THR:HG21	2:B:69:LEU:HD21	1.95	0.49
3:C:23:ASP:OD1	3:C:25:ARG:NH2	2.39	0.49
8:H:33:ARG:NE	30:f:112:PRO:HD2	2.27	0.49
9:I:21:G:H2'	9:I:22:C:C6	2.47	0.49
9:I:38:G:N7	9:I:546:A:H2'	2.26	0.49
9:I:45:G:H3'	9:I:365:A:H62	1.77	0.49
9:I:174:C:H2'	9:I:175:C:C6	2.47	0.49
9:I:302:A:H1'	9:I:554:U:O2'	2.13	0.49
9:I:342:U:H3'	9:I:344:C:H41	1.78	0.49
9:I:463:U:N3	9:I:465:A:O5'	2.45	0.49
9:I:643:U:N3	9:I:644:G:N7	2.60	0.49
9:I:938:G:N2	9:I:1374:A:C2	2.68	0.49
9:I:1041:A:H3'	9:I:1042:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1231:U:H2'	9:I:1232:G:O4'	2.13	0.49
9:I:1644:A:C5	9:I:1645:C:C5	2.99	0.49
9:I:1665:A:C2'	9:I:1666:U:H6	2.25	0.49
9:I:1767:C:N3	9:I:1926:C:N4	2.60	0.49
9:I:2469:A:C1'	9:I:2484:A:N6	2.76	0.49
9:I:2498:U:O2'	9:I:2504:A:C8	2.60	0.49
9:I:2539:C:C4	9:I:2605:A:H2'	2.48	0.49
9:I:2783:C:H2'	9:I:2784:C:H6	1.77	0.49
9:I:2789:C:C2	9:I:2790:G:C8	3.00	0.49
9:I:2800:C:C5	9:I:3100:C:N4	2.81	0.49
9:I:2813:C:H2'	9:I:2814:C:C6	2.47	0.49
9:I:2830:A:H2'	9:I:2831:G:H8	1.76	0.49
9:I:2976:G:H2'	9:I:2977:G:O5'	2.12	0.49
9:I:3210:U:C2	9:I:3211:A:C8	3.01	0.49
9:I:3312:U:C2'	11:K:152:GLN:O	2.61	0.49
9:I:3340:G:H2'	9:I:3341:A:O5'	2.13	0.49
9:I:3368:C:H3'	9:I:3369:G:O4'	2.13	0.49
9:I:3382:G:P	9:I:3383:A:OP1	2.71	0.49
9:I:3410:A:C5	9:I:3411:PSU:N3	2.81	0.49
9:I:3425:U:O4	9:I:3462:G:N3	2.45	0.49
9:I:3781:A:C5	9:I:3840:A:N6	2.78	0.49
9:I:3794:C:O3'	9:I:3795:C:H6	1.95	0.49
9:I:3797:G:C2	9:I:3798:G:H1'	2.46	0.49
9:I:3809:G:C4	9:I:3810:G:N7	2.80	0.49
9:I:3827:A:O4'	9:I:3829:A:N9	2.45	0.49
9:I:3904:G:C2'	9:I:3905:A:H5'	2.43	0.49
9:I:4024:A:O4'	9:I:4029:G:C6	2.66	0.49
9:I:4025:A:P	15:O:174:LYS:HE3	2.52	0.49
9:I:4176:A:H5'	12:L:12:THR:CA	2.34	0.49
9:I:4245:G:H3'	9:I:4246:C:C6	2.47	0.49
9:I:4253:G:C1'	15:O:34:ARG:NH2	2.75	0.49
9:I:4278:U:H2'	9:I:4279:C:O5'	2.12	0.49
9:I:4327:U:O2'	9:I:4328:G:C5'	2.61	0.49
9:I:4331:A:C3'	9:I:4332:G:C8	2.93	0.49
11:K:77:VAL:CB	11:K:91:ALA:HB1	2.43	0.49
11:K:106:PRO:CG	11:K:126:GLY:N	2.76	0.49
11:K:109:LEU:N	11:K:125:PRO:CB	2.73	0.49
11:K:163:ILE:HG13	11:K:173:LEU:HD13	1.93	0.49
12:L:7:LYS:O	12:L:9:VAL:N	2.44	0.49
12:L:37:VAL:CG2	12:L:91:THR:HA	2.41	0.49
12:L:50:VAL:HG22	12:L:80:TRP:CB	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:101:PHE:HE1	12:L:205:PRO:HG3	1.77	0.49
13:M:147:LEU:CB	13:M:186:VAL:HG22	2.34	0.49
14:N:21:TYR:CE1	14:N:28:PRO:HD3	2.47	0.49
14:N:147:ARG:CG	14:N:148:VAL:H	2.23	0.49
16:R:30:THR:CG2	16:R:31:GLU:OE2	2.61	0.49
16:R:32:LEU:HD21	16:R:142:ILE:CB	2.42	0.49
17:S:9:ASN:HB3	17:S:83:ALA:HA	1.93	0.49
17:S:20:MET:O	17:S:41:ILE:CB	2.60	0.49
20:V:62:ASN:O	20:V:66:ALA:N	2.41	0.49
21:W:203:ALA:HB3	21:W:206:ALA:CB	2.38	0.49
22:X:113:LYS:HB2	22:X:184:ASN:HD22	1.75	0.49
23:Y:196:GLU:HG2	23:Y:197:HIS:N	2.28	0.49
24:Z:60:ARG:NH2	24:Z:62:MET:HB3	2.27	0.49
25:a:9:MET:CE	25:a:11:HIS:HD2	2.21	0.49
26:b:73:GLU:CD	26:b:90:VAL:HB	2.37	0.49
28:d:113:VAL:CG2	29:e:58:ARG:HD2	2.41	0.49
30:f:30:LEU:HD13	30:f:65:TYR:CD2	2.47	0.49
34:j:14:THR:CG2	34:j:39:VAL:HG21	2.43	0.49
38:n:16:LYS:HE2	38:n:16:LYS:HA	1.93	0.49
38:n:29:ARG:HE	38:n:101:ARG:HB2	1.78	0.49
41:q:49:ILE:HG22	41:q:53:PHE:HA	1.93	0.49
42:r:1:MET:HE3	42:r:1:MET:O	2.12	0.49
42:r:31:GLN:O	42:r:34:ASP:HB2	2.13	0.49
42:r:88:ARG:HG3	42:r:89:ALA:N	2.28	0.49
45:u:79:ARG:HD3	45:u:79:ARG:C	2.37	0.49
45:u:80:HIS:CG	45:u:83:LYS:HE2	2.48	0.49
46:v:20:SER:N	46:v:56:LYS:HA	2.27	0.49
47:w:37:PHE:HZ	47:w:50:VAL:CG1	2.24	0.49
48:x:17:LEU:HD21	48:x:52:VAL:HG11	1.94	0.49
48:x:23:GLU:HA	48:x:26:ASN:CB	2.40	0.49
2:B:81:ILE:CA	2:B:84:LEU:HG	2.41	0.49
5:E:19:LYS:CE	30:f:104:ILE:H	2.24	0.49
8:H:39:LYS:HE3	8:H:41:THR:HG21	1.95	0.49
9:I:291:G:O2'	9:I:607:A:N6	2.44	0.49
9:I:308:A:O2'	9:I:309:G:H5'	2.13	0.49
9:I:671:U:O2	9:I:733:G:C6	2.66	0.49
9:I:674:A:HO2'	30:f:104:ILE:C	2.18	0.49
9:I:717:A:OP2	9:I:719:C:N4	2.42	0.49
9:I:770:G:H2'	9:I:771:U:O4'	2.13	0.49
9:I:881:C:H2'	9:I:882:C:C5	2.47	0.49
9:I:915:U:H2'	9:I:916:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1216:C:O2'	9:I:1217:C:O5'	2.22	0.49
9:I:1236:C:O2	9:I:1333:G:H2'	2.13	0.49
9:I:1288:A:H3'	9:I:1289:G:H8	1.78	0.49
9:I:1296:G:H21	26:b:113:LYS:HG3	1.77	0.49
9:I:1300:U:O2'	9:I:1301:C:H3'	2.13	0.49
9:I:1349:A:H2'	9:I:1350:U:H6	1.78	0.49
9:I:1561:C:C2	9:I:1594:A:C2	3.01	0.49
9:I:1641:G:N3	9:I:1641:G:O5'	2.46	0.49
9:I:1653:U:H2'	9:I:1654:U:C6	2.47	0.49
9:I:1733:A:C2	9:I:1734:U:C1'	2.94	0.49
9:I:1750:G:H2'	9:I:1751:A:O5'	2.13	0.49
9:I:1835:C:OP1	9:I:1835:C:H6	1.96	0.49
9:I:1899:U:H2'	9:I:1900:G:N9	2.26	0.49
9:I:2072:A:H3'	9:I:2073:U:O4'	2.13	0.49
9:I:2146:U:C5'	9:I:2147:G:O4'	2.50	0.49
9:I:2155:A:H1'	9:I:2156:G:H8	1.70	0.49
9:I:2190:G:O2'	9:I:2191:C:H5'	2.12	0.49
9:I:2488:C:C2'	41:q:10:LYS:HD3	2.42	0.49
9:I:2538:C:C4'	9:I:2605:A:N1	2.72	0.49
9:I:2619:G:O4'	37:m:38:GLY:C	2.55	0.49
9:I:2625:G:C4	16:R:77:HIS:CD2	3.00	0.49
9:I:2637:A:C2'	16:R:27:ARG:HH22	2.24	0.49
9:I:2667:U:H3'	9:I:2668:U:O4'	2.13	0.49
9:I:2772:C:C4'	20:V:24:MET:HE1	2.42	0.49
9:I:2892:C:H3'	9:I:2893:C:H6	1.77	0.49
9:I:2913:A:C2	9:I:2988:A:N6	2.77	0.49
9:I:2913:A:H1'	9:I:2915:G:N7	2.27	0.49
9:I:2930:G:N2	9:I:3009:A:H1'	2.12	0.49
9:I:2962:U:N3	9:I:3018:G:C6	2.73	0.49
9:I:2996:A:C2	9:I:2997:A:C8	3.00	0.49
9:I:3018:G:O3'	9:I:3019:A:O4'	2.31	0.49
9:I:3308:G:C6	9:I:3309:A:C6	3.01	0.49
9:I:3567:C:O2'	9:I:3568:U:H5'	2.12	0.49
9:I:3709:C:H2'	9:I:3710:G:C1'	2.42	0.49
9:I:3760:A:H4'	9:I:3761:A:C2	2.47	0.49
9:I:4022:U:OP1	37:m:31:PRO:CG	2.57	0.49
9:I:4131:U:C5'	12:L:45:TYR:CE2	2.96	0.49
9:I:4178:U:C4	9:I:4179:G:N7	2.81	0.49
9:I:4180:G:H3'	9:I:4181:U:C6	2.41	0.49
9:I:4182:G:C6	9:I:4214:U:OP2	2.64	0.49
9:I:4226:G:P	12:L:208:LYS:HZ1	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4234:A:N6	9:I:4257:G:O3'	2.44	0.49
10:J:14:A:H1'	10:J:108:A:N7	2.26	0.49
10:J:31:U:O5'	10:J:31:U:H6	1.95	0.49
10:J:115:G:C2	10:J:116:G:C5	3.01	0.49
11:K:139:THR:CA	11:K:161:VAL:O	2.56	0.49
11:K:143:VAL:HB	11:K:153:LEU:CD2	2.43	0.49
11:K:264:LYS:HG3	11:K:265:PHE:CD1	2.47	0.49
14:N:3:LEU:HG	14:N:100:GLU:OE2	2.13	0.49
14:N:49:LEU:HD11	14:N:85:GLY:C	2.38	0.49
15:O:84:LYS:HZ2	15:O:141:GLY:CA	2.26	0.49
16:R:15:TRP:CB	16:R:137:PRO:CG	2.90	0.49
16:R:38:GLY:C	16:R:40:HIS:N	2.68	0.49
16:R:55:ILE:HD11	16:R:123:LYS:HD2	1.94	0.49
16:R:76:HIS:HE1	16:R:87:ALA:HB2	1.77	0.49
18:T:118:THR:CG2	18:T:118:THR:O	2.61	0.49
19:U:28:PHE:HD1	19:U:104:GLU:OE1	1.94	0.49
20:V:41:ALA:HA	20:V:44:LEU:CD1	2.40	0.49
21:W:108:ILE:HD11	21:W:148:ILE:HD11	1.95	0.49
22:X:112:ALA:HB1	22:X:199:VAL:CG1	2.42	0.49
22:X:155:ARG:O	22:X:155:ARG:HG3	2.13	0.49
26:b:25:PHE:CE1	26:b:104:VAL:HG23	2.47	0.49
36:l:33:THR:HG23	36:l:34:LYS:H	1.75	0.49
38:n:89:VAL:HG22	38:n:114:LEU:HG	1.94	0.49
39:o:100:ARG:HG3	39:o:100:ARG:HH11	1.78	0.49
42:r:59:GLU:HG2	42:r:64:ALA:HA	1.95	0.49
42:r:71:VAL:HG13	42:r:74:ILE:HG12	1.95	0.49
44:t:3:LYS:C	44:t:93:ARG:HH11	2.17	0.49
44:t:10:VAL:HG12	44:t:71:ILE:CA	2.42	0.49
44:t:11:ILE:HD11	44:t:19:GLY:CA	2.42	0.49
44:t:69:VAL:O	44:t:69:VAL:HG23	2.12	0.49
45:u:2:PHE:CD1	45:u:50:MET:SD	3.06	0.49
48:x:33:SER:HB3	48:x:35:GLN:CG	2.42	0.49
1:A:5:MET:HG2	1:A:8:ARG:NH1	2.27	0.49
1:A:84:ARG:HH12	9:I:1059:U:C5'	2.25	0.49
9:I:78:G:C6	9:I:90:U:O4	2.65	0.49
9:I:121:G:H8	9:I:121:G:OP2	1.95	0.49
9:I:197:G:C2	9:I:219:G:H1'	2.48	0.49
9:I:259:G:OP2	9:I:259:G:H8	1.95	0.49
9:I:302:A:H2'	9:I:303:U:H5'	1.93	0.49
9:I:320:A:H4'	9:I:1435:U:C4'	2.43	0.49
9:I:395:C:C3'	9:I:396:A:H5''	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:399:C:O2'	9:I:400:C:H5'	2.13	0.49
9:I:435:C:O2'	9:I:436:U:H5'	2.13	0.49
9:I:606:A:C2'	9:I:607:A:H5'	2.43	0.49
9:I:731:C:H2'	9:I:732:G:H5'	1.94	0.49
9:I:857:G:H1	9:I:869:U:P	2.35	0.49
9:I:881:C:H41	31:g:5:GLN:NE2	2.10	0.49
9:I:939:C:H1'	9:I:1373:A:N1	2.27	0.49
9:I:1071:G:H22	21:W:103:THR:HG21	1.75	0.49
9:I:1421:G:O6	9:I:4382:U:C4	2.65	0.49
9:I:1583:A:H2'	9:I:1600:U:O4	2.13	0.49
9:I:1584:A:N1	9:I:1603:A:C8	2.80	0.49
9:I:1778:A:C2'	9:I:1778:A:N3	2.75	0.49
9:I:1782:A:C2	9:I:1783:G:C4	3.01	0.49
9:I:1806:U:H2'	9:I:1807:G:C8	2.47	0.49
9:I:1872:G:N2	9:I:1900:G:H2'	2.26	0.49
9:I:1891:A:H1'	9:I:1911:G:C4	2.48	0.49
9:I:1993:G:H2'	9:I:1994:G:C8	2.48	0.49
9:I:1997:A:C6	9:I:1998:G:C5	3.01	0.49
9:I:2072:A:H2	9:I:3527:A:H2	1.61	0.49
9:I:2077:G:C2	9:I:2078:G:C6	3.01	0.49
9:I:2203:U:C5	9:I:2230:A:N1	2.81	0.49
9:I:2253:A:C6	9:I:2254:U:C4	3.01	0.49
9:I:2254:U:H2'	9:I:2255:U:C6	2.47	0.49
9:I:2319:A:N1	9:I:2683:A:C4	2.81	0.49
9:I:2357:G:C5'	46:v:59:PHE:CB	2.87	0.49
9:I:2683:A:C6	9:I:2684:G:C4	3.00	0.49
9:I:2746:G:H4'	40:p:32:ARG:NH2	2.27	0.49
9:I:2907:A:N6	9:I:3084:A:H61	2.10	0.49
9:I:2942:G:C6	9:I:2958:G:O6	2.66	0.49
9:I:2972:G:O5'	9:I:2972:G:H8	1.94	0.49
9:I:3090:A:C6	9:I:3091:A:C6	3.01	0.49
9:I:3096:U:H4'	9:I:3097:A:OP2	2.12	0.49
9:I:3295:A:N1	11:K:261:ARG:NH1	2.44	0.49
9:I:3350:U:C2	9:I:3351:G:C8	3.01	0.49
9:I:3357:G:C5	9:I:3358:U:C4	3.01	0.49
9:I:3454:A:H2'	9:I:3455:C:C6	2.46	0.49
9:I:3466:G:C2	9:I:3467:G:N7	2.80	0.49
9:I:3604:G:H5'	9:I:3612:U:C2	2.47	0.49
9:I:3687:G:C6	9:I:3688:U:C5	3.00	0.49
9:I:3782:A:N6	9:I:3819:G:C1'	2.75	0.49
9:I:3790:U:H2'	38:n:8:ARG:HH12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3809:G:C2'	14:N:124:ARG:HG2	2.41	0.49
9:I:3863:A:N6	9:I:3876:G:H22	2.10	0.49
9:I:3880:A:C6	9:I:3881:U:O4	2.66	0.49
9:I:3939:2MG:H2'	9:I:3940:G:H8	1.78	0.49
9:I:4020:G:O6	9:I:4031:U:C4	2.66	0.49
9:I:4024:A:C5'	15:O:174:LYS:CG	2.87	0.49
9:I:4252:A:H1'	15:O:63:GLN:OE1	2.13	0.49
9:I:4252:A:O2'	15:O:37:ASN:CG	2.56	0.49
9:I:4288:C:C3'	9:I:4289:C:H6	2.23	0.49
10:J:43:G:H5'	10:J:44:A:C6	2.48	0.49
10:J:55:G:N2	10:J:58:A:C6	2.80	0.49
10:J:77:A:C6	10:J:78:G:C4	3.00	0.49
10:J:93:A:H2'	10:J:94:U:H6	1.76	0.49
11:K:81:GLU:HG3	11:K:82:TYR:C	2.37	0.49
11:K:106:PRO:HB2	11:K:193:GLU:O	2.13	0.49
11:K:167:ASP:N	11:K:167:ASP:OD2	2.46	0.49
11:K:170:TYR:HB2	11:K:183:VAL:O	2.13	0.49
13:M:147:LEU:HA	13:M:183:PHE:CD1	2.48	0.49
13:M:196:VAL:HG13	13:M:199:MET:CB	2.29	0.49
14:N:131:VAL:HG21	14:N:137:PHE:HE1	1.76	0.49
15:O:72:ASN:CA	15:O:75:VAL:HB	2.31	0.49
16:R:142:ILE:HG13	16:R:142:ILE:O	2.12	0.49
19:U:99:GLY:CA	45:u:82:TYR:HD1	2.25	0.49
19:U:119:LEU:HG	19:U:123:LYS:CG	2.41	0.49
23:Y:75:TYR:O	23:Y:78:ALA:HB3	2.13	0.49
24:Z:97:ILE:CG2	24:Z:115:LEU:HD12	2.42	0.49
27:c:110:MET:CG	27:c:114:ALA:HB3	2.42	0.49
29:e:48:LEU:HD23	29:e:58:ARG:HG2	1.94	0.49
30:f:11:ILE:N	30:f:73:MET:HE3	2.27	0.49
30:f:19:ILE:HG22	30:f:34:THR:CB	2.43	0.49
31:g:3:VAL:HG22	31:g:7:VAL:HG23	1.95	0.49
34:j:35:LYS:HE2	34:j:46:TYR:CE2	2.47	0.49
37:m:18:LYS:HG2	37:m:20:ASP:O	2.12	0.49
37:m:24:ARG:CG	37:m:36:ARG:HD2	2.38	0.49
38:n:17:LEU:CG	38:n:41:PRO:HB3	2.43	0.49
41:q:65:ALA:C	41:q:66:HIS:HD2	2.20	0.49
42:r:97:LEU:HD23	42:r:97:LEU:C	2.38	0.49
43:s:16:VAL:C	43:s:21:SER:OG	2.55	0.49
44:t:23:LYS:N	44:t:35:VAL:HG12	2.27	0.49
3:C:64:GLY:N	9:I:226:G:N1	2.60	0.49
5:E:42:ARG:CG	25:a:86:ARG:HH12	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:79:ALA:HA	7:G:82:ASN:HD21	1.76	0.49
8:H:18:PHE:CD2	30:f:85:ILE:HG21	2.48	0.49
9:I:53:C:H2'	9:I:53:C:O2	2.12	0.49
9:I:158:G:H5'	9:I:159:A:OP2	2.12	0.49
9:I:247:C:O4'	9:I:281:A:H2	1.96	0.49
9:I:296:G:H4'	9:I:556:G:H4'	1.93	0.49
9:I:315:C:O2'	9:I:316:U:H5'	2.13	0.49
9:I:625:G:O2'	9:I:626:G:H5'	2.13	0.49
9:I:931:C:C2	9:I:1385:G:C2	3.01	0.49
9:I:1164:U:C2	9:I:1165:G:C8	3.01	0.49
9:I:1298:A:HO2'	9:I:1300:U:H6	1.59	0.49
9:I:1480:U:H2'	9:I:1481:G:C8	2.45	0.49
9:I:1572:U:O2	48:x:54:THR:OG1	2.29	0.49
9:I:1634:G:C6	9:I:1646:A:C5	3.00	0.49
9:I:1652:A:C2'	9:I:1653:U:H5'	2.43	0.49
9:I:1791:G:C2'	9:I:1792:U:C6	2.93	0.49
9:I:1797:G:H5''	44:t:85:ARG:HA	1.95	0.49
9:I:1807:G:H22	9:I:1809:A:H3'	1.76	0.49
9:I:1833:G:C2	9:I:1834:C:C4	3.01	0.49
9:I:1854:A:C2	9:I:1855:U:H1'	2.48	0.49
9:I:2635:U:OP2	16:R:65:THR:OG1	2.26	0.49
9:I:2637:A:C4	16:R:27:ARG:NH2	2.81	0.49
9:I:2912:G:H1'	9:I:3074:A:H61	1.78	0.49
9:I:2946:G:C4	9:I:4196:G:C6	3.01	0.49
9:I:3079:C:O5'	9:I:3080:A:N7	2.46	0.49
9:I:3121:G:C6	9:I:3134:A:N6	2.81	0.49
9:I:3208:U:H3'	9:I:3208:U:C6	2.48	0.49
9:I:3292:U:H5	11:K:270:ARG:NE	2.11	0.49
9:I:3293:G:H2'	11:K:179:GLU:OE1	2.13	0.49
9:I:3348:A:C8	9:I:3349:U:H6	2.31	0.49
9:I:3413:A:H3'	9:I:3414:C:C6	2.48	0.49
9:I:3495:C:C2'	9:I:3496:G:O5'	2.60	0.49
9:I:3586:U:C4'	9:I:3587:G:HO2'	2.25	0.49
9:I:3608:A:H61	9:I:3664:A:N6	2.11	0.49
9:I:3621:G:H5'	9:I:3622:G:P	2.52	0.49
9:I:3683:U:C3'	9:I:3684:G:H5'	2.43	0.49
9:I:3705:A:H2'	9:I:3705:A:N3	2.27	0.49
9:I:3746:G:C2	9:I:3747:G:H1'	2.48	0.49
9:I:3777:C:H2'	9:I:3778:A:C5'	2.43	0.49
9:I:3797:G:N1	9:I:3808:A:N7	2.61	0.49
9:I:3805:A:H4'	14:N:71:LYS:HZ1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3823:U:C4	9:I:3824:G:C6	3.01	0.49
9:I:3843:G:OP2	36:l:41:ARG:HD3	2.13	0.49
9:I:3867:G:C2	9:I:3875:A:C2	3.01	0.49
9:I:3876:G:OP1	9:I:3876:G:H2'	2.13	0.49
9:I:4022:U:C4	9:I:4024:A:C4	3.00	0.49
9:I:4209:C:H2'	9:I:4210:C:H6	1.77	0.49
9:I:4242:A:O2'	15:O:3:VAL:HB	2.12	0.49
9:I:4267:C:C5'	12:L:171:THR:OG1	2.61	0.49
10:J:5:G:H5'	10:J:27:C:P	2.52	0.49
10:J:108:A:H2'	10:J:109:C:H6	1.75	0.49
11:K:74:PRO:CB	11:K:96:LYS:HB2	2.36	0.49
12:L:14:ILE:HD11	12:L:24:VAL:CG2	2.42	0.49
12:L:19:GLY:HA2	39:o:79:VAL:HG23	1.95	0.49
13:M:18:THR:HG22	13:M:109:LEU:HD23	1.95	0.49
13:M:147:LEU:N	13:M:183:PHE:HB3	2.28	0.49
14:N:30:VAL:CG1	14:N:168:LEU:CD2	2.87	0.49
16:R:15:TRP:CD1	16:R:53:TYR:CB	2.96	0.49
17:S:1:MET:H2	17:S:65:THR:HG21	1.76	0.49
17:S:70:ARG:NH1	17:S:74:GLY:HA2	2.28	0.49
17:S:85:VAL:CG1	17:S:94:PRO:CG	2.91	0.49
19:U:12:MET:HG2	19:U:71:LYS:HD3	1.94	0.49
21:W:24:MET:CG	21:W:190:PRO:HD3	2.43	0.49
21:W:126:LEU:HD12	21:W:130:GLU:CB	2.43	0.49
26:b:105:GLU:CB	26:b:108:ARG:HH21	2.25	0.49
26:b:129:ASN:O	26:b:129:ASN:ND2	2.46	0.49
27:c:6:ILE:HA	27:c:32:LYS:HE2	1.95	0.49
32:h:39:ALA:C	32:h:42:VAL:HG22	2.37	0.49
32:h:95:PRO:HD2	32:h:101:THR:CG2	2.42	0.49
38:n:9:ARG:CZ	38:n:12:ARG:HH12	2.26	0.49
39:o:20:ARG:H	39:o:23:ASP:CG	2.20	0.49
41:q:35:PHE:CB	41:q:59:ILE:HD12	2.42	0.49
41:q:43:ASN:O	41:q:44:GLY:C	2.56	0.49
42:r:26:GLY:H	42:r:71:VAL:CG1	2.26	0.49
43:s:82:LYS:HG2	43:s:83:ALA:N	2.28	0.49
45:u:6:ALA:C	45:u:65:VAL:HG22	2.37	0.49
46:v:22:LEU:HA	46:v:54:ASP:HA	1.95	0.49
46:v:28:VAL:O	46:v:49:LEU:N	2.38	0.49
46:v:36:HIS:CD2	46:v:67:ARG:CG	2.96	0.49
46:v:42:GLY:C	46:v:49:LEU:HD23	2.37	0.49
46:v:43:CYS:SG	46:v:47:HIS:CG	3.06	0.49
1:A:27:LYS:HZ2	1:A:47:LEU:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:ARG:NE	1:A:42:ASN:HD21	2.11	0.48
1:A:52:ARG:NH1	9:I:1218:A:O2'	2.46	0.48
1:A:73:LEU:O	1:A:77:GLY:N	2.44	0.48
2:B:10:ILE:HD13	2:B:29:ALA:O	2.13	0.48
2:B:39:GLN:O	2:B:43:ALA:N	2.46	0.48
3:C:40:ASN:CG	3:C:43:ALA:HB2	2.38	0.48
9:I:378:C:C4	9:I:379:G:C5	3.01	0.48
9:I:663:G:H5'	9:I:664:A:OP2	2.12	0.48
9:I:675:A:H5'	30:f:103:PRO:HB3	1.95	0.48
9:I:809:C:H2'	9:I:810:C:N1	2.27	0.48
9:I:950:G:C2'	9:I:951:U:O4'	2.61	0.48
9:I:1129:A:C4'	28:d:17:PHE:CE2	2.96	0.48
9:I:1228:A:N6	32:h:103:THR:HG22	2.28	0.48
9:I:1250:A:H2	9:I:1368:C:H1'	1.77	0.48
9:I:1440:A:N6	9:I:4366:C:O2'	2.45	0.48
9:I:1463:G:C5	9:I:4343:U:O4	2.66	0.48
9:I:1569:C:H4'	9:I:1575:G:C8	2.48	0.48
9:I:1690:A:HO2'	9:I:1691:A:C5'	2.22	0.48
9:I:1877:G:C2'	9:I:1878:C:C5'	2.90	0.48
9:I:1964:U:O2'	9:I:1965:G:P	2.71	0.48
9:I:2013:A:H8	9:I:2013:A:O5'	1.96	0.48
9:I:2048:G:O2'	9:I:2049:G:C8	2.66	0.48
9:I:2117:G:O2'	9:I:2118:G:H5'	2.13	0.48
9:I:2127:A:P	18:T:78:ARG:HH21	2.36	0.48
9:I:2371:U:H6	9:I:2371:U:H3'	1.78	0.48
9:I:2450:G:H21	9:I:2453:A:H8	1.59	0.48
9:I:2497:G:H2'	9:I:2497:G:N3	2.26	0.48
9:I:2535:G:C4	9:I:2536:G:C8	3.02	0.48
9:I:2550:G:HO2'	9:I:2580:A:H1'	1.78	0.48
9:I:2707:A:C1'	9:I:2731:A:C2	2.96	0.48
9:I:2892:C:H3'	9:I:2893:C:C6	2.48	0.48
9:I:2915:G:C8	9:I:2915:G:O5'	2.66	0.48
9:I:2933:A:C4	9:I:3047:A:N6	2.80	0.48
9:I:2994:G:H2'	9:I:2995:G:N9	2.28	0.48
9:I:3019:A:O2'	9:I:3020:C:H5'	2.12	0.48
9:I:3068:C:H2'	9:I:3069:C:H6	1.78	0.48
9:I:3076:C:H2'	9:I:3077:A:O4'	2.12	0.48
9:I:3159:A:C5'	17:S:66:LYS:CD	2.90	0.48
9:I:3211:A:P	9:I:3212:G:N7	2.86	0.48
9:I:3293:G:C8	11:K:175:LEU:CD1	2.89	0.48
9:I:3401:G:N1	9:I:3418:C:N3	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3586:U:C4'	9:I:3587:G:H4'	2.43	0.48
9:I:3587:G:C5	9:I:3719:A:C4	3.01	0.48
9:I:3608:A:H2'	9:I:3661:U:H5'	1.95	0.48
9:I:3710:G:H2'	9:I:3711:G:H8	1.78	0.48
9:I:3810:G:H2'	9:I:3811:A:H1'	1.94	0.48
9:I:4174:U:P	12:L:194:PRO:HA	2.52	0.48
9:I:4201:U:H5'	9:I:4202:G:OP1	2.13	0.48
9:I:4202:G:C8	9:I:4202:G:OP2	2.67	0.48
9:I:4232:A:C2	9:I:4261:C:N3	2.81	0.48
9:I:4401:G:O2'	9:I:4402:UR3:H5'	2.13	0.48
11:K:77:VAL:CG2	11:K:91:ALA:HB1	2.39	0.48
11:K:118:GLY:O	11:K:129:LEU:HB3	2.13	0.48
11:K:243:PRO:O	11:K:252:LYS:NZ	2.45	0.48
12:L:111:GLY:H	12:L:170:VAL:H	1.61	0.48
12:L:149:ASN:OD1	12:L:150:GLN:N	2.46	0.48
13:M:42:GLY:O	13:M:44:ARG:HG2	2.13	0.48
13:M:104:ALA:C	13:M:107:SER:H	2.20	0.48
14:N:9:ASP:CG	14:N:10:GLU:HG3	2.38	0.48
15:O:3:VAL:HG12	15:O:68:ARG:CB	2.41	0.48
15:O:104:LEU:HD21	15:O:150:TYR:CE2	2.48	0.48
16:R:41:LYS:HZ2	16:R:51:GLY:HA2	1.78	0.48
19:U:50:ARG:NH1	19:U:54:THR:OG1	2.45	0.48
19:U:69:PRO:O	19:U:70:ASP:HB2	2.13	0.48
20:V:3:HIS:C	20:V:4:ARG:HG2	2.38	0.48
21:W:22:PRO:HB3	21:W:25:LYS:CE	2.43	0.48
21:W:100:ASN:CG	21:W:103:THR:HB	2.37	0.48
21:W:126:LEU:HD12	21:W:131:ALA:N	2.27	0.48
21:W:160:VAL:HB	21:W:182:ALA:HB2	1.94	0.48
23:Y:105:GLY:O	23:Y:158:LEU:HA	2.13	0.48
24:Z:1:GLU:CD	24:Z:32:ASP:HB2	2.37	0.48
27:c:9:MET:HB2	27:c:26:MET:SD	2.53	0.48
30:f:11:ILE:HA	30:f:20:VAL:HG22	1.95	0.48
32:h:32:ILE:HD11	32:h:59:VAL:HA	1.94	0.48
37:m:7:VAL:CG1	37:m:35:GLN:HG2	2.37	0.48
43:s:63:VAL:O	43:s:79:ASP:HB3	2.13	0.48
44:t:39:ASN:CB	44:t:62:ALA:HB3	2.43	0.48
44:t:80:ASP:OD2	44:t:95:PHE:HB3	2.13	0.48
48:x:10:VAL:HG13	48:x:56:LEU:HB3	1.94	0.48
48:x:23:GLU:HA	48:x:26:ASN:ND2	2.28	0.48
49:y:26:LEU:CD1	49:y:46:MET:HE2	2.43	0.48
1:A:19:TYR:CE2	1:A:51:PRO:HG2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:13:LYS:O	9:I:274:G:C4'	2.61	0.48
5:E:5:LYS:HG2	25:a:59:TYR:CE2	2.47	0.48
8:H:11:PHE:CE2	30:f:72:VAL:HG21	2.48	0.48
9:I:224:C:C3'	9:I:225:G:H5''	2.42	0.48
9:I:272:U:O5'	9:I:272:U:H6	1.96	0.48
9:I:299:A:O2'	9:I:563:C:N4	2.36	0.48
9:I:342:U:C2'	9:I:345:G:O6	2.59	0.48
9:I:776:A:O2'	9:I:777:G:H5'	2.13	0.48
9:I:777:G:H3'	9:I:778:C:O4'	2.13	0.48
9:I:863:A:H5''	24:Z:81:THR:CG2	2.42	0.48
9:I:961:C:H1'	9:I:1200:A:C4	2.48	0.48
9:I:969:C:H5''	9:I:971:C:O4'	2.13	0.48
9:I:1089:U:H1'	9:I:1170:A:H4'	1.94	0.48
9:I:1094:U:N3	9:I:1095:C:C5	2.81	0.48
9:I:1116:A:C2	9:I:1155:G:N2	2.81	0.48
9:I:1305:A:H2'	9:I:1306:U:C5'	2.43	0.48
9:I:1355:G:H2'	9:I:1356:A:H8	1.72	0.48
9:I:1549:A:H4'	9:I:1550:U:C5'	2.43	0.48
9:I:1586:G:H2'	9:I:1587:U:C6	2.49	0.48
9:I:1590:U:C4	9:I:1591:A:C2	3.01	0.48
9:I:1615:C:O2'	9:I:1616:C:H5'	2.13	0.48
9:I:1641:G:OP2	9:I:1642:A:C6	2.66	0.48
9:I:1798:G:H1'	9:I:1840:A:H62	1.77	0.48
9:I:1815:G:C2	9:I:1816:C:H1'	2.48	0.48
9:I:1920:C:C2	9:I:1921:C:C5	3.01	0.48
9:I:1964:U:O2'	9:I:1965:G:OP1	2.29	0.48
9:I:2040:C:N3	9:I:2041:A:N7	2.60	0.48
9:I:2059:G:C2'	9:I:2060:C:O5'	2.62	0.48
9:I:2294:A:C4	9:I:2295:C:C5	3.02	0.48
9:I:2369:G:N7	9:I:2370:U:C4	2.81	0.48
9:I:2373:C:N4	9:I:2374:G:O6	2.46	0.48
9:I:2809:C:O2'	9:I:2810:U:H5'	2.13	0.48
9:I:2913:A:C5	9:I:3073:A:C5	3.01	0.48
9:I:2949:G:H2'	9:I:2950:G:C5'	2.41	0.48
9:I:3149:A:H2'	9:I:3150:C:O4'	2.13	0.48
9:I:3215:G:H2'	9:I:3232:G:N1	2.29	0.48
9:I:3299:A:N6	9:I:3307:G:O6	2.46	0.48
9:I:3325:G:C2	9:I:3469:G:C4	3.01	0.48
9:I:3585:C:C4	9:I:3586:U:C4	3.02	0.48
9:I:3596:G:H2'	9:I:3597:C:O4'	2.12	0.48
9:I:3681:U:H2'	9:I:3682:U:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3696:U:C2	9:I:3715:G:N1	2.78	0.48
9:I:3787:G:C8	9:I:3787:G:H3'	2.47	0.48
9:I:3825:G:C2'	9:I:3826:C:O4'	2.60	0.48
9:I:3842:U:C1'	34:j:36:PHE:HE2	2.25	0.48
9:I:3951:PSU:H2'	9:I:3952:G:H8	1.74	0.48
9:I:3961:C:H5'	37:m:8:LYS:HZ1	1.78	0.48
9:I:4109:U:C2	33:i:3:GLN:HA	2.48	0.48
9:I:4113:C:OP1	12:L:157:LYS:NZ	2.46	0.48
9:I:4219:A:O2'	9:I:4221:A:N7	2.36	0.48
9:I:4237:U:O5'	9:I:4249:C:N4	2.47	0.48
9:I:4241:G:O3'	15:O:69:ALA:CB	2.61	0.48
9:I:4270:A:H2'	9:I:4276:G:O6	2.13	0.48
9:I:4340:G:OP1	39:o:50:ARG:HG3	2.13	0.48
10:J:32:G:N2	10:J:34:C:C5	2.80	0.48
10:J:41:C:O2'	14:N:63:LYS:N	2.46	0.48
10:J:42:C:C2	10:J:44:A:N7	2.81	0.48
10:J:49:A:OP1	38:n:67:LYS:N	2.46	0.48
11:K:1:ALA:N	11:K:19:VAL:HB	2.27	0.48
11:K:51:ARG:HH12	11:K:247:TRP:HH2	1.60	0.48
11:K:75:ALA:CA	11:K:94:LEU:O	2.61	0.48
11:K:143:VAL:HB	11:K:153:LEU:CG	2.43	0.48
11:K:157:ALA:O	11:K:194:VAL:O	2.31	0.48
12:L:9:VAL:HG11	12:L:26:VAL:HG12	1.94	0.48
12:L:104:VAL:CG2	12:L:106:LYS:O	2.60	0.48
13:M:124:PHE:CE2	13:M:169:VAL:CG2	2.95	0.48
14:N:35:LEU:HD21	14:N:98:PHE:CZ	2.48	0.48
16:R:40:HIS:HB2	40:p:70:GLN:OE1	2.13	0.48
16:R:42:ALA:O	40:p:63:ARG:NH1	2.46	0.48
16:R:86:GLN:HE22	16:R:88:THR:CG2	2.26	0.48
17:S:13:ASN:CG	17:S:98:ARG:H	2.21	0.48
17:S:65:THR:O	17:S:79:PHE:CB	2.52	0.48
17:S:107:LEU:HD12	17:S:112:PHE:CE2	2.48	0.48
18:T:91:ASP:C	18:T:93:ASN:N	2.71	0.48
19:U:6:ARG:HH22	19:U:8:LYS:CA	2.23	0.48
21:W:20:TRP:CZ3	21:W:22:PRO:HA	2.48	0.48
21:W:33:ASN:O	21:W:34:LYS:HG2	2.13	0.48
24:Z:2:LEU:HB3	24:Z:4:GLU:OE1	2.14	0.48
24:Z:124:PRO:O	24:Z:128:VAL:HG12	2.13	0.48
25:a:6:ILE:C	25:a:61:LEU:HD12	2.37	0.48
26:b:30:MET:HE3	26:b:33:GLY:N	2.27	0.48
28:d:28:ASN:OD1	28:d:63:THR:HB	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:d:50:GLU:HA	28:d:50:GLU:OE2	2.13	0.48
30:f:17:ASN:OD1	30:f:18:THR:N	2.45	0.48
39:o:46:VAL:HG13	39:o:59:THR:CB	2.43	0.48
39:o:108:ARG:HG3	39:o:108:ARG:HH11	1.78	0.48
40:p:80:ASN:OD1	40:p:84:LYS:NZ	2.46	0.48
46:v:19:GLU:HB3	46:v:57:VAL:HG23	1.94	0.48
46:v:56:LYS:HE2	46:v:75:GLU:OE2	2.12	0.48
1:A:13:VAL:HG13	1:A:59:GLN:OE1	2.13	0.48
4:D:44:HIS:H	4:D:71:THR:HA	1.78	0.48
9:I:334:C:C2	9:I:335:A:C8	3.00	0.48
9:I:787:U:N3	9:I:791:A:O2'	2.45	0.48
9:I:808:G:C2'	9:I:809:C:H5'	2.43	0.48
9:I:973:A:H5''	9:I:974:A:C3'	2.27	0.48
9:I:1067:G:H2'	9:I:1068:C:C6	2.48	0.48
9:I:1124:U:OP2	9:I:1144:A:N6	2.45	0.48
9:I:1343:C:H1'	9:I:1348:A:H4'	1.95	0.48
9:I:1377:C:C2	9:I:1378:G:H1'	2.48	0.48
9:I:1394:C:O2'	9:I:1395:A:H5'	2.12	0.48
9:I:1501:G:N3	9:I:1501:G:C2'	2.75	0.48
9:I:1572:U:O2	48:x:54:THR:N	2.46	0.48
9:I:1658:U:O2	9:I:1668:G:C2	2.66	0.48
9:I:1670:U:C2	9:I:1671:U:C5	3.00	0.48
9:I:1714:G:C5	9:I:1715:G:C6	3.02	0.48
9:I:1802:C:OP1	44:t:78:LYS:HD3	2.13	0.48
9:I:1873:U:O5'	9:I:1873:U:C6	2.66	0.48
9:I:1875:G:C2'	9:I:1876:G:C5'	2.91	0.48
9:I:1908:G:O6	9:I:1919:U:O4	2.29	0.48
9:I:1993:G:H2'	9:I:1994:G:H8	1.78	0.48
9:I:2193:A:OP2	11:K:38:LYS:HD2	2.12	0.48
9:I:2348:C:C2	9:I:2349:A:C8	3.02	0.48
9:I:2401:G:OP1	19:U:23:GLY:HA2	2.12	0.48
9:I:2688:A:C2	9:I:2689:G:C1'	2.96	0.48
9:I:2910:G:C5	9:I:2911:C:C4	3.02	0.48
9:I:2976:G:C2	9:I:3002:A:C8	3.01	0.48
9:I:3009:A:O5'	9:I:3051:C:P	2.71	0.48
9:I:3073:A:C2'	9:I:3074:A:C8	2.95	0.48
9:I:3074:A:N7	9:I:3075:G:C5	2.81	0.48
9:I:3170:A:H2'	9:I:3171:A:C1'	2.44	0.48
9:I:3276:U:H2'	9:I:3277:A:H5'	1.96	0.48
9:I:3362:C:H42	9:I:3368:C:N4	2.10	0.48
9:I:3383:A:H2'	9:I:3384:A:H8	1.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3395:A:C5	9:I:3396:C:C5	3.02	0.48
9:I:3435:C:H3'	9:I:3436:C:H6	1.77	0.48
9:I:3578:C:O2	9:I:3578:C:C2'	2.53	0.48
9:I:3603:U:OP1	9:I:3643:U:O2	2.30	0.48
9:I:3690:C:H2'	9:I:3691:U:O4'	2.13	0.48
9:I:3780:G:H1'	9:I:3781:A:C2	2.48	0.48
9:I:3806:U:O2'	14:N:36:ASN:OD1	2.31	0.48
9:I:3808:A:O2'	9:I:3809:G:O5'	2.20	0.48
9:I:3814:U:H5'	9:I:3815:U:C5	2.48	0.48
9:I:3816:A:O2'	9:I:3817:G:H5'	2.13	0.48
9:I:3825:G:C6	9:I:3826:C:C4	3.02	0.48
9:I:4126:A:H2'	9:I:4127:G:H8	1.78	0.48
9:I:4193:C:O3'	9:I:4194:A:O4'	2.31	0.48
9:I:4204:C:C2'	9:I:4205:A:O4'	2.61	0.48
9:I:4215:A:C2'	9:I:4216:G:O4'	2.60	0.48
9:I:4233:U:H3'	9:I:4257:G:O6	2.13	0.48
9:I:4235:A:H62	9:I:4257:G:H1'	1.75	0.48
9:I:4242:A:OP2	9:I:4248:U:O4	2.31	0.48
9:I:4252:A:N3	9:I:4252:A:H2'	2.29	0.48
9:I:4286:A:C2	9:I:4299:C:C2	3.00	0.48
9:I:4287:C:O2	9:I:4298:U:C2	2.66	0.48
9:I:4326:U:H5''	9:I:4327:U:N1	2.27	0.48
10:J:34:C:H2'	10:J:35:C:O4'	2.13	0.48
10:J:35:C:C6	10:J:36:C:C5	3.00	0.48
10:J:75:G:H5'	45:u:27:PRO:CB	2.43	0.48
13:M:22:ASP:HA	13:M:114:ARG:NH2	2.28	0.48
14:N:58:ALA:HB3	14:N:140:ILE:HD11	1.95	0.48
16:R:16:TYR:CD1	16:R:138:GLN:CG	2.95	0.48
16:R:59:ALA:HB3	16:R:126:ALA:CB	2.43	0.48
18:T:94:THR:CA	18:T:97:ALA:HB3	2.34	0.48
19:U:47:GLU:O	19:U:51:ARG:N	2.21	0.48
19:U:62:LYS:O	19:U:105:MET:HG2	2.14	0.48
19:U:101:VAL:HG11	19:U:104:GLU:OE2	2.12	0.48
20:V:97:ILE:C	20:V:98:LEU:HG	2.36	0.48
21:W:32:ARG:HG2	21:W:37:ILE:HG13	1.95	0.48
24:Z:148:ARG:CG	24:Z:149:GLY:H	2.13	0.48
27:c:23:ALA:HB1	27:c:60:LEU:O	2.13	0.48
27:c:107:LYS:HA	27:c:107:LYS:HE3	1.95	0.48
28:d:36:PHE:CD1	28:d:69:ILE:HD12	2.49	0.48
32:h:47:LEU:HD22	32:h:52:ILE:HD13	1.95	0.48
34:j:36:PHE:HB2	34:j:43:HIS:CE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:60:TRP:O	40:p:63:ARG:N	2.46	0.48
41:q:27:ILE:CG2	41:q:31:GLU:HG3	2.42	0.48
41:q:29:THR:O	41:q:64:VAL:C	2.57	0.48
43:s:30:ILE:CB	43:s:87:LEU:HD21	2.43	0.48
44:t:71:ILE:HG21	44:t:95:PHE:HZ	1.74	0.48
45:u:53:LYS:NZ	45:u:55:GLU:OE1	2.46	0.48
45:u:86:LEU:HB3	45:u:89:ILE:CD1	2.39	0.48
45:u:88:HIS:C	45:u:89:ILE:HG13	2.38	0.48
46:v:13:VAL:CG2	46:v:35:PHE:CZ	2.96	0.48
46:v:13:VAL:CG1	46:v:59:PHE:HZ	2.19	0.48
46:v:14:LYS:HE3	46:v:29:ARG:HE	1.78	0.48
47:w:61:LYS:HE3	47:w:61:LYS:HA	1.95	0.48
49:y:23:LEU:HA	49:y:26:LEU:HD12	1.94	0.48
4:D:15:GLU:O	9:I:272:U:O5'	2.32	0.48
4:D:55:VAL:HB	4:D:76:VAL:O	2.13	0.48
4:D:63:PRO:HB3	4:D:69:SER:CB	2.44	0.48
5:E:42:ARG:HH12	9:I:735:C:C4'	2.27	0.48
8:H:3:ILE:HD12	30:f:72:VAL:O	2.13	0.48
9:I:55:U:O5'	9:I:55:U:H6	1.97	0.48
9:I:159:A:C2'	9:I:160:A:O4'	2.61	0.48
9:I:374:U:H2'	9:I:375:G:H5'	1.94	0.48
9:I:500:C:C2'	9:I:548:C:HO2'	2.25	0.48
9:I:721:G:C5	9:I:723:G:H1'	2.47	0.48
9:I:792:U:O2	9:I:4420:2MG:H4'	2.14	0.48
9:I:854:U:H2'	9:I:855:C:H6	1.78	0.48
9:I:1117:U:H1'	9:I:1178:A:N7	2.28	0.48
9:I:1359:A:C2'	9:I:1360:G:H5'	2.42	0.48
9:I:1398:C:O2	9:I:4406:A:N6	2.46	0.48
9:I:1415:G:C2	9:I:1416:G:H1'	2.48	0.48
9:I:1434:G:H2'	9:I:1435:U:C6	2.49	0.48
9:I:1467:U:OP2	9:I:1467:U:H6	1.96	0.48
9:I:1521:A:H2'	9:I:1522:C:O4'	2.12	0.48
9:I:1660:A:C6	9:I:1666:U:O2	2.66	0.48
9:I:1791:G:C5	9:I:1792:U:C4	3.02	0.48
9:I:1820:A:H8	13:M:132:LYS:HD2	1.69	0.48
9:I:1829:G:C8	44:t:15:GLY:HA3	2.48	0.48
9:I:1936:C:C2	9:I:1937:U:C5	3.02	0.48
9:I:1964:U:H2'	9:I:1965:G:O4'	2.14	0.48
9:I:2132:A:H2'	9:I:2133:A:O4'	2.13	0.48
9:I:2143:A:N7	34:j:41:ARG:NH2	2.62	0.48
9:I:2328:U:C4'	9:I:2331:G:H1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2332:U:OP1	18:T:38:GLN:HB3	2.13	0.48
9:I:2346:U:C6	9:I:2347:U:C6	3.01	0.48
9:I:2371:U:O2	9:I:2401:G:C5	2.66	0.48
9:I:2448:G:H2'	9:I:2448:G:N3	2.28	0.48
9:I:2618:G:C4	37:m:37:GLN:NE2	2.82	0.48
9:I:2634:C:C5'	16:R:24:THR:HG21	2.43	0.48
9:I:2700:G:C2'	9:I:2701:C:O4'	2.61	0.48
9:I:2892:C:O2	9:I:2892:C:C2'	2.54	0.48
9:I:2899:U:H3'	9:I:2900:U:H6	1.78	0.48
9:I:2916:G:O4'	9:I:2990:A:N6	2.44	0.48
9:I:2938:G:H2'	9:I:2939:G:H5'	1.95	0.48
9:I:2986:G:N3	9:I:2986:G:H2'	2.27	0.48
9:I:3009:A:O5'	9:I:3051:C:O5'	2.31	0.48
9:I:3022:A:H2'	9:I:3023:G:O4'	2.12	0.48
9:I:3022:A:C6	9:I:3023:G:H1'	2.49	0.48
9:I:3022:A:C5	9:I:3038:A:N7	2.81	0.48
9:I:3059:C:C5	11:K:25:LYS:CB	2.97	0.48
9:I:3159:A:H4'	17:S:67:LYS:HE3	1.94	0.48
9:I:3241:U:H2'	9:I:3241:U:O2	2.12	0.48
9:I:3255:C:H2'	9:I:3256:A:H8	1.77	0.48
9:I:3435:C:H3'	9:I:3436:C:C6	2.48	0.48
9:I:3692:A:N9	9:I:3693:A:C8	2.81	0.48
9:I:3693:A:P	47:w:36:ARG:NH1	2.86	0.48
9:I:3716:C:H2'	9:I:3717:G:C8	2.48	0.48
9:I:3775:A:O4'	9:I:3882:A:C6	2.66	0.48
9:I:3840:A:OP1	9:I:3840:A:C2'	2.57	0.48
9:I:3865:G:N2	9:I:3866:U:C1'	2.74	0.48
9:I:3882:A:OP1	9:I:3882:A:H4'	2.12	0.48
9:I:3938:G:C4	9:I:3939:2MG:C8	3.01	0.48
9:I:3969:C:H42	9:I:4023:G:H22	1.59	0.48
9:I:4037:G:C8	9:I:4260:A:H5'	2.48	0.48
9:I:4168:G:C2	9:I:4169:A:C4	3.01	0.48
9:I:4186:G:H21	9:I:4342:G:H5''	1.79	0.48
9:I:4270:A:C4	9:I:4276:G:N7	2.81	0.48
9:I:4284:U:H6	9:I:4284:U:O5'	1.95	0.48
9:I:4329:A:H4'	9:I:4330:U:H6	1.78	0.48
10:J:32:G:C2	10:J:34:C:H5	2.32	0.48
10:J:34:C:C2	10:J:35:C:C6	3.01	0.48
10:J:45:A:N1	10:J:46:C:C2	2.81	0.48
11:K:16:VAL:C	11:K:202:ARG:HG2	2.37	0.48
11:K:20:ASN:OD1	11:K:21:PRO:CD	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:172:THR:HA	11:K:182:LYS:HA	1.94	0.48
12:L:25:THR:CB	12:L:189:VAL:HG22	2.42	0.48
12:L:104:VAL:HG23	12:L:205:PRO:HB3	1.93	0.48
13:M:19:PHE:HE1	13:M:109:LEU:CG	2.26	0.48
13:M:21:ARG:H	13:M:110:SER:HB3	1.78	0.48
13:M:136:GLN:HB3	13:M:137:LYS:HD2	1.94	0.48
13:M:139:LYS:HD2	13:M:139:LYS:C	2.38	0.48
13:M:155:GLU:HG2	13:M:156:ASN:N	2.28	0.48
13:M:164:LEU:CB	13:M:167:VAL:HB	2.44	0.48
14:N:56:LEU:HB3	14:N:64:PRO:CG	2.43	0.48
15:O:40:VAL:O	15:O:54:ARG:NE	2.46	0.48
19:U:43:ALA:HA	19:U:46:ILE:CG1	2.42	0.48
20:V:13:ASN:C	20:V:17:ARG:HG3	2.38	0.48
20:V:67:PHE:N	20:V:76:VAL:HG11	2.29	0.48
21:W:57:ILE:HG23	21:W:62:GLY:HA3	1.94	0.48
22:X:41:TYR:CE1	22:X:86:LEU:HD23	2.48	0.48
23:Y:35:GLN:HG2	23:Y:41:GLY:C	2.39	0.48
23:Y:120:LYS:O	23:Y:145:ARG:NH1	2.47	0.48
23:Y:123:MET:HA	23:Y:128:VAL:HA	1.95	0.48
26:b:97:ALA:O	26:b:101:ARG:HB2	2.12	0.48
26:b:110:ARG:H	26:b:118:ARG:NH2	2.02	0.48
27:c:95:MET:O	27:c:95:MET:SD	2.71	0.48
28:d:76:ILE:O	28:d:80:ILE:HG13	2.14	0.48
29:e:3:ARG:HD2	29:e:98:LEU:O	2.14	0.48
30:f:9:ALA:O	30:f:11:ILE:HD12	2.12	0.48
30:f:55:ALA:HB3	30:f:87:ALA:CB	2.31	0.48
31:g:6:LEU:HD23	31:g:6:LEU:O	2.12	0.48
31:g:90:PRO:C	31:g:92:VAL:H	2.20	0.48
31:g:108:ASP:OD2	31:g:110:LYS:HE2	2.12	0.48
33:i:1:ALA:O	33:i:2:VAL:HG23	2.14	0.48
38:n:25:LEU:CD2	38:n:89:VAL:HG21	2.23	0.48
38:n:77:VAL:HG12	38:n:114:LEU:HD22	1.95	0.48
38:n:93:ARG:HH11	38:n:97:GLN:HA	1.79	0.48
41:q:6:GLN:HB2	41:q:11:GLN:CG	2.42	0.48
42:r:50:VAL:HG13	42:r:51:LEU:N	2.28	0.48
43:s:25:GLU:HG3	43:s:26:LYS:N	2.28	0.48
46:v:40:ASN:CB	46:v:52:LYS:HB2	2.43	0.48
46:v:45:ARG:HG3	46:v:46:ASP:H	1.79	0.48
47:w:38:TRP:NE1	47:w:40:GLU:HA	2.27	0.48
48:x:1:LYS:O	48:x:51:ARG:HB3	2.13	0.48
3:C:38:PHE:CE1	3:C:51:ARG:HB3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:76:LYS:HG3	3:C:77:GLU:N	2.28	0.48
4:D:8:ARG:HB3	4:D:55:VAL:HA	1.95	0.48
7:G:23:ARG:HD2	7:G:27:ARG:HH12	1.78	0.48
8:H:1:PRO:CB	30:f:101:VAL:HG12	2.44	0.48
9:I:364:U:H5''	9:I:365:A:OP1	2.13	0.48
9:I:576:G:O2'	9:I:577:C:H5'	2.13	0.48
9:I:794:C:H1'	9:I:4410:U:C4	2.49	0.48
9:I:857:G:H1	9:I:868:G:C3'	2.26	0.48
9:I:899:A:H2'	9:I:900:A:C1'	2.44	0.48
9:I:976:A:H2'	9:I:977:A:H5''	1.96	0.48
9:I:993:A:N9	9:I:1215:A:H1'	2.28	0.48
9:I:1066:A:N6	9:I:1108:C:P	2.87	0.48
9:I:1081:A:H2'	9:I:1082:U:C6	2.48	0.48
9:I:1083:G:OP1	9:I:1085:U:H5'	2.14	0.48
9:I:1203:A:H2'	9:I:1204:U:C5'	2.43	0.48
9:I:1429:A:H2'	9:I:1430:A:O5'	2.14	0.48
9:I:1496:A:C2	9:I:1497:C:H1'	2.48	0.48
9:I:1576:C:H2'	9:I:1577:G:H5'	1.94	0.48
9:I:1585:G:C6	9:I:1598:G:C6	3.01	0.48
9:I:2040:C:O2	9:I:2040:C:H2'	2.13	0.48
9:I:2085:G:H21	9:I:2748:A:H62	1.62	0.48
9:I:2212:G:N2	9:I:2220:U:C1'	2.66	0.48
9:I:2223:C:H2'	9:I:2224:U:C6	2.49	0.48
9:I:2227:A:C6	9:I:2228:G:C6	3.01	0.48
9:I:2280:G:C2	9:I:2282:A:C2	3.01	0.48
9:I:2305:G:N2	9:I:2331:G:H21	2.11	0.48
9:I:2345:A:H3'	9:I:2346:U:O2'	2.14	0.48
9:I:2503:A:O2'	9:I:2504:A:C5'	2.61	0.48
9:I:2536:G:H3'	9:I:2537:C:C5	2.48	0.48
9:I:2615:C:H2'	9:I:2616:G:C5'	2.43	0.48
9:I:2618:G:C1'	37:m:22:VAL:HG13	2.44	0.48
9:I:2656:G:C2	9:I:2657:G:C8	3.02	0.48
9:I:2764:C:H5''	9:I:2765:G:OP1	2.13	0.48
9:I:2774:G:C6	9:I:2775:G:N7	2.82	0.48
9:I:2842:C:C5	9:I:2843:C:C5	3.00	0.48
9:I:2914:A:C5	9:I:3705:A:C6	3.00	0.48
9:I:2982:C:N3	9:I:2996:A:C6	2.82	0.48
9:I:2997:A:C2	9:I:2998:A:C8	3.02	0.48
9:I:3019:A:H2'	9:I:3020:C:O4'	2.13	0.48
9:I:3021:G:N1	9:I:3038:A:P	2.87	0.48
9:I:3268:C:C2'	9:I:3269:U:H5'	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3303:A:C6	9:I:3304:A:C6	3.01	0.48
9:I:3339:G:N1	9:I:3340:G:N7	2.60	0.48
9:I:3719:A:O2'	9:I:3720:C:OP2	2.24	0.48
9:I:3852:A:OP1	9:I:3852:A:C8	2.64	0.48
9:I:3874:C:N4	9:I:3875:A:N6	2.62	0.48
9:I:3879:C:H2'	9:I:3880:A:N9	2.27	0.48
9:I:3912:A:C5'	34:j:16:HIS:HE2	2.18	0.48
9:I:3952:G:C2	9:I:3984:G:N2	2.81	0.48
9:I:4020:G:N1	9:I:4032:C:C4	2.82	0.48
9:I:4224:C:C5'	12:L:176:ASP:OD2	2.62	0.48
10:J:22:G:C5	10:J:23:G:C6	3.01	0.48
10:J:41:C:C1'	14:N:63:LYS:HG3	2.43	0.48
10:J:49:A:OP2	38:n:66:ASN:HA	2.13	0.48
10:J:80:G:C5	10:J:95:G:C6	3.01	0.48
12:L:46:ARG:HB3	12:L:84:LEU:HB2	1.95	0.48
13:M:102:ARG:O	13:M:106:LYS:CD	2.61	0.48
14:N:12:VAL:HG22	14:N:29:ARG:NH2	2.28	0.48
14:N:117:SER:HB3	14:N:129:MET:HE1	1.94	0.48
15:O:84:LYS:HE3	15:O:140:ILE:CD1	2.44	0.48
16:R:45:THR:CG2	16:R:48:VAL:H	2.21	0.48
16:R:89:PHE:CD1	16:R:90:GLU:N	2.81	0.48
19:U:33:LEU:HD12	19:U:129:THR:O	2.12	0.48
20:V:48:VAL:HG23	20:V:49:GLU:N	2.27	0.48
22:X:56:ILE:HA	22:X:65:VAL:HA	1.95	0.48
22:X:125:ARG:O	22:X:126:ARG:HB2	2.13	0.48
30:f:20:VAL:HG21	30:f:84:THR:CG2	2.28	0.48
30:f:55:ALA:HB2	30:f:84:THR:CG2	2.44	0.48
31:g:41:PRO:HD2	31:g:47:ALA:H	1.78	0.48
39:o:21:PRO:C	39:o:96:LEU:HD13	2.39	0.48
39:o:111:GLU:HG2	39:o:113:LEU:N	2.28	0.48
40:p:62:ALA:HA	40:p:65:ASN:CB	2.43	0.48
41:q:54:VAL:O	41:q:56:GLY:N	2.47	0.48
41:q:58:VAL:HG13	41:q:102:SER:O	2.14	0.48
41:q:84:ARG:HH11	41:q:84:ARG:CG	2.18	0.48
46:v:30:GLN:HA	46:v:34:LYS:HD3	1.95	0.48
48:x:10:VAL:CG1	48:x:56:LEU:HB3	2.44	0.48
49:y:44:ARG:CA	49:y:47:ILE:HD12	2.42	0.48
1:A:13:VAL:HA	1:A:59:GLN:CG	2.44	0.48
2:B:46:LYS:HB3	2:B:47:LYS:HZ2	1.77	0.48
4:D:15:GLU:N	9:I:273:A:P	2.86	0.48
6:F:11:LEU:HG	6:F:12:HIS:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:38:ILE:HD11	6:F:69:LEU:HD23	1.95	0.48
7:G:52:MET:HG3	7:G:56:VAL:HG23	1.96	0.48
8:H:46:ARG:O	8:H:50:SER:OG	2.30	0.48
9:I:99:G:H3'	9:I:100:A:H8	1.78	0.48
9:I:248:U:C2	9:I:274:G:O6	2.67	0.48
9:I:276:C:H2'	9:I:277:G:H8	1.77	0.48
9:I:281:A:C5	9:I:282:U:C6	3.01	0.48
9:I:294:C:HO2'	9:I:295:U:H5'	1.77	0.48
9:I:298:G:O2'	9:I:299:A:O4'	2.27	0.48
9:I:372:A:C6	9:I:390:G:H1'	2.48	0.48
9:I:401:G:C4'	9:I:619:C:N3	2.73	0.48
9:I:559:A:O5'	9:I:565:G:N2	2.46	0.48
9:I:726:G:N2	9:I:729:G:OP2	2.42	0.48
9:I:903:U:O2'	9:I:904:U:H5'	2.13	0.48
9:I:1059:U:O3'	29:e:57:ALA:HB1	2.14	0.48
9:I:1116:A:C2	9:I:1183:G:C6	3.02	0.48
9:I:1238:A:N6	9:I:1297:U:H3	2.11	0.48
9:I:1342:G:C5'	28:d:121:ARG:HH21	2.27	0.48
9:I:1390:U:C2	9:I:1391:G:C8	3.01	0.48
9:I:1431:G:H22	9:I:4371:C:H2'	1.78	0.48
9:I:1477:U:N3	9:I:1478:A:C5	2.82	0.48
9:I:1487:U:O2'	9:I:1488:G:H5'	2.14	0.48
9:I:1490:G:C6	9:I:4124:G:C6	3.01	0.48
9:I:1566:C:N4	9:I:1589:A:H61	2.12	0.48
9:I:1819:G:OP2	13:M:132:LYS:HE3	2.13	0.48
9:I:1874:A:C2'	9:I:1875:G:O5'	2.61	0.48
9:I:1913:C:O2	9:I:1914:C:C5	2.66	0.48
9:I:1960:A:P	43:s:73:ARG:HH12	2.32	0.48
9:I:2027:C:H4'	9:I:2028:A:O5'	2.12	0.48
9:I:2179:C:H2'	9:I:2180:C:C6	2.49	0.48
9:I:2227:A:O2'	9:I:2228:G:H5'	2.14	0.48
9:I:2265:C:C2'	9:I:2266:U:O5'	2.62	0.48
9:I:2468:G:P	41:q:78:ARG:NH2	2.87	0.48
9:I:2577:U:C3'	9:I:2578:A:H3'	2.43	0.48
9:I:2616:G:N2	37:m:18:LYS:NZ	2.61	0.48
9:I:2640:C:H2'	9:I:2641:A:C5'	2.44	0.48
9:I:2810:U:O2'	9:I:2811:G:H5'	2.12	0.48
9:I:2835:G:N2	43:s:84:TYR:CB	2.76	0.48
9:I:2847:A:O2'	9:I:2848:A:O5'	2.31	0.48
9:I:2901:G:C3'	9:I:2902:G:H8	2.27	0.48
9:I:3061:G:C6	11:K:82:TYR:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3126:A:H3'	9:I:3127:G:H8	1.79	0.48
9:I:3133:C:H4'	9:I:4193:C:O2'	2.14	0.48
9:I:3147:G:P	20:V:2:ARG:NH1	2.86	0.48
9:I:3216:A:C4	9:I:3217:G:C8	3.02	0.48
9:I:3231:G:H3'	9:I:3232:G:C8	2.48	0.48
9:I:3285:A:H5''	9:I:3286:G:OP2	2.12	0.48
9:I:3342:A:N6	9:I:3388:C:C1'	2.76	0.48
9:I:3348:A:C1'	9:I:3727:U:H1'	2.43	0.48
9:I:3363:G:H3'	9:I:3364:C:H5'	1.95	0.48
9:I:3404:G:C2	9:I:3415:G:C5	3.01	0.48
9:I:3488:C:HO2'	9:I:3489:U:C5'	2.21	0.48
9:I:3589:A:C6	9:I:3590:C:C5	3.01	0.48
9:I:3704:U:C2	9:I:3706:A:C8	3.02	0.48
9:I:3721:A:C4	9:I:3722:G:C8	3.02	0.48
9:I:3763:G:H21	9:I:3764:A:H1'	1.75	0.48
9:I:3883:G:H3'	9:I:3883:G:H8	1.77	0.48
9:I:3960:C:OP1	37:m:4:ARG:CZ	2.61	0.48
9:I:3967:U:O2	9:I:3967:U:H2'	2.12	0.48
9:I:4026:G:O2'	9:I:4151:A:N1	2.46	0.48
9:I:4033:C:O4'	37:m:1:MET:CE	2.60	0.48
9:I:4035:A:H4'	9:I:4258:A:H2	1.79	0.48
9:I:4042:U:H1'	17:S:23:LYS:HE2	1.95	0.48
9:I:4238:G:H21	15:O:142:GLN:NE2	2.11	0.48
9:I:4238:G:C4'	15:O:148:ARG:HH21	2.24	0.48
9:I:4273:U:C5'	9:I:4274:G:H5''	2.43	0.48
9:I:4278:U:H4'	12:L:42:ASN:O	2.13	0.48
10:J:63:G:H2'	10:J:64:U:C5'	2.42	0.48
10:J:76:U:C4	10:J:77:A:C5	3.02	0.48
10:J:92:C:H2'	10:J:93:A:C8	2.42	0.48
11:K:1:ALA:C	11:K:19:VAL:HB	2.37	0.48
11:K:16:VAL:O	11:K:202:ARG:CZ	2.60	0.48
11:K:67:LYS:HD3	11:K:69:ASN:HD22	1.78	0.48
11:K:141:HIS:HB3	11:K:161:VAL:HG23	1.96	0.48
12:L:46:ARG:HH21	12:L:89:GLU:HG2	1.74	0.48
13:M:143:LEU:HD13	13:M:146:VAL:CG1	2.29	0.48
14:N:32:LYS:NZ	14:N:34:THR:HG22	2.29	0.48
15:O:4:ALA:O	15:O:51:PHE:HB2	2.13	0.48
15:O:59:ASP:OD1	15:O:60:GLY:N	2.39	0.48
15:O:67:ALA:CA	15:O:70:LEU:HD12	2.43	0.48
17:S:81:GLY:H	39:o:67:GLU:CD	2.21	0.48
18:T:85:VAL:HG12	18:T:100:ILE:CD1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:122:VAL:O	18:T:123:ARG:HB2	2.13	0.48
19:U:28:PHE:HB3	19:U:64:TRP:HB3	1.94	0.48
20:V:51:LEU:N	20:V:51:LEU:CD2	2.76	0.48
27:c:28:SER:HB2	27:c:58:LEU:CB	2.42	0.48
32:h:73:SER:O	32:h:77:LYS:HG3	2.12	0.48
38:n:93:ARG:O	38:n:94:SER:C	2.57	0.48
39:o:29:VAL:O	39:o:31:VAL:HG13	2.13	0.48
40:p:57:ARG:O	40:p:61:ILE:HD12	2.13	0.48
40:p:107:ALA:HA	40:p:110:GLU:HG3	1.94	0.48
46:v:30:GLN:HG3	46:v:32:GLY:O	2.13	0.48
2:B:38:LEU:HD12	2:B:42:PHE:CE2	2.48	0.48
3:C:4:ILE:CD1	3:C:65:ALA:HB1	2.30	0.48
3:C:8:ARG:HB2	3:C:17:TYR:CZ	2.48	0.48
5:E:42:ARG:N	9:I:733:G:H22	2.10	0.48
5:E:51:TYR:CE2	9:I:673:G:H4'	2.48	0.48
7:G:22:ARG:HD2	7:G:62:LYS:NZ	2.29	0.48
7:G:52:MET:O	7:G:55:ILE:CG2	2.61	0.48
8:H:47:ALA:O	8:H:51:ALA:N	2.42	0.48
9:I:170:A:H2'	9:I:171:A:O4'	2.13	0.48
9:I:222:A:H2'	9:I:223:U:H6	1.73	0.48
9:I:247:C:H3'	9:I:248:U:H6	1.78	0.48
9:I:362:A:H5'	31:g:80:LEU:HD11	1.94	0.48
9:I:401:G:C2'	9:I:402:C:H5'	2.44	0.48
9:I:594:A:P	9:I:594:A:H8	2.35	0.48
9:I:780:A:H2	9:I:4418:G:H4'	1.78	0.48
9:I:789:A:C2'	9:I:790:G:O4'	2.61	0.48
9:I:1064:U:H4'	9:I:1065:C:O5'	2.14	0.48
9:I:1149:A:H1'	9:I:1279:A:N6	2.29	0.48
9:I:1185:G:O2'	9:I:1186:G:H5'	2.13	0.48
9:I:1368:C:OP2	28:d:111:LYS:HB2	2.13	0.48
9:I:1410:C:O2'	9:I:1411:C:H5'	2.13	0.48
9:I:1455:U:O4	9:I:4352:C:O2	2.32	0.48
9:I:1466:C:OP2	9:I:1467:U:H5	1.97	0.48
9:I:1476:C:H5'	20:V:90:ARG:NH1	2.28	0.48
9:I:1479:A:OP2	9:I:4326:U:O4	2.31	0.48
9:I:1489:A:C6	9:I:4284:U:C5	3.01	0.48
9:I:1621:G:C2	9:I:1622:G:C5	3.01	0.48
9:I:1798:G:OP2	44:t:84:PHE:HB2	2.13	0.48
9:I:1804:U:H2'	9:I:1805:C:C6	2.49	0.48
9:I:1859:G:C5	9:I:1860:U:C5	3.02	0.48
9:I:1964:U:C4	9:I:1965:G:C2	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2085:G:C4	9:I:2745:C:N4	2.75	0.48
9:I:2109:A:H2'	9:I:2110:C:O4'	2.14	0.48
9:I:2113:A:C5'	9:I:2114:A:C8	2.93	0.48
9:I:2160:C:O2'	9:I:2161:A:H5'	2.14	0.48
9:I:2201:G:H2'	9:I:2202:U:O4'	2.13	0.48
9:I:2212:G:H21	9:I:2220:U:H1'	1.71	0.48
9:I:2396:C:N3	9:I:2397:C:C5	2.81	0.48
9:I:2626:U:C4'	16:R:75:TYR:CZ	2.96	0.48
9:I:2638:A:H2'	9:I:2638:A:N3	2.29	0.48
9:I:2835:G:C3'	43:s:59:ASN:HB3	2.42	0.48
9:I:2935:G:C2'	9:I:2936:U:O5'	2.61	0.48
9:I:2953:G:C4	9:I:2955:C:C4	3.02	0.48
9:I:3057:U:C2'	9:I:3058:C:H5'	2.43	0.48
9:I:3077:A:O4'	9:I:3077:A:N3	2.47	0.48
9:I:3181:G:C2'	9:I:3182:U:O5'	2.62	0.48
9:I:3182:U:H3	9:I:3194:A:C5'	2.26	0.48
9:I:3186:U:O2'	9:I:3471:A:O2'	2.31	0.48
9:I:3216:A:C2'	9:I:3217:G:C8	2.95	0.48
9:I:3239:A:C4	9:I:3240:A:C8	3.02	0.48
9:I:3280:A:O2'	9:I:3281:A:H5'	2.14	0.48
9:I:3283:A:C4	9:I:3284:C:C6	3.02	0.48
9:I:3293:G:P	11:K:269:ARG:HH12	2.36	0.48
9:I:3296:A:N6	9:I:3311:G:N2	2.62	0.48
9:I:3363:G:N2	9:I:3365:A:H8	2.11	0.48
9:I:3413:A:H3'	9:I:3414:C:H6	1.78	0.48
9:I:3695:G:H2'	9:I:3696:U:O4'	2.14	0.48
9:I:3782:A:H61	9:I:3819:G:C1'	2.26	0.48
9:I:3797:G:H5''	14:N:119:LYS:HD3	1.96	0.48
9:I:3807:C:O3'	14:N:34:THR:HB	2.13	0.48
9:I:3835:G:H2'	9:I:3836:C:H5'	1.95	0.48
9:I:3906:A:C5	9:I:3907:G:C5	3.01	0.48
9:I:3921:C:O5'	9:I:3921:C:H6	1.97	0.48
9:I:3966:G:N1	9:I:3969:C:C6	2.81	0.48
9:I:3989:G:H2'	9:I:3990:C:C6	2.48	0.48
9:I:4065:U:O2'	12:L:151:THR:HG21	2.13	0.48
9:I:4224:C:H5''	12:L:176:ASP:CG	2.38	0.48
9:I:4242:A:O3'	15:O:3:VAL:CG2	2.62	0.48
9:I:4248:U:H6	9:I:4248:U:P	2.36	0.48
9:I:4281:C:C2	9:I:4282:C:C5	3.01	0.48
9:I:4326:U:C5'	9:I:4327:U:C2'	2.86	0.48
9:I:4340:G:OP2	39:o:51:ASN:CB	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4393:G:H2'	9:I:4394:U:H6	1.77	0.48
10:J:7:C:H2'	38:n:43:GLY:O	2.13	0.48
10:J:33:A:H62	10:J:43:G:HO2'	1.55	0.48
10:J:41:C:H2'	10:J:41:C:O2	2.12	0.48
10:J:74:G:O4'	45:u:29:ILE:HD13	2.14	0.48
11:K:164:VAL:HG23	11:K:180:MET:HE1	1.95	0.48
12:L:181:ASP:OD1	12:L:183:GLU:N	2.46	0.48
13:M:5:LEU:HD21	13:M:121:VAL:C	2.39	0.48
13:M:143:LEU:HD22	13:M:146:VAL:CG2	2.44	0.48
13:M:159:LEU:HA	13:M:162:ARG:CB	2.44	0.48
13:M:178:VAL:HG23	13:M:179:SER:N	2.29	0.48
14:N:15:LEU:CB	14:N:27:VAL:CG2	2.92	0.48
16:R:64:VAL:HG22	16:R:65:THR:N	2.29	0.48
16:R:119:PHE:CG	16:R:122:LEU:HD22	2.49	0.48
17:S:85:VAL:HG12	17:S:94:PRO:CG	2.43	0.48
18:T:74:THR:CA	18:T:107:PHE:HB2	2.30	0.48
18:T:78:ARG:HD3	18:T:81:ASP:OD2	2.13	0.48
18:T:79:LEU:HD11	18:T:112:LEU:HD12	1.95	0.48
19:U:34:LYS:HE2	19:U:99:GLY:O	2.14	0.48
21:W:77:VAL:HG11	21:W:89:VAL:O	2.14	0.48
21:W:157:ALA:CB	21:W:179:PRO:HG2	2.43	0.48
22:X:156:LEU:HG	22:X:163:ARG:O	2.13	0.48
25:a:44:ARG:HG2	25:a:58:HIS:HB2	1.95	0.48
27:c:51:GLU:H	27:c:57:GLU:C	2.17	0.48
29:e:4:ILE:HD12	29:e:21:ILE:HG12	1.95	0.48
31:g:73:LEU:HD11	31:g:102:ASP:C	2.39	0.48
35:k:40:ALA:HB1	35:k:41:ARG:CZ	2.44	0.48
36:l:24:LYS:HB2	36:l:46:LYS:NZ	2.27	0.48
38:n:34:ILE:N	38:n:52:THR:HG1	2.10	0.48
40:p:63:ARG:NH2	40:p:99:VAL:CG2	2.74	0.48
41:q:6:GLN:HE21	41:q:9:GLY:CA	2.26	0.48
42:r:69:LEU:HA	42:r:108:SER:C	2.39	0.48
49:y:44:ARG:C	49:y:44:ARG:HD3	2.38	0.48
49:y:50:VAL:HB	49:y:54:VAL:HG13	1.96	0.48
49:y:51:SER:CA	49:y:54:VAL:HG22	2.42	0.48
3:C:8:ARG:HD2	3:C:17:TYR:CZ	2.48	0.48
3:C:13:LYS:C	3:C:14:ARG:HD2	2.39	0.48
4:D:70:TRP:H	9:I:253:G:C3'	2.27	0.48
7:G:26:MET:SD	7:G:55:ILE:CG1	3.02	0.48
8:H:28:LEU:HD11	30:f:13:ALA:O	2.13	0.48
9:I:128:A:O2'	9:I:129:A:H2'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:180:A:N6	9:I:194:A:N7	2.62	0.48
9:I:228:U:O2'	9:I:229:G:P	2.65	0.48
9:I:284:C:H2'	9:I:285:C:H6	1.77	0.48
9:I:404:U:H2'	9:I:498:A:OP2	2.14	0.48
9:I:512:C:H2'	9:I:513:C:C6	2.48	0.48
9:I:776:A:C2'	9:I:777:G:O5'	2.62	0.48
9:I:893:G:C4	9:I:894:G:C8	3.02	0.48
9:I:1015:A:N7	9:I:1016:U:H1'	2.29	0.48
9:I:1073:G:H1'	21:W:100:ASN:HB2	1.96	0.48
9:I:1150:A:O2'	9:I:1151:A:H8	1.96	0.48
9:I:1300:U:C3'	9:I:1301:C:H5''	2.43	0.48
9:I:1478:A:C4	9:I:4328:G:N2	2.82	0.48
9:I:1529:U:H5''	9:I:1530:G:OP2	2.13	0.48
9:I:1598:G:O2'	9:I:1599:U:O4'	2.30	0.48
9:I:1827:G:O6	9:I:1835:C:N4	2.47	0.48
9:I:1834:C:OP1	9:I:1835:C:H5	1.97	0.48
9:I:1982:A:OP1	44:t:46:LYS:CE	2.62	0.48
9:I:1982:A:H4'	44:t:44:HIS:CG	2.48	0.48
9:I:2082:A:O3'	40:p:10:ARG:CZ	2.61	0.48
9:I:2086:A:H2	9:I:2748:A:C2	2.32	0.48
9:I:2155:A:O2'	9:I:2156:G:N7	2.43	0.48
9:I:2268:G:C6	9:I:2269:U:C4	3.02	0.48
9:I:2284:G:C2	11:K:227:VAL:HG21	2.49	0.48
9:I:2341:G:C6	9:I:2432:G:C6	3.02	0.48
9:I:2443:G:H2'	9:I:2444:G:H8	1.79	0.48
9:I:2505:G:C4	9:I:2507:C:C5	3.02	0.48
9:I:2518:G:O5'	9:I:2519:G:H2'	2.14	0.48
9:I:2900:U:H2'	9:I:2901:G:N9	2.27	0.48
9:I:2916:G:H1'	9:I:2986:G:N2	2.29	0.48
9:I:2924:G:C2	9:I:2925:A:C4	3.02	0.48
9:I:3024:G:N2	9:I:3036:U:O4'	2.46	0.48
9:I:3089:C:H2'	9:I:3090:A:O4'	2.14	0.48
9:I:3491:C:H2'	9:I:3492:A:H8	1.78	0.48
9:I:3663:A:H8	9:I:3663:A:OP2	1.97	0.48
9:I:3672:C:O2	9:I:3673:C:H5	1.97	0.48
9:I:3754:C:N3	9:I:3755:C:C5	2.82	0.48
9:I:3756:U:N3	9:I:3757:C:C5	2.81	0.48
9:I:3794:C:C3'	9:I:3795:C:C6	2.96	0.48
9:I:3839:G:C5'	9:I:3841:C:O5'	2.61	0.48
9:I:3859:G:O2'	9:I:3860:A:H1'	2.13	0.48
9:I:3860:A:H2'	9:I:3860:A:N3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3866:U:C2'	9:I:3867:G:C8	2.97	0.48
9:I:3948:G:N2	9:I:3949:G:H1'	2.29	0.48
9:I:3953:A:H3'	9:I:3954:U:H6	1.78	0.48
9:I:4020:G:C6	9:I:4021:C:C4	3.00	0.48
9:I:4142:G:C2'	9:I:4143:C:O4'	2.51	0.48
9:I:4148:A:H61	9:I:4160:C:P	2.33	0.48
9:I:4326:U:H5''	9:I:4327:U:H2'	1.92	0.48
10:J:42:C:O2'	14:N:91:ARG:CB	2.59	0.48
10:J:100:A:C3'	10:J:101:G:H8	2.27	0.48
11:K:208:GLY:O	11:K:209:ALA:C	2.57	0.48
11:K:235:GLU:O	11:K:235:GLU:CG	2.59	0.48
12:L:10:GLY:O	12:L:26:VAL:N	2.46	0.48
12:L:109:VAL:CG1	12:L:201:LEU:HB3	2.43	0.48
12:L:109:VAL:CG1	12:L:201:LEU:CB	2.91	0.48
13:M:1:MET:HB2	13:M:14:VAL:CG2	2.43	0.48
13:M:18:THR:O	13:M:109:LEU:C	2.56	0.48
13:M:117:ARG:NH1	18:T:1:MET:O	2.29	0.48
13:M:143:LEU:HB3	13:M:146:VAL:HG11	1.96	0.48
14:N:12:VAL:HG12	14:N:16:MET:SD	2.53	0.48
14:N:124:ARG:CD	14:N:160:LYS:HD2	2.29	0.48
16:R:84:ILE:O	16:R:84:ILE:CG2	2.55	0.48
17:S:9:ASN:HB3	17:S:83:ALA:CA	2.43	0.48
18:T:105:ILE:HG13	18:T:106:GLU:N	2.29	0.48
19:U:56:ALA:HB3	19:U:116:ALA:HB2	1.95	0.48
20:V:2:ARG:HA	20:V:5:LYS:NZ	2.28	0.48
23:Y:60:VAL:CG2	23:Y:199:ILE:HD11	2.43	0.48
23:Y:72:ARG:O	23:Y:75:TYR:HB3	2.13	0.48
25:a:32:ALA:O	25:a:33:GLU:HB2	2.14	0.48
26:b:68:VAL:HG21	26:b:103:ILE:HG13	1.96	0.48
26:b:69:ARG:HG3	26:b:95:ARG:HD3	1.94	0.48
27:c:74:ILE:HG23	27:c:74:ILE:O	2.13	0.48
30:f:19:ILE:HG22	30:f:34:THR:CG2	2.44	0.48
35:k:43:THR:O	35:k:44:VAL:HB	2.14	0.48
39:o:21:PRO:O	39:o:91:VAL:HG21	2.14	0.48
44:t:45:GLN:H	44:t:57:ILE:HA	1.77	0.48
44:t:52:ASN:CA	44:t:54:PRO:HD2	2.43	0.48
45:u:6:ALA:CB	45:u:63:ILE:HD13	2.39	0.48
45:u:48:MET:HG2	45:u:86:LEU:HD12	1.95	0.48
46:v:30:GLN:NE2	46:v:47:HIS:HB3	2.27	0.48
47:w:33:HIS:O	47:w:50:VAL:O	2.32	0.48
47:w:53:LYS:O	47:w:54:GLY:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:ALA:HA	1:A:91:GLU:CD	2.38	0.48
3:C:19:VAL:HG23	3:C:38:PHE:CA	2.43	0.48
7:G:55:ILE:HD13	9:I:4361:G:OP1	2.14	0.48
9:I:1:A:H1'	9:I:612:C:O2'	2.14	0.48
9:I:77:A:N6	9:I:91:U:H3	2.11	0.48
9:I:101:G:H2'	9:I:102:U:H6	1.77	0.48
9:I:113:U:O2'	9:I:114:G:H5'	2.13	0.48
9:I:310:C:H2'	9:I:311:C:O5'	2.14	0.48
9:I:384:C:O2'	9:I:385:C:H5'	2.13	0.48
9:I:402:C:H5'	23:Y:131:ILE:HG13	1.96	0.48
9:I:523:G:H3'	9:I:524:C:H5	1.79	0.48
9:I:531:A:H2'	9:I:531:A:N3	2.29	0.48
9:I:694:A:H3'	9:I:695:A:H8	1.79	0.48
9:I:909:C:O2'	9:I:910:U:H5'	2.14	0.48
9:I:1072:U:O2'	21:W:102:LYS:HD3	2.12	0.48
9:I:1092:A:C6	9:I:1094:U:H1'	2.49	0.48
9:I:1168:A:H2'	9:I:1169:A:C1'	2.44	0.48
9:I:1418:G:H1	9:I:4385:U:H3	1.62	0.48
9:I:1486:G:N2	9:I:4304:A:OP2	2.47	0.48
9:I:1512:U:O2'	9:I:1513:A:H5'	2.14	0.48
9:I:1577:G:H2'	9:I:1578:U:C5'	2.44	0.48
9:I:1581:G:H3'	9:I:1582:U:C6	2.47	0.48
9:I:1603:A:H2'	9:I:1604:A:C4'	2.44	0.48
9:I:1819:G:C3'	9:I:1820:A:H8	2.27	0.48
9:I:1822:A:H2	9:I:1840:A:C6	2.32	0.48
9:I:1836:C:OP2	44:t:3:LYS:CD	2.61	0.48
9:I:1928:A:C6	9:I:1929:A:C6	3.02	0.48
9:I:1967:G:O2'	9:I:1968:G:H5'	2.14	0.48
9:I:2007:A:H4'	9:I:2008:A:O5'	2.14	0.48
9:I:2072:A:H5''	9:I:2073:U:OP2	2.13	0.48
9:I:2245:1MG:H3'	9:I:2245:1MG:H8	1.79	0.48
9:I:2256:A:N3	9:I:2257:G:H1'	2.28	0.48
9:I:2270:G:H2'	9:I:2271:G:H8	1.79	0.48
9:I:2311:U:C2	9:I:2745:C:C6	3.01	0.48
9:I:2335:C:O2	9:I:2335:C:H2'	2.13	0.48
9:I:2422:A:C2	9:I:2423:U:C2	3.02	0.48
9:I:2516:G:C6	9:I:2634:C:C2	3.01	0.48
9:I:2582:A:N3	9:I:2582:A:H2'	2.29	0.48
9:I:2909:U:C2	9:I:3081:G:C2	2.94	0.48
9:I:3056:U:H2'	9:I:3057:U:C6	2.49	0.48
9:I:3059:C:C5'	11:K:25:LYS:HZ1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3117:G:C2	9:I:3118:U:C2	3.02	0.48
9:I:3164:C:H3'	9:I:3164:C:OP2	2.14	0.48
9:I:3208:U:O5'	9:I:3209:G:H5'	2.14	0.48
9:I:3591:A:C6	9:I:3592:U:C4	3.01	0.48
9:I:3679:U:H5''	9:I:3680:G:OP2	2.14	0.48
9:I:3807:C:O3'	14:N:87:LYS:NZ	2.47	0.48
9:I:3820:C:O2	9:I:3882:A:C6	2.67	0.48
9:I:3912:A:O3'	34:j:17:PHE:O	2.32	0.48
9:I:3961:C:C5'	37:m:8:LYS:NZ	2.76	0.48
9:I:4047:G:H5''	9:I:4048:U:OP2	2.12	0.48
9:I:4176:A:H4'	12:L:13:ARG:N	2.28	0.48
9:I:4290:U:O4	9:I:4292:U:N3	2.47	0.48
9:I:4315:A:H5''	12:L:167:ASN:OD1	2.13	0.48
10:J:33:A:H3'	10:J:43:G:C5	2.49	0.48
11:K:61:TYR:CE2	11:K:63:ILE:HA	2.48	0.48
11:K:147:PRO:HB3	11:K:186:ASP:CG	2.39	0.48
12:L:2:ILE:HD12	12:L:82:PHE:CD1	2.48	0.48
12:L:71:ALA:CB	12:L:73:VAL:HG12	2.43	0.48
12:L:106:LYS:O	12:L:205:PRO:HA	2.14	0.48
14:N:24:VAL:O	14:N:24:VAL:HG22	2.14	0.48
14:N:111:ARG:HD3	14:N:111:ARG:H	1.79	0.48
16:R:16:TYR:HD1	16:R:138:GLN:CG	2.27	0.48
16:R:54:ILE:O	16:R:123:LYS:CB	2.61	0.48
19:U:118:LYS:HA	19:U:121:ALA:HB3	1.94	0.48
20:V:63:ARG:HA	20:V:80:PHE:CZ	2.42	0.48
22:X:107:LYS:HD2	22:X:110:LEU:HD11	1.95	0.48
23:Y:18:LEU:CD1	23:Y:62:ARG:HB3	2.27	0.48
23:Y:75:TYR:CA	23:Y:89:LEU:HD13	2.42	0.48
25:a:68:GLN:O	25:a:71:ILE:HB	2.14	0.48
26:b:43:TYR:O	26:b:46:LEU:HD23	2.14	0.48
26:b:68:VAL:HG11	26:b:133:ALA:HB3	1.95	0.48
28:d:3:TYR:O	28:d:18:ILE:N	2.47	0.48
30:f:5:SER:C	30:f:68:LYS:H	2.21	0.48
32:h:2:ARG:O	32:h:3:ILE:CG1	2.59	0.48
34:j:6:ILE:HG22	34:j:24:LYS:HZ2	1.78	0.48
36:l:11:LYS:HE3	36:l:11:LYS:O	2.14	0.48
36:l:29:ARG:N	36:l:32:LEU:HD21	2.29	0.48
37:m:8:LYS:C	37:m:16:ILE:HD11	2.39	0.48
39:o:47:ILE:O	39:o:95:LYS:HA	2.14	0.48
39:o:58:PHE:HD1	39:o:75:THR:OG1	1.96	0.48
39:o:103:THR:HA	39:o:107:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:42:GLY:O	40:p:43:GLN:C	2.56	0.48
40:p:84:LYS:HD3	40:p:116:LEU:HA	1.95	0.48
41:q:31:GLU:H	41:q:63:VAL:CB	2.17	0.48
42:r:69:LEU:N	42:r:109:ASP:HA	2.29	0.48
43:s:12:ARG:HB3	43:s:33:LYS:CB	2.42	0.48
43:s:55:VAL:CG1	43:s:86:THR:HB	2.44	0.48
43:s:56:GLU:CD	43:s:88:LYS:HA	2.38	0.48
43:s:57:VAL:HG12	43:s:86:THR:HG21	1.96	0.48
44:t:38:ILE:CD1	44:t:64:ILE:HB	2.43	0.48
44:t:65:GLN:CG	44:t:68:ASN:HB2	2.43	0.48
48:x:7:GLU:HG2	48:x:8:LYS:HG3	1.96	0.48
49:y:9:THR:OG1	49:y:53:MET:O	2.31	0.48
1:A:52:ARG:HD3	9:I:1218:A:C5'	2.44	0.48
3:C:32:PHE:HZ	9:I:309:G:H5''	1.79	0.48
4:D:13:LYS:CB	9:I:274:G:O5'	2.62	0.48
4:D:27:LYS:HG3	4:D:32:GLY:O	2.14	0.48
8:H:14:ALA:HB1	30:f:98:ILE:CD1	2.39	0.48
9:I:65:A:P	9:I:65:A:H8	2.37	0.48
9:I:115:A:H8	9:I:115:A:P	2.37	0.48
9:I:226:G:H5''	9:I:227:A:OP1	2.14	0.48
9:I:247:C:H2'	9:I:248:U:O4'	2.14	0.48
9:I:256:G:C2	9:I:257:G:C8	3.02	0.48
9:I:359:G:O2'	9:I:360:G:H5'	2.14	0.48
9:I:374:U:H2'	9:I:375:G:C5'	2.44	0.48
9:I:664:A:H2'	9:I:724:G:N2	2.28	0.48
9:I:694:A:H2	9:I:786:A:C1'	2.27	0.48
9:I:716:U:C2'	9:I:733:G:O4'	2.61	0.48
9:I:791:A:H1'	9:I:793:A:C5	2.49	0.48
9:I:795:C:H5''	30:f:117:VAL:CG1	2.44	0.48
9:I:1086:G:C6	9:I:1098:G:C2	3.02	0.48
9:I:1106:C:P	22:X:171:ARG:HH11	2.36	0.48
9:I:1307:U:H3'	32:h:97:ARG:HH21	1.79	0.48
9:I:1348:A:H1'	9:I:1373:A:H61	1.77	0.48
9:I:1487:U:C2'	9:I:1488:G:O4'	2.61	0.48
9:I:1561:C:O4'	48:x:39:SER:OG	2.26	0.48
9:I:1682:A:C2	9:I:1683:C:C2	3.02	0.48
9:I:1860:U:H3'	9:I:1861:G:H8	1.71	0.48
9:I:1869:U:C4	9:I:1922:A:OP2	2.66	0.48
9:I:1926:C:H6	9:I:1926:C:O5'	1.96	0.48
9:I:1993:G:O2'	42:r:6:LYS:O	2.32	0.48
9:I:2106:U:P	13:M:99:LYS:NZ	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2128:G:C2	9:I:2129:G:N7	2.82	0.48
9:I:2229:G:C5'	9:I:2230:A:H5''	2.39	0.48
9:I:2285:G:C6	9:I:2286:C:C4	3.02	0.48
9:I:2366:A:N7	9:I:2408:G:C6	2.81	0.48
9:I:2456:G:C5	9:I:2457:U:C5	3.02	0.48
9:I:2629:C:H3'	9:I:2631:G:OP2	2.13	0.48
9:I:2658:C:O2'	9:I:2659:A:H5'	2.13	0.48
9:I:2710:G:H2'	9:I:2711:U:H6	1.79	0.48
9:I:2850:G:C4	9:I:2851:C:C5	3.02	0.48
9:I:2903:U:C2	9:I:3087:A:N1	2.82	0.48
9:I:2983:C:C2'	9:I:2985:G:C8	2.90	0.48
9:I:3007:U:H2'	9:I:3008:G:C2	2.48	0.48
9:I:3079:C:OP2	9:I:3081:G:O6	2.31	0.48
9:I:3175:G:C4	9:I:3256:A:C2	3.02	0.48
9:I:3182:U:C1'	9:I:3194:A:C8	2.97	0.48
9:I:3201:G:C4	9:I:3250:G:N2	2.82	0.48
9:I:3201:G:C2'	9:I:3202:C:C6	2.93	0.48
9:I:3210:U:H2'	9:I:3211:A:C8	2.49	0.48
9:I:3221:C:H2'	9:I:3222:C:C5'	2.43	0.48
9:I:3235:C:C2	9:I:3236:U:C6	3.02	0.48
9:I:3293:G:O2'	11:K:181:ARG:CD	2.55	0.48
9:I:3351:G:N2	9:I:3378:G:N3	2.62	0.48
9:I:3372:G:C6	9:I:3373:C:N3	2.82	0.48
9:I:3387:C:H2'	9:I:3387:C:O2	2.14	0.48
9:I:3691:U:O4	9:I:3718:G:C3'	2.61	0.48
9:I:3777:C:C6	9:I:3883:G:C1'	2.97	0.48
9:I:3842:U:O5'	9:I:3842:U:H6	1.97	0.48
9:I:3850:U:O3'	46:v:10:ARG:CZ	2.62	0.48
9:I:3880:A:O2'	9:I:3881:U:H5'	2.14	0.48
9:I:3890:G:C2	9:I:3915:G:C2	3.02	0.48
9:I:3913:U:H5''	34:j:19:THR:CA	2.42	0.48
9:I:3946:C:C2	9:I:3947:A:C8	3.01	0.48
9:I:4024:A:C3'	9:I:4028:A:H61	2.27	0.48
9:I:4056:U:P	17:S:40:LYS:HZ3	2.31	0.48
9:I:4093:G:C6	11:K:235:GLU:OE2	2.67	0.48
9:I:4129:A:O2'	12:L:81:GLU:OE2	2.30	0.48
9:I:4133:A:C4	9:I:4272:A:C6	3.02	0.48
9:I:4144:U:O2	9:I:4144:U:H2'	2.12	0.48
9:I:4201:U:C2	9:I:4202:G:N7	2.82	0.48
9:I:4315:A:C3'	12:L:167:ASN:HD21	2.26	0.48
9:I:4341:U:C5	9:I:4342:G:C6	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4342:G:OP2	39:o:94:ALA:N	2.41	0.48
10:J:59:C:H6	10:J:59:C:O5'	1.97	0.48
11:K:136:VAL:HG12	11:K:163:ILE:O	2.14	0.48
12:L:172:VAL:CG1	12:L:175:LEU:HD21	2.42	0.48
13:M:16:GLU:O	13:M:21:ARG:HG2	2.14	0.48
14:N:35:LEU:HG	14:N:153:ILE:HG23	1.95	0.48
14:N:48:LEU:HD21	14:N:147:ARG:HD2	1.95	0.48
14:N:84:ILE:O	14:N:84:ILE:HG13	2.14	0.48
15:O:22:VAL:HG12	15:O:24:THR:HG23	1.96	0.48
15:O:89:VAL:HG11	15:O:159:LYS:NZ	2.29	0.48
17:S:19:VAL:CG2	17:S:84:CYS:SG	3.02	0.48
19:U:72:PRO:HA	19:U:91:TYR:O	2.14	0.48
19:U:97:GLN:O	19:U:100:LYS:HG3	2.14	0.48
20:V:94:TYR:C	20:V:116:VAL:H	2.16	0.48
20:V:115:LEU:HB3	20:V:118:ARG:H	1.79	0.48
21:W:126:LEU:CD1	21:W:130:GLU:HB2	2.44	0.48
23:Y:64:TYR:OH	23:Y:94:GLU:OE1	2.10	0.48
25:a:17:GLN:HB3	25:a:21:MET:HG2	1.96	0.48
25:a:81:ASN:OD1	25:a:83:ALA:HB3	2.14	0.48
26:b:27:ASN:HA	26:b:30:MET:HB3	1.96	0.48
28:d:49:LEU:CD2	28:d:84:LEU:HD11	2.43	0.48
29:e:20:GLU:HG2	29:e:21:ILE:N	2.28	0.48
29:e:74:GLU:O	29:e:74:GLU:HG3	2.13	0.48
34:j:6:ILE:HD13	34:j:22:LYS:HB2	1.95	0.48
37:m:2:LYS:HD2	37:m:35:GLN:HB2	1.94	0.48
40:p:85:ALA:HA	40:p:115:ALA:CB	2.44	0.48
41:q:3:ALA:HA	41:q:41:ILE:HA	1.95	0.48
41:q:58:VAL:HG13	41:q:102:SER:HB2	1.96	0.48
41:q:87:GLN:NE2	41:q:88:GLY:O	2.47	0.48
43:s:16:VAL:HB	43:s:21:SER:OG	2.14	0.48
43:s:46:ALA:O	43:s:50:LEU:HG	2.14	0.48
44:t:5:ARG:H	44:t:8:ASP:CG	2.17	0.48
44:t:43:LYS:N	44:t:58:VAL:O	2.47	0.48
45:u:25:LYS:CE	45:u:41:GLU:OE1	2.62	0.48
46:v:28:VAL:CG2	46:v:49:LEU:CB	2.82	0.48
47:w:4:CYS:SG	47:w:7:THR:OG1	2.49	0.48
47:w:36:ARG:NH1	47:w:45:PHE:CZ	2.81	0.48
48:x:13:LEU:HD13	48:x:52:VAL:HG11	1.89	0.48
49:y:41:PRO:HA	49:y:44:ARG:CB	2.39	0.48
1:A:42:ASN:O	1:A:46:LYS:N	2.37	0.47
2:B:12:SER:OG	2:B:18:ALA:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:6:ASP:O	5:E:10:LEU:HD13	2.13	0.47
6:F:3:LEU:HG	6:F:3:LEU:O	2.14	0.47
6:F:3:LEU:O	6:F:5:LYS:N	2.47	0.47
7:G:62:LYS:HD2	7:G:64:LEU:HD22	1.96	0.47
9:I:220:C:H2'	9:I:220:C:O2	2.14	0.47
9:I:355:A:C1'	9:I:387:G:H22	2.27	0.47
9:I:402:C:P	23:Y:131:ILE:HG23	2.54	0.47
9:I:403:G:OP1	23:Y:118:SER:HB2	2.14	0.47
9:I:517:C:N4	9:I:528:G:H3'	2.29	0.47
9:I:634:A:H2'	9:I:635:U:C6	2.49	0.47
9:I:780:A:H2'	9:I:780:A:N3	2.29	0.47
9:I:794:C:OP2	9:I:795:C:N4	2.47	0.47
9:I:816:C:H4'	9:I:817:G:OP1	2.14	0.47
9:I:1005:G:O2'	9:I:1006:U:H5'	2.14	0.47
9:I:1075:U:O4	9:I:1081:A:N6	2.47	0.47
9:I:1108:C:H2'	9:I:1109:A:O4'	2.14	0.47
9:I:1156:A:N7	9:I:1179:A:N6	2.62	0.47
9:I:1425:G:N2	9:I:4379:G:H1'	2.29	0.47
9:I:1463:G:C2	9:I:4342:G:N3	2.82	0.47
9:I:1480:U:C6	9:I:1481:G:N7	2.82	0.47
9:I:1506:A:C2	9:I:1507:G:C5	3.01	0.47
9:I:1628:C:H2'	9:I:1629:C:H6	1.77	0.47
9:I:1736:C:C2	9:I:1737:C:C5	3.02	0.47
9:I:1761:G:C2	9:I:1762:A:C5	3.02	0.47
9:I:1785:G:C6	9:I:1856:G:C5	3.01	0.47
9:I:1799:A:C3'	9:I:1800:A:H8	2.27	0.47
9:I:1837:C:C5'	44:t:1:ALA:O	2.60	0.47
9:I:1846:A:H3'	9:I:1847:A:N7	2.28	0.47
9:I:1907:G:C6	9:I:1908:G:C6	3.02	0.47
9:I:2072:A:C2	9:I:3527:A:H2	2.32	0.47
9:I:2072:A:C4	9:I:2073:U:O2	2.67	0.47
9:I:2203:U:C5	9:I:2204:G:C5	3.02	0.47
9:I:2333:A:OP2	18:T:39:LYS:NZ	2.46	0.47
9:I:2349:A:N1	9:I:2422:A:N1	2.62	0.47
9:I:2364:G:N1	9:I:2407:U:C4	2.82	0.47
9:I:2395:C:C4	9:I:2396:C:C5	3.02	0.47
9:I:2431:C:O2'	9:I:2432:G:H5'	2.14	0.47
9:I:2663:A:C4	9:I:2664:C:C6	3.01	0.47
9:I:2689:G:O2'	9:I:2690:C:H5'	2.13	0.47
9:I:2843:C:H2'	9:I:2843:C:O2	2.13	0.47
9:I:2879:A:O2'	9:I:2880:C:OP2	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2935:G:C6	9:I:3043:A:N6	2.80	0.47
9:I:2964:A:C4	9:I:2965:G:C8	3.02	0.47
9:I:2970:U:O4'	9:I:3226:C:N1	2.47	0.47
9:I:3183:A:C2'	9:I:3184:A:C8	2.95	0.47
9:I:3315:A:H3'	9:I:3315:A:P	2.54	0.47
9:I:3336:G:H2'	9:I:3337:C:C6	2.49	0.47
9:I:3354:G:H22	9:I:3376:U:H2'	1.79	0.47
9:I:3528:U:HO2'	9:I:3529:G:H5'	1.79	0.47
9:I:3735:A:C2	9:I:3736:G:C5	3.01	0.47
9:I:3767:A:C2	9:I:3768:A:C5	3.02	0.47
9:I:3788:G:H2'	9:I:3789:C:H5'	1.95	0.47
9:I:3823:U:H2'	9:I:3824:G:O4'	2.12	0.47
9:I:3826:C:H3'	9:I:3827:A:C8	2.49	0.47
9:I:3826:C:C2'	9:I:3829:A:N3	2.77	0.47
9:I:3839:G:C2	9:I:3876:G:C8	3.01	0.47
9:I:3845:G:N3	9:I:3861:G:C6	2.82	0.47
9:I:3849:G:H4'	46:v:14:LYS:CE	2.43	0.47
9:I:3872:A:H8	9:I:3872:A:O5'	1.97	0.47
9:I:3972:A:C5	9:I:3973:U:C4	3.01	0.47
9:I:4062:U:N3	9:I:4063:G:C5	2.81	0.47
9:I:4128:A:C2'	9:I:4129:A:H5'	2.44	0.47
9:I:4175:C:C4'	9:I:4176:A:C8	2.97	0.47
9:I:4186:G:N2	39:o:93:LYS:NZ	2.62	0.47
9:I:4270:A:O2'	9:I:4276:G:N7	2.33	0.47
9:I:4429:G:OP2	9:I:4429:G:C8	2.67	0.47
10:J:28:A:C4	10:J:29:C:C5	3.01	0.47
10:J:32:G:C8	10:J:32:G:O5'	2.66	0.47
10:J:58:A:C5	10:J:59:C:C4	3.02	0.47
10:J:78:G:H2'	10:J:79:U:O4'	2.14	0.47
12:L:52:THR:CG2	12:L:80:TRP:HH2	2.17	0.47
13:M:51:GLU:OE1	13:M:51:GLU:N	2.47	0.47
13:M:188:MET:HE1	13:M:193:VAL:HG23	1.96	0.47
14:N:135:ILE:CG1	14:N:145:VAL:HG11	2.43	0.47
15:O:51:PHE:HZ	15:O:71:LEU:HD22	1.77	0.47
15:O:84:LYS:HG2	15:O:140:ILE:HG13	1.93	0.47
15:O:100:ASN:HB2	15:O:116:LEU:CB	2.43	0.47
16:R:16:TYR:HA	16:R:138:GLN:O	2.14	0.47
16:R:28:LEU:HD12	16:R:31:GLU:OE1	2.13	0.47
16:R:125:TYR:HB3	16:R:129:GLU:O	2.14	0.47
19:U:47:GLU:N	19:U:47:GLU:OE1	2.41	0.47
20:V:51:LEU:O	20:V:54:LEU:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:160:VAL:HG12	21:W:163:ALA:HA	1.95	0.47
22:X:3:LYS:HG3	22:X:4:VAL:N	2.28	0.47
22:X:6:PRO:O	22:X:10:ARG:HD3	2.14	0.47
25:a:9:MET:CE	25:a:57:ALA:HB1	2.44	0.47
27:c:9:MET:HA	27:c:12:ARG:HB3	1.96	0.47
28:d:104:ASP:OD1	28:d:106:ARG:HG3	2.13	0.47
36:l:3:ILE:HB	36:l:63:TYR:CZ	2.49	0.47
38:n:15:ARG:NH2	46:v:69:PHE:HD2	2.12	0.47
40:p:50:ARG:CA	40:p:53:LYS:HD2	2.09	0.47
40:p:77:LYS:HE3	40:p:116:LEU:CG	2.44	0.47
43:s:56:GLU:HG3	43:s:88:LYS:HD3	1.96	0.47
44:t:24:VAL:HG12	44:t:25:LYS:N	2.29	0.47
44:t:71:ILE:HD13	44:t:95:PHE:CZ	2.49	0.47
45:u:44:HIS:NE2	45:u:48:MET:CG	2.77	0.47
45:u:77:VAL:HG21	45:u:86:LEU:HD22	1.95	0.47
1:A:1:ALA:H3	1:A:6:LYS:CD	2.27	0.47
4:D:14:MET:O	9:I:272:U:H3'	2.14	0.47
4:D:50:CYS:SG	4:D:75:VAL:HG12	2.54	0.47
9:I:93:G:H1'	9:I:95:U:H5	1.77	0.47
9:I:158:G:H2'	9:I:160:A:OP2	2.15	0.47
9:I:179:U:H2'	9:I:180:A:N7	2.30	0.47
9:I:371:C:H2'	9:I:386:U:O4	2.14	0.47
9:I:620:A:C4	9:I:621:A:C8	3.03	0.47
9:I:999:A:C2'	9:I:1000:C:O4'	2.61	0.47
9:I:1038:G:HO2'	9:I:1039:U:C4'	2.14	0.47
9:I:1259:G:O5'	9:I:1283:C:H4'	2.14	0.47
9:I:1404:G:H1'	9:I:4423:MA6:O2'	2.14	0.47
9:I:1422:G:N1	9:I:4381:U:N3	2.18	0.47
9:I:1523:G:C6	9:I:2018:G:C6	3.03	0.47
9:I:1533:C:O2'	9:I:1946:G:N2	2.47	0.47
9:I:1563:A:C2'	9:I:1564:A:O4'	2.62	0.47
9:I:1664:C:C2'	9:I:1665:A:O4'	2.53	0.47
9:I:1776:U:C2'	9:I:1778:A:N7	2.75	0.47
9:I:1808:G:C6	9:I:2001:A:C4	3.02	0.47
9:I:1819:G:H3'	9:I:1820:A:H8	1.79	0.47
9:I:1871:A:H62	9:I:1902:A:N6	2.05	0.47
9:I:1874:A:N9	9:I:1901:A:C6	2.82	0.47
9:I:1924:G:C2	9:I:1925:G:N7	2.82	0.47
9:I:1998:G:H2'	9:I:1999:U:H6	1.78	0.47
9:I:2044:C:C4	9:I:2045:U:H5	2.32	0.47
9:I:2048:G:C5'	9:I:2049:G:H5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2108:A:C8	9:I:2121:A:N6	2.82	0.47
9:I:2203:U:N3	9:I:2228:G:C6	2.78	0.47
9:I:2213:G:C2'	9:I:2214:U:H5'	2.44	0.47
9:I:2234:A:C2	9:I:2235:A:C1'	2.97	0.47
9:I:2249:A:C5	9:I:3112:6MZ:N1	2.82	0.47
9:I:2335:C:C2	9:I:2336:G:C8	3.02	0.47
9:I:2396:C:O2	9:I:2396:C:C2'	2.62	0.47
9:I:2452:U:H5''	9:I:2453:A:OP1	2.14	0.47
9:I:2645:A:O3'	40:p:80:ASN:HB2	2.14	0.47
9:I:2913:A:O4'	9:I:3073:A:N1	2.47	0.47
9:I:3182:U:C2'	9:I:3183:A:C8	2.97	0.47
9:I:3288:A:H2'	9:I:3289:C:H6	1.79	0.47
9:I:3288:A:H2'	9:I:3289:C:C6	2.49	0.47
9:I:3317:G:C6	9:I:3318:G:C5	3.02	0.47
9:I:3333:G:C6	9:I:3334:G:N7	2.82	0.47
9:I:3350:U:C2'	9:I:3351:G:H5'	2.45	0.47
9:I:3521:G:H2'	9:I:3522:U:H6	1.78	0.47
9:I:3737:U:O2'	9:I:3738:U:H5'	2.14	0.47
9:I:3764:A:C5	9:I:3765:G:C5	3.01	0.47
9:I:3863:A:N6	9:I:3864:G:C6	2.82	0.47
9:I:3869:G:C6	9:I:3871:A:C5'	2.97	0.47
9:I:4011:C:O2	9:I:4036:A:N6	2.48	0.47
9:I:4041:A:N3	17:S:23:LYS:NZ	2.61	0.47
9:I:4130:C:C4'	12:L:38:LYS:HZ2	2.27	0.47
9:I:4153:G:H21	9:I:4156:A:P	2.36	0.47
9:I:4176:A:H3'	9:I:4176:A:P	2.54	0.47
9:I:4308:A:C4	9:I:4309:C:C5	3.03	0.47
9:I:4310:G:O2'	9:I:4311:U:O5'	2.32	0.47
9:I:4437:C:H4'	9:I:4437:C:OP1	2.13	0.47
10:J:11:C:C2'	46:v:66:ASN:HD21	2.28	0.47
11:K:23:LEU:HD23	11:K:80:LEU:HB2	1.89	0.47
12:L:50:VAL:O	12:L:80:TRP:CE3	2.67	0.47
13:M:146:VAL:HG12	13:M:148:ILE:HD11	1.96	0.47
14:N:30:VAL:CG1	14:N:168:LEU:CG	2.91	0.47
14:N:36:ASN:O	14:N:151:LEU:C	2.56	0.47
15:O:51:PHE:CE2	15:O:71:LEU:CB	2.97	0.47
15:O:104:LEU:HD12	15:O:113:ASP:CA	2.44	0.47
17:S:51:LYS:HA	17:S:51:LYS:HE2	1.96	0.47
17:S:58:LEU:HD21	17:S:86:LEU:HD22	1.95	0.47
18:T:90:VAL:CB	18:T:94:THR:HB	2.44	0.47
19:U:59:ARG:NH1	19:U:60:GLN:CG	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:93:TRP:CD1	21:W:168:ILE:HG22	2.49	0.47
21:W:193:VAL:CG1	21:W:196:VAL:HA	2.44	0.47
26:b:15:PRO:HG2	26:b:43:TYR:OH	2.14	0.47
28:d:44:VAL:HG11	28:d:73:ALA:CB	2.43	0.47
28:d:49:LEU:HD22	28:d:54:MET:HE1	1.94	0.47
30:f:8:VAL:HB	30:f:23:THR:HG22	1.93	0.47
30:f:36:GLY:HA2	30:f:45:LYS:HG3	1.96	0.47
31:g:22:ALA:HB3	31:g:94:TYR:CE2	2.49	0.47
33:i:27:LEU:HD11	33:i:36:LYS:HB3	1.97	0.47
35:k:42:LEU:HD22	35:k:42:LEU:N	2.29	0.47
37:m:17:VAL:HG22	37:m:19:ARG:HG3	1.95	0.47
38:n:2:LYS:CE	38:n:3:LYS:HB2	2.44	0.47
38:n:34:ILE:HG13	38:n:35:TYR:N	2.29	0.47
38:n:80:ARG:O	38:n:84:LYS:HG3	2.14	0.47
40:p:80:ASN:OD1	40:p:84:LYS:HE3	2.14	0.47
44:t:45:GLN:NE2	44:t:46:LYS:O	2.47	0.47
47:w:53:LYS:CG	47:w:57:VAL:CG1	2.91	0.47
48:x:1:LYS:O	48:x:1:LYS:HG3	2.14	0.47
48:x:22:ARG:CD	48:x:26:ASN:HD21	2.26	0.47
3:C:23:ASP:CG	9:I:229:G:H1'	2.40	0.47
9:I:136:U:H2'	9:I:137:G:C8	2.49	0.47
9:I:541:G:H2'	9:I:542:U:C6	2.49	0.47
9:I:588:U:O2	9:I:589:U:C5	2.67	0.47
9:I:608:A:H3'	9:I:609:U:C6	2.50	0.47
9:I:723:G:C6	9:I:724:G:C5	3.02	0.47
9:I:743:C:O2	9:I:744:G:N7	2.47	0.47
9:I:1038:G:HO2'	9:I:1039:U:C1'	2.11	0.47
9:I:1054:A:H1'	22:X:155:ARG:NH2	2.10	0.47
9:I:1103:G:H4'	21:W:110:ARG:NH1	2.29	0.47
9:I:1190:A:N3	9:I:1190:A:H2'	2.28	0.47
9:I:1233:C:O4'	9:I:1363:U:H1'	2.15	0.47
9:I:1433:A:C3'	9:I:1434:G:H8	2.19	0.47
9:I:1472:G:C2	9:I:1473:G:C8	3.03	0.47
9:I:1498:C:C2	9:I:1502:G:N1	2.82	0.47
9:I:1763:G:H2'	9:I:1764:C:C6	2.49	0.47
9:I:1782:A:N1	9:I:1859:G:O6	2.47	0.47
9:I:1795:G:C6	9:I:1796:U:C5	3.02	0.47
9:I:1797:G:OP1	44:t:85:ARG:N	2.47	0.47
9:I:1808:G:C3'	44:t:16:LYS:HE2	2.44	0.47
9:I:1856:G:C6	9:I:1857:C:C2	3.02	0.47
9:I:1906:G:C4	9:I:1907:G:C8	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1908:G:H2'	9:I:1909:G:O4'	2.14	0.47
9:I:1928:A:C2'	9:I:1929:A:O5'	2.62	0.47
9:I:1989:G:O4'	9:I:2778:A:C4	2.67	0.47
9:I:2033:G:H2'	9:I:2034:U:H6	1.78	0.47
9:I:2046:U:C2'	9:I:2047:A:O4'	2.62	0.47
9:I:2083:G:P	40:p:10:ARG:HH22	2.36	0.47
9:I:2219:C:H2'	9:I:2220:U:C6	2.49	0.47
9:I:2219:C:H2'	9:I:2220:U:H6	1.79	0.47
9:I:2359:G:H21	9:I:2410:G:C2'	2.26	0.47
9:I:2578:A:N3	9:I:2600:G:H1'	2.30	0.47
9:I:2619:G:H2'	9:I:2620:A:H8	1.80	0.47
9:I:2677:U:C2'	9:I:2678:U:O4'	2.62	0.47
9:I:2742:G:N2	13:M:83:VAL:HG22	2.28	0.47
9:I:2751:C:H4'	13:M:78:TRP:CZ3	2.50	0.47
9:I:2896:U:H5''	9:I:2897:A:OP2	2.14	0.47
9:I:2900:U:H3'	9:I:2901:G:C8	2.43	0.47
9:I:2970:U:C2'	9:I:2971:A:H5'	2.44	0.47
9:I:3027:C:H2'	9:I:3028:U:O5'	2.15	0.47
9:I:3078:U:H5''	9:I:3079:C:C5	2.49	0.47
9:I:3216:A:C5'	9:I:3232:G:N2	2.77	0.47
9:I:3604:G:H5'	9:I:3612:U:H3	1.80	0.47
9:I:3783:G:H2'	9:I:3784:G:C1'	2.44	0.47
9:I:3787:G:N1	9:I:3834:A:C1'	2.77	0.47
9:I:3820:C:O3'	9:I:3821:A:C8	2.66	0.47
9:I:3840:A:C6	9:I:3877:G:N1	2.82	0.47
9:I:3841:C:C2	9:I:3865:G:N2	2.82	0.47
9:I:3855:G:C6	9:I:3856:C:C4	3.02	0.47
9:I:3883:G:H3'	9:I:3883:G:C8	2.49	0.47
9:I:3997:2MA:O2'	9:I:3998:PSU:H5'	2.14	0.47
9:I:4239:C:H5''	15:O:145:ALA:CB	2.44	0.47
9:I:4254:C:O2	15:O:142:GLN:OE1	2.32	0.47
9:I:4276:G:O2'	9:I:4277:U:H5'	2.14	0.47
9:I:4304:A:H3'	9:I:4305:G:O4'	2.14	0.47
9:I:4349:C:O3'	9:I:4350:G:O4'	2.31	0.47
9:I:4388:C:C2	9:I:4389:U:C6	3.03	0.47
10:J:29:C:C2	10:J:30:C:C6	3.02	0.47
10:J:38:A:HO2'	10:J:39:U:C1'	2.19	0.47
11:K:141:HIS:CG	11:K:154:ALA:O	2.68	0.47
11:K:159:THR:H	11:K:194:VAL:HG13	1.78	0.47
11:K:170:TYR:CA	11:K:184:GLU:HA	2.43	0.47
12:L:91:THR:CG2	12:L:92:VAL:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:160:ALA:O	13:M:164:LEU:HD13	2.14	0.47
15:O:28:LYS:CG	15:O:79:THR:HA	2.44	0.47
15:O:51:PHE:C	15:O:64:ALA:HB1	2.39	0.47
15:O:102:ILE:HB	15:O:114:HIS:C	2.39	0.47
16:R:17:VAL:HG12	16:R:18:VAL:H	1.79	0.47
16:R:33:ALA:HB1	16:R:109:LEU:HD22	1.96	0.47
16:R:119:PHE:CD2	16:R:122:LEU:HD22	2.49	0.47
17:S:61:VAL:N	17:S:87:LEU:HG	2.30	0.47
18:T:111:ILE:HG22	18:T:112:LEU:N	2.29	0.47
19:U:42:THR:HG22	19:U:93:VAL:CG1	2.44	0.47
20:V:73:ASN:CA	20:V:76:VAL:HG22	2.44	0.47
23:Y:102:TYR:HD1	23:Y:107:GLY:O	1.98	0.47
31:g:23:LEU:HG	31:g:26:CYS:O	2.14	0.47
32:h:78:ARG:HG2	32:h:82:LEU:CG	2.44	0.47
36:l:41:ARG:O	36:l:43:LEU:N	2.46	0.47
38:n:25:LEU:HG	38:n:25:LEU:O	2.12	0.47
38:n:105:LEU:HD23	38:n:105:LEU:C	2.39	0.47
39:o:20:ARG:CZ	39:o:91:VAL:HG13	2.44	0.47
41:q:6:GLN:HG3	41:q:10:LYS:CA	2.43	0.47
41:q:48:LYS:C	41:q:54:VAL:HG22	2.38	0.47
41:q:71:LYS:HG2	41:q:90:ARG:HD2	1.96	0.47
44:t:4:ILE:O	44:t:5:ARG:HG3	2.13	0.47
45:u:48:MET:HG2	45:u:86:LEU:CD1	2.44	0.47
46:v:24:GLY:N	46:v:52:LYS:HA	2.16	0.47
49:y:3:THR:CB	49:y:37:ARG:O	2.62	0.47
1:A:20:PHE:CG	1:A:24:ALA:HB3	2.49	0.47
1:A:59:GLN:C	1:A:60:ARG:HG2	2.39	0.47
3:C:5:ARG:NE	3:C:22:ALA:HB3	2.30	0.47
3:C:70:ARG:CG	9:I:376:G:OP2	2.62	0.47
4:D:20:VAL:HG13	4:D:56:VAL:CG1	2.44	0.47
5:E:1:GLU:N	5:E:10:LEU:HD11	2.29	0.47
5:E:47:SER:O	25:a:47:LEU:HB3	2.15	0.47
9:I:683:U:C1'	30:f:28:ASN:HB3	2.44	0.47
9:I:715:A:H2'	9:I:716:U:C5	2.47	0.47
9:I:943:G:N1	9:I:1337:G:OP2	2.40	0.47
9:I:961:C:N4	9:I:973:A:H61	2.12	0.47
9:I:992:G:N3	9:I:992:G:H2'	2.29	0.47
9:I:1065:C:N3	9:I:1190:A:N7	2.62	0.47
9:I:1073:G:H4'	21:W:100:ASN:N	2.28	0.47
9:I:1128:C:O2'	9:I:1138:G:N7	2.36	0.47
9:I:1374:A:H5''	26:b:28:ILE:HD13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1471:C:H5'	39:o:1:SER:OG	2.14	0.47
9:I:1779:A:H8	9:I:1779:A:O5'	1.98	0.47
9:I:1790:U:N3	9:I:1791:G:C5	2.82	0.47
9:I:1825:G:C2	9:I:1826:G:C4	3.02	0.47
9:I:1874:A:O2'	9:I:1875:G:H5'	2.13	0.47
9:I:1905:U:H5'	9:I:1906:G:N9	2.30	0.47
9:I:1976:G:H22	9:I:1979:A:H5''	1.79	0.47
9:I:2035:G:N1	9:I:2059:G:C5	2.81	0.47
9:I:2147:G:C2	9:I:2148:G:C4	3.02	0.47
9:I:2184:G:C5	9:I:2274:G:C6	3.03	0.47
9:I:2328:U:H4'	9:I:2331:G:H1	1.78	0.47
9:I:2452:U:H3'	10:J:88:U:C4	2.49	0.47
9:I:2501:C:H5''	9:I:2502:A:P	2.54	0.47
9:I:2532:G:O6	9:I:2612:C:N4	2.47	0.47
9:I:2766:A:C2	9:I:3112:6MZ:C5	2.97	0.47
9:I:2781:A:O2'	9:I:2782:G:H5'	2.14	0.47
9:I:2818:G:H4'	9:I:2819:U:OP2	2.13	0.47
9:I:2931:C:N4	9:I:3047:A:OP2	2.47	0.47
9:I:2946:G:C2	9:I:4196:G:C5	3.02	0.47
9:I:2952:U:H1'	9:I:2953:G:C6	2.49	0.47
9:I:2971:A:C2	9:I:3009:A:C6	3.02	0.47
9:I:2973:G:C5	9:I:2974:C:C4	3.03	0.47
9:I:2980:U:H2'	9:I:2980:U:O2	2.14	0.47
9:I:2992:C:C2	9:I:2993:C:C5	3.02	0.47
9:I:3057:U:C2	9:I:3058:C:C5	3.02	0.47
9:I:3282:C:H2'	9:I:3283:A:C8	2.49	0.47
9:I:3318:G:C4	9:I:3319:U:C5	3.02	0.47
9:I:3347:A:C2	9:I:3727:U:O2	2.68	0.47
9:I:3385:G:H2'	9:I:3386:C:H6	1.78	0.47
9:I:3527:A:N1	9:I:3530:C:C6	2.82	0.47
9:I:3564:A:H2'	9:I:3565:A:O4'	2.13	0.47
9:I:3709:C:C2'	9:I:3710:G:C8	2.97	0.47
9:I:3722:G:N3	9:I:3723:U:C5	2.82	0.47
9:I:3826:C:O2'	9:I:3829:A:H2'	2.15	0.47
9:I:3839:G:H21	9:I:3875:A:H3'	1.79	0.47
9:I:3869:G:C2	9:I:3873:G:N1	2.83	0.47
9:I:3887:U:H3'	36:l:29:ARG:NH2	2.29	0.47
9:I:3911:C:H2'	34:j:16:HIS:HD2	1.75	0.47
9:I:4133:A:H62	9:I:4269:G:H21	1.62	0.47
9:I:4149:G:H4'	9:I:4150:U:H5'	1.94	0.47
9:I:4179:G:H8	9:I:4179:G:OP2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4179:G:OP1	39:o:72:VAL:CG1	2.63	0.47
9:I:4232:A:N1	9:I:4260:A:C6	2.83	0.47
9:I:4314:A:O4'	20:V:3:HIS:HD2	1.97	0.47
10:J:4:U:H1'	10:J:25:C:N3	2.29	0.47
10:J:8:G:C4'	38:n:43:GLY:O	2.63	0.47
10:J:28:A:H5''	38:n:2:LYS:HZ1	1.80	0.47
10:J:32:G:O5'	10:J:32:G:H8	1.96	0.47
10:J:99:G:N3	10:J:100:A:H1'	2.29	0.47
11:K:257:ARG:HD2	11:K:269:ARG:CZ	2.43	0.47
12:L:104:VAL:HG13	12:L:177:VAL:CG1	2.43	0.47
13:M:102:ARG:O	13:M:106:LYS:HD3	2.14	0.47
13:M:172:ALA:HA	13:M:175:ILE:HG21	1.93	0.47
15:O:67:ALA:HA	15:O:70:LEU:CD1	2.43	0.47
15:O:101:VAL:HA	15:O:115:GLN:HA	1.95	0.47
20:V:44:LEU:O	20:V:48:VAL:CG2	2.60	0.47
21:W:7:LEU:HB2	21:W:40:LEU:HD13	1.91	0.47
21:W:57:ILE:HG12	21:W:60:ARG:NH2	2.29	0.47
23:Y:78:ALA:HB2	23:Y:92:LEU:HD12	1.96	0.47
27:c:93:LYS:HB2	27:c:97:GLY:CA	2.31	0.47
28:d:36:PHE:CE1	28:d:69:ILE:HA	2.50	0.47
29:e:36:ILE:HG22	29:e:38:LEU:HD11	1.96	0.47
30:f:19:ILE:HB	30:f:34:THR:HG22	1.94	0.47
32:h:15:VAL:HG12	32:h:33:LEU:CD1	2.44	0.47
39:o:54:LEU:HA	39:o:76:HIS:CD2	2.49	0.47
40:p:109:VAL:HG12	40:p:113:LYS:HB2	1.96	0.47
45:u:81:PRO:HB2	45:u:82:TYR:CD1	2.49	0.47
46:v:30:GLN:HB2	46:v:34:LYS:CB	2.36	0.47
2:B:80:LEU:O	2:B:83:ARG:N	2.48	0.47
3:C:53:ASP:CG	3:C:56:ARG:HG2	2.40	0.47
3:C:72:ALA:HB1	3:C:76:LYS:HZ1	1.78	0.47
4:D:12:ASP:CA	4:D:19:VAL:HG12	2.36	0.47
4:D:27:LYS:HG3	4:D:32:GLY:HA2	1.95	0.47
5:E:50:PRO:HD3	25:a:48:ALA:HB3	1.97	0.47
6:F:35:ARG:NH1	9:I:1319:C:H41	2.13	0.47
6:F:68:LYS:HA	6:F:68:LYS:HE2	1.97	0.47
7:G:69:LYS:NZ	9:I:260:U:OP1	2.46	0.47
8:H:3:ILE:HG23	30:f:98:ILE:HA	1.96	0.47
9:I:34:G:O2'	31:g:114:SER:O	2.19	0.47
9:I:135:C:H2'	9:I:136:U:O5'	2.14	0.47
9:I:143:G:N7	9:I:195:A:C8	2.82	0.47
9:I:292:G:C2	9:I:293:U:C6	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:341:C:H2'	9:I:342:U:O4'	2.14	0.47
9:I:409:G:C2'	9:I:431:A:N6	2.77	0.47
9:I:481:A:O5'	9:I:481:A:H8	1.98	0.47
9:I:512:C:H2'	9:I:513:C:H6	1.80	0.47
9:I:769:C:C2'	9:I:770:G:H5'	2.44	0.47
9:I:1077:U:H4'	9:I:1078:G:OP1	2.15	0.47
9:I:1199:C:O5'	9:I:1200:A:H3'	2.14	0.47
9:I:1471:C:H4'	39:o:1:SER:HB2	1.95	0.47
9:I:1476:C:O5'	9:I:1476:C:C6	2.54	0.47
9:I:1648:U:C2'	9:I:1649:A:H5''	2.44	0.47
9:I:1733:A:H2'	9:I:1734:U:C5'	2.44	0.47
9:I:1736:C:N4	9:I:1762:A:H61	2.13	0.47
9:I:1737:C:C2	9:I:1738:C:C5	3.02	0.47
9:I:1809:A:C5'	9:I:1810:A:OP2	2.60	0.47
9:I:1947:A:C2	9:I:1973:G:C8	3.02	0.47
9:I:2218:A:N1	9:I:2219:C:H1'	2.29	0.47
9:I:2299:G:C6	9:I:2300:A:N6	2.82	0.47
9:I:2348:C:C2	9:I:2427:A:C2	3.01	0.47
9:I:2469:A:C4	9:I:2484:A:N7	2.82	0.47
9:I:2524:C:OP1	19:U:127:LYS:CE	2.63	0.47
9:I:2539:C:C4'	9:I:2540:A:H5'	2.41	0.47
9:I:2573:C:O2	9:I:2573:C:C2'	2.62	0.47
9:I:2724:A:H2'	9:I:2725:U:O4'	2.15	0.47
9:I:2784:C:H2'	9:I:2785:C:H6	1.80	0.47
9:I:2844:C:C2'	9:I:2845:C:H5'	2.43	0.47
9:I:2963:A:C8	9:I:3015:G:N2	2.83	0.47
9:I:2983:C:O3'	9:I:2984:A:H3'	2.15	0.47
9:I:2992:C:OP2	9:I:2992:C:C6	2.68	0.47
9:I:3152:C:OP1	12:L:138:LEU:HD13	2.15	0.47
9:I:3507:A:C2	9:I:3508:A:C2	3.03	0.47
9:I:3527:A:C2	9:I:3530:C:C5	3.01	0.47
9:I:3708:C:H2'	9:I:3709:C:H5'	1.96	0.47
9:I:3839:G:H5''	9:I:3840:A:O3'	2.15	0.47
9:I:3839:G:N3	9:I:3876:G:H5'	2.29	0.47
9:I:3869:G:N2	9:I:3872:A:C5	2.79	0.47
9:I:3937:C:O2	9:I:3938:G:C8	2.68	0.47
9:I:4015:C:C4	9:I:4016:U:C4	3.03	0.47
9:I:4042:U:H1'	17:S:23:LYS:CE	2.43	0.47
9:I:4173:A:C5'	12:L:194:PRO:HG3	2.44	0.47
9:I:4242:A:H5''	9:I:4247:A:N7	2.30	0.47
9:I:4292:U:O2'	9:I:4293:A:OP2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4341:U:C4	9:I:4342:G:C2	3.03	0.47
9:I:4409:G:H4'	9:I:4410:U:H5''	1.95	0.47
10:J:39:U:O2'	10:J:42:C:H5	1.98	0.47
10:J:67:C:O2	10:J:67:C:H2'	2.14	0.47
10:J:71:G:C6	10:J:101:G:O5'	2.67	0.47
10:J:118:A:N3	10:J:118:A:H2'	2.29	0.47
11:K:30:ALA:O	11:K:32:LEU:N	2.48	0.47
11:K:83:ASP:OD2	11:K:90:ILE:HD13	2.14	0.47
11:K:93:VAL:CG1	11:K:103:ILE:CD1	2.93	0.47
11:K:93:VAL:CG1	11:K:103:ILE:HD11	2.45	0.47
11:K:141:HIS:HB3	11:K:154:ALA:HB3	1.95	0.47
11:K:166:ARG:HD2	11:K:167:ASP:CA	2.44	0.47
12:L:32:ASN:O	12:L:96:ILE:HG13	2.14	0.47
12:L:65:ALA:O	12:L:69:ALA:CB	2.63	0.47
12:L:84:LEU:CA	12:L:88:GLU:HB3	2.38	0.47
13:M:40:ARG:CZ	13:M:92:HIS:CE1	2.97	0.47
15:O:3:VAL:HG13	15:O:68:ARG:CB	2.42	0.47
15:O:3:VAL:O	15:O:68:ARG:HB2	2.14	0.47
16:R:15:TRP:HB2	16:R:137:PRO:CB	2.43	0.47
16:R:23:LYS:CE	16:R:27:ARG:O	2.62	0.47
19:U:130:PHE:CZ	19:U:132:THR:HG22	2.49	0.47
23:Y:104:MET:HE2	23:Y:142:VAL:CG1	2.44	0.47
24:Z:37:VAL:N	24:Z:62:MET:SD	2.87	0.47
25:a:81:ASN:CG	25:a:84:VAL:HG12	2.39	0.47
28:d:17:PHE:O	28:d:60:LEU:HA	2.15	0.47
32:h:33:LEU:CD2	32:h:38:ILE:HB	2.36	0.47
37:m:17:VAL:O	37:m:17:VAL:HG13	2.15	0.47
40:p:54:ARG:O	40:p:57:ARG:HG2	2.14	0.47
42:r:2:GLU:HA	42:r:107:VAL:O	2.14	0.47
43:s:54:GLU:HG2	43:s:55:VAL:N	2.29	0.47
45:u:9:ARG:NE	45:u:20:LEU:HD13	2.29	0.47
5:E:40:ILE:CD1	5:E:49:LEU:HD12	2.45	0.47
6:F:10:ASP:HB2	6:F:36:SER:HG	1.80	0.47
9:I:929:C:O2'	9:I:930:C:H5'	2.15	0.47
9:I:953:G:H21	9:I:1226:A:N6	2.13	0.47
9:I:1128:C:OP2	9:I:1138:G:H2'	2.14	0.47
9:I:1163:G:O2'	9:I:1164:U:H5'	2.14	0.47
9:I:1297:U:O4	26:b:113:LYS:O	2.33	0.47
9:I:1441:G:N2	9:I:4365:G:H1'	2.29	0.47
9:I:1448:C:N4	9:I:1449:A:N6	2.63	0.47
9:I:1526:G:O2'	9:I:1527:G:C5'	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1579:C:C4	9:I:1608:G:O6	2.68	0.47
9:I:1583:A:P	9:I:1601:A:H61	2.38	0.47
9:I:1590:U:H2'	9:I:1591:A:C5	2.50	0.47
9:I:1598:G:C2'	9:I:1599:U:O4'	2.63	0.47
9:I:1733:A:O2'	9:I:1734:U:H5'	2.14	0.47
9:I:1737:C:N4	9:I:1761:G:C6	2.82	0.47
9:I:1803:G:H1'	9:I:1815:G:C2	2.48	0.47
9:I:1805:C:C2'	9:I:1806:U:O4'	2.61	0.47
9:I:1824:A:C4	9:I:1825:G:C8	3.02	0.47
9:I:1846:A:P	9:I:1847:A:N6	2.88	0.47
9:I:1949:A:H4'	40:p:2:ARG:NH1	2.29	0.47
9:I:2159:G:H4'	13:M:95:LYS:NZ	2.29	0.47
9:I:2201:G:N2	9:I:2202:U:H1'	2.30	0.47
9:I:2205:A:H8	9:I:2226:G:H21	1.48	0.47
9:I:2270:G:C2	9:I:2271:G:C8	3.02	0.47
9:I:2351:C:H2'	9:I:2351:C:O2	2.14	0.47
9:I:2474:A:N7	9:I:2475:A:C6	2.82	0.47
9:I:2787:C:N3	9:I:2788:U:C5	2.83	0.47
9:I:2840:G:N3	9:I:2841:A:H1'	2.28	0.47
9:I:2992:C:O2'	9:I:2993:C:H5'	2.15	0.47
9:I:3201:G:C6	9:I:3245:U:C5	3.00	0.47
9:I:3215:G:H2'	9:I:3232:G:H1	1.79	0.47
9:I:3231:G:C6	9:I:3232:G:C6	3.03	0.47
9:I:3396:C:C5	9:I:3397:G:C8	3.03	0.47
9:I:3553:A:C2'	9:I:3997:2MA:HM23	2.44	0.47
9:I:3571:A:C4	9:I:3929:A:N7	2.82	0.47
9:I:3797:G:O4'	14:N:122:ASP:HA	2.14	0.47
9:I:3871:A:H2	38:n:116:PHE:CD1	2.33	0.47
9:I:3873:G:O2'	9:I:3874:C:O4'	2.32	0.47
9:I:3913:U:H5''	34:j:19:THR:CG2	2.45	0.47
9:I:3962:A:C5	9:I:3970:A:N1	2.83	0.47
9:I:4033:C:C2'	9:I:4034:C:H5'	2.43	0.47
9:I:4121:G:O2'	9:I:4122:C:C5'	2.63	0.47
9:I:4178:U:N3	9:I:4179:G:C5	2.83	0.47
9:I:4190:U:O4	9:I:4208:G:C6	2.68	0.47
9:I:4340:G:P	39:o:51:ASN:H	2.36	0.47
10:J:5:G:C2'	10:J:6:G:H5'	2.44	0.47
10:J:32:G:N1	10:J:33:A:H1'	2.28	0.47
10:J:72:A:C2	45:u:37:PRO:CG	2.98	0.47
11:K:6:LYS:HB3	11:K:8:THR:HG23	1.96	0.47
12:L:83:ARG:O	12:L:88:GLU:OE1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:131:THR:CG2	13:M:159:LEU:O	2.63	0.47
14:N:64:PRO:CB	14:N:88:VAL:HG12	2.44	0.47
14:N:111:ARG:HD3	14:N:136:ILE:CG2	2.45	0.47
15:O:82:PHE:CD1	15:O:137:LYS:HA	2.49	0.47
15:O:145:ALA:HA	15:O:148:ARG:HG2	1.95	0.47
17:S:3:GLN:C	17:S:21:CYS:SG	2.97	0.47
17:S:43:ILE:CD1	17:S:52:VAL:HG21	2.34	0.47
19:U:3:GLN:HB2	19:U:92:TRP:CD1	2.49	0.47
19:U:36:VAL:HG13	19:U:129:THR:CG2	2.45	0.47
19:U:58:LYS:HD3	19:U:58:LYS:N	2.30	0.47
19:U:130:PHE:CE2	19:U:132:THR:CG2	2.97	0.47
23:Y:57:LYS:HA	23:Y:199:ILE:CD1	2.43	0.47
23:Y:84:ASN:CG	23:Y:87:GLU:HG3	2.39	0.47
25:a:25:TYR:HA	25:a:28:ALA:CB	2.45	0.47
25:a:47:LEU:O	25:a:55:HIS:HB3	2.14	0.47
26:b:80:GLY:H	26:b:84:TYR:HE2	1.61	0.47
28:d:3:TYR:CB	28:d:18:ILE:HB	2.18	0.47
29:e:4:ILE:CG1	29:e:70:VAL:HB	2.44	0.47
38:n:32:ARG:O	38:n:33:HIS:HB2	2.13	0.47
38:n:33:HIS:CE1	38:n:58:ALA:HB1	2.48	0.47
40:p:12:ARG:O	40:p:15:LYS:HE2	2.14	0.47
40:p:93:ILE:CG2	41:q:4:VAL:HG21	2.45	0.47
41:q:41:ILE:HD12	41:q:54:VAL:CB	2.44	0.47
41:q:97:LYS:HG2	41:q:98:ILE:C	2.39	0.47
45:u:31:TYR:O	45:u:92:VAL:HG22	2.15	0.47
46:v:9:LYS:HG2	46:v:9:LYS:O	2.13	0.47
47:w:32:LEU:HA	47:w:51:SER:N	2.30	0.47
1:A:63:CYS:HB3	1:A:67:GLY:CA	2.45	0.47
1:A:68:ARG:CG	9:I:1048:U:H3	2.27	0.47
2:B:88:ARG:HH22	9:I:2214:U:P	2.38	0.47
3:C:48:GLU:CG	3:C:49:GLY:H	2.23	0.47
3:C:57:ILE:HG13	3:C:58:ALA:N	2.30	0.47
3:C:78:VAL:O	3:C:79:ASN:HB2	2.14	0.47
4:D:8:ARG:CB	4:D:55:VAL:HA	2.45	0.47
4:D:9:VAL:CG2	4:D:18:ILE:HD11	2.43	0.47
4:D:13:LYS:HB3	9:I:273:A:H5'	1.94	0.47
5:E:24:ARG:HG2	5:E:25:ILE:N	2.30	0.47
5:E:42:ARG:HG2	25:a:86:ARG:CZ	2.44	0.47
7:G:26:MET:HE2	7:G:59:GLN:CG	2.44	0.47
7:G:72:ARG:NH2	9:I:259:G:P	2.87	0.47
8:H:28:LEU:O	8:H:31:VAL:HB	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:14:G:C4'	24:Z:20:ARG:HE	2.28	0.47
9:I:49:A:O3'	9:I:51:C:H6	1.98	0.47
9:I:159:A:H8	9:I:159:A:OP1	1.97	0.47
9:I:186:G:H22	9:I:188:A:H5''	1.79	0.47
9:I:242:A:H1'	9:I:245:A:OP2	2.14	0.47
9:I:291:G:N7	9:I:292:G:C1'	2.76	0.47
9:I:302:A:C2'	9:I:554:U:HO2'	2.27	0.47
9:I:638:G:H2'	9:I:639:A:O4'	2.14	0.47
9:I:657:C:H2'	9:I:658:U:H5'	1.96	0.47
9:I:891:A:H2'	9:I:892:C:H6	1.80	0.47
9:I:925:G:H21	9:I:4409:G:H2'	1.79	0.47
9:I:936:A:N1	9:I:1376:A:H1'	2.29	0.47
9:I:945:A:O4'	9:I:1333:G:H4'	2.14	0.47
9:I:1077:U:C1'	24:Z:129:ARG:HH12	2.27	0.47
9:I:1236:C:H3'	9:I:1237:A:C5'	2.41	0.47
9:I:1389:U:H2'	9:I:1390:U:C6	2.48	0.47
9:I:1395:A:O4'	9:I:1397:A:H1'	2.15	0.47
9:I:1488:G:N2	9:I:4301:U:H1'	2.30	0.47
9:I:1538:A:C4	9:I:1539:G:C8	3.03	0.47
9:I:1565:U:H2'	9:I:1566:C:C6	2.49	0.47
9:I:1629:C:H2'	9:I:1630:C:C6	2.50	0.47
9:I:1649:A:C5	9:I:1650:U:C4	3.03	0.47
9:I:1690:A:C2'	9:I:1691:A:C8	2.97	0.47
9:I:1797:G:P	44:t:91:LYS:HD3	2.54	0.47
9:I:1797:G:H5''	44:t:85:ARG:N	2.30	0.47
9:I:1802:C:N3	9:I:1815:G:O6	2.47	0.47
9:I:1818:C:H2'	9:I:1819:G:O4'	2.15	0.47
9:I:1833:G:N3	9:I:1834:C:C5	2.83	0.47
9:I:1879:G:N1	9:I:1896:G:C6	2.83	0.47
9:I:1917:C:H2'	9:I:1918:C:O4'	2.15	0.47
9:I:1952:G:C6	9:I:1958:G:N7	2.83	0.47
9:I:1976:G:H22	9:I:1979:A:C5'	2.27	0.47
9:I:1978:A:C6	9:I:1980:A:C5	3.03	0.47
9:I:1980:A:O3'	44:t:43:LYS:CB	2.63	0.47
9:I:2072:A:O3'	9:I:2073:U:H4'	2.15	0.47
9:I:2165:U:H2'	9:I:2165:U:O2	2.15	0.47
9:I:2183:U:C2'	9:I:2184:G:O5'	2.63	0.47
9:I:2243:A:C6	9:I:2244:U:C4	3.03	0.47
9:I:2245:1MG:HM12	9:I:2253:A:N6	2.29	0.47
9:I:2353:C:C2	9:I:2419:A:C2	3.03	0.47
9:I:2356:G:H5'	9:I:2357:G:OP1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2366:A:H2'	9:I:2367:C:C5'	2.45	0.47
9:I:2373:C:H2'	9:I:2374:G:C8	2.49	0.47
9:I:2400:U:N3	9:I:2401:G:C8	2.82	0.47
9:I:2415:C:O2	9:I:2416:C:C5	2.68	0.47
9:I:2468:G:OP1	41:q:78:ARG:NH2	2.48	0.47
9:I:2500:C:H1'	16:R:108:MET:CE	2.45	0.47
9:I:2517:U:N3	9:I:2518:G:H1'	2.29	0.47
9:I:2527:U:C4	9:I:4244:A:N1	2.83	0.47
9:I:2537:C:O2	9:I:2606:G:C2	2.63	0.47
9:I:2594:C:O2'	9:I:2595:U:H5'	2.15	0.47
9:I:2610:G:H2'	9:I:2611:C:O5'	2.14	0.47
9:I:2721:G:C6	9:I:2722:G:C5	3.03	0.47
9:I:2733:G:O2'	9:I:2734:U:H5'	2.15	0.47
9:I:2767:U:C2'	9:I:2768:A:OP2	2.61	0.47
9:I:2780:A:H1'	9:I:2782:G:OP2	2.15	0.47
9:I:2800:C:C2	9:I:3117:G:C2	3.03	0.47
9:I:2811:G:H2'	9:I:2812:U:O4'	2.14	0.47
9:I:2837:G:H3'	9:I:2838:U:C5	2.47	0.47
9:I:2873:U:O2'	9:I:2874:G:OP1	2.16	0.47
9:I:2877:A:C2	9:I:2900:U:O2'	2.66	0.47
9:I:2881:A:C6	9:I:2895:G:N1	2.83	0.47
9:I:2923:G:N7	11:K:27:LYS:NZ	2.58	0.47
9:I:2939:G:O6	9:I:2960:U:C4	2.68	0.47
9:I:2951:U:C2	9:I:4196:G:O6	2.61	0.47
9:I:2998:A:H2'	9:I:2998:A:N3	2.30	0.47
9:I:3023:G:H2'	9:I:3024:G:C5'	2.45	0.47
9:I:3059:C:C2'	11:K:25:LYS:NZ	2.73	0.47
9:I:3098:C:H2'	9:I:3099:C:C6	2.50	0.47
9:I:3145:G:C6	9:I:3146:A:C5	3.02	0.47
9:I:3161:G:C8	17:S:7:MET:CE	2.98	0.47
9:I:3190:G:O2'	9:I:3191:G:H5'	2.15	0.47
9:I:3273:U:N3	9:I:3277:A:N7	2.62	0.47
9:I:3286:G:C5'	11:K:203:VAL:CG1	2.93	0.47
9:I:3292:U:C5	9:I:3313:A:H2	2.33	0.47
9:I:3294:C:C2	9:I:3312:U:O2	2.67	0.47
9:I:3351:G:N2	9:I:3378:G:H1'	2.30	0.47
9:I:3358:U:C2	9:I:3370:A:OP1	2.68	0.47
9:I:3401:G:C6	9:I:3417:U:N3	2.73	0.47
9:I:3410:A:H8	9:I:3410:A:P	2.37	0.47
9:I:3594:G:C2'	9:I:3595:A:O4'	2.62	0.47
9:I:3595:A:OP1	9:I:3677:A:OP1	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3608:A:H3'	9:I:3608:A:N3	2.29	0.47
9:I:3684:G:H2'	9:I:3685:A:C8	2.49	0.47
9:I:3693:A:H2'	9:I:3694:C:C4'	2.43	0.47
9:I:3745:OMG:C6	9:I:3746:G:C5	3.03	0.47
9:I:3755:C:C1'	9:I:3882:A:H1'	2.44	0.47
9:I:3787:G:C6	9:I:3834:A:N9	2.83	0.47
9:I:3838:U:C5	34:j:33:LEU:CD2	2.97	0.47
9:I:3847:G:C2'	9:I:3848:C:O5'	2.62	0.47
9:I:3863:A:H2'	9:I:3864:G:H8	1.80	0.47
9:I:3872:A:N1	9:I:3873:G:H1'	2.29	0.47
9:I:3880:A:C5	9:I:3881:U:O4	2.68	0.47
9:I:3903:G:C2'	9:I:3904:G:O5'	2.62	0.47
9:I:3919:A:O4'	9:I:3921:C:N4	2.47	0.47
9:I:4025:A:C2	9:I:4153:G:C4'	2.98	0.47
9:I:4129:A:C5'	12:L:79:LEU:HB2	2.32	0.47
9:I:4130:C:C4'	12:L:81:GLU:OE2	2.55	0.47
9:I:4163:G:C2	9:I:4164:A:C8	3.02	0.47
9:I:4165:G:O2'	9:I:4166:U:H5''	2.13	0.47
9:I:4171:G:N3	9:I:4172:C:C5	2.83	0.47
9:I:4179:G:H2'	9:I:4179:G:N3	2.30	0.47
9:I:4216:G:C2	9:I:4217:C:C2	3.02	0.47
9:I:4224:C:N4	9:I:4225:G:O6	2.48	0.47
9:I:4241:G:OP1	15:O:137:LYS:CE	2.63	0.47
9:I:4270:A:N1	9:I:4272:A:C2	2.83	0.47
9:I:4399:U:C2	9:I:4400:C:C5	3.02	0.47
10:J:7:C:C3'	10:J:8:G:H5''	2.44	0.47
10:J:15:G:H5''	10:J:16:C:OP1	2.15	0.47
10:J:41:C:O2'	14:N:63:LYS:CG	2.63	0.47
10:J:62:C:OP2	10:J:108:A:OP1	2.32	0.47
11:K:4:LYS:HE2	11:K:14:HIS:CB	2.43	0.47
11:K:106:PRO:HD2	11:K:109:LEU:HB2	1.95	0.47
11:K:140:VAL:HG21	11:K:191:LEU:HD22	1.93	0.47
11:K:167:ASP:OD1	11:K:170:TYR:CE2	2.68	0.47
11:K:198:GLU:OE2	11:K:198:GLU:N	2.39	0.47
11:K:249:VAL:CG1	11:K:254:LYS:HD3	2.45	0.47
11:K:261:ARG:O	11:K:264:LYS:HG2	2.15	0.47
12:L:1:MET:CE	12:L:101:PHE:HD1	2.28	0.47
12:L:113:SER:H	12:L:168:GLU:H	1.62	0.47
13:M:23:PHE:HD2	13:M:25:GLU:CA	2.26	0.47
13:M:24:ASN:O	13:M:27:LEU:N	2.48	0.47
13:M:46:GLN:HB2	13:M:86:ALA:CB	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:149:ILE:O	13:M:189:THR:OG1	2.25	0.47
14:N:27:VAL:HG11	14:N:29:ARG:NH2	2.30	0.47
14:N:30:VAL:CG2	14:N:96:TRP:CZ3	2.98	0.47
14:N:120:SER:HB2	14:N:128:SER:O	2.15	0.47
15:O:42:VAL:CG1	15:O:44:HIS:HE1	2.16	0.47
15:O:86:LEU:HD22	15:O:147:LEU:HB3	1.95	0.47
16:R:7:LYS:O	16:R:11:VAL:HG23	2.15	0.47
16:R:23:LYS:HE3	16:R:28:LEU:CB	2.45	0.47
16:R:32:LEU:HD23	16:R:32:LEU:HA	1.54	0.47
16:R:40:HIS:O	40:p:70:GLN:CD	2.57	0.47
17:S:58:LEU:CD2	17:S:86:LEU:HD22	2.45	0.47
18:T:92:LEU:HD22	18:T:106:GLU:HA	1.96	0.47
18:T:131:ALA:O	18:T:134:ALA:HB3	2.14	0.47
19:U:4:PRO:CA	19:U:68:PHE:CE2	2.88	0.47
20:V:22:ARG:HD2	20:V:69:ARG:HD2	1.96	0.47
20:V:54:LEU:HD23	20:V:54:LEU:O	2.14	0.47
20:V:73:ASN:O	20:V:76:VAL:HG22	2.15	0.47
21:W:105:ARG:O	21:W:109:LYS:NZ	2.48	0.47
21:W:222:ARG:HD2	21:W:222:ARG:C	2.40	0.47
23:Y:94:GLU:CD	23:Y:99:ASN:HD21	2.22	0.47
24:Z:83:SER:HB3	24:Z:127:VAL:HA	1.95	0.47
25:a:67:PRO:HG2	25:a:70:VAL:HG22	1.96	0.47
26:b:21:LEU:HD21	26:b:96:ASN:HD22	1.79	0.47
27:c:124:ILE:HG21	27:c:127:TYR:CE1	2.50	0.47
28:d:52:VAL:HG21	28:d:91:LEU:CD1	2.45	0.47
29:e:52:HIS:O	29:e:53:VAL:HG12	2.14	0.47
30:f:46:SER:CA	30:f:79:PRO:HG3	2.44	0.47
31:g:81:ILE:HG21	31:g:94:TYR:HB3	1.97	0.47
32:h:67:ASP:O	32:h:70:ARG:HG3	2.14	0.47
34:j:20:THR:CA	36:l:33:THR:OG1	2.60	0.47
36:l:12:ARG:C	36:l:13:PHE:HD1	2.23	0.47
38:n:9:ARG:NE	38:n:12:ARG:HH22	2.12	0.47
38:n:39:ILE:CA	38:n:47:LEU:HB2	2.35	0.47
38:n:54:GLU:C	38:n:58:ALA:HB2	2.40	0.47
39:o:6:GLN:NE2	39:o:9:GLN:NE2	2.62	0.47
39:o:20:ARG:C	39:o:49:ILE:HD11	2.40	0.47
39:o:25:VAL:CG1	39:o:46:VAL:HG23	2.45	0.47
39:o:100:ARG:HG3	39:o:100:ARG:NH1	2.29	0.47
40:p:57:ARG:O	40:p:61:ILE:CD1	2.63	0.47
40:p:85:ALA:O	40:p:87:VAL:HG23	2.15	0.47
40:p:107:ALA:HA	40:p:110:GLU:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:113:LYS:HA	40:p:116:LEU:CB	2.44	0.47
41:q:12:HIS:CE1	41:q:20:VAL:HG12	2.49	0.47
41:q:97:LYS:HD3	41:q:99:THR:CG2	2.45	0.47
42:r:82:MET:HB2	42:r:98:LYS:HB3	1.97	0.47
43:s:29:THR:HG23	43:s:86:THR:CA	2.44	0.47
44:t:85:ARG:NH2	44:t:92:VAL:CG2	2.75	0.47
45:u:4:ILE:HG12	45:u:50:MET:HG3	1.95	0.47
45:u:6:ALA:H	45:u:63:ILE:CG2	2.28	0.47
45:u:28:ALA:CA	45:u:40:ILE:O	2.63	0.47
45:u:90:ASP:C	45:u:91:PHE:CG	2.93	0.47
46:v:28:VAL:CG2	46:v:49:LEU:HD12	2.43	0.47
48:x:1:LYS:O	48:x:51:ARG:HD3	2.14	0.47
48:x:56:LEU:HD23	48:x:59:LYS:CE	2.44	0.47
1:A:81:ILE:HG23	29:e:51:PRO:HB3	1.96	0.47
1:A:84:ARG:NE	29:e:51:PRO:HD3	2.28	0.47
9:I:198:A:H2'	9:I:199:G:C8	2.49	0.47
9:I:263:C:H2'	9:I:264:G:O4'	2.15	0.47
9:I:568:C:H4'	9:I:573:A:N7	2.30	0.47
9:I:598:C:C5'	27:c:87:ARG:HA	2.44	0.47
9:I:651:U:O2'	9:I:652:U:H2'	2.14	0.47
9:I:941:G:H2'	9:I:942:U:C6	2.50	0.47
9:I:973:A:H8	9:I:973:A:OP1	1.98	0.47
9:I:975:G:H5'	9:I:976:A:P	2.55	0.47
9:I:1045:A:H61	9:I:1212:A:N6	2.11	0.47
9:I:1056:G:H4'	22:X:196:GLY:H	1.78	0.47
9:I:1064:U:O4'	9:I:1065:C:C5	2.67	0.47
9:I:1081:A:C4	9:I:1082:U:C5	3.03	0.47
9:I:1159:G:N1	9:I:1175:A:C6	2.76	0.47
9:I:1259:G:P	9:I:1283:C:H4'	2.55	0.47
9:I:1374:A:C2'	9:I:1375:U:O4'	2.62	0.47
9:I:1417:A:H61	9:I:4386:G:H1'	1.77	0.47
9:I:1583:A:P	9:I:1601:A:N6	2.88	0.47
9:I:1631:A:H2'	9:I:1631:A:N3	2.28	0.47
9:I:1667:A:C2'	9:I:1668:G:H8	2.28	0.47
9:I:1785:G:C6	9:I:1786:U:C2	3.03	0.47
9:I:1801:G:C4	9:I:1802:C:C5	3.03	0.47
9:I:1849:U:H5''	9:I:1850:G:P	2.55	0.47
9:I:1866:C:O2	9:I:1867:G:O2'	2.31	0.47
9:I:1872:G:C6	9:I:1900:G:H3'	2.50	0.47
9:I:1912:A:C2	9:I:1913:C:H1'	2.50	0.47
9:I:1912:A:C5	9:I:1913:C:C2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1938:G:C4	9:I:1939:A:C8	3.03	0.47
9:I:1999:U:H4'	44:t:42:LYS:CE	2.37	0.47
9:I:2205:A:C8	9:I:2226:G:N2	2.63	0.47
9:I:2390:A:H3'	9:I:2391:C:H5'	1.97	0.47
9:I:2399:A:H2'	9:I:2400:U:H5'	1.97	0.47
9:I:2514:A:N1	9:I:2635:U:N1	2.63	0.47
9:I:2535:G:C5	9:I:2536:G:N7	2.83	0.47
9:I:2654:G:C4	9:I:2655:C:C5	3.03	0.47
9:I:2670:U:C2'	9:I:2671:G:O4'	2.62	0.47
9:I:2673:G:H2'	9:I:2673:G:N3	2.30	0.47
9:I:2690:C:C2	9:I:2691:G:C8	3.02	0.47
9:I:2768:A:C6	9:I:2796:A:C2	3.03	0.47
9:I:2835:G:H22	43:s:29:THR:HG21	1.79	0.47
9:I:2858:G:P	47:w:49:ARG:NH2	2.88	0.47
9:I:2919:G:C2'	9:I:2920:G:C1'	2.92	0.47
9:I:2979:U:C4	9:I:2999:A:C6	3.02	0.47
9:I:2997:A:N3	9:I:2997:A:C2'	2.76	0.47
9:I:3022:A:H3'	9:I:3023:G:H8	1.80	0.47
9:I:3093:U:O2	9:I:3094:C:C6	2.68	0.47
9:I:3094:C:N3	9:I:3095:G:N7	2.63	0.47
9:I:3166:A:C6	9:I:3167:G:C6	3.02	0.47
9:I:3309:A:H5'	9:I:3311:G:O2'	2.15	0.47
9:I:3314:U:P	11:K:176:ARG:CZ	3.03	0.47
9:I:3315:A:C4	9:I:3316:C:C5	3.02	0.47
9:I:3333:G:H2'	9:I:3333:G:N3	2.28	0.47
9:I:3571:A:H1'	9:I:3929:A:C8	2.49	0.47
9:I:3693:A:P	47:w:36:ARG:HD3	2.54	0.47
9:I:3722:G:C2	9:I:3723:U:C4	3.02	0.47
9:I:3772:A:H2	9:I:3773:G:H1'	1.80	0.47
9:I:3780:G:C2	9:I:3838:U:N3	2.83	0.47
9:I:3839:G:C4	9:I:3875:A:C2	3.03	0.47
9:I:3898:U:C2	9:I:3899:G:N7	2.82	0.47
9:I:4030:G:H8	9:I:4030:G:O5'	1.98	0.47
9:I:4200:A:C5'	9:I:4346:G:OP1	2.62	0.47
9:I:4212:G:N3	9:I:4341:U:C4'	2.74	0.47
9:I:4217:C:C5	9:I:4218:U:C5	3.02	0.47
9:I:4240:U:O4'	15:O:138:GLN:CA	2.61	0.47
9:I:4268:C:H2'	9:I:4269:G:C1'	2.45	0.47
10:J:22:G:H2'	10:J:23:G:O4'	2.14	0.47
10:J:32:G:C3'	10:J:32:G:C8	2.97	0.47
10:J:48:C:O5'	10:J:48:C:H6	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:75:G:OP1	45:u:17:SER:OG	2.22	0.47
11:K:136:VAL:HG12	11:K:137:GLY:N	2.29	0.47
11:K:166:ARG:HD2	11:K:166:ARG:C	2.38	0.47
12:L:1:MET:CE	12:L:104:VAL:HB	2.26	0.47
12:L:62:LYS:O	12:L:65:ALA:HB3	2.13	0.47
12:L:178:VAL:CG2	12:L:190:LYS:CB	2.93	0.47
13:M:164:LEU:HD12	13:M:164:LEU:N	2.29	0.47
15:O:121:THR:O	15:O:133:LYS:O	2.33	0.47
17:S:18:ARG:C	17:S:19:VAL:HG13	2.40	0.47
17:S:64:ARG:HA	17:S:79:PHE:CZ	2.50	0.47
19:U:52:ALA:HB1	19:U:120:ALA:HB2	1.96	0.47
20:V:100:CYS:HB3	33:i:42:ILE:HD11	1.96	0.47
21:W:17:THR:OG1	21:W:34:LYS:HA	2.15	0.47
21:W:82:LEU:HG	21:W:88:PHE:CE1	2.50	0.47
21:W:141:LEU:O	21:W:145:LEU:N	2.41	0.47
21:W:178:ILE:CG2	21:W:179:PRO:HD2	2.44	0.47
23:Y:7:LYS:HB3	23:Y:20:LEU:CB	2.45	0.47
24:Z:11:ARG:HD2	24:Z:22:PHE:HB3	1.96	0.47
25:a:4:TYR:CD1	25:a:89:VAL:HG21	2.49	0.47
27:c:107:LYS:HE3	27:c:107:LYS:CA	2.45	0.47
28:d:64:VAL:C	28:d:65:LYS:HG3	2.40	0.47
32:h:58:GLU:HA	32:h:61:LYS:CD	2.33	0.47
32:h:63:VAL:HG12	32:h:68:LEU:N	2.30	0.47
34:j:6:ILE:HB	34:j:49:ALA:HB1	1.97	0.47
39:o:17:PRO:CD	39:o:83:ILE:HB	2.44	0.47
41:q:3:ALA:HB1	41:q:41:ILE:CG1	2.44	0.47
41:q:5:PHE:O	41:q:11:GLN:C	2.56	0.47
42:r:27:LYS:O	42:r:70:LYS:HG3	2.15	0.47
42:r:97:LEU:HD23	42:r:98:LYS:N	2.30	0.47
43:s:8:LEU:O	48:x:28:ARG:NH2	2.46	0.47
44:t:23:LYS:C	44:t:35:VAL:HA	2.40	0.47
44:t:60:LYS:HD2	44:t:61:GLU:OE1	2.15	0.47
44:t:84:PHE:HD1	44:t:91:LYS:CD	2.28	0.47
45:u:8:VAL:HG23	45:u:66:ASP:OD2	2.15	0.47
47:w:70:LEU:HG	47:w:75:GLU:O	2.15	0.47
49:y:8:GLN:C	49:y:55:LYS:HZ2	2.21	0.47
49:y:50:VAL:O	49:y:54:VAL:N	2.45	0.47
7:G:22:ARG:HG2	9:I:4362:G:H5'	1.96	0.47
7:G:37:ILE:HG13	7:G:45:ALA:CB	2.37	0.47
7:G:65:ILE:C	7:G:69:LYS:HE2	2.40	0.47
9:I:319:A:HO2'	9:I:1434:G:C2'	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:508:A:N3	9:I:543:G:H5'	2.30	0.47
9:I:551:U:H4'	31:g:82:ARG:O	2.15	0.47
9:I:591:G:C6	9:I:647:A:C6	3.02	0.47
9:I:658:U:H3	9:I:745:A:H61	1.62	0.47
9:I:721:G:C6	9:I:723:G:C4	3.03	0.47
9:I:773:G:C2	9:I:805:C:C4	3.03	0.47
9:I:1136:C:O2	9:I:1137:G:N2	2.48	0.47
9:I:1320:U:H3'	9:I:1321:C:C6	2.48	0.47
9:I:1377:C:O2	9:I:1377:C:H2'	2.15	0.47
9:I:1498:C:N3	9:I:1502:G:C6	2.82	0.47
9:I:1560:G:O3'	48:x:43:LYS:HE2	2.14	0.47
9:I:1568:G:C4	9:I:1574:A:C8	3.03	0.47
9:I:1579:C:H2'	9:I:1580:G:O4'	2.15	0.47
9:I:1603:A:C2	9:I:1604:A:C1'	2.93	0.47
9:I:1618:A:OP2	9:I:1619:A:H2'	2.14	0.47
9:I:1631:A:C4'	9:I:1631:A:OP1	2.60	0.47
9:I:1637:U:H2'	9:I:1640:C:C4	2.50	0.47
9:I:1668:G:C2	9:I:1669:G:C5	3.03	0.47
9:I:1675:G:C6	9:I:1676:A:C6	3.03	0.47
9:I:1724:U:H2'	9:I:1725:C:H6	1.80	0.47
9:I:1795:G:C6	9:I:1844:A:C2	3.03	0.47
9:I:1808:G:N1	9:I:2001:A:C6	2.83	0.47
9:I:1821:U:C5'	13:M:130:LYS:HD3	2.45	0.47
9:I:1841:C:N3	9:I:1842:A:N7	2.63	0.47
9:I:1847:A:C5	9:I:1848:A:C6	3.03	0.47
9:I:2387:C:H6	9:I:2387:C:P	2.38	0.47
9:I:2405:A:C2	9:I:3771:G:O2'	2.65	0.47
9:I:2522:A:O2'	9:I:2523:A:O4'	2.30	0.47
9:I:2528:G:H2'	9:I:2529:U:C5'	2.44	0.47
9:I:2535:G:N1	9:I:2536:G:C5	2.83	0.47
9:I:2646:C:O2'	9:I:2647:C:H5'	2.15	0.47
9:I:2662:G:O2'	9:I:2663:A:H5'	2.15	0.47
9:I:2663:A:H2'	9:I:2664:C:H6	1.80	0.47
9:I:2972:G:N2	9:I:3008:G:H21	2.13	0.47
9:I:2981:U:N3	9:I:2997:A:C6	2.83	0.47
9:I:3003:A:O2'	9:I:3004:G:P	2.72	0.47
9:I:3028:U:H2'	9:I:3030:C:N4	2.27	0.47
9:I:3089:C:C4	9:I:3090:A:N7	2.83	0.47
9:I:3186:U:O2	9:I:3190:G:C2	2.68	0.47
9:I:3250:G:O2'	9:I:3251:A:P	2.71	0.47
9:I:3286:G:C2	9:I:3321:U:O2	2.65	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3333:G:C4	9:I:3421:A:C5	3.02	0.47
9:I:3340:G:C2'	9:I:3341:A:O5'	2.62	0.47
9:I:3436:C:H2'	9:I:3437:U:C5	2.50	0.47
9:I:3542:G:N2	9:I:3543:G:H1'	2.29	0.47
9:I:3625:U:H1'	9:I:3627:G:N3	2.30	0.47
9:I:3775:A:N6	9:I:3776:G:N7	2.63	0.47
9:I:3818:U:H5'	9:I:3831:G:H4'	1.97	0.47
9:I:3830:A:N6	46:v:33:THR:H	2.12	0.47
9:I:3897:C:C4	9:I:3909:G:N1	2.83	0.47
9:I:4037:G:C6	9:I:4038:G:C5	3.03	0.47
9:I:4058:A:H2'	9:I:4059:A:C5	2.49	0.47
9:I:4124:G:O2'	9:I:4125:G:H5'	2.15	0.47
9:I:4212:G:O3'	39:o:95:LYS:HB2	2.14	0.47
9:I:4242:A:H4'	15:O:3:VAL:CG2	2.42	0.47
9:I:4287:C:C2	9:I:4298:U:N3	2.83	0.47
9:I:4306:G:C4	9:I:4307:A:C8	3.03	0.47
10:J:42:C:O3'	14:N:94:ARG:NE	2.48	0.47
10:J:56:A:H4'	14:N:26:GLN:HB2	1.96	0.47
10:J:73:U:OP1	10:J:98:A:OP2	2.32	0.47
10:J:114:A:C2	10:J:115:G:N7	2.83	0.47
11:K:107:LYS:HE2	11:K:198:GLU:OE1	2.13	0.47
12:L:15:PHE:N	39:o:11:GLN:OE1	2.41	0.47
13:M:60:TRP:HD1	13:M:61:ARG:O	1.98	0.47
14:N:30:VAL:HG23	14:N:96:TRP:CZ3	2.49	0.47
14:N:35:LEU:HD12	14:N:35:LEU:N	2.30	0.47
15:O:42:VAL:HG13	15:O:42:VAL:O	2.14	0.47
17:S:4:GLU:C	17:S:5:GLN:HG3	2.40	0.47
20:V:34:ILE:O	20:V:112:TYR:CD1	2.68	0.47
24:Z:83:SER:CB	24:Z:127:VAL:HG12	2.45	0.47
25:a:89:VAL:O	25:a:90:MET:HE2	2.15	0.47
28:d:36:PHE:HD1	28:d:69:ILE:HD12	1.80	0.47
31:g:17:LYS:HD2	31:g:17:LYS:O	2.15	0.47
37:m:14:CYS:SG	37:m:27:CYS:HA	2.55	0.47
38:n:25:LEU:HD22	38:n:38:VAL:HG22	1.97	0.47
38:n:28:HIS:HA	38:n:96:PHE:HD2	1.80	0.47
39:o:64:SER:OG	39:o:68:GLY:HA2	2.14	0.47
40:p:74:SER:HB2	40:p:76:SER:HG	1.80	0.47
42:r:86:MET:SD	42:r:87:PRO:O	2.73	0.47
44:t:24:VAL:HG12	44:t:26:ASN:N	2.28	0.47
49:y:44:ARG:CZ	49:y:48:ASN:OD1	2.60	0.47
2:B:46:LYS:O	2:B:49:HIS:CE1	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:41:LYS:CD	9:I:733:G:H1'	2.41	0.47
9:I:31:A:N6	9:I:552:A:N6	2.63	0.47
9:I:44:G:H5''	9:I:306:C:O2'	2.15	0.47
9:I:162:C:O2	9:I:163:G:H1'	2.15	0.47
9:I:165:U:OP2	9:I:165:U:H6	1.98	0.47
9:I:254:G:C2	9:I:271:C:C2	3.03	0.47
9:I:298:G:H2'	9:I:299:A:C4	2.50	0.47
9:I:598:C:H5''	27:c:87:ARG:HA	1.97	0.47
9:I:729:G:H2'	9:I:730:G:O4'	2.14	0.47
9:I:1131:C:H3'	9:I:1132:G:H8	1.78	0.47
9:I:1133:G:H2'	9:I:1134:U:C1'	2.45	0.47
9:I:1307:U:C4'	32:h:90:HIS:HE1	2.23	0.47
9:I:1424:U:O2'	9:I:1425:G:H5'	2.15	0.47
9:I:1476:C:N3	9:I:1477:U:C4	2.83	0.47
9:I:1587:U:OP1	9:I:1588:G:H5''	2.15	0.47
9:I:1598:G:C5	9:I:1599:U:N3	2.82	0.47
9:I:1642:A:H8	9:I:1642:A:H3'	1.80	0.47
9:I:1733:A:C5	9:I:1734:U:C6	3.03	0.47
9:I:1792:U:C4	9:I:1793:U:C4	3.03	0.47
9:I:1829:G:C1'	44:t:15:GLY:HA2	2.45	0.47
9:I:2084:C:H5'	40:p:4:LYS:HZ2	1.80	0.47
9:I:2086:A:C2	9:I:2748:A:C2	3.03	0.47
9:I:2132:A:C2	9:I:2133:A:C4	3.03	0.47
9:I:2177:A:C2	9:I:2178:C:C6	3.02	0.47
9:I:2194:U:OP1	9:I:3063:A:H1'	2.15	0.47
9:I:2236:C:H2'	9:I:2237:C:C6	2.49	0.47
9:I:2254:U:H2'	9:I:2255:U:H6	1.79	0.47
9:I:2300:A:H2	9:I:2302:A:C8	2.32	0.47
9:I:2358:G:C4	9:I:3762:A:C2	3.02	0.47
9:I:2366:A:N7	9:I:2408:G:C5	2.83	0.47
9:I:2367:C:C4	9:I:2368:U:C4	3.02	0.47
9:I:2421:A:O2'	49:y:38:GLU:OE1	2.33	0.47
9:I:2427:A:N3	9:I:2427:A:C2'	2.78	0.47
9:I:2524:C:C2	9:I:2525:G:C8	3.03	0.47
9:I:2536:G:C6	9:I:2537:C:C2	3.02	0.47
9:I:2757:U:H6	9:I:2757:U:H3'	1.79	0.47
9:I:2918:G:C2'	9:I:2919:G:O5'	2.63	0.47
9:I:2965:G:C5	9:I:2966:C:C5	3.03	0.47
9:I:2994:G:C6	9:I:2995:G:C6	3.03	0.47
9:I:3095:G:C5	9:I:3096:U:C4	3.03	0.47
9:I:3339:G:C2'	9:I:3340:G:C5'	2.90	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3364:C:H2'	9:I:3365:A:C6	2.49	0.47
9:I:3372:G:OP2	9:I:3372:G:C8	2.68	0.47
9:I:3372:G:H2'	9:I:3373:C:C6	2.50	0.47
9:I:3416:G:C2	9:I:3417:U:C6	3.03	0.47
9:I:3797:G:O2'	14:N:120:SER:CB	2.62	0.47
9:I:3815:U:C4'	9:I:3816:A:OP2	2.63	0.47
9:I:3819:G:C2'	9:I:3820:C:H5''	2.45	0.47
9:I:3821:A:H8	9:I:3821:A:P	2.38	0.47
9:I:3841:C:H2'	9:I:3842:U:C5	2.50	0.47
9:I:3869:G:C6	9:I:3871:A:H5''	2.49	0.47
9:I:3994:U:O2'	9:I:3998:PSU:OP1	2.32	0.47
9:I:3998:PSU:H6	9:I:3998:PSU:O5'	1.97	0.47
9:I:4022:U:C5'	15:O:171:LYS:NZ	2.77	0.47
9:I:4032:C:C1'	37:m:1:MET:H2	2.28	0.47
9:I:4173:A:H2'	9:I:4174:U:C6	2.49	0.47
9:I:4174:U:H2'	9:I:4176:A:N7	2.29	0.47
9:I:4274:G:C3'	9:I:4275:A:C5'	2.90	0.47
9:I:4295:G:P	9:I:4295:G:H8	2.38	0.47
9:I:4296:G:H8	9:I:4296:G:O5'	1.97	0.47
9:I:4337:G:H2'	9:I:4338:G:N9	2.30	0.47
9:I:4342:G:H2'	39:o:93:LYS:C	2.40	0.47
9:I:4392:G:H2'	9:I:4393:G:H8	1.79	0.47
10:J:14:A:H3'	10:J:14:A:P	2.55	0.47
11:K:75:ALA:HA	11:K:94:LEU:O	2.15	0.47
11:K:107:LYS:CE	11:K:198:GLU:OE1	2.63	0.47
11:K:172:THR:OG1	11:K:182:LYS:HG2	2.15	0.47
12:L:15:PHE:CE2	39:o:54:LEU:HD21	2.50	0.47
12:L:39:ASP:HA	12:L:45:TYR:C	2.40	0.47
12:L:111:GLY:CA	12:L:201:LEU:CD2	2.93	0.47
13:M:159:LEU:CD2	13:M:162:ARG:HE	2.19	0.47
14:N:56:LEU:HB3	14:N:64:PRO:HG3	1.97	0.47
15:O:88:LEU:HD13	15:O:161:VAL:N	2.29	0.47
19:U:36:VAL:HG13	19:U:129:THR:HG23	1.96	0.47
19:U:42:THR:OG1	19:U:45:GLN:HB3	2.15	0.47
19:U:120:ALA:O	19:U:124:LEU:CG	2.60	0.47
20:V:24:MET:O	20:V:25:ALA:C	2.57	0.47
22:X:37:LYS:HB2	22:X:93:ILE:CG2	2.44	0.47
22:X:85:LYS:HE3	22:X:86:LEU:HG	1.97	0.47
24:Z:27:LEU:HD22	24:Z:125:ILE:CD1	2.43	0.47
24:Z:68:ASN:HB3	24:Z:71:THR:O	2.15	0.47
26:b:39:GLU:OE1	26:b:43:TYR:OH	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:b:52:ARG:NH2	26:b:121:ASN:OD1	2.46	0.47
28:d:18:ILE:HG13	28:d:83:ALA:HB1	1.97	0.47
30:f:73:MET:CE	30:f:75:LYS:HE2	2.45	0.47
31:g:50:LYS:HD2	31:g:50:LYS:N	2.30	0.47
36:l:28:LEU:C	36:l:32:LEU:HD21	2.40	0.47
37:m:23:ILE:CB	37:m:37:GLN:HB2	2.44	0.47
38:n:45:GLU:HG3	38:n:47:LEU:CD2	2.44	0.47
38:n:69:ALA:C	38:n:73:VAL:H	2.11	0.47
39:o:2:ASN:HA	39:o:5:LYS:CG	2.32	0.47
40:p:59:LEU:CD2	40:p:63:ARG:HD3	2.45	0.47
43:s:79:ASP:O	43:s:80:TRP:CE3	2.68	0.47
45:u:29:ILE:HD11	45:u:37:PRO:HB2	1.96	0.47
48:x:52:VAL:CG1	48:x:56:LEU:CD1	2.93	0.47
1:A:57:SER:CB	9:I:978:C:H42	2.26	0.46
4:D:42:HIS:NE2	9:I:275:G:O5'	2.47	0.46
5:E:7:ILE:HG12	25:a:45:ARG:HH12	1.80	0.46
6:F:35:ARG:NH1	9:I:1319:C:N4	2.63	0.46
8:H:27:VAL:CG2	30:f:76:GLY:H	2.28	0.46
8:H:39:LYS:HB3	8:H:41:THR:HG22	1.97	0.46
9:I:20:G:H5'	9:I:572:A:N6	2.23	0.46
9:I:145:G:H2'	9:I:146:G:H5'	1.97	0.46
9:I:258:G:H2'	9:I:259:G:C8	2.50	0.46
9:I:502:C:OP1	31:g:115:LYS:HD2	2.15	0.46
9:I:517:C:H5	9:I:529:G:O5'	1.98	0.46
9:I:692:G:C2'	9:I:693:A:H5'	2.45	0.46
9:I:720:G:H4'	9:I:721:G:O5'	2.15	0.46
9:I:961:C:O5'	9:I:961:C:H6	1.98	0.46
9:I:1117:U:H5'	28:d:103:ARG:HB3	1.97	0.46
9:I:1286:A:H2'	9:I:1287:A:H8	1.80	0.46
9:I:1308:G:C4'	32:h:76:ILE:HD11	2.45	0.46
9:I:1337:G:H2'	9:I:1338:A:O4'	2.15	0.46
9:I:1534:U:HO2'	9:I:1535:G:P	2.38	0.46
9:I:1549:A:C6	9:I:1618:A:C5	3.03	0.46
9:I:1703:A:H5''	9:I:1704:A:H5''	1.96	0.46
9:I:1822:A:C2	9:I:1840:A:C2	3.03	0.46
9:I:2036:G:C6	9:I:2037:G:H1'	2.50	0.46
9:I:2071:U:H3	9:I:3524:6MZ:C2	2.28	0.46
9:I:2073:U:O2'	9:I:2074:A:H2'	2.16	0.46
9:I:2111:C:N3	9:I:2112:G:H1'	2.30	0.46
9:I:2251:A:C6	9:I:2289:A:C6	3.03	0.46
9:I:2290:U:H5''	9:I:2291:C:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2370:U:C2	9:I:2371:U:C4	3.03	0.46
9:I:2370:U:N3	9:I:2371:U:C4	2.83	0.46
9:I:2446:G:C2'	9:I:2447:G:O5'	2.62	0.46
9:I:2450:G:H2'	9:I:2450:G:N3	2.29	0.46
9:I:2565:G:H1'	9:I:2583:A:H2'	1.98	0.46
9:I:2775:G:C4	9:I:2776:U:C5	3.03	0.46
9:I:2816:A:C2'	9:I:2817:C:O5'	2.63	0.46
9:I:2834:U:H5''	43:s:19:LYS:HZ3	1.80	0.46
9:I:2972:G:N1	9:I:2973:G:C6	2.84	0.46
9:I:2977:G:C2	9:I:3001:C:C2	3.03	0.46
9:I:2989:A:H2'	9:I:2990:A:O4'	2.13	0.46
9:I:2993:C:H2'	9:I:2994:G:N9	2.30	0.46
9:I:3101:C:H42	9:I:3115:U:C2'	2.26	0.46
9:I:3190:G:C6	9:I:3191:G:C2	3.03	0.46
9:I:3285:A:H4'	11:K:204:LEU:HB2	1.98	0.46
9:I:3315:A:C2'	9:I:3316:C:C6	2.88	0.46
9:I:3318:G:O2'	9:I:3319:U:H5'	2.15	0.46
9:I:3350:U:H2'	9:I:3351:G:H5'	1.97	0.46
9:I:3373:C:C2'	9:I:3374:U:O4'	2.63	0.46
9:I:3408:C:H2'	9:I:3409:3TD:O4'	2.14	0.46
9:I:3429:G:O2'	9:I:3430:A:H5'	2.15	0.46
9:I:3553:A:H2'	9:I:3997:2MA:CM2	2.45	0.46
9:I:3673:C:O2	9:I:3674:U:C6	2.68	0.46
9:I:3776:G:O2'	9:I:3917:U:O4	2.27	0.46
9:I:3812:G:H3'	9:I:3812:G:H8	1.80	0.46
9:I:3982:G:H2'	9:I:3983:U:H6	1.80	0.46
9:I:4142:G:C6	9:I:4166:U:N3	2.71	0.46
9:I:4281:C:O2	9:I:4281:C:C2'	2.61	0.46
12:L:116:LYS:O	12:L:117:GLY:C	2.51	0.46
14:N:148:VAL:O	14:N:149:ARG:C	2.58	0.46
15:O:41:GLU:HG2	15:O:54:ARG:CZ	2.45	0.46
19:U:96:ILE:HA	19:U:100:LYS:CE	2.44	0.46
21:W:69:THR:HG1	21:W:91:HIS:C	2.21	0.46
21:W:158:LEU:HD22	21:W:173:ALA:CB	2.42	0.46
23:Y:2:ARG:HD2	23:Y:114:ARG:HE	1.79	0.46
23:Y:71:PHE:HD1	23:Y:93:LEU:HD21	1.78	0.46
23:Y:169:TRP:HA	23:Y:182:LYS:HE3	1.96	0.46
27:c:86:LYS:HZ2	27:c:91:LEU:HG	1.78	0.46
32:h:79:LEU:HD22	32:h:84:CYS:SG	2.55	0.46
38:n:27:VAL:CG2	38:n:105:LEU:HD13	2.45	0.46
39:o:17:PRO:HG3	39:o:83:ILE:CG2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:p:29:ARG:NE	40:p:29:ARG:HA	2.29	0.46
40:p:60:TRP:HB2	40:p:91:ARG:HB3	1.97	0.46
41:q:25:LEU:H	41:q:94:THR:CB	2.28	0.46
43:s:48:GLN:HB2	43:s:49:LYS:HZ2	1.79	0.46
46:v:56:LYS:HB2	46:v:75:GLU:CD	2.39	0.46
2:B:86:LEU:O	2:B:87:ARG:CB	2.62	0.46
3:C:43:ALA:O	3:C:44:SER:OG	2.29	0.46
7:G:69:LYS:O	7:G:73:HIS:ND1	2.48	0.46
9:I:108:A:C5	9:I:326:A:C2	3.03	0.46
9:I:249:A:N1	9:I:274:G:C6	2.83	0.46
9:I:354:C:O2'	9:I:387:G:H1'	2.16	0.46
9:I:354:C:H1'	9:I:387:G:O2'	2.15	0.46
9:I:564:U:O5'	9:I:565:G:H2'	2.15	0.46
9:I:609:U:H2'	9:I:609:U:O2	2.14	0.46
9:I:653:G:N7	9:I:751:G:N2	2.64	0.46
9:I:663:G:H1	9:I:740:G:N2	2.14	0.46
9:I:711:A:H2'	9:I:712:G:H8	1.75	0.46
9:I:720:G:O4'	9:I:721:G:C2	2.69	0.46
9:I:797:U:H2'	9:I:798:G:O5'	2.15	0.46
9:I:827:U:C4	9:I:858:G:C8	3.04	0.46
9:I:1000:C:O5'	9:I:1000:C:H6	1.97	0.46
9:I:1149:A:N6	9:I:1150:A:N6	2.63	0.46
9:I:1469:A:H3'	9:I:1470:C:C5	2.50	0.46
9:I:1701:C:C4'	9:I:1886:G:N2	2.78	0.46
9:I:1723:A:N1	9:I:1922:A:C6	2.83	0.46
9:I:1750:G:C8	9:I:1750:G:C3'	2.98	0.46
9:I:1771:G:C4'	9:I:1772:A:OP1	2.63	0.46
9:I:1785:G:C6	9:I:1856:G:N7	2.82	0.46
9:I:1798:G:OP2	44:t:84:PHE:N	2.41	0.46
9:I:1799:A:C2	9:I:1800:A:C5	3.02	0.46
9:I:1820:A:N7	13:M:132:LYS:HE2	2.30	0.46
9:I:1829:G:O2'	44:t:15:GLY:N	2.48	0.46
9:I:1829:G:C2'	44:t:15:GLY:CA	2.86	0.46
9:I:1871:A:O2'	9:I:1872:G:P	2.72	0.46
9:I:1872:G:N1	9:I:1900:G:H3'	2.30	0.46
9:I:1907:G:O2'	9:I:1908:G:O4'	2.33	0.46
9:I:1917:C:H3'	9:I:1918:C:H6	1.80	0.46
9:I:2033:G:O2'	9:I:2034:U:H5'	2.15	0.46
9:I:2207:G:H2'	9:I:2208:G:O4'	2.16	0.46
9:I:2296:C:C2'	9:I:2297:G:O5'	2.63	0.46
9:I:2330:G:H4'	9:I:2331:G:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2413:U:O2	9:I:2413:U:H2'	2.13	0.46
9:I:2516:G:O2'	9:I:2518:G:O6	2.31	0.46
9:I:2536:G:C5	9:I:2537:C:C4	3.04	0.46
9:I:2619:G:C8	9:I:2620:A:H2'	2.50	0.46
9:I:2758:A:N7	9:I:2759:A:C5	2.83	0.46
9:I:2772:C:H4'	20:V:24:MET:HE1	1.97	0.46
9:I:2922:C:O2'	9:I:3063:A:OP2	2.28	0.46
9:I:2959:G:H8	9:I:2959:G:O5'	1.97	0.46
9:I:3093:U:O2	9:I:3094:C:C5	2.68	0.46
9:I:3158:A:H2'	9:I:3159:A:C4'	2.45	0.46
9:I:3236:U:C2'	9:I:3237:G:C8	2.97	0.46
9:I:3244:G:H2'	9:I:3245:U:O5'	2.15	0.46
9:I:3271:U:C2'	9:I:3272:U:O5'	2.64	0.46
9:I:3312:U:H3'	11:K:155:ARG:N	2.29	0.46
9:I:3400:G:C6	9:I:3423:G:C2	3.04	0.46
9:I:3409:3TD:C2	9:I:3410:A:N6	2.78	0.46
9:I:3431:A:C5	9:I:3433:5MU:C4	3.03	0.46
9:I:3471:A:C2	9:I:3472:A:H1'	2.49	0.46
9:I:3679:U:H6	9:I:3679:U:O5'	1.99	0.46
9:I:3691:U:H2'	9:I:3718:G:N1	2.30	0.46
9:I:3822:A:C5	9:I:3823:U:C4	3.03	0.46
9:I:3861:G:H8	9:I:3861:G:O5'	1.97	0.46
9:I:3870:A:N1	38:n:116:PHE:CE1	2.83	0.46
9:I:3887:U:H3'	36:l:29:ARG:NE	2.30	0.46
9:I:3961:C:N4	9:I:3962:A:N6	2.63	0.46
9:I:4022:U:C2	9:I:4030:G:N1	2.83	0.46
9:I:4022:U:C5	9:I:4024:A:C5	3.04	0.46
9:I:4202:G:C4	9:I:4203:G:C8	3.02	0.46
9:I:4215:A:C5	9:I:4216:G:C5	3.03	0.46
9:I:4265:C:O2'	9:I:4266:C:H5'	2.14	0.46
10:J:82:G:O6	10:J:93:A:N6	2.48	0.46
10:J:104:G:C2'	10:J:105:G:O4'	2.56	0.46
12:L:46:ARG:NH2	12:L:89:GLU:CG	2.76	0.46
12:L:149:ASN:C	12:L:151:THR:N	2.73	0.46
13:M:2:GLU:HB3	13:M:11:ALA:HB3	1.95	0.46
14:N:124:ARG:HD3	14:N:160:LYS:HA	1.94	0.46
15:O:3:VAL:HG12	15:O:65:GLY:HA2	1.97	0.46
15:O:32:LEU:HD22	15:O:74:MET:SD	2.56	0.46
16:R:16:TYR:CD2	16:R:53:TYR:O	2.68	0.46
16:R:35:ARG:C	16:R:38:GLY:H	2.22	0.46
18:T:3:LEU:HD12	18:T:3:LEU:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:50:ARG:NH2	19:U:51:ARG:HB2	2.30	0.46
19:U:111:GLU:HA	19:U:114:ARG:HE	1.81	0.46
20:V:46:ARG:O	20:V:50:PRO:HD2	2.15	0.46
21:W:67:VAL:HG12	21:W:166:GLU:CG	2.40	0.46
21:W:158:LEU:CD1	21:W:178:ILE:HG21	2.46	0.46
22:X:147:GLY:HA3	22:X:202:PHE:HB3	1.97	0.46
24:Z:150:LYS:HE2	27:c:63:LYS:NZ	2.30	0.46
26:b:70:PRO:O	26:b:95:ARG:NE	2.49	0.46
30:f:14:SER:OG	30:f:17:ASN:N	2.48	0.46
31:g:106:VAL:HG12	31:g:109:ARG:HG2	1.98	0.46
36:l:51:LYS:HG3	36:l:54:LEU:HD12	1.97	0.46
38:n:67:LYS:HA	38:n:70:ALA:CB	2.45	0.46
39:o:29:VAL:HG11	39:o:71:ARG:NH2	2.30	0.46
39:o:54:LEU:HD12	39:o:76:HIS:HB2	1.88	0.46
42:r:11:ARG:NH1	42:r:98:LYS:HG2	2.30	0.46
42:r:41:LYS:HB2	42:r:44:ALA:N	2.30	0.46
43:s:18:GLU:O	43:s:22:THR:HG23	2.16	0.46
49:y:18:LYS:HD2	49:y:18:LYS:C	2.40	0.46
49:y:47:ILE:C	49:y:51:SER:HB3	2.40	0.46
1:A:85:GLU:OE2	9:I:1057:G:N2	2.48	0.46
2:B:45:HIS:C	2:B:47:LYS:N	2.71	0.46
4:D:57:GLU:OE1	4:D:74:ARG:NH1	2.48	0.46
7:G:52:MET:C	7:G:55:ILE:HG22	2.40	0.46
8:H:51:ALA:HA	8:H:54:ARG:NH1	2.29	0.46
9:I:322:U:H2'	9:I:323:G:H8	1.80	0.46
9:I:345:G:H2'	9:I:346:G:C4'	2.45	0.46
9:I:372:A:H1'	9:I:480:G:N3	2.30	0.46
9:I:382:A:C2	9:I:383:G:H1'	2.51	0.46
9:I:416:G:H2'	9:I:417:C:O4'	2.15	0.46
9:I:477:A:H8	9:I:477:A:OP2	1.97	0.46
9:I:488:C:H2'	9:I:489:C:H6	1.77	0.46
9:I:503:C:H1'	9:I:509:A:C4	2.49	0.46
9:I:641:A:C3'	9:I:642:C:C6	2.97	0.46
9:I:660:G:C2'	9:I:661:U:H5'	2.45	0.46
9:I:828:G:C4	9:I:829:G:C8	3.04	0.46
9:I:852:C:H2'	9:I:853:U:O4'	2.15	0.46
9:I:874:U:C2'	27:c:14:ARG:HH11	2.24	0.46
9:I:943:G:O6	9:I:1336:G:H8	1.98	0.46
9:I:978:C:OP2	9:I:979:C:C5	2.68	0.46
9:I:1077:U:H5''	9:I:1078:G:OP1	2.15	0.46
9:I:1102:C:C4'	21:W:94:LEU:HD13	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1168:A:H2'	9:I:1169:A:O4'	2.15	0.46
9:I:1202:C:H2'	9:I:1202:C:O2	2.13	0.46
9:I:1432:A:H2'	9:I:1433:A:C1'	2.45	0.46
9:I:1581:G:C2'	9:I:1582:U:O4'	2.61	0.46
9:I:1621:G:N2	9:I:1631:A:H1'	2.31	0.46
9:I:1637:U:N3	9:I:1643:C:N4	2.51	0.46
9:I:1652:A:H2'	9:I:1653:U:C6	2.50	0.46
9:I:1658:U:N3	9:I:1669:G:C6	2.83	0.46
9:I:1720:G:C4	9:I:1927:U:C4	3.04	0.46
9:I:1810:A:N1	9:I:1830:A:C5	2.83	0.46
9:I:1833:G:H3'	9:I:1833:G:P	2.55	0.46
9:I:1919:U:H6	9:I:1919:U:OP2	1.98	0.46
9:I:1989:G:C6	9:I:1991:G:C2	3.03	0.46
9:I:2056:A:C5	9:I:2057:C:C5	3.04	0.46
9:I:2065:C:C2'	9:I:2066:U:O5'	2.62	0.46
9:I:2140:C:C2	9:I:2141:U:C5	3.03	0.46
9:I:2206:A:N6	9:I:2225:G:H1'	2.30	0.46
9:I:2230:A:C2	9:I:2231:C:C5	3.04	0.46
9:I:2244:U:C4	9:I:2245:1MG:HM12	2.47	0.46
9:I:2317:C:C4	9:I:2318:G:C5	3.04	0.46
9:I:2331:G:H2'	9:I:2332:U:O5'	2.12	0.46
9:I:2369:G:C6	9:I:2370:U:N3	2.83	0.46
9:I:2369:G:C5	9:I:2370:U:C2	3.04	0.46
9:I:2378:A:N1	9:I:2394:A:H1'	2.30	0.46
9:I:2405:A:C2'	19:U:9:PHE:CZ	2.98	0.46
9:I:2503:A:C2'	9:I:2504:A:O4'	2.63	0.46
9:I:2515:A:H5'	9:I:2516:G:OP2	2.14	0.46
9:I:2523:A:H2'	9:I:2524:C:C6	2.50	0.46
9:I:2661:C:H2'	9:I:2662:G:C8	2.51	0.46
9:I:2695:U:N3	9:I:2696:G:N7	2.64	0.46
9:I:2837:G:N1	9:I:2897:A:N6	2.63	0.46
9:I:2857:C:C3'	47:w:49:ARG:HH12	2.29	0.46
9:I:2930:G:N1	9:I:3050:C:N3	2.63	0.46
9:I:2991:U:C2	9:I:3072:U:O5'	2.68	0.46
9:I:3016:A:OP1	9:I:3016:A:C8	2.68	0.46
9:I:3038:A:O2'	9:I:3039:A:H5'	2.15	0.46
9:I:3069:C:O2'	9:I:3070:U:H5'	2.15	0.46
9:I:3353:U:O2'	9:I:3354:G:O5'	2.32	0.46
9:I:3409:3TD:C6	9:I:3409:3TD:OP2	2.62	0.46
9:I:3743:U:O2'	9:I:3746:G:OP2	2.32	0.46
9:I:3816:A:N6	9:I:3817:G:C2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3827:A:N3	9:I:3829:A:C6	2.84	0.46
9:I:3876:G:O5'	9:I:3876:G:C8	2.67	0.46
9:I:4189:U:H2'	9:I:4190:U:C6	2.51	0.46
9:I:4251:A:H61	15:O:66:THR:CG2	2.29	0.46
9:I:4341:U:O4	9:I:4342:G:C2	2.69	0.46
9:I:4345:A:O2'	9:I:4346:G:C5'	2.64	0.46
9:I:4356:C:H2'	9:I:4357:G:O4'	2.15	0.46
9:I:4368:U:N3	9:I:4369:A:N7	2.63	0.46
10:J:7:C:C2'	38:n:43:GLY:O	2.63	0.46
10:J:58:A:C2	10:J:59:C:C2	3.03	0.46
10:J:101:G:C5	10:J:102:U:C5	3.04	0.46
11:K:3:VAL:O	11:K:3:VAL:HG23	2.15	0.46
11:K:201:LEU:N	11:K:201:LEU:CD1	2.77	0.46
12:L:2:ILE:HB	12:L:82:PHE:CD1	2.50	0.46
12:L:4:LEU:N	12:L:203:VAL:O	2.49	0.46
12:L:6:GLY:CA	12:L:29:VAL:HG22	2.46	0.46
12:L:101:PHE:HE1	12:L:205:PRO:CG	2.27	0.46
12:L:104:VAL:HG22	12:L:106:LYS:H	1.80	0.46
12:L:202:ILE:HG21	12:L:204:LYS:HE2	1.97	0.46
13:M:1:MET:CE	13:M:16:GLU:HA	2.40	0.46
13:M:111:GLU:HG2	13:M:114:ARG:HH21	1.78	0.46
14:N:30:VAL:HG12	14:N:168:LEU:CG	2.46	0.46
14:N:49:LEU:CG	14:N:66:ILE:HD12	2.45	0.46
14:N:99:PHE:HE2	14:N:172:PHE:CD1	2.34	0.46
15:O:147:LEU:O	15:O:161:VAL:HG11	2.15	0.46
16:R:45:THR:CG2	16:R:48:VAL:HB	2.45	0.46
17:S:25:LEU:HD12	17:S:38:ILE:CB	2.44	0.46
17:S:71:ARG:HB2	39:o:71:ARG:HH22	1.79	0.46
18:T:55:MET:HE1	18:T:59:ARG:NH1	2.31	0.46
18:T:76:GLU:HB2	18:T:111:ILE:HD13	1.91	0.46
20:V:67:PHE:HD1	20:V:72:ASP:N	2.13	0.46
22:X:35:ASP:HA	22:X:38:VAL:CG2	2.45	0.46
22:X:152:VAL:O	22:X:156:LEU:HD11	2.15	0.46
23:Y:107:GLY:CA	23:Y:157:ALA:HB1	2.45	0.46
24:Z:5:LYS:HD3	24:Z:104:ALA:CB	2.45	0.46
24:Z:82:GLY:C	24:Z:121:SER:H	2.21	0.46
26:b:15:PRO:CB	28:d:40:THR:HG23	2.43	0.46
26:b:69:ARG:HG3	26:b:95:ARG:CD	2.45	0.46
26:b:69:ARG:HE	26:b:96:ASN:N	2.13	0.46
26:b:86:VAL:HG23	26:b:86:VAL:O	2.15	0.46
26:b:145:GLU:HA	26:b:148:LYS:HZ3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:e:12:ARG:O	29:e:12:ARG:HG2	2.14	0.46
30:f:16:ASN:HB3	30:f:45:LYS:CE	2.45	0.46
39:o:24:THR:CA	39:o:44:GLY:O	2.64	0.46
41:q:31:GLU:O	41:q:62:GLU:HA	2.15	0.46
41:q:74:ILE:CD1	41:q:88:GLY:HA2	2.46	0.46
44:t:10:VAL:CA	44:t:71:ILE:HA	2.41	0.46
46:v:10:ARG:HG3	46:v:29:ARG:HH12	1.80	0.46
47:w:54:GLY:O	47:w:58:ILE:HG13	2.14	0.46
48:x:52:VAL:HG13	48:x:56:LEU:HD11	1.97	0.46
1:A:2:LYS:HB2	9:I:1214:G:O3'	2.15	0.46
2:B:61:GLN:O	2:B:65:LEU:HD23	2.16	0.46
3:C:9:HIS:HA	9:I:308:A:OP1	2.15	0.46
3:C:72:ALA:C	3:C:76:LYS:HZ1	2.23	0.46
4:D:5:LEU:CD2	4:D:22:ILE:HG21	2.34	0.46
4:D:12:ASP:O	9:I:273:A:OP1	2.33	0.46
4:D:66:LYS:NZ	9:I:251:U:C6	2.84	0.46
5:E:43:ALA:HB1	5:E:48:LEU:CD1	2.45	0.46
6:F:43:ILE:HD13	6:F:62:ASP:HB2	1.97	0.46
8:H:15:LEU:CD1	30:f:86:ARG:HB2	2.39	0.46
9:I:19:U:H1'	9:I:571:A:C2	2.50	0.46
9:I:143:G:N2	9:I:178:A:C8	2.84	0.46
9:I:179:U:HO2'	9:I:180:A:C5'	2.26	0.46
9:I:214:C:H2'	9:I:215:U:C6	2.50	0.46
9:I:428:U:C4'	9:I:429:A:H5''	2.46	0.46
9:I:641:A:C2'	9:I:642:C:C6	2.98	0.46
9:I:683:U:H1'	30:f:28:ASN:HB3	1.96	0.46
9:I:793:A:O2'	9:I:794:C:H5'	2.15	0.46
9:I:827:U:C2'	21:W:22:PRO:HB3	2.45	0.46
9:I:874:U:C2'	27:c:11:THR:HG23	2.45	0.46
9:I:924:G:H5''	9:I:925:G:OP1	2.14	0.46
9:I:1497:C:P	9:I:1500:U:O2'	2.71	0.46
9:I:1498:C:O2	9:I:1498:C:H2'	2.15	0.46
9:I:1564:A:C2'	9:I:1565:U:H5'	2.46	0.46
9:I:1640:C:O2	9:I:1640:C:O4'	2.32	0.46
9:I:1793:U:C5'	9:I:1794:A:OP2	2.63	0.46
9:I:1926:C:O5'	9:I:1926:C:C6	2.69	0.46
9:I:2129:G:H2'	9:I:2130:G:H8	1.80	0.46
9:I:2137:A:OP2	18:T:111:ILE:HG23	2.15	0.46
9:I:2215:A:H2'	9:I:2215:A:N3	2.30	0.46
9:I:2300:A:C2	9:I:2302:A:H8	2.30	0.46
9:I:2515:A:O2'	9:I:2517:U:C5'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2780:A:N1	9:I:2823:U:C2	2.83	0.46
9:I:2807:U:C1'	9:I:3104:A:H2	2.29	0.46
9:I:2926:G:O2'	9:I:2927:A:O4'	2.32	0.46
9:I:2965:G:C6	9:I:3014:U:O2	2.69	0.46
9:I:3080:A:C5	9:I:3081:G:C5	3.04	0.46
9:I:3092:A:H3'	9:I:3093:U:C6	2.51	0.46
9:I:3247:G:C4	9:I:3249:A:C8	3.02	0.46
9:I:3285:A:C4'	11:K:204:LEU:CB	2.93	0.46
9:I:3294:C:O3'	9:I:3295:A:H3'	2.15	0.46
9:I:3348:A:H62	9:I:3382:G:C1'	2.28	0.46
9:I:3426:A:H2'	9:I:3427:G:C5'	2.46	0.46
9:I:3595:A:C8	9:I:3596:G:N7	2.83	0.46
9:I:3733:G:C6	9:I:3734:U:C4	3.04	0.46
9:I:3821:A:O3'	9:I:3822:A:O4'	2.34	0.46
9:I:3839:G:O4'	9:I:3876:G:H5'	2.16	0.46
9:I:3958:G:C2'	9:I:3959:C:O4'	2.63	0.46
9:I:4058:A:C4'	9:I:4059:A:OP1	2.63	0.46
9:I:4124:G:H2'	9:I:4125:G:H8	1.81	0.46
9:I:4157:G:C2'	9:I:4158:G:C8	2.95	0.46
9:I:4168:G:O2'	9:I:4169:A:C5'	2.62	0.46
9:I:4232:A:C2	9:I:4260:A:N1	2.83	0.46
9:I:4240:U:C1'	15:O:138:GLN:CG	2.93	0.46
9:I:4241:G:O6	9:I:4248:U:H2'	2.16	0.46
9:I:4428:C:O2	9:I:4429:G:C8	2.68	0.46
10:J:17:G:O6	10:J:64:U:C4	2.69	0.46
10:J:99:G:C5	10:J:100:A:C5	3.03	0.46
12:L:4:LEU:N	12:L:101:PHE:HZ	2.12	0.46
12:L:50:VAL:CG2	12:L:80:TRP:CB	2.80	0.46
12:L:105:LYS:HA	12:L:177:VAL:CG2	2.45	0.46
14:N:35:LEU:C	14:N:87:LYS:HB2	2.40	0.46
14:N:70:ARG:N	14:N:81:GLY:H	2.13	0.46
16:R:109:LEU:HA	16:R:109:LEU:HD13	1.70	0.46
17:S:13:ASN:CG	17:S:98:ARG:HB2	2.40	0.46
17:S:38:ILE:HD13	17:S:60:ALA:O	2.16	0.46
17:S:64:ARG:HD3	17:S:102:PRO:CD	2.46	0.46
17:S:76:VAL:O	17:S:76:VAL:HG13	2.15	0.46
17:S:78:ARG:H	39:o:70:GLU:N	2.13	0.46
17:S:93:GLN:HB2	17:S:114:LYS:HD3	1.97	0.46
19:U:74:THR:C	19:U:75:GLU:HG2	2.40	0.46
21:W:32:ARG:HH11	21:W:37:ILE:HG13	1.77	0.46
22:X:64:ARG:O	22:X:65:VAL:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:107:LYS:CE	22:X:110:LEU:HD12	2.46	0.46
22:X:150:VAL:HG22	22:X:167:TYR:HB3	1.97	0.46
23:Y:146:GLU:HA	23:Y:149:LYS:HG3	1.96	0.46
26:b:9:ARG:O	26:b:11:ILE:HD12	2.16	0.46
26:b:110:ARG:O	26:b:118:ARG:NH2	2.48	0.46
27:c:91:LEU:HD13	27:c:116:ARG:CG	2.46	0.46
29:e:6:LEU:CD1	29:e:68:ARG:HB2	2.44	0.46
30:f:95:ILE:HG23	30:f:95:ILE:O	2.15	0.46
34:j:6:ILE:O	34:j:6:ILE:HG13	2.15	0.46
41:q:3:ALA:CB	41:q:41:ILE:CG1	2.92	0.46
41:q:12:HIS:CE1	41:q:13:ARG:O	2.68	0.46
41:q:29:THR:O	41:q:63:VAL:HG12	2.15	0.46
42:r:32:ALA:O	42:r:36:LEU:N	2.41	0.46
44:t:4:ILE:CG2	44:t:8:ASP:HB2	2.45	0.46
44:t:40:LEU:HD23	44:t:60:LYS:HA	1.98	0.46
44:t:42:LYS:CG	44:t:59:GLU:HG3	2.39	0.46
46:v:21:VAL:CG2	46:v:51:ALA:HB2	2.46	0.46
49:y:33:HIS:CE1	49:y:35:VAL:HG23	2.50	0.46
49:y:43:ILE:CD1	49:y:46:MET:SD	3.03	0.46
1:A:3:GLN:N	9:I:1214:G:O2'	2.45	0.46
2:B:88:ARG:CZ	9:I:2214:U:C5	2.88	0.46
3:C:6:LEU:HD13	9:I:376:G:OP1	2.15	0.46
3:C:8:ARG:NH2	9:I:389:U:O3'	2.43	0.46
4:D:9:VAL:HG11	4:D:12:ASP:HB2	1.96	0.46
6:F:53:ARG:HD2	6:F:54:GLN:HB2	1.98	0.46
7:G:52:MET:HG3	7:G:56:VAL:CG2	2.46	0.46
8:H:27:VAL:HB	30:f:76:GLY:H	1.75	0.46
9:I:112:G:H2'	9:I:113:U:O4'	2.16	0.46
9:I:245:A:O3'	9:I:246:G:O4'	2.34	0.46
9:I:251:U:H3'	9:I:252:A:N7	2.30	0.46
9:I:291:G:C2	9:I:308:A:N3	2.83	0.46
9:I:503:C:O2	9:I:509:A:O2'	2.33	0.46
9:I:558:A:H4'	9:I:559:A:H3'	1.97	0.46
9:I:608:A:H2'	9:I:609:U:C6	2.51	0.46
9:I:641:A:H1'	27:c:108:GLY:HA2	1.97	0.46
9:I:644:G:C4	9:I:645:G:C8	3.04	0.46
9:I:664:A:H2'	9:I:724:G:H22	1.81	0.46
9:I:781:A:H4'	9:I:4418:G:O2'	2.15	0.46
9:I:840:C:H2'	9:I:842:U:H4'	1.98	0.46
9:I:858:G:H2'	9:I:859:A:O4'	2.16	0.46
9:I:928:G:O2'	9:I:929:C:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1581:G:H2'	9:I:1582:U:C6	2.50	0.46
9:I:1682:A:N3	9:I:1683:C:C6	2.84	0.46
9:I:1697:A:C2	9:I:1698:C:C1'	2.99	0.46
9:I:1748:G:C8	9:I:1750:G:N2	2.83	0.46
9:I:1811:A:C8	9:I:1832:A:C6	3.03	0.46
9:I:1879:G:N2	9:I:1896:G:C5	2.84	0.46
9:I:1905:U:H5'	9:I:1906:G:O4'	2.14	0.46
9:I:1907:G:H2'	9:I:1908:G:N9	2.26	0.46
9:I:2034:U:O2'	40:p:48:ASP:CG	2.59	0.46
9:I:2037:G:N1	9:I:2055:G:N3	2.63	0.46
9:I:2040:C:C2	9:I:2041:A:C8	3.04	0.46
9:I:2041:A:C5	9:I:2042:C:C4	3.04	0.46
9:I:2054:U:C2'	9:I:2055:G:C5'	2.93	0.46
9:I:2079:G:O4'	9:I:3511:U:N3	2.49	0.46
9:I:2128:G:C6	9:I:2136:G:C4	3.03	0.46
9:I:2138:G:C6	9:I:2151:G:C5	3.04	0.46
9:I:2211:G:C4	9:I:2212:G:C8	3.03	0.46
9:I:2309:G:H2'	9:I:2310:U:C5	2.48	0.46
9:I:2343:G:C2'	9:I:2344:A:H5'	2.46	0.46
9:I:2374:G:H2'	9:I:2374:G:N3	2.30	0.46
9:I:2456:G:C2	9:I:2457:U:C6	3.03	0.46
9:I:2493:U:P	40:p:83:LYS:NZ	2.89	0.46
9:I:2528:G:C2'	9:I:2529:U:O5'	2.62	0.46
9:I:2536:G:H2'	9:I:2537:C:H5'	1.97	0.46
9:I:2564:A:H3'	9:I:2565:G:C5'	2.45	0.46
9:I:2964:A:N3	9:I:2965:G:H1'	2.31	0.46
9:I:2982:C:C6	9:I:2982:C:C3'	2.99	0.46
9:I:3061:G:C5	11:K:82:TYR:HB3	2.50	0.46
9:I:3065:A:H2'	9:I:3066:A:C8	2.50	0.46
9:I:3086:C:O5'	9:I:3086:C:H6	1.99	0.46
9:I:3180:C:C4	9:I:3197:G:C6	3.04	0.46
9:I:3315:A:O2'	9:I:3316:C:C5'	2.63	0.46
9:I:3351:G:N3	9:I:3352:A:N7	2.64	0.46
9:I:3372:G:O2'	9:I:3373:C:C5'	2.64	0.46
9:I:3417:U:C2'	9:I:3418:C:C6	2.87	0.46
9:I:3430:A:N7	9:I:3457:U:C4	2.83	0.46
9:I:3471:A:C6	9:I:3472:A:C5	3.03	0.46
9:I:3527:A:C6	9:I:3530:C:C5	3.04	0.46
9:I:3574:A:H2'	9:I:3575:U:C6	2.50	0.46
9:I:3614:G:C6	9:I:3673:C:C5	3.04	0.46
9:I:3657:A:H5''	9:I:3664:A:O2'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3685:A:O2'	9:I:3686:U:H5'	2.15	0.46
9:I:3692:A:O2'	9:I:3693:A:N7	2.48	0.46
9:I:3728:G:C6	9:I:3729:G:C5	3.03	0.46
9:I:3728:G:N2	9:I:3729:G:H1'	2.31	0.46
9:I:3774:G:O3'	9:I:3821:A:O5'	2.32	0.46
9:I:3788:G:O2'	10:J:45:A:C5	2.61	0.46
9:I:3871:A:O2'	38:n:116:PHE:O	2.33	0.46
9:I:3886:A:H1'	9:I:3923:G:O6	2.16	0.46
9:I:3922:G:OP1	9:I:3923:G:OP1	2.34	0.46
9:I:3944:A:C2	9:I:3945:A:C4	3.03	0.46
9:I:3948:G:H1	9:I:3992:OMC:N4	2.13	0.46
9:I:3962:A:H2	9:I:3975:G:N2	2.13	0.46
9:I:3978:G:H4'	19:U:48:ALA:HB1	1.98	0.46
9:I:4100:C:H2'	9:I:4101:G:H8	1.80	0.46
9:I:4136:G:N1	9:I:4137:G:O6	2.48	0.46
9:I:4177:C:H4'	12:L:13:ARG:CZ	2.44	0.46
9:I:4214:U:O2'	9:I:4339:U:H1'	2.15	0.46
9:I:4216:G:O2'	9:I:4217:C:H5'	2.15	0.46
9:I:4217:C:C2	9:I:4218:U:C6	3.03	0.46
9:I:4231:G:N1	9:I:4262:U:C4	2.84	0.46
9:I:4293:A:C2	9:I:4295:G:C4	3.04	0.46
9:I:4330:U:H3'	9:I:4330:U:OP2	2.15	0.46
9:I:4346:G:C4	9:I:4347:G:N7	2.84	0.46
10:J:78:G:C5	10:J:79:U:C4	3.03	0.46
12:L:1:MET:HA	12:L:100:LEU:CG	2.45	0.46
12:L:33:ARG:NH2	12:L:53:GLY:O	2.48	0.46
12:L:39:ASP:HB2	12:L:40:LEU:HD23	1.97	0.46
12:L:48:ILE:HG22	12:L:90:PHE:N	2.30	0.46
12:L:189:VAL:HG23	12:L:189:VAL:O	2.15	0.46
13:M:146:VAL:HG12	13:M:148:ILE:CD1	2.45	0.46
14:N:30:VAL:CG2	14:N:96:TRP:CH2	2.98	0.46
15:O:102:ILE:HD11	15:O:116:LEU:CD1	2.31	0.46
16:R:14:ASP:HB2	16:R:16:TYR:OH	2.15	0.46
16:R:31:GLU:HB3	16:R:142:ILE:CD1	2.46	0.46
16:R:112:GLY:O	16:R:113:PRO:C	2.57	0.46
17:S:43:ILE:HG13	17:S:58:LEU:HD22	1.96	0.46
18:T:58:TYR:O	36:l:12:ARG:NH1	2.49	0.46
18:T:131:ALA:O	18:T:134:ALA:N	2.49	0.46
19:U:35:ALA:CB	19:U:128:THR:HG22	2.45	0.46
19:U:111:GLU:HA	19:U:114:ARG:CZ	2.43	0.46
21:W:81:ALA:HB3	21:W:88:PHE:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:X:118:SER:O	22:X:122:GLN:HG2	2.16	0.46
23:Y:151:GLN:O	23:Y:155:LYS:HG3	2.16	0.46
24:Z:36:ARG:O	24:Z:36:ARG:HG3	2.15	0.46
24:Z:77:LYS:HG2	24:Z:86:PHE:HB2	1.97	0.46
25:a:4:TYR:CD2	25:a:71:ILE:HG13	2.51	0.46
25:a:6:ILE:HB	25:a:62:MET:O	2.15	0.46
26:b:19:SER:HB3	26:b:22:LEU:HD12	1.97	0.46
28:d:76:ILE:HG22	28:d:80:ILE:CD1	2.46	0.46
30:f:91:ALA:HB3	30:f:93:PHE:CD2	2.51	0.46
34:j:14:THR:HG22	34:j:39:VAL:HG11	1.98	0.46
37:m:7:VAL:CG1	37:m:36:ARG:O	2.64	0.46
44:t:35:VAL:HG21	44:t:64:ILE:HG21	1.97	0.46
45:u:9:ARG:NH1	45:u:17:SER:HG	2.07	0.46
46:v:27:ILE:CG1	46:v:50:PHE:HA	2.44	0.46
1:A:88:MET:HB3	9:I:1058:C:C5'	2.46	0.46
4:D:17:SER:CA	9:I:272:U:H4'	2.46	0.46
8:H:33:ARG:CA	30:f:112:PRO:CD	2.86	0.46
9:I:99:G:C3'	9:I:100:A:H8	2.29	0.46
9:I:298:G:H2'	9:I:299:A:C1'	2.45	0.46
9:I:582:A:H1'	9:I:758:A:N6	2.29	0.46
9:I:673:G:N1	9:I:716:U:N3	2.63	0.46
9:I:675:A:OP2	9:I:675:A:H8	1.98	0.46
9:I:730:G:C2'	9:I:731:C:H5'	2.46	0.46
9:I:970:G:OP2	9:I:1230:G:N2	2.27	0.46
9:I:1002:G:H2'	9:I:1002:G:N3	2.31	0.46
9:I:1072:U:H4'	21:W:102:LYS:NZ	2.31	0.46
9:I:1094:U:C2	9:I:1095:C:C5	3.04	0.46
9:I:1236:C:O2	9:I:1334:U:H5'	2.15	0.46
9:I:1371:U:H2'	26:b:33:GLY:O	2.14	0.46
9:I:1466:C:OP2	9:I:1467:U:C5	2.69	0.46
9:I:1475:A:C4	9:I:4329:A:C6	3.04	0.46
9:I:1478:A:O2'	9:I:4311:U:H5'	2.15	0.46
9:I:1785:G:H2'	9:I:1786:U:O4'	2.15	0.46
9:I:1872:G:C8	47:w:60:LYS:NZ	2.84	0.46
9:I:1907:G:N1	9:I:1908:G:C6	2.84	0.46
9:I:2039:G:OP2	16:R:7:LYS:HE3	2.14	0.46
9:I:2366:A:H61	9:I:2407:U:H4'	1.80	0.46
9:I:2515:A:N3	9:I:2515:A:C3'	2.77	0.46
9:I:2615:C:C2'	9:I:2616:G:C5'	2.93	0.46
9:I:2807:U:N1	9:I:3104:A:H2	2.14	0.46
9:I:2826:G:O6	9:I:3103:A:C8	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2841:A:H61	9:I:3092:A:H62	1.64	0.46
9:I:2845:C:C2	9:I:2846:U:C5	3.03	0.46
9:I:2905:U:H2'	9:I:2906:U:C5'	2.45	0.46
9:I:2984:A:O2'	9:I:2985:G:H5'	2.16	0.46
9:I:2992:C:N3	9:I:2993:C:C4	2.84	0.46
9:I:3083:U:C2'	9:I:3084:A:H8	2.26	0.46
9:I:3124:A:N1	9:I:3131:A:C6	2.84	0.46
9:I:3162:A:C2	9:I:3168:G:N9	2.84	0.46
9:I:3235:C:C4	9:I:3236:U:C4	3.03	0.46
9:I:3293:G:C4	11:K:175:LEU:HD13	2.50	0.46
9:I:3358:U:H3'	9:I:3359:U:C5	2.51	0.46
9:I:3385:G:C6	9:I:3386:C:C4	3.03	0.46
9:I:3445:U:H5'	17:S:54:LYS:NZ	2.31	0.46
9:I:3580:U:H3	9:I:3727:U:H3	1.64	0.46
9:I:3775:A:C2'	9:I:3776:G:C5'	2.89	0.46
9:I:3780:G:N2	9:I:3840:A:C2	2.84	0.46
9:I:3809:G:C8	14:N:122:ASP:OD2	2.68	0.46
9:I:3824:G:C2'	9:I:3825:G:H5'	2.45	0.46
9:I:3835:G:H2'	9:I:3836:C:C5'	2.46	0.46
9:I:3861:G:H2'	9:I:3862:C:O5'	2.15	0.46
9:I:3870:A:C5	38:n:98:TYR:CZ	3.03	0.46
9:I:3963:A:H2'	9:I:3964:G:C5'	2.46	0.46
9:I:4093:G:H2'	9:I:4094:A:H8	1.79	0.46
9:I:4148:A:C6	9:I:4159:A:H3'	2.50	0.46
9:I:4216:G:C4	9:I:4217:C:C6	3.03	0.46
10:J:68:G:H2'	10:J:68:G:N3	2.30	0.46
10:J:86:U:C3'	10:J:87:C:H5'	2.44	0.46
10:J:105:G:C6	10:J:106:G:C2	3.04	0.46
11:K:77:VAL:HG11	11:K:91:ALA:CA	2.44	0.46
11:K:118:GLY:C	11:K:129:LEU:HB2	2.40	0.46
12:L:35:THR:O	12:L:92:VAL:HA	2.15	0.46
14:N:71:LYS:HG3	14:N:73:VAL:HG13	1.97	0.46
15:O:79:THR:HG23	15:O:80:GLU:OE2	2.15	0.46
15:O:85:LYS:HE3	15:O:164:ALA:HB1	1.94	0.46
16:R:54:ILE:O	16:R:123:LYS:N	2.49	0.46
17:S:19:VAL:CG1	17:S:86:LEU:HD11	2.45	0.46
17:S:110:GLU:O	17:S:110:GLU:HG2	2.15	0.46
17:S:115:ILE:C	17:S:117:SER:H	2.21	0.46
18:T:93:ASN:OD1	18:T:94:THR:OG1	2.33	0.46
18:T:111:ILE:N	18:T:127:VAL:HG13	2.31	0.46
20:V:32:GLU:OE1	20:V:118:ARG:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:43:THR:HG23	21:W:198:PRO:HD2	1.97	0.46
21:W:96:GLY:O	21:W:100:ASN:N	2.48	0.46
22:X:126:ARG:CZ	22:X:190:THR:HB	2.45	0.46
28:d:18:ILE:HD13	28:d:60:LEU:HA	1.98	0.46
28:d:47:GLN:N	28:d:48:PRO:HD2	2.31	0.46
30:f:12:HIS:ND1	30:f:75:LYS:HD3	2.30	0.46
31:g:19:ASN:OD1	31:g:93:ARG:HD3	2.16	0.46
38:n:6:ARG:O	38:n:10:ALA:CB	2.64	0.46
38:n:9:ARG:NE	38:n:12:ARG:HH12	2.14	0.46
39:o:43:GLU:OE1	39:o:86:LYS:HG3	2.15	0.46
39:o:52:ARG:C	39:o:56:SER:OG	2.59	0.46
41:q:70:GLU:O	41:q:70:GLU:HG2	2.16	0.46
42:r:79:GLY:HA3	42:r:100:THR:OG1	2.15	0.46
44:t:25:LYS:HD2	44:t:25:LYS:N	2.30	0.46
47:w:37:PHE:CZ	47:w:58:ILE:HD13	2.51	0.46
47:w:38:TRP:CE3	47:w:44:ARG:O	2.69	0.46
49:y:50:VAL:C	49:y:54:VAL:HG22	2.40	0.46
2:B:66:LEU:CG	2:B:84:LEU:HD21	2.46	0.46
2:B:86:LEU:HD12	2:B:87:ARG:N	2.28	0.46
4:D:7:GLY:HA3	4:D:20:VAL:CG1	2.46	0.46
8:H:5:VAL:HA	30:f:96:THR:H	1.80	0.46
9:I:148:A:C2'	9:I:149:U:C6	2.97	0.46
9:I:208:U:HO2'	9:I:209:C:P	2.30	0.46
9:I:259:G:H3'	9:I:259:G:P	2.55	0.46
9:I:372:A:O2'	9:I:480:G:N3	2.46	0.46
9:I:610:C:C2	9:I:611:C:C6	3.03	0.46
9:I:618:U:H5'	23:Y:127:ARG:NH2	2.30	0.46
9:I:861:C:H2'	9:I:862:U:H6	1.80	0.46
9:I:981:U:H4'	9:I:982:A:O4'	2.15	0.46
9:I:1094:U:P	9:I:1107:G:H22	2.33	0.46
9:I:1121:U:C4	9:I:1151:A:N1	2.84	0.46
9:I:1339:A:H2'	9:I:1340:U:H6	1.80	0.46
9:I:1432:A:H3'	9:I:1433:A:H8	1.81	0.46
9:I:1576:C:OP1	48:x:47:ARG:HD3	2.16	0.46
9:I:1661:A:H1'	9:I:3702:C:C4'	2.46	0.46
9:I:1770:A:C4	9:I:1870:G:C4	3.03	0.46
9:I:1796:U:O3'	44:t:91:LYS:HE2	2.16	0.46
9:I:1798:G:OP1	44:t:94:PHE:HZ	1.98	0.46
9:I:1963:G:N1	9:I:1967:G:C6	2.84	0.46
9:I:1979:A:N3	9:I:1981:G:H5''	2.31	0.46
9:I:2083:G:C4	9:I:2084:C:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2128:G:C5	9:I:2136:G:C2	3.04	0.46
9:I:2137:A:OP1	18:T:131:ALA:N	2.48	0.46
9:I:2274:G:C5'	11:K:47:ARG:HH12	2.29	0.46
9:I:2328:U:O2'	9:I:2329:A:C5'	2.63	0.46
9:I:2411:A:HO2'	9:I:2412:A:H5'	1.80	0.46
9:I:2437:A:N3	9:I:2437:A:H2'	2.31	0.46
9:I:2477:A:C6	9:I:2478:A:N7	2.83	0.46
9:I:2488:C:H2'	41:q:10:LYS:HD3	1.97	0.46
9:I:2489:C:H5	40:p:56:PHE:CE1	2.34	0.46
9:I:2508:A:N6	9:I:2642:U:N3	2.64	0.46
9:I:2518:G:C3'	9:I:2519:G:C8	2.97	0.46
9:I:2530:G:C8	9:I:2531:G:C8	3.03	0.46
9:I:2537:C:OP2	9:I:2538:C:C5	2.69	0.46
9:I:2545:G:H2'	9:I:2545:G:N3	2.30	0.46
9:I:2609:G:O2'	9:I:2610:G:P	2.74	0.46
9:I:2633:G:OP1	16:R:25:LEU:HD11	2.14	0.46
9:I:2662:G:C4	9:I:2663:A:C8	3.04	0.46
9:I:2668:U:H5'	9:I:2669:A:OP2	2.15	0.46
9:I:2678:U:C2	9:I:2679:G:C8	3.03	0.46
9:I:2885:U:H2'	9:I:2887:A:OP2	2.15	0.46
9:I:2907:A:N1	9:I:3084:A:C6	2.84	0.46
9:I:2930:G:C6	9:I:3050:C:N4	2.83	0.46
9:I:2986:G:C3'	9:I:2987:C:H5'	2.45	0.46
9:I:2994:G:H8	9:I:2994:G:P	2.38	0.46
9:I:3018:G:C2'	9:I:3019:A:N9	2.74	0.46
9:I:3147:G:C4	20:V:9:GLN:OE1	2.69	0.46
9:I:3313:A:OP1	11:K:154:ALA:CA	2.64	0.46
9:I:3336:G:N2	9:I:3392:U:C2	2.80	0.46
9:I:3622:G:H1	9:I:3654:C:H42	1.64	0.46
9:I:3828:U:H5'	38:n:11:THR:HB	1.97	0.46
9:I:3855:G:H2'	9:I:3856:C:O4'	2.16	0.46
9:I:3871:A:C2	38:n:116:PHE:HE1	2.33	0.46
9:I:3916:C:N3	9:I:3918:C:C4	2.84	0.46
9:I:3942:A:OP2	9:I:3993:C:OP2	2.34	0.46
9:I:4023:G:P	15:O:171:LYS:HZ2	2.38	0.46
9:I:4028:A:C6	9:I:4029:G:C8	3.03	0.46
9:I:4132:G:C2	9:I:4269:G:C2	3.03	0.46
9:I:4154:A:H2'	9:I:4155:G:O5'	2.15	0.46
9:I:4212:G:O2'	9:I:4342:G:OP2	2.28	0.46
9:I:4229:G:C6	9:I:4264:G:N3	2.83	0.46
10:J:56:A:C4	14:N:25:MET:CB	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:75:G:C2'	10:J:76:U:C5'	2.89	0.46
10:J:93:A:C5	10:J:94:U:C4	3.04	0.46
11:K:76:VAL:O	11:K:93:VAL:HA	2.15	0.46
11:K:93:VAL:HG13	11:K:103:ILE:CD1	2.45	0.46
11:K:107:LYS:HA	11:K:195:GLY:HA3	1.95	0.46
11:K:176:ARG:HG3	11:K:176:ARG:O	2.15	0.46
12:L:39:ASP:CA	12:L:45:TYR:O	2.63	0.46
12:L:48:ILE:HG13	12:L:82:PHE:CB	2.35	0.46
12:L:48:ILE:CD1	12:L:82:PHE:CD2	2.99	0.46
13:M:27:LEU:O	13:M:30:GLN:HB3	2.16	0.46
13:M:143:LEU:HA	13:M:146:VAL:HG21	1.95	0.46
15:O:75:VAL:O	15:O:78:VAL:HG22	2.16	0.46
17:S:61:VAL:HG23	17:S:107:LEU:HD12	1.98	0.46
18:T:55:MET:CE	18:T:59:ARG:HB3	2.46	0.46
20:V:33:ILE:HD12	20:V:114:GLU:HG2	1.98	0.46
20:V:115:LEU:O	20:V:118:ARG:HG2	2.16	0.46
23:Y:167:PRO:HB2	23:Y:170:LEU:CB	2.37	0.46
24:Z:99:GLY:C	24:Z:103:ARG:HE	2.16	0.46
25:a:27:ALA:HA	25:a:30:THR:OG1	2.15	0.46
25:a:66:ALA:HB1	25:a:70:VAL:CG2	2.41	0.46
30:f:8:VAL:CG1	30:f:71:GLU:OE2	2.64	0.46
38:n:34:ILE:O	38:n:52:THR:N	2.47	0.46
38:n:109:ALA:HB1	38:n:114:LEU:HD23	1.98	0.46
39:o:20:ARG:NH2	39:o:91:VAL:O	2.48	0.46
40:p:20:ALA:O	40:p:23:TYR:CD2	2.69	0.46
40:p:80:ASN:C	40:p:84:LYS:HD2	2.41	0.46
41:q:6:GLN:HB2	41:q:11:GLN:HG3	1.97	0.46
41:q:74:ILE:HD12	41:q:74:ILE:N	2.30	0.46
42:r:52:GLU:CA	42:r:55:ILE:HD12	2.31	0.46
45:u:11:GLU:HB2	45:u:20:LEU:CD1	2.46	0.46
46:v:20:SER:HA	46:v:55:GLY:O	2.15	0.46
48:x:27:LEU:N	48:x:27:LEU:CD2	2.79	0.46
49:y:44:ARG:HG2	49:y:47:ILE:HD12	1.97	0.46
1:A:84:ARG:HD2	29:e:50:SER:C	2.41	0.46
2:B:42:PHE:CD2	2:B:55:LEU:HD13	2.51	0.46
3:C:40:ASN:HB3	3:C:49:GLY:O	2.15	0.46
4:D:65:SER:HA	9:I:254:G:N7	2.30	0.46
7:G:5:ALA:HB3	9:I:332:U:O5'	2.15	0.46
8:H:43:GLU:C	8:H:46:ARG:HB2	2.40	0.46
9:I:49:A:H1'	9:I:51:C:N1	2.31	0.46
9:I:245:A:N6	9:I:278:A:O4'	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:313:C:O2	9:I:352:A:H2	1.99	0.46
9:I:571:A:H5'	9:I:572:A:P	2.55	0.46
9:I:651:U:H1'	9:I:652:U:H5	1.71	0.46
9:I:685:U:O4'	30:f:32:TRP:HZ2	1.99	0.46
9:I:939:C:H1'	9:I:1373:A:C2	2.51	0.46
9:I:950:G:O6	32:h:103:THR:HG21	2.16	0.46
9:I:950:G:O2'	9:I:971:C:H5	1.98	0.46
9:I:960:U:C6	9:I:982:A:N6	2.83	0.46
9:I:966:5MC:OP1	9:I:968:A:H5'	2.16	0.46
9:I:1025:G:C2	9:I:1034:A:N1	2.84	0.46
9:I:1059:U:H2'	9:I:1060:G:H8	1.78	0.46
9:I:1229:C:H2'	9:I:1230:G:C8	2.51	0.46
9:I:1275:G:H2'	9:I:1276:C:H6	1.78	0.46
9:I:1386:G:N3	9:I:1387:C:C6	2.84	0.46
9:I:1438:G:N2	9:I:4367:U:H1'	2.31	0.46
9:I:1528:A:C5	9:I:1529:U:C2	3.04	0.46
9:I:1583:A:C8	9:I:1601:A:N6	2.84	0.46
9:I:1589:A:C2	9:I:1590:U:C2	3.04	0.46
9:I:1595:A:C3'	9:I:1596:C:C5'	2.89	0.46
9:I:1744:A:C4'	18:T:69:ARG:HH21	2.27	0.46
9:I:1810:A:P	44:t:18:LYS:HE3	2.55	0.46
9:I:1904:A:C6	9:I:1921:C:C2	3.04	0.46
9:I:1918:C:C3'	9:I:1919:U:H6	2.27	0.46
9:I:1967:G:C2'	9:I:1968:G:H5'	2.46	0.46
9:I:1980:A:H5''	44:t:43:LYS:HE3	1.98	0.46
9:I:2032:A:N3	9:I:2032:A:C2'	2.78	0.46
9:I:2033:G:H2'	9:I:2034:U:C6	2.50	0.46
9:I:2047:A:H62	9:I:2048:G:H21	1.63	0.46
9:I:2051:G:H3'	9:I:2051:G:P	2.56	0.46
9:I:2071:U:H3	9:I:3524:6MZ:C4	2.28	0.46
9:I:2125:G:O2'	9:I:2126:A:O4'	2.33	0.46
9:I:2171:C:O2'	9:I:2172:C:H5'	2.16	0.46
9:I:2281:A:C5'	11:K:216:ARG:HH12	2.28	0.46
9:I:2294:A:H2'	9:I:2295:C:C6	2.50	0.46
9:I:2427:A:N3	9:I:2427:A:H3'	2.31	0.46
9:I:2496:G:C4	9:I:2497:G:C8	3.04	0.46
9:I:2542:A:N3	9:I:2607:U:O4'	2.49	0.46
9:I:2578:A:HO2'	9:I:2579:A:P	2.30	0.46
9:I:2614:G:C2'	9:I:2615:C:O4'	2.58	0.46
9:I:2629:C:C6	9:I:2631:G:OP2	2.69	0.46
9:I:2834:U:P	43:s:19:LYS:NZ	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2902:G:C6	9:I:2903:U:C4	3.04	0.46
9:I:2920:G:C5	9:I:2921:A:C5	3.04	0.46
9:I:3001:C:C2	9:I:3002:A:N3	2.84	0.46
9:I:3065:A:C2	9:I:3066:A:C4	3.04	0.46
9:I:3178:G:N1	9:I:3179:C:C4	2.83	0.46
9:I:3197:G:C6	9:I:3198:C:C5	3.04	0.46
9:I:3198:C:O2	9:I:3198:C:C2'	2.64	0.46
9:I:3203:U:O5'	9:I:3203:U:C6	2.69	0.46
9:I:3250:G:OP2	9:I:3250:G:C6	2.69	0.46
9:I:3293:G:O6	11:K:176:ARG:N	2.49	0.46
9:I:3320:G:C4	9:I:3321:U:C5	3.03	0.46
9:I:3336:G:C2'	9:I:3337:C:C6	2.99	0.46
9:I:3370:A:H2'	9:I:3370:A:N3	2.30	0.46
9:I:3373:C:C4	9:I:3374:U:C4	3.03	0.46
9:I:3404:G:C6	9:I:3415:G:C6	3.04	0.46
9:I:3413:A:H2'	9:I:3414:C:O4'	2.16	0.46
9:I:3416:G:C2'	9:I:3417:U:H5'	2.45	0.46
9:I:3433:5MU:H3'	9:I:3434:U:H5'	1.97	0.46
9:I:3435:C:H5''	9:I:3436:C:OP2	2.16	0.46
9:I:3576:A:H2'	9:I:3577:G:H5'	1.97	0.46
9:I:3774:G:C4'	9:I:3821:A:H5'	2.39	0.46
9:I:3786:U:C6	9:I:3786:U:OP2	2.69	0.46
9:I:3825:G:C5	9:I:3826:C:C5	3.04	0.46
9:I:3906:A:C6	9:I:3907:G:C4	3.04	0.46
9:I:3911:C:H2'	9:I:3911:C:O2	2.16	0.46
9:I:3941:G:C6	9:I:3995:C:C2	3.03	0.46
9:I:4203:G:C6	9:I:4204:C:C4	3.04	0.46
9:I:4308:A:N6	9:I:4325:G:C6	2.83	0.46
9:I:4316:G:P	12:L:115:GLY:CA	3.04	0.46
9:I:4398:G:N3	9:I:4398:G:H2'	2.31	0.46
9:I:4419:G:H2'	9:I:4420:2MG:H8	1.78	0.46
9:I:4423:MA6:H2'	9:I:4423:MA6:N3	2.31	0.46
10:J:12:G:N3	10:J:15:G:C1'	2.74	0.46
10:J:17:G:O6	10:J:63:G:O6	2.34	0.46
10:J:27:C:C5	38:n:32:ARG:NH1	2.84	0.46
10:J:28:A:H62	38:n:32:ARG:HH22	1.62	0.46
10:J:72:A:C8	10:J:102:U:N3	2.83	0.46
10:J:107:A:O2'	10:J:108:A:P	2.73	0.46
11:K:147:PRO:CG	11:K:186:ASP:HB3	2.46	0.46
12:L:40:LEU:HD23	12:L:40:LEU:N	2.31	0.46
12:L:71:ALA:HB3	12:L:73:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:5:LEU:HD23	13:M:120:VAL:O	2.15	0.46
16:R:73:VAL:HG23	16:R:86:GLN:HE21	1.79	0.46
19:U:56:ALA:HB3	19:U:116:ALA:CB	2.46	0.46
19:U:130:PHE:CE2	19:U:132:THR:HG23	2.51	0.46
20:V:18:GLN:HB3	20:V:22:ARG:CZ	2.46	0.46
20:V:41:ALA:CA	20:V:44:LEU:HB2	2.39	0.46
23:Y:50:TYR:CZ	23:Y:54:LEU:HD11	2.51	0.46
23:Y:56:GLU:CD	23:Y:195:ASN:H	2.21	0.46
23:Y:56:GLU:HB3	23:Y:198:LEU:HD23	1.98	0.46
23:Y:57:LYS:CA	23:Y:199:ILE:HG12	2.46	0.46
27:c:49:LYS:HG2	27:c:50:VAL:N	2.29	0.46
30:f:3:GLN:HA	30:f:65:TYR:O	2.15	0.46
32:h:24:VAL:HB	32:h:28:ARG:HB3	1.98	0.46
34:j:36:PHE:HD1	34:j:43:HIS:N	2.14	0.46
40:p:82:LEU:O	40:p:85:ALA:N	2.46	0.46
41:q:43:ASN:CG	41:q:44:GLY:H	2.23	0.46
43:s:34:VAL:CG2	43:s:81:LYS:HE2	2.46	0.46
43:s:62:VAL:O	43:s:62:VAL:HG23	2.16	0.46
44:t:10:VAL:HA	44:t:71:ILE:C	2.41	0.46
44:t:32:LYS:HZ3	44:t:65:GLN:HA	1.81	0.46
44:t:65:GLN:HG2	44:t:68:ASN:HB2	1.98	0.46
45:u:25:LYS:CB	45:u:41:GLU:OE1	2.64	0.46
45:u:78:GLN:OE1	45:u:88:HIS:HB3	2.15	0.46
47:w:50:VAL:CG2	47:w:54:GLY:HA3	2.30	0.46
48:x:44:GLN:HB3	48:x:45:VAL:HG23	1.98	0.46
49:y:4:ILE:HG22	49:y:5:LYS:N	2.31	0.46
49:y:30:ARG:HG2	49:y:33:HIS:CB	2.38	0.46
49:y:50:VAL:HG23	49:y:54:VAL:CG1	2.44	0.46
4:D:5:LEU:HD13	4:D:70:TRP:HH2	1.79	0.46
9:I:277:G:H4'	9:I:281:A:H4'	1.98	0.46
9:I:323:G:C2'	9:I:325:G:N7	2.68	0.46
9:I:672:A:O2'	9:I:673:G:O4'	2.30	0.46
9:I:675:A:H2'	9:I:676:U:C6	2.50	0.46
9:I:716:U:O4'	30:f:107:ASN:HB2	2.15	0.46
9:I:823:G:O2'	9:I:824:A:H5'	2.15	0.46
9:I:1124:U:O2'	9:I:1125:U:H2'	2.16	0.46
9:I:1245:A:N1	9:I:1291:G:C6	2.84	0.46
9:I:1313:C:H2'	9:I:1314:U:H6	1.76	0.46
9:I:1339:A:H2'	9:I:1340:U:O4'	2.16	0.46
9:I:1356:A:OP1	9:I:1358:C:N4	2.43	0.46
9:I:1455:U:H2'	9:I:1456:A:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1560:G:HO2'	9:I:1562:U:H5	1.57	0.46
9:I:1579:C:C2	9:I:1580:G:C8	3.04	0.46
9:I:1587:U:H5''	9:I:1588:G:C5'	2.46	0.46
9:I:1648:U:C3'	9:I:1649:A:H5''	2.45	0.46
9:I:1699:A:N1	9:I:3928:A:C2	2.84	0.46
9:I:1701:C:C2'	9:I:1702:U:O5'	2.64	0.46
9:I:1821:U:H5'	13:M:130:LYS:HA	1.98	0.46
9:I:1832:A:OP1	9:I:1832:A:H3'	2.16	0.46
9:I:2094:U:C2	9:I:2095:C:C5	3.04	0.46
9:I:2212:G:H2'	9:I:2212:G:N3	2.31	0.46
9:I:2274:G:H5''	11:K:47:ARG:HH12	1.81	0.46
9:I:2317:C:C2'	9:I:2318:G:O4'	2.57	0.46
9:I:2441:A:C6	9:I:2442:C:C4	3.04	0.46
9:I:2451:C:O2	9:I:2453:A:O4'	2.34	0.46
9:I:2457:U:H2'	9:I:2458:C:H6	1.81	0.46
9:I:2524:C:H2'	9:I:2525:G:O5'	2.16	0.46
9:I:2554:U:H4'	9:I:2555:U:OP1	2.15	0.46
9:I:2618:G:O2'	37:m:38:GLY:HA2	2.15	0.46
9:I:2621:A:C2'	9:I:2622:G:H5''	2.44	0.46
9:I:2675:U:N3	9:I:2676:G:C5	2.84	0.46
9:I:2751:C:H2'	9:I:2752:U:C6	2.51	0.46
9:I:2841:A:H61	9:I:3092:A:N6	2.13	0.46
9:I:2920:G:C6	9:I:2921:A:C6	3.04	0.46
9:I:2944:G:N3	9:I:2944:G:H2'	2.31	0.46
9:I:3015:G:OP2	9:I:3016:A:O2'	2.32	0.46
9:I:3059:C:C2	9:I:3061:G:C8	3.04	0.46
9:I:3072:U:C2'	9:I:3073:A:C5'	2.89	0.46
9:I:3092:A:C4	9:I:3093:U:C6	3.03	0.46
9:I:3436:C:H5''	9:I:3437:U:O5'	2.15	0.46
9:I:3594:G:O2'	9:I:3595:A:P	2.73	0.46
9:I:3667:A:N3	9:I:3667:A:H2'	2.30	0.46
9:I:3777:C:C2'	9:I:3778:A:C5'	2.93	0.46
9:I:3791:A:C8	9:I:3814:U:C2	3.03	0.46
9:I:3792:A:OP1	9:I:3793:U:OP2	2.33	0.46
9:I:3797:G:H4'	14:N:122:ASP:H	1.76	0.46
9:I:3847:G:O2'	9:I:3848:C:O5'	2.33	0.46
9:I:3867:G:C6	9:I:3875:A:C2	3.04	0.46
9:I:3966:G:H5''	9:I:3967:U:H4'	1.97	0.46
9:I:4009:C:O2'	9:I:4010:A:H5'	2.16	0.46
9:I:4127:G:O2'	12:L:64:GLU:CG	2.64	0.46
9:I:4148:A:H4'	9:I:4150:U:HI'	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4151:A:C5	9:I:4159:A:C8	3.04	0.46
9:I:4202:G:H8	9:I:4202:G:OP2	1.99	0.46
9:I:4214:U:C2'	9:I:4215:A:O5'	2.64	0.46
9:I:4282:C:H3'	9:I:4282:C:OP2	2.16	0.46
9:I:4412:A:H2'	9:I:4413:C:O4'	2.16	0.46
10:J:34:C:C2'	10:J:35:C:H5'	2.46	0.46
10:J:73:U:N3	45:u:31:TYR:CE2	2.84	0.46
10:J:78:G:H3'	10:J:79:U:H6	1.81	0.46
12:L:9:VAL:N	12:L:26:VAL:O	2.49	0.46
13:M:27:LEU:HD23	13:M:27:LEU:C	2.40	0.46
13:M:136:GLN:O	13:M:136:GLN:OE1	2.34	0.46
14:N:65:LEU:N	14:N:87:LYS:O	2.42	0.46
15:O:3:VAL:HG13	15:O:68:ARG:CG	2.45	0.46
15:O:112:VAL:HG12	15:O:113:ASP:H	1.81	0.46
19:U:34:LYS:CB	19:U:131:VAL:HG11	2.45	0.46
19:U:120:ALA:C	19:U:124:LEU:HG	2.41	0.46
20:V:78:LYS:HG3	20:V:82:GLU:CD	2.41	0.46
22:X:52:SER:HB3	22:X:114:LEU:CG	2.46	0.46
23:Y:66:VAL:HG12	23:Y:71:PHE:HB2	1.97	0.46
24:Z:44:ALA:N	24:Z:50:ALA:HB2	2.31	0.46
24:Z:52:GLN:O	24:Z:56:GLU:N	2.36	0.46
25:a:35:LYS:HE3	25:a:37:HIS:CE1	2.51	0.46
26:b:106:ALA:HB1	26:b:132:THR:CB	2.40	0.46
28:d:20:PRO:HA	28:d:58:LEU:CB	2.45	0.46
33:i:43:THR:OG1	33:i:47:TYR:HB2	2.16	0.46
35:k:25:LYS:CA	35:k:28:ARG:NH2	2.78	0.46
36:l:11:LYS:HE3	36:l:11:LYS:HA	1.98	0.46
37:m:24:ARG:HB3	37:m:36:ARG:HD3	1.98	0.46
38:n:25:LEU:CD2	38:n:114:LEU:CD2	2.94	0.46
39:o:43:GLU:O	39:o:62:LYS:HA	2.16	0.46
40:p:73:ILE:CD1	40:p:78:PHE:HA	2.45	0.46
40:p:97:ILE:CG2	40:p:104:ALA:HB1	2.45	0.46
41:q:41:ILE:HD12	41:q:54:VAL:HB	1.97	0.46
42:r:4:ILE:HG22	42:r:5:ALA:N	2.31	0.46
42:r:8:ARG:HG3	42:r:9:HIS:CG	2.51	0.46
44:t:33:VAL:HG22	44:t:66:VAL:HG22	1.97	0.46
44:t:47:PRO:HB3	44:t:53:GLN:O	2.16	0.46
44:t:60:LYS:HG3	44:t:61:GLU:N	2.31	0.46
44:t:87:GLU:O	44:t:92:VAL:HG13	2.16	0.46
45:u:2:PHE:CE2	45:u:53:LYS:HD3	2.51	0.46
45:u:20:LEU:CA	45:u:23:ALA:HB3	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:u:23:ALA:O	45:u:24:ASN:HB3	2.15	0.46
45:u:27:PRO:CG	45:u:88:HIS:CD2	2.98	0.46
45:u:33:GLY:N	45:u:93:ARG:HB2	2.30	0.46
47:w:46:VAL:HG13	47:w:46:VAL:O	2.16	0.46
49:y:31:ILE:HG13	49:y:31:ILE:O	2.16	0.46
1:A:51:PRO:HA	9:I:1014:G:C5'	2.45	0.46
2:B:53:ARG:NH1	9:I:727:A:N6	2.64	0.46
3:C:4:ILE:CG1	3:C:21:VAL:HG22	2.41	0.46
3:C:31:ARG:HA	9:I:310:C:OP1	2.16	0.46
9:I:5:G:H3'	9:I:5:G:N3	2.30	0.46
9:I:8:G:H2'	9:I:9:A:H8	1.80	0.46
9:I:416:G:O6	9:I:425:U:C2	2.69	0.46
9:I:841:U:N3	9:I:843:G:H5'	2.31	0.46
9:I:944:G:H1'	9:I:1336:G:H1'	1.97	0.46
9:I:1036:C:H2'	9:I:1037:C:C5	2.51	0.46
9:I:1097:C:H2'	9:I:1098:G:C5'	2.43	0.46
9:I:1189:G:H5'	22:X:175:HIS:NE2	2.30	0.46
9:I:1238:A:N6	9:I:1296:G:C4'	2.77	0.46
9:I:1324:C:H2'	9:I:1325:U:H6	1.73	0.46
9:I:1379:U:H2'	26:b:2:ARG:HG2	1.97	0.46
9:I:1380:U:O2'	26:b:78:ARG:C	2.59	0.46
9:I:1564:A:N3	9:I:1565:U:C6	2.84	0.46
9:I:1581:G:C8	9:I:1582:U:C5	3.04	0.46
9:I:1584:A:N1	9:I:1603:A:OP1	2.49	0.46
9:I:1584:A:C5'	44:t:6:ARG:NE	2.74	0.46
9:I:1632:G:C4	9:I:1633:U:C5	3.04	0.46
9:I:1650:U:C2'	9:I:1651:C:C6	2.89	0.46
9:I:1716:A:C8	9:I:1932:A:N6	2.84	0.46
9:I:1792:U:H2'	9:I:1793:U:O4'	2.15	0.46
9:I:1797:G:H2'	9:I:1798:G:H8	1.81	0.46
9:I:1799:A:H3'	9:I:1800:A:N7	2.30	0.46
9:I:1817:G:N2	9:I:1818:C:H1'	2.31	0.46
9:I:1835:C:OP1	9:I:1835:C:C6	2.69	0.46
9:I:1907:G:C2'	9:I:1908:G:O4'	2.64	0.46
9:I:1947:A:C4	9:I:1973:G:N7	2.84	0.46
9:I:2044:C:C2	9:I:2045:U:C5	3.04	0.46
9:I:2072:A:C5	9:I:2073:U:N3	2.84	0.46
9:I:2108:A:C5	9:I:2109:A:C5	3.03	0.46
9:I:2126:A:C2'	18:T:78:ARG:NH2	2.76	0.46
9:I:2136:G:C5'	18:T:129:LYS:N	2.66	0.46
9:I:2142:U:C5	9:I:2144:A:OP1	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2270:G:N3	9:I:2271:G:C8	2.84	0.46
9:I:2302:A:C2	9:I:2303:U:C6	3.05	0.46
9:I:2328:U:C2'	9:I:2329:A:O5'	2.64	0.46
9:I:2339:U:C2	9:I:2340:C:C5	3.04	0.46
9:I:2363:A:H5'	10:J:98:A:H61	1.80	0.46
9:I:2379:G:N2	9:I:2393:A:H1'	2.31	0.46
9:I:2431:C:H2'	9:I:2432:G:H8	1.81	0.46
9:I:2432:G:O2'	9:I:2433:G:H5'	2.15	0.46
9:I:2517:U:C4	9:I:2518:G:H1'	2.51	0.46
9:I:2531:G:C2	9:I:2613:U:N3	2.84	0.46
9:I:2929:G:N3	9:I:2929:G:H2'	2.30	0.46
9:I:2984:A:C6	11:K:97:ASP:CB	2.99	0.46
9:I:3148:A:N3	9:I:3148:A:H2'	2.31	0.46
9:I:3170:A:C6	9:I:3171:A:C4	3.03	0.46
9:I:3197:G:C6	9:I:3198:C:C4	3.04	0.46
9:I:3208:U:OP1	9:I:3210:U:O5'	2.34	0.46
9:I:3238:A:C5	9:I:3239:A:C5	3.03	0.46
9:I:3321:U:O2'	9:I:3322:G:H5'	2.16	0.46
9:I:3334:G:C6	9:I:3335:U:C4	3.03	0.46
9:I:3694:C:OP1	47:w:36:ARG:HD2	2.16	0.46
9:I:3768:A:H5''	9:I:3769:C:P	2.56	0.46
9:I:3775:A:C4'	9:I:3882:A:N6	2.78	0.46
9:I:3784:G:N2	9:I:3785:U:C4	2.84	0.46
9:I:3786:U:C4	9:I:3835:G:C6	3.04	0.46
9:I:3793:U:N1	9:I:3812:G:N2	2.63	0.46
9:I:3827:A:C5'	46:v:65:LYS:NZ	2.79	0.46
9:I:3898:U:C4	9:I:3908:G:C6	3.04	0.46
9:I:3939:2MG:H2'	9:I:3940:G:C8	2.51	0.46
9:I:4229:G:C5	9:I:4264:G:N3	2.84	0.46
9:I:4252:A:HO2'	15:O:37:ASN:CG	2.20	0.46
9:I:4326:U:C1'	9:I:4328:G:C4	2.98	0.46
9:I:4330:U:OP2	9:I:4331:A:OP2	2.34	0.46
10:J:21:U:H2'	10:J:22:G:H5'	1.97	0.46
10:J:65:A:O2'	10:J:106:G:O6	2.21	0.46
10:J:75:G:C2	10:J:76:U:C6	3.04	0.46
12:L:9:VAL:HG23	12:L:27:ILE:C	2.41	0.46
12:L:45:TYR:HE2	12:L:47:ALA:HB2	1.81	0.46
12:L:172:VAL:CG1	12:L:175:LEU:HD11	2.32	0.46
13:M:125:SER:OG	13:M:154:ASP:HB2	2.16	0.46
14:N:110:ILE:CG1	14:N:136:ILE:CD1	2.94	0.46
14:N:122:ASP:CG	14:N:126:ASN:HD22	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:124:ARG:O	14:N:159:ALA:O	2.34	0.46
15:O:51:PHE:CG	15:O:64:ALA:O	2.69	0.46
15:O:124:CYS:SG	15:O:129:GLU:O	2.74	0.46
16:R:24:THR:HG22	16:R:25:LEU:H	1.79	0.46
17:S:40:LYS:HD2	17:S:59:LYS:NZ	2.30	0.46
18:T:2:ARG:C	18:T:4:ASN:H	2.24	0.46
20:V:43:GLU:CD	20:V:46:ARG:HH21	2.24	0.46
21:W:109:LYS:HA	21:W:112:LYS:HG2	1.98	0.46
21:W:142:GLU:O	21:W:146:GLY:HA3	2.16	0.46
21:W:216:ALA:HA	21:W:219:ARG:NH2	2.31	0.46
21:W:218:VAL:O	21:W:222:ARG:N	2.31	0.46
22:X:151:GLU:O	22:X:198:LYS:N	2.45	0.46
23:Y:77:GLU:O	23:Y:81:LEU:N	2.37	0.46
24:Z:98:ALA:O	24:Z:103:ARG:NE	2.49	0.46
27:c:26:MET:CG	27:c:27:PRO:HD2	2.31	0.46
27:c:90:GLU:O	27:c:92:PRO:HD3	2.16	0.46
29:e:5:ARG:HH21	29:e:67:LEU:HG	1.81	0.46
38:n:67:LYS:O	38:n:70:ALA:N	2.49	0.46
39:o:45:VAL:CG1	39:o:99:LEU:HD13	2.45	0.46
41:q:51:VAL:HG23	41:q:51:VAL:O	2.16	0.46
44:t:39:ASN:CB	44:t:62:ALA:H	2.15	0.46
44:t:71:ILE:HD12	44:t:95:PHE:HE1	1.80	0.46
45:u:43:ASP:O	45:u:47:VAL:HG23	2.15	0.46
46:v:36:HIS:HB2	46:v:69:PHE:CG	2.51	0.46
1:A:15:LEU:C	1:A:54:SER:HA	2.41	0.45
4:D:20:VAL:CG2	4:D:56:VAL:HG11	2.39	0.45
4:D:35:ILE:CB	9:I:279:C:H5	2.25	0.45
7:G:2:ILE:HG13	9:I:348:A:OP1	2.16	0.45
8:H:18:PHE:HD2	30:f:81:ARG:O	1.98	0.45
9:I:78:G:N1	9:I:90:U:O4	2.49	0.45
9:I:94:C:C2'	9:I:95:U:H5'	2.46	0.45
9:I:136:U:C2	9:I:137:G:N7	2.84	0.45
9:I:514:G:C6	9:I:536:G:C6	3.04	0.45
9:I:611:C:H2'	9:I:612:C:C5	2.51	0.45
9:I:671:U:HO2'	25:a:86:ARG:NH2	2.00	0.45
9:I:703:A:C6	9:I:704:G:C8	3.05	0.45
9:I:776:A:H2'	9:I:777:G:O5'	2.17	0.45
9:I:800:U:H2'	9:I:801:A:H8	1.79	0.45
9:I:958:A:H1'	9:I:983:C:O2	2.16	0.45
9:I:1077:U:O2	24:Z:126:ASN:CG	2.58	0.45
9:I:1124:U:C2	29:e:36:ILE:HG21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1215:A:H2'	9:I:1216:C:H5'	1.92	0.45
9:I:1401:4OC:H6	9:I:1401:4OC:O5'	2.16	0.45
9:I:1435:U:H2'	9:I:1436:A:H8	1.77	0.45
9:I:1505:A:N1	9:I:1506:A:C6	2.85	0.45
9:I:1527:G:C4	9:I:2012:G:C2	3.04	0.45
9:I:1535:G:H1'	9:I:1954:A:C4	2.52	0.45
9:I:1572:U:O4	9:I:1612:U:O4'	2.34	0.45
9:I:1636:G:C6	9:I:1644:A:N7	2.85	0.45
9:I:1646:A:C2	9:I:1647:C:C6	3.04	0.45
9:I:1650:U:H2'	9:I:1651:C:C1'	2.46	0.45
9:I:1763:G:H2'	9:I:1764:C:O4'	2.15	0.45
9:I:1790:U:C2	9:I:1850:G:N1	2.81	0.45
9:I:1793:U:C6	9:I:1845:A:N1	2.84	0.45
9:I:1801:G:OP2	9:I:1834:C:O2	2.33	0.45
9:I:1908:G:C6	9:I:1909:G:C6	3.03	0.45
9:I:2028:A:C2	9:I:3536:A:C4	3.04	0.45
9:I:2172:C:O2'	9:I:2173:C:H5'	2.16	0.45
9:I:2307:U:P	18:T:36:LYS:HZ3	2.28	0.45
9:I:2317:C:H2'	9:I:2318:G:C8	2.51	0.45
9:I:2318:G:C5	9:I:2681:G:C2	3.03	0.45
9:I:2326:U:O2'	18:T:53:GLY:HA3	2.16	0.45
9:I:2358:G:H8	9:I:2358:G:OP2	1.99	0.45
9:I:2461:U:H2'	9:I:2462:C:H6	1.80	0.45
9:I:2468:G:C4	9:I:2483:G:C2	3.03	0.45
9:I:2514:A:N6	9:I:2635:U:O2'	2.47	0.45
9:I:2522:A:N9	9:I:2523:A:C8	2.84	0.45
9:I:2633:G:H5'	16:R:25:LEU:O	2.16	0.45
9:I:2665:G:N1	9:I:2672:C:N4	2.64	0.45
9:I:3009:A:H5'	9:I:3010:G:OP2	2.16	0.45
9:I:3021:G:C6	9:I:3038:A:OP2	2.69	0.45
9:I:3067:G:H3'	9:I:3068:C:C6	2.50	0.45
9:I:3207:A:H8	9:I:3207:A:OP1	1.99	0.45
9:I:3323:A:N1	9:I:3324:C:H1'	2.31	0.45
9:I:3376:U:O2	9:I:3376:U:C2'	2.59	0.45
9:I:3437:U:H1'	9:I:3439:G:H5''	1.97	0.45
9:I:3562:U:C2'	9:I:3563:G7M:OP2	2.64	0.45
9:I:3577:G:C4	9:I:3578:C:C6	3.05	0.45
9:I:3579:U:O2'	9:I:3580:U:H5'	2.16	0.45
9:I:3734:U:O2'	9:I:3735:A:H5'	2.16	0.45
9:I:3736:G:C2'	9:I:3737:U:O5'	2.64	0.45
9:I:3773:G:C2	9:I:3821:A:H1'	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3780:G:P	34:j:27:LYS:HE3	2.56	0.45
9:I:3808:A:C5'	14:N:34:THR:HG21	2.35	0.45
9:I:3809:G:C1'	14:N:124:ARG:CG	2.66	0.45
9:I:4022:U:C5	9:I:4024:A:C6	3.04	0.45
9:I:4167:G:H2'	9:I:4168:G:C8	2.51	0.45
9:I:4178:U:H2'	9:I:4179:G:C1'	2.46	0.45
9:I:4252:A:H1'	15:O:63:GLN:CD	2.41	0.45
9:I:4280:U:P	12:L:70:LYS:HZ3	2.38	0.45
11:K:1:ALA:O	11:K:19:VAL:HB	2.16	0.45
11:K:196:ASN:O	11:K:197:ALA:C	2.59	0.45
12:L:2:ILE:HG13	12:L:100:LEU:CD2	2.46	0.45
12:L:5:VAL:C	12:L:29:VAL:HG22	2.40	0.45
12:L:46:ARG:NE	12:L:84:LEU:HD12	2.32	0.45
12:L:115:GLY:HA2	12:L:167:ASN:CB	2.45	0.45
13:M:126:VAL:O	13:M:156:ASN:ND2	2.49	0.45
13:M:148:ILE:CG1	13:M:168:ASP:O	2.63	0.45
14:N:15:LEU:HB3	14:N:27:VAL:CG2	2.47	0.45
14:N:51:ASN:HB3	14:N:149:ARG:NH2	2.32	0.45
15:O:42:VAL:CG1	15:O:44:HIS:CE1	2.89	0.45
15:O:71:LEU:O	15:O:74:MET:HB3	2.16	0.45
16:R:41:LYS:NZ	16:R:51:GLY:HA2	2.31	0.45
16:R:122:LEU:HD12	16:R:122:LEU:N	2.31	0.45
18:T:92:LEU:HD11	18:T:96:LYS:HZ1	1.80	0.45
19:U:34:LYS:CB	19:U:131:VAL:CG1	2.93	0.45
20:V:33:ILE:CG1	20:V:114:GLU:HG3	2.40	0.45
21:W:160:VAL:HG11	21:W:170:ILE:HD11	1.97	0.45
21:W:162:ASP:O	21:W:165:HIS:N	2.48	0.45
23:Y:75:TYR:N	23:Y:89:LEU:HD13	2.31	0.45
24:Z:129:ARG:HA	24:Z:132:ILE:HD13	1.98	0.45
26:b:68:VAL:HG11	26:b:133:ALA:HB1	1.97	0.45
28:d:4:TYR:CE1	28:d:15:ARG:HA	2.42	0.45
34:j:6:ILE:H	34:j:20:THR:C	2.14	0.45
36:l:28:LEU:HD22	36:l:28:LEU:N	2.30	0.45
36:l:28:LEU:CD2	36:l:43:LEU:HD13	2.46	0.45
39:o:50:ARG:O	39:o:56:SER:CB	2.62	0.45
40:p:85:ALA:HA	40:p:115:ALA:HB1	1.97	0.45
41:q:38:VAL:CG2	41:q:59:ILE:HD11	2.35	0.45
41:q:39:LEU:O	41:q:40:MET:HG3	2.16	0.45
41:q:60:LYS:N	41:q:102:SER:OG	2.50	0.45
42:r:92:ARG:NE	42:r:92:ARG:CA	2.78	0.45
43:s:7:LEU:HD12	43:s:8:LEU:CG	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:s:64:LYS:HD2	43:s:79:ASP:OD2	2.16	0.45
44:t:87:GLU:HB2	44:t:92:VAL:HG22	1.93	0.45
45:u:6:ALA:CB	45:u:63:ILE:HG21	2.40	0.45
45:u:62:THR:HG21	45:u:69:GLU:OE1	2.16	0.45
1:A:4:SER:N	9:I:1215:A:C5'	2.78	0.45
9:I:104:G:O2'	9:I:105:C:O4'	2.22	0.45
9:I:112:G:HO2'	9:I:352:A:H4'	1.82	0.45
9:I:177:C:O2	9:I:177:C:C2'	2.65	0.45
9:I:426:U:O5'	9:I:427:G:C2'	2.64	0.45
9:I:516:G:O4'	9:I:518:C:N4	2.49	0.45
9:I:996:U:O2	9:I:997:C:C6	2.69	0.45
9:I:1047:G:H2'	9:I:1049:G:N7	2.30	0.45
9:I:1389:U:O2'	9:I:1390:U:H5'	2.15	0.45
9:I:1495:A:N1	9:I:1496:A:C4	2.84	0.45
9:I:1498:C:C2	9:I:1502:G:C2	3.03	0.45
9:I:1505:A:C2'	9:I:1506:A:H5'	2.45	0.45
9:I:1512:U:O4	9:I:2026:A:N7	2.49	0.45
9:I:1676:A:O2'	9:I:1677:G:C5'	2.64	0.45
9:I:1755:A:N3	9:I:1756:A:H1'	2.31	0.45
9:I:1770:A:OP1	9:I:1771:G:C8	2.69	0.45
9:I:1859:G:C6	9:I:1860:U:C4	3.04	0.45
9:I:1879:G:C2'	9:I:1880:G:O5'	2.64	0.45
9:I:1898:C:C4	9:I:1899:U:C4	3.03	0.45
9:I:1952:G:C2	9:I:1953:A:C5	3.04	0.45
9:I:1980:A:H5''	44:t:43:LYS:NZ	2.31	0.45
9:I:2116:A:O2'	13:M:199:MET:CE	2.63	0.45
9:I:2348:C:O2	9:I:2427:A:C2	2.69	0.45
9:I:2457:U:H2'	9:I:2458:C:C6	2.51	0.45
9:I:2481:C:P	49:y:10:ARG:HH22	2.40	0.45
9:I:2553:G:H2'	9:I:2554:U:C6	2.51	0.45
9:I:2707:A:N9	9:I:2731:A:C2	2.84	0.45
9:I:2932:U:H2'	9:I:2933:A:H8	1.82	0.45
9:I:2953:G:C2'	9:I:2955:C:C5	2.99	0.45
9:I:3023:G:C2	9:I:3024:G:C8	3.05	0.45
9:I:3038:A:C2'	9:I:3039:A:H5'	2.46	0.45
9:I:3044:C:N3	9:I:3045:A:C5	2.85	0.45
9:I:3222:C:H1'	9:I:3227:G:N2	2.32	0.45
9:I:3271:U:C2	9:I:3272:U:C6	3.04	0.45
9:I:3285:A:C3'	11:K:204:LEU:HB2	2.44	0.45
9:I:3313:A:C2'	11:K:177:SER:HA	2.46	0.45
9:I:3315:A:OP2	9:I:3316:C:OP2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3387:C:C6	9:I:3387:C:O5'	2.69	0.45
9:I:3401:G:C2	9:I:3418:C:C2	3.04	0.45
9:I:3507:A:C2	9:I:3508:A:H2	2.34	0.45
9:I:3745:OMG:C2	9:I:3746:G:H1'	2.51	0.45
9:I:3816:A:H61	9:I:3829:A:N6	2.14	0.45
9:I:3912:A:O2'	34:j:17:PHE:C	2.59	0.45
9:I:3963:A:H2'	9:I:3964:G:H5'	1.97	0.45
9:I:4161:C:H2'	15:O:110:HIS:NE2	2.31	0.45
9:I:4177:C:OP1	39:o:55:HIS:CB	2.64	0.45
9:I:4209:C:C2	9:I:4210:C:C5	3.04	0.45
9:I:4324:C:H5''	12:L:59:ARG:NH2	2.30	0.45
10:J:38:A:C6	10:J:39:U:O4	2.69	0.45
10:J:46:C:H6	10:J:46:C:O5'	2.00	0.45
11:K:67:LYS:HG2	11:K:69:ASN:ND2	2.30	0.45
13:M:147:LEU:CB	13:M:183:PHE:HD1	2.30	0.45
14:N:35:LEU:HG	14:N:153:ILE:HG21	1.97	0.45
14:N:103:ILE:CD1	14:N:107:VAL:HG21	2.46	0.45
14:N:132:ARG:O	14:N:148:VAL:HG12	2.17	0.45
15:O:16:VAL:HG13	15:O:24:THR:C	2.39	0.45
15:O:44:HIS:O	15:O:45:ALA:HB3	2.17	0.45
15:O:84:LYS:N	15:O:140:ILE:HD12	2.31	0.45
15:O:151:ARG:CB	15:O:161:VAL:H	2.29	0.45
17:S:12:ASP:CG	17:S:85:VAL:HG13	2.41	0.45
17:S:61:VAL:HG12	17:S:87:LEU:CD2	2.46	0.45
21:W:63:LYS:NZ	21:W:153:GLY:H	2.14	0.45
21:W:205:ARG:HA	21:W:205:ARG:HD2	1.75	0.45
22:X:68:HIS:HA	22:X:103:ALA:O	2.17	0.45
23:Y:13:ARG:HB3	23:Y:62:ARG:HH12	1.80	0.45
23:Y:77:GLU:O	23:Y:81:LEU:HG	2.16	0.45
24:Z:78:GLY:C	24:Z:130:ALA:HB1	2.41	0.45
24:Z:81:THR:HG22	24:Z:82:GLY:H	1.81	0.45
24:Z:83:SER:OG	24:Z:121:SER:O	2.26	0.45
24:Z:85:VAL:HG12	24:Z:130:ALA:HB3	1.97	0.45
26:b:130:LYS:O	26:b:130:LYS:HG3	2.16	0.45
27:c:9:MET:HG3	27:c:13:ILE:CD1	2.46	0.45
27:c:24:VAL:HG12	27:c:60:LEU:HB2	1.98	0.45
27:c:101:ALA:HB1	27:c:127:TYR:HD1	1.81	0.45
30:f:10:HIS:HB3	30:f:73:MET:CE	2.46	0.45
34:j:3:ARG:CD	34:j:23:ASN:HA	2.46	0.45
36:l:58:ILE:HG23	36:l:59:ALA:N	2.31	0.45
39:o:25:VAL:CG2	39:o:60:VAL:HG22	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:o:61:ARG:HD2	39:o:100:ARG:CD	2.46	0.45
40:p:64:ILE:O	40:p:67:ALA:HB3	2.15	0.45
40:p:98:ALA:CA	40:p:102:LYS:HA	2.46	0.45
43:s:12:ARG:CG	43:s:33:LYS:CG	2.93	0.45
43:s:55:VAL:HG11	43:s:86:THR:O	2.17	0.45
44:t:66:VAL:C	44:t:69:VAL:H	2.24	0.45
47:w:36:ARG:O	47:w:36:ARG:CG	2.65	0.45
49:y:6:ILE:HG23	49:y:56:VAL:HA	1.99	0.45
49:y:54:VAL:HG23	49:y:54:VAL:O	2.16	0.45
1:A:9:GLU:CD	1:A:12:ARG:HH11	2.24	0.45
1:A:18:LYS:HG2	1:A:23:ARG:HH22	1.82	0.45
4:D:68:LYS:CD	9:I:253:G:C8	2.98	0.45
8:H:34:ARG:NH1	30:f:109:CYS:CB	2.80	0.45
9:I:49:A:O3'	9:I:51:C:H5'	2.16	0.45
9:I:234:C:H42	9:I:235:A:H62	1.64	0.45
9:I:442:C:O5'	9:I:442:C:H6	1.98	0.45
9:I:569:G:H2'	9:I:570:U:C5	2.52	0.45
9:I:659:C:C2	9:I:745:A:N6	2.85	0.45
9:I:738:C:H2'	9:I:739:U:H5'	1.94	0.45
9:I:741:G:C4	9:I:742:A:C8	3.05	0.45
9:I:820:G:H2'	9:I:821:U:H6	1.80	0.45
9:I:910:U:C2	9:I:911:C:C5	3.04	0.45
9:I:926:G:N1	9:I:1389:U:N3	2.15	0.45
9:I:974:A:N3	9:I:974:A:H2'	2.31	0.45
9:I:1123:G:N2	9:I:1124:U:O4	2.50	0.45
9:I:1147:U:H5'	28:d:4:TYR:OH	2.16	0.45
9:I:1150:A:C1'	29:e:37:PRO:CG	2.93	0.45
9:I:1183:G:C2	9:I:1184:G:C8	3.04	0.45
9:I:1319:C:O2'	9:I:1320:U:H5'	2.16	0.45
9:I:1340:U:H2'	9:I:1341:C:H6	1.82	0.45
9:I:1380:U:H2'	9:I:1381:C:C5	2.52	0.45
9:I:1496:A:H2'	9:I:1497:C:O4'	2.17	0.45
9:I:1496:A:N1	9:I:1504:U:C4	2.84	0.45
9:I:1517:G:C6	9:I:2024:G:C6	3.04	0.45
9:I:1556:A:H4'	9:I:1627:A:N7	2.30	0.45
9:I:1562:U:H1'	9:I:1563:A:N7	2.31	0.45
9:I:1588:G:C4	9:I:1589:A:N7	2.84	0.45
9:I:1792:U:O2'	9:I:1793:U:C5'	2.63	0.45
9:I:1872:G:H8	47:w:60:LYS:CE	2.30	0.45
9:I:2000:G:H21	9:I:2005:A:H62	1.63	0.45
9:I:2054:U:H2'	9:I:2055:G:C5'	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2156:G:C4	9:I:2157:U:C5	3.04	0.45
9:I:2219:C:H3'	9:I:2220:U:C5	2.50	0.45
9:I:2308:G:C2	9:I:2309:G:C5	3.05	0.45
9:I:2313:U:O2'	9:I:2314:C:H5'	2.17	0.45
9:I:2529:U:O2'	9:I:2530:G:H5'	2.17	0.45
9:I:2662:G:C4	9:I:2663:A:N7	2.85	0.45
9:I:2803:G:C6	9:I:2804:G:C5	3.04	0.45
9:I:2910:G:C2	9:I:3077:A:H1'	2.51	0.45
9:I:2984:A:C6	11:K:97:ASP:HA	2.51	0.45
9:I:3019:A:O2'	9:I:3020:C:C5'	2.64	0.45
9:I:3061:G:N1	11:K:82:TYR:HB3	2.30	0.45
9:I:3092:A:C5	9:I:3093:U:C5	3.04	0.45
9:I:3155:G:H2'	9:I:3156:U:O4'	2.16	0.45
9:I:3587:G:C2	9:I:3588:A:C8	3.04	0.45
9:I:3634:G:C6	9:I:3646:G:C5	3.04	0.45
9:I:3756:U:O4'	9:I:3821:A:C2	2.70	0.45
9:I:3791:A:H2'	9:I:3816:A:C1'	2.39	0.45
9:I:3832:C:O2	9:I:3832:C:H2'	2.16	0.45
9:I:3895:U:O5'	9:I:3895:U:H6	1.98	0.45
9:I:3960:C:C2'	9:I:3961:C:O5'	2.65	0.45
9:I:4010:A:C2'	9:I:4011:C:H5'	2.47	0.45
9:I:4027:U:H5'	9:I:4158:G:O2'	2.16	0.45
9:I:4032:C:H1'	37:m:1:MET:N	2.31	0.45
9:I:4042:U:O2	17:S:23:LYS:HE2	2.16	0.45
9:I:4046:OMU:H2'	9:I:4046:OMU:O2	2.15	0.45
9:I:4308:A:C3'	9:I:4309:C:C5	2.99	0.45
9:I:4406:A:H5'	9:I:4408:G:N7	2.31	0.45
10:J:14:A:C2'	10:J:15:G:H5'	2.44	0.45
10:J:15:G:C2	10:J:67:C:O2	2.68	0.45
10:J:45:A:C3'	10:J:46:C:C5	2.95	0.45
11:K:118:GLY:O	11:K:121:ALA:CB	2.64	0.45
11:K:119:VAL:CG2	11:K:130:PRO:HD2	2.46	0.45
11:K:128:THR:CG2	11:K:129:LEU:N	2.78	0.45
11:K:153:LEU:HD11	11:K:175:LEU:HD13	1.98	0.45
13:M:5:LEU:HD11	13:M:122:GLU:N	2.31	0.45
13:M:18:THR:CA	13:M:106:LYS:O	2.50	0.45
13:M:124:PHE:O	13:M:150:THR:CG2	2.65	0.45
14:N:68:LYS:HG3	14:N:83:PRO:HA	1.98	0.45
14:N:111:ARG:HH22	14:N:131:VAL:HB	1.80	0.45
15:O:5:LYS:CA	15:O:5:LYS:HE3	2.46	0.45
15:O:5:LYS:CE	15:O:5:LYS:HA	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:4:PHE:CA	40:p:100:PHE:CZ	2.98	0.45
16:R:7:LYS:HB3	16:R:10:THR:HG23	1.98	0.45
16:R:115:GLY:N	16:R:118:MET:CE	2.80	0.45
17:S:75:SER:OG	39:o:71:ARG:CZ	2.62	0.45
18:T:132:ARG:CZ	18:T:142:ILE:HG21	2.46	0.45
19:U:46:ILE:O	19:U:103:TYR:OH	2.33	0.45
20:V:10:LEU:CB	20:V:12:ARG:HH11	2.25	0.45
20:V:19:ALA:CA	20:V:22:ARG:HD3	2.47	0.45
20:V:45:ARG:CB	20:V:49:GLU:OE2	2.59	0.45
21:W:163:ALA:CB	21:W:170:ILE:HD11	2.46	0.45
22:X:27:GLU:O	22:X:27:GLU:HG2	2.16	0.45
23:Y:3:TYR:HE2	23:Y:7:LYS:HD3	1.82	0.45
24:Z:117:LYS:HD2	24:Z:118:ALA:H	1.82	0.45
27:c:103:VAL:HG23	27:c:123:GLU:O	2.17	0.45
28:d:45:VAL:O	28:d:48:PRO:HD2	2.16	0.45
30:f:40:PHE:HB3	30:f:44:ARG:CG	2.45	0.45
39:o:62:LYS:CE	39:o:64:SER:OG	2.65	0.45
40:p:45:ALA:HA	40:p:48:ASP:OD2	2.17	0.45
41:q:97:LYS:HD3	41:q:99:THR:HG22	1.97	0.45
44:t:40:LEU:HD23	44:t:60:LYS:CA	2.46	0.45
44:t:51:LEU:N	44:t:53:GLN:NE2	2.65	0.45
44:t:84:PHE:O	44:t:85:ARG:CG	2.63	0.45
49:y:5:LYS:HZ3	49:y:36:GLU:N	2.14	0.45
4:D:20:VAL:HB	4:D:41:LEU:O	2.17	0.45
4:D:71:THR:HG22	4:D:72:LEU:N	2.32	0.45
7:G:64:LEU:HD23	7:G:64:LEU:H	1.81	0.45
8:H:3:ILE:CD1	30:f:74:VAL:HG23	2.47	0.45
8:H:40:PRO:CD	30:f:110:ARG:NH2	2.80	0.45
9:I:40:G:C6	9:I:401:G:N1	2.84	0.45
9:I:149:U:O2'	9:I:150:A:H5'	2.16	0.45
9:I:282:U:C2	9:I:283:C:C5	3.03	0.45
9:I:400:C:O2'	9:I:620:A:C2'	2.65	0.45
9:I:458:A:C6	9:I:473:G:C6	3.05	0.45
9:I:540:G:O2'	23:Y:38:GLY:HA2	2.16	0.45
9:I:553:A:H2'	9:I:554:U:C5	2.51	0.45
9:I:569:G:H2'	9:I:570:U:H6	1.72	0.45
9:I:981:U:C4'	9:I:982:A:O4'	2.64	0.45
9:I:1156:A:N6	9:I:1176:G:N2	2.65	0.45
9:I:1249:A:H2'	9:I:1250:A:C8	2.51	0.45
9:I:1425:G:H2'	9:I:1426:C:C6	2.51	0.45
9:I:1458:G:C2	9:I:4350:G:C2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1484:C:C2	9:I:1485:C:C5	3.03	0.45
9:I:1724:U:H2'	9:I:1725:C:C6	2.51	0.45
9:I:1761:G:N3	9:I:1762:A:C8	2.84	0.45
9:I:1765:A:C6	9:I:1928:A:N7	2.85	0.45
9:I:1852:A:C5	9:I:1853:C:N4	2.85	0.45
9:I:1872:G:C2	9:I:1900:G:C4	3.05	0.45
9:I:1922:A:O2'	9:I:1923:A:O4'	2.31	0.45
9:I:1983:A:O2'	44:t:55:GLY:C	2.60	0.45
9:I:1986:C:H2'	9:I:1987:C:C6	2.49	0.45
9:I:2010:C:O2'	9:I:2011:U:C5'	2.61	0.45
9:I:2045:U:C4	9:I:2047:A:H4'	2.51	0.45
9:I:2047:A:N1	9:I:2049:G:C2	2.84	0.45
9:I:2072:A:C5	9:I:2073:U:C2	3.04	0.45
9:I:2139:U:H2'	9:I:2140:C:N1	2.28	0.45
9:I:2175:A:O3'	13:M:62:GLN:OE1	2.34	0.45
9:I:2347:U:O2	9:I:2428:U:C6	2.70	0.45
9:I:2359:G:N2	9:I:2410:G:H2'	2.31	0.45
9:I:2369:G:C8	9:I:2370:U:C5	3.05	0.45
9:I:2473:A:H61	9:I:2479:C:N4	2.14	0.45
9:I:2478:A:H2'	9:I:2478:A:N3	2.30	0.45
9:I:2504:A:H3'	9:I:2504:A:C8	2.52	0.45
9:I:2508:A:C6	9:I:2643:G:C5	3.04	0.45
9:I:2536:G:O5'	9:I:2537:C:H5	2.00	0.45
9:I:2550:G:C4'	9:I:2580:A:H8	2.20	0.45
9:I:2578:A:O2'	9:I:2579:A:P	2.74	0.45
9:I:2636:A:C8	9:I:2638:A:C8	3.05	0.45
9:I:2671:G:H2'	9:I:2672:C:H1'	1.98	0.45
9:I:2790:G:C2'	9:I:2791:C:O5'	2.64	0.45
9:I:2807:U:O2'	9:I:2808:C:P	2.74	0.45
9:I:2844:C:H2'	9:I:2845:C:C5'	2.47	0.45
9:I:2961:U:C4	9:I:3040:G:N2	2.85	0.45
9:I:2963:A:N6	9:I:3015:G:H2'	2.32	0.45
9:I:2987:C:OP1	9:I:2989:A:N6	2.49	0.45
9:I:3017:U:O2'	9:I:3018:G:C4'	2.59	0.45
9:I:3146:A:H5''	9:I:3147:G:P	2.57	0.45
9:I:3158:A:H2'	17:S:67:LYS:HZ1	1.82	0.45
9:I:3184:A:C5'	9:I:3185:C:OP2	2.60	0.45
9:I:3220:C:N4	9:I:3229:A:N6	2.64	0.45
9:I:3233:A:OP1	9:I:3234:G:N7	2.49	0.45
9:I:3251:A:OP1	9:I:3251:A:H8	1.97	0.45
9:I:3270:G:C2	9:I:3271:U:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3286:G:N1	9:I:3321:U:C2	2.72	0.45
9:I:3315:A:C5'	11:K:156:SER:HB2	2.47	0.45
9:I:3413:A:C6	9:I:3414:C:HI'	2.52	0.45
9:I:4317:A:H2'	9:I:4318:C:O4'	2.16	0.45
9:I:4320:A:C2	9:I:4321:C:C6	3.05	0.45
10:J:13:U:C4	10:J:70:C:O2	2.69	0.45
10:J:55:G:O4'	10:J:56:A:N7	2.49	0.45
10:J:68:G:C6	10:J:69:C:C2	3.04	0.45
10:J:73:U:C4	10:J:74:G:C5	3.04	0.45
10:J:96:C:C2'	10:J:96:C:O2	2.62	0.45
11:K:2:VAL:HG22	11:K:18:VAL:CB	2.46	0.45
11:K:134:ILE:HG22	11:K:135:PRO:O	2.16	0.45
11:K:138:SER:HB3	11:K:191:LEU:HD11	1.98	0.45
11:K:153:LEU:CD1	11:K:175:LEU:HB3	2.44	0.45
12:L:12:THR:HG21	12:L:14:ILE:HD11	1.99	0.45
12:L:15:PHE:HB2	39:o:11:GLN:OE1	2.16	0.45
12:L:146:ILE:HB	12:L:159:LYS:HZ1	1.82	0.45
13:M:18:THR:CG2	13:M:106:LYS:HA	2.46	0.45
14:N:33:ILE:HD12	14:N:98:PHE:CD2	2.51	0.45
16:R:34:ARG:NH2	16:R:142:ILE:HD11	2.31	0.45
17:S:40:LYS:CA	17:S:59:LYS:HG3	2.41	0.45
17:S:46:ALA:HB2	17:S:52:VAL:HG13	1.98	0.45
18:T:94:THR:O	18:T:97:ALA:HB3	2.15	0.45
18:T:102:GLY:O	18:T:105:ILE:HG22	2.16	0.45
21:W:93:TRP:NE1	21:W:168:ILE:HG22	2.31	0.45
22:X:56:ILE:HG12	22:X:65:VAL:HG13	1.97	0.45
23:Y:112:GLU:OE2	23:Y:153:ARG:HD2	2.16	0.45
32:h:5:GLY:HA2	32:h:65:GLU:HG3	1.98	0.45
32:h:89:ARG:CG	32:h:96:VAL:HA	2.45	0.45
34:j:22:LYS:NZ	34:j:29:GLU:O	2.50	0.45
38:n:35:TYR:HA	38:n:51:SER:CB	2.46	0.45
39:o:13:LYS:CE	39:o:80:VAL:O	2.64	0.45
39:o:52:ARG:H	39:o:56:SER:HG	1.54	0.45
42:r:69:LEU:CD2	42:r:108:SER:CA	2.94	0.45
44:t:44:HIS:CA	44:t:57:ILE:HG23	2.46	0.45
45:u:35:GLU:H	45:u:35:GLU:CD	2.20	0.45
46:v:27:ILE:HG21	46:v:70:ILE:CD1	2.38	0.45
48:x:36:LEU:CD2	48:x:42:LEU:HD11	2.47	0.45
1:A:81:ILE:HG12	29:e:51:PRO:O	2.16	0.45
2:B:14:PHE:O	2:B:25:GLU:HB2	2.17	0.45
2:B:66:LEU:CD2	2:B:84:LEU:HD21	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:72:ALA:HB1	3:C:76:LYS:NZ	2.30	0.45
4:D:59:ARG:NH2	4:D:60:GLU:O	2.42	0.45
6:F:8:PHE:C	6:F:9:ILE:HD12	2.42	0.45
9:I:98:C:O2'	9:I:99:G:H5'	2.16	0.45
9:I:161:A:H8	9:I:161:A:O5'	1.99	0.45
9:I:212:G:C2	9:I:213:C:H1'	2.51	0.45
9:I:374:U:C2	9:I:375:G:C8	3.04	0.45
9:I:416:G:H2'	9:I:417:C:H6	1.82	0.45
9:I:445:G:H2'	9:I:446:G:O4'	2.16	0.45
9:I:670:G:C2	9:I:735:C:C2	3.05	0.45
9:I:705:A:H2	30:f:29:ALA:CB	2.30	0.45
9:I:794:C:C6	9:I:795:C:H5	2.34	0.45
9:I:951:U:C5'	9:I:971:C:H41	2.27	0.45
9:I:972:G:H4'	29:e:48:LEU:HD12	1.98	0.45
9:I:1100:A:H61	21:W:99:THR:CB	2.29	0.45
9:I:1207:C:C4	9:I:1208:C:C4	3.04	0.45
9:I:1269:G:O2'	9:I:1312:U:O3'	2.34	0.45
9:I:1306:U:H2'	9:I:1307:U:C2	2.50	0.45
9:I:1311:G:C6	9:I:1312:U:C4	3.04	0.45
9:I:1405:U:C2	9:I:1406:5MC:C6	3.05	0.45
9:I:1434:G:H2'	9:I:1434:G:N3	2.31	0.45
9:I:1497:C:H5'	9:I:1498:C:OP2	2.16	0.45
9:I:1584:A:C6	9:I:1598:G:O2'	2.69	0.45
9:I:1658:U:H3'	9:I:1659:G:C8	2.51	0.45
9:I:1665:A:C2'	9:I:1666:U:O4'	2.59	0.45
9:I:1726:A:C2	9:I:1727:A:C2	3.05	0.45
9:I:1768:C:C2	9:I:1925:G:N1	2.85	0.45
9:I:1770:A:C5	9:I:1868:A:C2	3.05	0.45
9:I:1817:G:C2'	9:I:1818:C:O5'	2.63	0.45
9:I:1844:A:H8	9:I:1844:A:OP2	1.99	0.45
9:I:1857:C:C2'	9:I:1858:U:H6	2.13	0.45
9:I:1858:U:O2	9:I:1858:U:H2'	2.17	0.45
9:I:1910:G:C5'	9:I:1911:G:H5'	2.35	0.45
9:I:1982:A:P	44:t:46:LYS:HZ1	2.27	0.45
9:I:2051:G:C5	9:I:2052:U:C5	3.04	0.45
9:I:2133:A:H3'	9:I:2134:C:H5'	1.97	0.45
9:I:2164:G:C2	9:I:2165:U:C6	3.05	0.45
9:I:2184:G:C6	9:I:2274:G:C2	3.05	0.45
9:I:2302:A:C4	9:I:2303:U:C5	3.05	0.45
9:I:2346:U:C6	9:I:2347:U:H6	2.35	0.45
9:I:2427:A:H5'	9:I:2428:U:OP2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2434:G:C2'	9:I:2435:A:H5''	2.36	0.45
9:I:2444:G:H2'	9:I:2445:C:H6	1.80	0.45
9:I:2791:C:H2'	9:I:2792:C:H6	1.82	0.45
9:I:3003:A:N3	9:I:3004:G:O4'	2.48	0.45
9:I:3101:C:O2	9:I:3115:U:C4	2.69	0.45
9:I:3166:A:C2	9:I:3167:G:C4	3.05	0.45
9:I:3201:G:C2	9:I:3246:C:O2	2.69	0.45
9:I:3224:C:H4'	9:I:3224:C:OP1	2.17	0.45
9:I:3291:G:N1	9:I:3317:G:N7	2.64	0.45
9:I:3304:A:OP2	9:I:3304:A:H3'	2.17	0.45
9:I:3340:G:C2	9:I:3341:A:C4	3.05	0.45
9:I:3585:C:H5''	9:I:3586:U:C2'	2.47	0.45
9:I:3786:U:C6	9:I:3835:G:N2	2.84	0.45
9:I:3787:G:O2'	38:n:97:GLN:NE2	2.28	0.45
9:I:3812:G:H3'	9:I:3812:G:C8	2.51	0.45
9:I:3819:G:C3'	9:I:3820:C:C5'	2.95	0.45
9:I:3824:G:C2	9:I:3825:G:C4	3.04	0.45
9:I:3826:C:O2'	9:I:3829:A:C2'	2.65	0.45
9:I:3874:C:H2'	9:I:3875:A:C8	2.51	0.45
9:I:4013:U:H2'	9:I:4035:A:H61	1.81	0.45
9:I:4209:C:H2'	9:I:4210:C:C6	2.50	0.45
9:I:4274:G:OP2	16:R:120:ARG:NH2	2.49	0.45
9:I:4324:C:P	12:L:59:ARG:NH1	2.89	0.45
9:I:4428:C:H5''	30:f:110:ARG:HH22	1.82	0.45
10:J:22:G:C6	10:J:23:G:C6	3.05	0.45
10:J:74:G:O4'	45:u:29:ILE:CD1	2.65	0.45
11:K:96:LYS:C	11:K:98:GLY:H	2.24	0.45
11:K:144:GLU:CG	11:K:188:ARG:H	2.29	0.45
11:K:202:ARG:HH21	11:K:209:ALA:HB1	1.81	0.45
12:L:110:THR:C	12:L:201:LEU:HA	2.41	0.45
12:L:111:GLY:N	12:L:170:VAL:H	2.14	0.45
12:L:112:THR:O	12:L:195:GLY:CA	2.65	0.45
13:M:19:PHE:CE1	13:M:109:LEU:CG	2.99	0.45
13:M:57:LYS:HD2	13:M:57:LYS:C	2.41	0.45
14:N:3:LEU:HG	14:N:100:GLU:CG	2.47	0.45
14:N:35:LEU:O	14:N:87:LYS:CB	2.61	0.45
14:N:68:LYS:HB3	14:N:82:TYR:N	2.31	0.45
14:N:111:ARG:HD3	14:N:111:ARG:N	2.31	0.45
16:R:4:PHE:HB2	40:p:100:PHE:CE2	2.52	0.45
16:R:53:TYR:HD1	16:R:123:LYS:NZ	2.07	0.45
17:S:20:MET:HB2	17:S:44:LYS:CE	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:57:LEU:O	18:T:60:ARG:N	2.42	0.45
18:T:92:LEU:O	18:T:96:LYS:HE3	2.16	0.45
18:T:122:VAL:O	18:T:143:GLU:CG	2.64	0.45
19:U:34:LYS:CE	19:U:101:VAL:CG2	2.95	0.45
21:W:123:PHE:CE2	21:W:126:LEU:HD21	2.51	0.45
21:W:162:ASP:CA	21:W:201:ASP:HB2	2.47	0.45
22:X:180:ASP:O	22:X:203:LYS:N	2.43	0.45
23:Y:18:LEU:HD13	23:Y:62:ARG:CB	2.26	0.45
23:Y:79:ALA:HA	23:Y:85:THR:OG1	2.16	0.45
23:Y:105:GLY:HA2	23:Y:164:ARG:NH2	2.31	0.45
26:b:4:ARG:O	26:b:4:ARG:HG2	2.17	0.45
26:b:71:THR:O	26:b:95:ARG:NH2	2.49	0.45
29:e:7:LYS:HE3	29:e:65:THR:HG21	1.99	0.45
29:e:48:LEU:CD1	29:e:55:LYS:HZ3	2.25	0.45
30:f:10:HIS:CA	30:f:73:MET:HE3	2.47	0.45
32:h:6:ILE:N	32:h:65:GLU:OE2	2.48	0.45
33:i:3:GLN:OE1	33:i:6:LYS:HA	2.16	0.45
35:k:25:LYS:HA	35:k:28:ARG:CZ	2.46	0.45
36:l:37:THR:HG22	36:l:41:ARG:NH1	2.31	0.45
38:n:17:LEU:HD23	38:n:24:ARG:NE	2.30	0.45
38:n:42:ASN:HD21	38:n:45:GLU:CG	2.29	0.45
38:n:98:TYR:CE2	38:n:103:GLN:HG3	2.50	0.45
39:o:45:VAL:H	39:o:61:ARG:H	1.64	0.45
39:o:99:LEU:C	39:o:102:ARG:HG2	2.42	0.45
42:r:29:VAL:HB	42:r:69:LEU:O	2.17	0.45
42:r:58:ALA:C	42:r:63:GLY:HA3	2.42	0.45
42:r:63:GLY:O	42:r:64:ALA:HB3	2.16	0.45
44:t:39:ASN:HB3	44:t:62:ALA:CB	2.46	0.45
46:v:36:HIS:CD2	46:v:67:ARG:HG2	2.52	0.45
46:v:36:HIS:CB	46:v:69:PHE:CD1	3.00	0.45
46:v:67:ARG:HB3	46:v:69:PHE:HE1	1.81	0.45
47:w:54:GLY:HA2	47:w:57:VAL:CG2	2.47	0.45
47:w:55:MET:CA	47:w:58:ILE:HB	2.47	0.45
48:x:22:ARG:HD2	48:x:23:GLU:N	2.31	0.45
1:A:84:ARG:CD	29:e:51:PRO:N	2.78	0.45
3:C:1:MET:HE3	9:I:132:U:C2'	2.47	0.45
3:C:70:ARG:HB2	9:I:376:G:OP1	2.16	0.45
4:D:18:ILE:HG13	4:D:19:VAL:O	2.17	0.45
5:E:20:ILE:HB	9:I:717:A:N1	2.28	0.45
7:G:22:ARG:O	7:G:26:MET:CG	2.65	0.45
7:G:62:LYS:O	7:G:62:LYS:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:13:U:H2'	9:I:15:A:OP2	2.16	0.45
9:I:14:G:C1'	24:Z:20:ARG:HE	2.29	0.45
9:I:50:A:O5'	9:I:51:C:H5'	2.16	0.45
9:I:80:A:P	9:I:82:C:H41	2.34	0.45
9:I:87:U:H2'	9:I:88:U:H5'	1.97	0.45
9:I:124:U:H3'	9:I:125:G:H8	1.80	0.45
9:I:252:A:C2'	9:I:253:G:OP1	2.64	0.45
9:I:344:C:H5'	9:I:345:G:C8	2.52	0.45
9:I:480:G:C1'	9:I:482:C:N4	2.80	0.45
9:I:550:U:O2'	31:g:82:ARG:NH1	2.49	0.45
9:I:564:U:O5'	9:I:564:U:H6	1.99	0.45
9:I:595:A:C4	9:I:596:G:C8	3.05	0.45
9:I:616:G:C6	9:I:617:C:C5	3.05	0.45
9:I:643:U:N3	9:I:644:G:C8	2.85	0.45
9:I:723:G:N2	9:I:732:G:H22	2.14	0.45
9:I:788:U:O2	9:I:791:A:H8	2.00	0.45
9:I:898:C:H2'	9:I:899:A:C8	2.51	0.45
9:I:966:5MC:HM53	9:I:967:A:HO2'	1.82	0.45
9:I:1203:A:O2'	9:I:1204:U:H5'	2.17	0.45
9:I:1221:G:O2'	9:I:1222:C:H5'	2.17	0.45
9:I:1509:G:C2'	9:I:4294:A:N6	2.80	0.45
9:I:1593:G:C2'	9:I:1594:A:C5'	2.95	0.45
9:I:1656:A:N1	9:I:1671:U:C4	2.85	0.45
9:I:1766:G:H2'	9:I:1767:C:O4'	2.17	0.45
9:I:1772:A:N1	9:I:1773:G:C8	2.85	0.45
9:I:1809:A:H4'	44:t:16:LYS:N	2.29	0.45
9:I:1894:C:H2'	9:I:1895:U:H6	1.81	0.45
9:I:2042:C:H4'	9:I:2043:G:OP1	2.16	0.45
9:I:2127:A:C6	9:I:2137:A:C8	3.05	0.45
9:I:2213:G:H2'	9:I:2214:U:H5'	1.98	0.45
9:I:2225:G:C2'	9:I:2226:G:O4'	2.65	0.45
9:I:2295:C:C2	9:I:2296:C:C5	3.05	0.45
9:I:2312:C:H1'	9:I:2744:G:N2	2.31	0.45
9:I:2319:A:OP2	9:I:2681:G:N2	2.50	0.45
9:I:2322:G:H2'	9:I:2323:C:H6	1.81	0.45
9:I:2357:G:H2'	9:I:2358:G:H8	1.74	0.45
9:I:2372:U:H6	9:I:2372:U:P	2.38	0.45
9:I:2501:C:C6	9:I:2502:A:C8	3.04	0.45
9:I:2532:G:C4	9:I:2533:A:N7	2.85	0.45
9:I:2623:A:C2'	9:I:2624:U:OP2	2.63	0.45
9:I:2850:G:C6	9:I:2851:C:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2899:U:H2'	9:I:2900:U:H1'	1.94	0.45
9:I:2916:G:C6	9:I:2917:G:C5	3.05	0.45
9:I:3009:A:C2'	9:I:3050:C:H2'	2.42	0.45
9:I:3056:U:H2'	9:I:3057:U:H6	1.80	0.45
9:I:3182:U:O2'	9:I:3183:A:C8	2.69	0.45
9:I:3204:G:C2	9:I:3205:A:C8	3.05	0.45
9:I:3205:A:H2'	9:I:3206:U:O5'	2.17	0.45
9:I:3221:C:H3'	9:I:3222:C:C6	2.52	0.45
9:I:3247:G:N7	9:I:3249:A:OP2	2.50	0.45
9:I:3424:G:O2'	9:I:3462:G:C6	2.63	0.45
9:I:3429:G:H3'	9:I:3456:5MC:N4	2.00	0.45
9:I:3495:C:H1'	9:I:4183:U:H3	1.81	0.45
9:I:3662:G:C2'	9:I:3663:A:O5'	2.65	0.45
9:I:3696:U:H5''	9:I:3697:U:OP1	2.16	0.45
9:I:3778:A:C1'	9:I:3819:G:N2	2.75	0.45
9:I:3784:G:N3	9:I:3784:G:C2'	2.77	0.45
9:I:3810:G:C2'	9:I:3811:A:C1'	2.92	0.45
9:I:3890:G:N3	9:I:3890:G:H2'	2.31	0.45
9:I:4024:A:C2'	9:I:4028:A:H61	2.29	0.45
9:I:4130:C:H1'	12:L:38:LYS:HZ1	1.81	0.45
9:I:4192:U:C2	9:I:4193:C:C5	3.04	0.45
9:I:4213:G:H4'	9:I:4340:G:H4'	1.98	0.45
9:I:4216:G:C5	9:I:4217:C:C5	3.04	0.45
9:I:4257:G:C5'	9:I:4258:A:OP2	2.64	0.45
9:I:4345:A:C6	9:I:4346:G:C6	3.05	0.45
10:J:71:G:HO2'	10:J:72:A:P	2.39	0.45
11:K:9:SER:O	11:K:12:ARG:CB	2.65	0.45
12:L:2:ILE:N	12:L:100:LEU:HD21	2.32	0.45
12:L:6:GLY:C	12:L:200:ASP:OD1	2.59	0.45
12:L:112:THR:O	12:L:195:GLY:HA3	2.16	0.45
13:M:7:ASP:CG	13:M:122:GLU:HG3	2.40	0.45
13:M:16:GLU:HG2	13:M:21:ARG:HH12	1.81	0.45
13:M:19:PHE:CE1	13:M:109:LEU:HG	2.52	0.45
13:M:119:ILE:HB	13:M:187:VAL:HA	1.99	0.45
13:M:170:ARG:NH1	13:M:176:ASP:OD1	2.34	0.45
14:N:121:PHE:CE1	14:N:169:LEU:HD12	2.52	0.45
15:O:16:VAL:HG12	15:O:18:ILE:HG12	1.99	0.45
15:O:37:ASN:HB3	15:O:63:GLN:HG3	1.99	0.45
15:O:51:PHE:C	15:O:64:ALA:CB	2.89	0.45
15:O:72:ASN:HA	15:O:75:VAL:CB	2.34	0.45
16:R:8:PRO:CA	16:R:11:VAL:HG23	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:28:LEU:O	16:R:28:LEU:HD12	2.16	0.45
16:R:36:LEU:CD2	16:R:121:LYS:HB2	2.44	0.45
16:R:58:ASN:OD1	16:R:128:ASN:HA	2.16	0.45
17:S:61:VAL:CG2	17:S:107:LEU:HD12	2.46	0.45
19:U:96:ILE:HD13	19:U:100:LYS:NZ	2.26	0.45
21:W:200:ASN:ND2	21:W:203:ALA:HB2	2.32	0.45
22:X:180:ASP:HB3	22:X:203:LYS:C	2.42	0.45
24:Z:22:PHE:O	24:Z:45:ARG:CD	2.65	0.45
24:Z:83:SER:HB2	24:Z:127:VAL:HA	1.98	0.45
24:Z:142:GLU:HA	24:Z:145:ALA:CB	2.46	0.45
25:a:78:PHE:CE1	25:a:84:VAL:HG21	2.51	0.45
26:b:5:VAL:HG12	26:b:6:ILE:N	2.32	0.45
27:c:103:VAL:O	27:c:110:MET:N	2.44	0.45
28:d:58:LEU:C	28:d:58:LEU:HD12	2.42	0.45
29:e:28:THR:OG1	29:e:79:THR:HG23	2.17	0.45
32:h:46:GLU:OE1	32:h:46:GLU:HA	2.17	0.45
33:i:40:HIS:N	33:i:48:TYR:CE1	2.85	0.45
34:j:36:PHE:CD1	34:j:42:GLN:C	2.94	0.45
39:o:92:ARG:CZ	39:o:112:ARG:HH22	2.30	0.45
40:p:54:ARG:CA	40:p:57:ARG:HG2	2.47	0.45
41:q:37:GLU:O	41:q:37:GLU:CG	2.64	0.45
42:r:74:ILE:CD1	42:r:105:VAL:HG23	2.47	0.45
44:t:5:ARG:CZ	44:t:93:ARG:HD3	2.45	0.45
44:t:11:ILE:O	44:t:69:VAL:HA	2.17	0.45
46:v:13:VAL:CB	46:v:16:PHE:HE1	2.29	0.45
46:v:50:PHE:O	46:v:52:LYS:HG3	2.17	0.45
48:x:27:LEU:C	48:x:29:MET:N	2.73	0.45
1:A:4:SER:N	9:I:1214:G:C3'	2.80	0.45
1:A:89:ARG:HG3	9:I:1057:G:O2'	2.16	0.45
2:B:88:ARG:NE	9:I:2213:G:C5	2.83	0.45
3:C:57:ILE:HD12	3:C:75:ILE:CD1	2.47	0.45
4:D:9:VAL:HG21	4:D:51:GLY:O	2.17	0.45
4:D:14:MET:O	9:I:272:U:C6	2.70	0.45
6:F:34:ARG:NH2	6:F:73:ALA:HB3	2.31	0.45
8:H:15:LEU:HG	30:f:85:ILE:HD11	1.99	0.45
9:I:100:A:H2	9:I:151:A:O2'	2.00	0.45
9:I:108:A:N6	9:I:323:G:H21	2.13	0.45
9:I:170:A:H2'	9:I:171:A:H8	1.79	0.45
9:I:254:G:N1	9:I:271:C:C4	2.84	0.45
9:I:471:U:H2'	9:I:472:U:H6	1.79	0.45
9:I:486:A:H3'	9:I:487:C:C6	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:522:A:N6	31:g:88:D2T:OD2	2.50	0.45
9:I:648:A:C2'	9:I:649:G:H5''	2.46	0.45
9:I:663:G:H21	9:I:726:G:P	2.37	0.45
9:I:704:G:C2	9:I:705:A:H1'	2.52	0.45
9:I:960:U:O4	9:I:973:A:N1	2.49	0.45
9:I:977:A:H4'	9:I:1321:C:O2	2.17	0.45
9:I:1011:A:H2'	9:I:1012:G:O4'	2.16	0.45
9:I:1011:A:O2'	9:I:1012:G:H5'	2.16	0.45
9:I:1125:U:C4	29:e:38:LEU:HD21	2.52	0.45
9:I:1250:A:C2	9:I:1251:A:C4	3.05	0.45
9:I:1488:G:C2	9:I:4301:U:H1'	2.52	0.45
9:I:1524:G:C5	9:I:1525:U:C4	3.05	0.45
9:I:1578:U:H5''	48:x:3:LYS:HZ3	1.78	0.45
9:I:1580:G:N1	9:I:1607:G:C6	2.85	0.45
9:I:1660:A:C6	9:I:1661:A:N6	2.85	0.45
9:I:1778:A:C1'	9:I:1862:A:H1'	2.45	0.45
9:I:1808:G:N1	9:I:2001:A:C5	2.84	0.45
9:I:1850:G:N7	9:I:1851:C:N4	2.65	0.45
9:I:1922:A:C5	9:I:1923:A:C6	3.04	0.45
9:I:1982:A:O2'	44:t:44:HIS:CE1	2.70	0.45
9:I:1999:U:C5'	44:t:42:LYS:HE3	2.44	0.45
9:I:2192:C:C5'	11:K:38:LYS:CD	2.86	0.45
9:I:2195:G:O2'	9:I:2196:G:H5'	2.15	0.45
9:I:2344:A:C2	9:I:2429:C:C2	3.04	0.45
9:I:2357:G:C2'	9:I:2358:G:O5'	2.64	0.45
9:I:2363:A:HO2'	9:I:2364:G:P	2.38	0.45
9:I:2407:U:O2'	9:I:2408:G:H5''	2.17	0.45
9:I:2534:A:C2	9:I:2535:G:C4	3.05	0.45
9:I:2560:U:H6	9:I:2560:U:O5'	2.00	0.45
9:I:2609:G:C4	9:I:2610:G:C8	3.04	0.45
9:I:2674:U:H2'	9:I:2675:U:C5'	2.40	0.45
9:I:2732:G:H2'	9:I:2733:G:C8	2.52	0.45
9:I:2781:A:O2'	9:I:2782:G:O4'	2.30	0.45
9:I:2930:G:N1	9:I:3050:C:C4	2.85	0.45
9:I:3021:G:C2'	9:I:3039:A:H61	2.30	0.45
9:I:3073:A:C2'	9:I:3074:A:O4'	2.65	0.45
9:I:3093:U:C2	9:I:3094:C:H5	2.34	0.45
9:I:3108:A:H62	42:r:91:GLY:HA2	1.82	0.45
9:I:3161:G:C8	9:I:3161:G:OP2	2.68	0.45
9:I:3184:A:H8	9:I:3184:A:OP2	1.99	0.45
9:I:3210:U:H2'	9:I:3211:A:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3214:U:C2	9:I:3234:G:N1	2.82	0.45
9:I:3217:G:OP2	9:I:3218:G:N7	2.50	0.45
9:I:3248:A:C2	9:I:4211:C:H5'	2.52	0.45
9:I:3248:A:C6	9:I:4211:C:O4'	2.69	0.45
9:I:3348:A:C3'	9:I:3349:U:H5'	2.44	0.45
9:I:3349:U:C3'	9:I:3350:U:C6	3.00	0.45
9:I:3362:C:N4	9:I:3368:C:N4	2.65	0.45
9:I:3442:G:C6	9:I:3453:G:C6	3.05	0.45
9:I:3467:G:C2'	9:I:3468:C:O5'	2.64	0.45
9:I:3504:G:O2'	9:I:3505:U:H5'	2.17	0.45
9:I:3749:G:C5	9:I:3750:G:C8	3.05	0.45
9:I:3821:A:C5	9:I:3882:A:C2	3.04	0.45
9:I:3873:G:C2'	9:I:3874:C:O4'	2.64	0.45
9:I:3879:C:H2'	9:I:3880:A:C1'	2.47	0.45
9:I:3980:C:C2'	9:I:3981:G:O5'	2.65	0.45
9:I:4022:U:O2	9:I:4029:G:C6	2.59	0.45
9:I:4058:A:H2'	9:I:4059:A:N9	2.29	0.45
9:I:4131:U:O5'	9:I:4131:U:C6	2.68	0.45
9:I:4155:G:H3'	9:I:4156:A:C8	2.48	0.45
9:I:4155:G:C2'	9:I:4156:A:H8	2.29	0.45
9:I:4243:A:OP1	15:O:1:SER:CB	2.62	0.45
9:I:4317:A:H2'	9:I:4318:C:H6	1.82	0.45
9:I:4325:G:H4'	9:I:4328:G:O2'	2.17	0.45
9:I:4393:G:O2'	9:I:4394:U:H5'	2.16	0.45
9:I:4418:G:C2'	9:I:4419:G:H5'	2.47	0.45
10:J:8:G:H1'	38:n:44:SER:OG	2.17	0.45
10:J:12:G:H4'	10:J:14:A:C4	2.52	0.45
10:J:22:G:C5	10:J:60:G:O6	2.70	0.45
11:K:16:VAL:O	11:K:202:ARG:CG	2.59	0.45
11:K:202:ARG:CZ	11:K:204:LEU:O	2.64	0.45
11:K:251:THR:HG23	11:K:252:LYS:N	2.31	0.45
13:M:19:PHE:O	13:M:110:SER:O	2.34	0.45
14:N:51:ASN:HB3	14:N:149:ARG:HH22	1.80	0.45
14:N:110:ILE:HG12	14:N:136:ILE:CD1	2.46	0.45
15:O:10:VAL:HG12	15:O:75:VAL:HG13	1.98	0.45
15:O:93:TYR:CE2	15:O:151:ARG:CZ	3.00	0.45
17:S:70:ARG:HG3	17:S:71:ARG:N	2.32	0.45
18:T:127:VAL:HG11	18:T:135:ILE:HD11	1.95	0.45
19:U:29:GLY:HA3	19:U:105:MET:CA	2.46	0.45
19:U:38:ARG:HB2	19:U:98:PRO:HD3	1.98	0.45
19:U:96:ILE:HD12	19:U:102:LEU:CD2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:69:ARG:CG	20:V:70:THR:N	2.78	0.45
22:X:74:ILE:HG13	22:X:75:VAL:N	2.32	0.45
22:X:106:ARG:HG2	22:X:107:LYS:NZ	2.30	0.45
22:X:149:LYS:CG	22:X:166:TRP:HB2	2.47	0.45
23:Y:55:ARG:O	23:Y:59:LYS:HB2	2.16	0.45
24:Z:67:LEU:HD12	24:Z:67:LEU:N	2.32	0.45
27:c:115:ALA:O	27:c:118:ALA:N	2.44	0.45
32:h:44:ILE:O	32:h:47:LEU:HD12	2.17	0.45
34:j:12:ALA:HB2	34:j:44:VAL:CG2	2.46	0.45
36:l:30:HIS:C	36:l:32:LEU:HG	2.42	0.45
38:n:14:ARG:HG3	38:n:92:ASP:OD2	2.17	0.45
39:o:49:ILE:H	39:o:95:LYS:HZ2	1.65	0.45
39:o:87:ARG:HD3	39:o:111:GLU:OE2	2.17	0.45
40:p:53:LYS:C	40:p:57:ARG:CZ	2.90	0.45
40:p:81:GLY:HA2	40:p:84:LYS:HB2	1.98	0.45
41:q:26:ASP:O	41:q:27:ILE:CD1	2.61	0.45
44:t:44:HIS:O	44:t:46:LYS:HD3	2.17	0.45
44:t:73:ASN:C	44:t:75:ALA:H	2.24	0.45
45:u:20:LEU:C	45:u:23:ALA:H	2.24	0.45
46:v:14:LYS:HB2	46:v:26:ILE:O	2.17	0.45
48:x:27:LEU:HD13	48:x:27:LEU:HA	1.77	0.45
49:y:11:SER:HA	49:y:31:ILE:HG21	1.98	0.45
1:A:88:MET:HB3	9:I:1058:C:H4'	1.93	0.45
2:B:59:VAL:HG13	9:I:2215:A:H1'	1.98	0.45
5:E:53:ASP:OD1	5:E:53:ASP:N	2.49	0.45
7:G:30:ILE:CG1	7:G:52:MET:HE2	2.46	0.45
9:I:87:U:C2'	9:I:88:U:H5'	2.46	0.45
9:I:291:G:H8	9:I:291:G:O5'	2.00	0.45
9:I:551:U:H5'	31:g:82:ARG:NH1	2.31	0.45
9:I:555:C:O5'	9:I:555:C:H6	2.00	0.45
9:I:593:U:N3	9:I:644:G:N1	2.18	0.45
9:I:599:A:H2'	9:I:600:G:C8	2.50	0.45
9:I:753:C:O2	9:I:753:C:C3'	2.65	0.45
9:I:973:A:H4'	9:I:974:A:O5'	2.16	0.45
9:I:976:A:O2'	9:I:1222:C:N4	2.50	0.45
9:I:977:A:H5'	9:I:1223:U:O4	2.16	0.45
9:I:1127:C:H1'	9:I:1147:U:C4	2.52	0.45
9:I:1150:A:O2'	9:I:1151:A:O5'	2.32	0.45
9:I:1534:U:O2'	9:I:1535:G:P	2.75	0.45
9:I:1616:C:H2'	9:I:1617:G:H8	1.80	0.45
9:I:1639:U:H1'	9:I:1641:G:N2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1665:A:C2'	9:I:1666:U:C6	2.95	0.45
9:I:1672:A:C2	9:I:1673:A:C8	3.05	0.45
9:I:1734:U:O2'	9:I:1735:U:H5'	2.16	0.45
9:I:1766:G:N2	9:I:1927:U:C1'	2.80	0.45
9:I:1789:G:O2'	9:I:1790:U:C5'	2.62	0.45
9:I:1796:U:O3'	44:t:91:LYS:CE	2.65	0.45
9:I:1834:C:C6	9:I:1834:C:O5'	2.69	0.45
9:I:1841:C:C2	9:I:1842:A:C8	3.05	0.45
9:I:1908:G:C3'	9:I:1909:G:H8	2.30	0.45
9:I:1917:C:C3'	9:I:1918:C:H6	2.30	0.45
9:I:1944:C:OP2	13:M:44:ARG:NH1	2.50	0.45
9:I:1998:G:C2	9:I:1999:U:C2	3.04	0.45
9:I:2081:C:C5'	40:p:30:VAL:HG13	2.47	0.45
9:I:2100:G:H2'	9:I:2101:C:O4'	2.17	0.45
9:I:2146:U:O4	9:I:3845:G:C4'	2.64	0.45
9:I:2163:G:C2	9:I:2164:G:H1'	2.51	0.45
9:I:2224:U:C2'	9:I:2225:G:H5'	2.47	0.45
9:I:2372:U:C2	9:I:2373:C:C6	3.04	0.45
9:I:2372:U:C2	9:I:2373:C:C5	3.04	0.45
9:I:2378:A:N6	9:I:2393:A:H1'	2.32	0.45
9:I:2401:G:C5	9:I:2402:C:C4	3.05	0.45
9:I:2537:C:C6	9:I:2537:C:OP2	2.70	0.45
9:I:2634:C:H5''	16:R:24:THR:HG21	1.99	0.45
9:I:2655:C:O2	9:I:2656:G:C8	2.70	0.45
9:I:2712:G:N2	9:I:2726:G:C8	2.85	0.45
9:I:2733:G:C2'	9:I:2734:U:O5'	2.65	0.45
9:I:2976:G:C2	9:I:2977:G:C4	3.05	0.45
9:I:2988:A:H2'	9:I:2989:A:C8	2.51	0.45
9:I:2994:G:C8	9:I:2994:G:OP2	2.70	0.45
9:I:3186:U:H3'	9:I:3188:C:N4	2.32	0.45
9:I:3215:G:H21	9:I:3233:A:H8	1.65	0.45
9:I:3295:A:H2'	9:I:3295:A:P	2.57	0.45
9:I:3309:A:C4'	9:I:3311:G:C1'	2.78	0.45
9:I:3354:G:C2	9:I:3376:U:O2	2.67	0.45
9:I:3358:U:C4	9:I:3359:U:O4	2.70	0.45
9:I:3477:G:C5	9:I:3478:G:N7	2.85	0.45
9:I:3725:U:H2'	9:I:3726:C:C6	2.50	0.45
9:I:3784:G:P	9:I:3878:U:C4'	3.04	0.45
9:I:3966:G:C3'	9:I:3967:U:H5''	2.46	0.45
9:I:4019:G:N1	9:I:4020:G:C5	2.85	0.45
9:I:4023:G:O5'	9:I:4023:G:H8	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4130:C:C2'	12:L:38:LYS:HZ3	2.28	0.45
9:I:4202:G:C2'	9:I:4203:G:H5'	2.46	0.45
9:I:4240:U:H2'	9:I:4241:G:O5'	2.16	0.45
9:I:4241:G:O5'	9:I:4241:G:H8	2.00	0.45
9:I:4318:C:H3'	9:I:4319:G:C2	2.50	0.45
10:J:27:C:H5	38:n:32:ARG:NH1	2.15	0.45
10:J:71:G:O2'	10:J:72:A:P	2.74	0.45
10:J:108:A:C2	10:J:109:C:C2	3.05	0.45
12:L:48:ILE:HG22	12:L:90:PHE:H	1.81	0.45
12:L:109:VAL:CG1	12:L:201:LEU:HD13	2.46	0.45
13:M:14:VAL:CB	13:M:19:PHE:CD2	3.00	0.45
14:N:34:THR:HG21	14:N:156:THR:OG1	2.17	0.45
14:N:147:ARG:HG2	14:N:149:ARG:H	1.82	0.45
15:O:134:GLY:HA3	15:O:140:ILE:HG22	1.99	0.45
15:O:138:GLN:O	15:O:141:GLY:N	2.50	0.45
16:R:17:VAL:HG12	16:R:18:VAL:N	2.31	0.45
20:V:46:ARG:C	20:V:50:PRO:HD2	2.42	0.45
20:V:66:ALA:HB3	20:V:76:VAL:CG1	2.40	0.45
21:W:101:TRP:CD2	21:W:154:LEU:HD23	2.51	0.45
22:X:46:LEU:O	22:X:51:VAL:HG12	2.17	0.45
22:X:181:ILE:HA	22:X:201:ILE:O	2.17	0.45
23:Y:78:ALA:HB1	23:Y:89:LEU:N	2.32	0.45
23:Y:99:ASN:O	23:Y:103:ARG:HG2	2.16	0.45
24:Z:105:VAL:HG13	24:Z:106:LEU:N	2.32	0.45
30:f:17:ASN:ND2	30:f:36:GLY:H	2.15	0.45
31:g:65:TYR:O	31:g:96:THR:HG23	2.17	0.45
31:g:73:LEU:HD11	31:g:102:ASP:HB2	1.97	0.45
32:h:13:HIS:HE1	32:h:41:ASP:HA	1.80	0.45
33:i:43:THR:CG2	33:i:47:TYR:HB2	2.47	0.45
34:j:6:ILE:CD1	34:j:8:LEU:HD21	2.47	0.45
35:k:9:VAL:CG1	35:k:10:LEU:N	2.79	0.45
38:n:17:LEU:HD13	38:n:41:PRO:CA	2.47	0.45
39:o:29:VAL:HG21	39:o:73:PHE:CE1	2.51	0.45
39:o:37:LYS:C	39:o:37:LYS:HD2	2.42	0.45
40:p:77:LYS:HE3	40:p:116:LEU:CD1	2.47	0.45
41:q:1:MET:HE1	41:q:101:ILE:CD1	2.47	0.45
41:q:97:LYS:CD	41:q:99:THR:HG22	2.47	0.45
43:s:55:VAL:CG1	43:s:86:THR:O	2.65	0.45
44:t:47:PRO:CB	44:t:53:GLN:O	2.65	0.45
45:u:29:ILE:HD11	45:u:38:LEU:N	2.32	0.45
45:u:44:HIS:O	45:u:47:VAL:HB	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:v:40:ASN:C	46:v:52:LYS:HD3	2.42	0.45
46:v:62:LYS:NZ	46:v:71:SER:OG	2.36	0.45
48:x:27:LEU:O	48:x:28:ARG:C	2.60	0.45
2:B:24:THR:CG2	2:B:69:LEU:HD21	2.47	0.45
3:C:13:LYS:HD2	9:I:390:G:H5''	1.99	0.45
3:C:70:ARG:NH1	9:I:376:G:N7	2.64	0.45
4:D:20:VAL:HG11	4:D:58:ILE:HD13	1.98	0.45
4:D:43:VAL:HG21	4:D:58:ILE:HB	1.98	0.45
7:G:79:ALA:HA	7:G:82:ASN:ND2	2.32	0.45
9:I:154:A:C2'	9:I:155:C:H5'	2.46	0.45
9:I:245:A:H2	9:I:281:A:C4	2.34	0.45
9:I:499:G:H2'	9:I:500:C:C6	2.52	0.45
9:I:523:G:H2'	9:I:524:C:C6	2.52	0.45
9:I:690:G:O3'	9:I:796:C:H5''	2.16	0.45
9:I:713:G:H2'	9:I:714:A:C1'	2.47	0.45
9:I:854:U:H2'	9:I:855:C:C6	2.52	0.45
9:I:932:G:N1	9:I:934:A:C1'	2.80	0.45
9:I:1050:C:O2'	9:I:1051:U:O4'	2.24	0.45
9:I:1088:G:N2	9:I:1169:A:C2'	2.80	0.45
9:I:1170:A:H2'	9:I:1171:C:H6	1.78	0.45
9:I:1365:C:O2'	29:e:58:ARG:NH1	2.50	0.45
9:I:1410:C:H2'	9:I:1411:C:C6	2.51	0.45
9:I:1441:G:H2'	9:I:1442:C:C6	2.52	0.45
9:I:1448:C:H2'	9:I:1449:A:O4'	2.17	0.45
9:I:1477:U:C2'	9:I:1478:A:O4'	2.65	0.45
9:I:1484:C:O2	9:I:1484:C:C2'	2.55	0.45
9:I:1489:A:C6	9:I:4284:U:C4	3.05	0.45
9:I:1494:U:C2	9:I:1495:A:N7	2.85	0.45
9:I:1608:G:H2'	9:I:1609:C:O4'	2.17	0.45
9:I:1611:A:C6	9:I:1612:U:C4	3.04	0.45
9:I:1678:G:H2'	9:I:1679:C:H6	1.82	0.45
9:I:1716:A:N3	9:I:1716:A:H2'	2.32	0.45
9:I:1802:C:O2	9:I:1816:C:O2	2.35	0.45
9:I:1805:C:N4	9:I:1813:G:O6	2.49	0.45
9:I:1832:A:C4	9:I:1834:C:OP1	2.70	0.45
9:I:1857:C:C2	9:I:1858:U:C5	3.05	0.45
9:I:1859:G:C3'	9:I:1860:U:H5'	2.47	0.45
9:I:1992:A:H2'	9:I:1993:G:C8	2.51	0.45
9:I:2075:A:C2	9:I:2076:U:C6	3.04	0.45
9:I:2132:A:C2	9:I:3897:C:H4'	2.49	0.45
9:I:2150:C:H3'	9:I:2151:G:C5'	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2166:A:H2'	9:I:2167:U:C6	2.44	0.45
9:I:2199:A:N7	9:I:2234:A:C8	2.85	0.45
9:I:2202:U:N3	9:I:2203:U:C5	2.85	0.45
9:I:2359:G:N2	9:I:2410:G:C2'	2.80	0.45
9:I:2376:C:OP2	9:I:2376:C:H6	2.00	0.45
9:I:2392:C:H2'	9:I:2393:A:C5'	2.46	0.45
9:I:2415:C:H2'	9:I:2416:C:H6	1.79	0.45
9:I:2481:C:C4	9:I:2482:A:C5	3.05	0.45
9:I:2494:A:H2'	9:I:2495:A:H8	1.79	0.45
9:I:2633:G:O3'	16:R:26:GLY:HA3	2.17	0.45
9:I:2634:C:O2'	9:I:2637:A:O2'	2.13	0.45
9:I:2854:G:N7	9:I:2855:G:C8	2.85	0.45
9:I:2930:G:C2'	9:I:2931:C:O5'	2.64	0.45
9:I:2973:G:H2'	9:I:2974:C:O4'	2.16	0.45
9:I:2988:A:H2	9:I:3073:A:H4'	1.82	0.45
9:I:3051:C:H3'	9:I:3052:C:H2'	1.99	0.45
9:I:3065:A:C4	9:I:3066:A:C8	3.05	0.45
9:I:3248:A:H2'	9:I:3249:A:H8	1.81	0.45
9:I:3347:A:C3'	9:I:3382:G:N2	2.60	0.45
9:I:3364:C:H3'	9:I:3365:A:N9	2.32	0.45
9:I:3373:C:H2'	9:I:3374:U:O4'	2.17	0.45
9:I:3403:C:C2	9:I:3416:G:C2	3.05	0.45
9:I:3511:U:O2	9:I:3511:U:H2'	2.17	0.45
9:I:3591:A:N6	9:I:3687:G:C6	2.85	0.45
9:I:3634:G:C2	9:I:3635:G:C8	3.05	0.45
9:I:3697:U:H5''	9:I:3698:G:OP1	2.16	0.45
9:I:3797:G:O4'	14:N:122:ASP:CA	2.65	0.45
9:I:3799:U:H2'	9:I:3800:C:C6	2.52	0.45
9:I:3826:C:H1'	9:I:3830:A:C4	2.51	0.45
9:I:3898:U:O4	9:I:3908:G:C6	2.70	0.45
9:I:3986:U:C2	9:I:3987:U:C5	3.05	0.45
9:I:4020:G:C4	9:I:4021:C:C6	3.05	0.45
9:I:4047:G:C2	9:I:4077:G:H1'	2.50	0.45
9:I:4062:U:C2	9:I:4063:G:C8	3.05	0.45
9:I:4131:U:C2	9:I:4276:G:N1	2.85	0.45
9:I:4131:U:C2'	9:I:4132:G:O4'	2.62	0.45
9:I:4133:A:C5	9:I:4272:A:N6	2.85	0.45
9:I:4145:C:O2'	9:I:4146:C:H5'	2.17	0.45
9:I:4180:G:C5	9:I:4181:U:C4	3.05	0.45
9:I:4191:G:H2'	9:I:4192:U:C6	2.52	0.45
9:I:4216:G:C5	9:I:4217:C:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4290:U:O2	9:I:4292:U:H5'	2.17	0.45
10:J:54:U:C2'	10:J:56:A:H62	2.30	0.45
10:J:65:A:C4	10:J:107:A:N1	2.85	0.45
10:J:68:G:H2'	10:J:69:C:H5'	1.99	0.45
11:K:73:ILE:CG2	11:K:95:TYR:HB3	2.47	0.45
11:K:119:VAL:HG22	11:K:130:PRO:HB2	1.99	0.45
12:L:13:ARG:HG3	12:L:23:PRO:CD	2.46	0.45
12:L:60:VAL:O	12:L:60:VAL:HG23	2.16	0.45
13:M:23:PHE:CD2	13:M:25:GLU:CA	2.99	0.45
13:M:131:THR:HA	13:M:164:LEU:CD1	2.46	0.45
16:R:95:ARG:HD2	16:R:95:ARG:C	2.42	0.45
16:R:109:LEU:CD1	16:R:110:PRO:HD2	2.46	0.45
17:S:41:ILE:CD1	17:S:60:ALA:HB2	2.47	0.45
18:T:80:SER:O	18:T:84:LYS:NZ	2.40	0.45
20:V:29:VAL:HG12	20:V:78:LYS:HD3	1.99	0.45
20:V:34:ILE:HD11	20:V:36:THR:CG2	2.47	0.45
22:X:199:VAL:CG2	22:X:201:ILE:HD11	2.47	0.45
23:Y:43:ARG:HA	23:Y:43:ARG:HE	1.80	0.45
24:Z:39:PHE:CD1	24:Z:132:ILE:HG12	2.52	0.45
25:a:32:ALA:HB2	25:a:70:VAL:CG1	2.29	0.45
25:a:93:LYS:O	25:a:94:HIS:HB2	2.16	0.45
28:d:8:ARG:HG3	28:d:103:ARG:CZ	2.47	0.45
30:f:8:VAL:HG12	30:f:10:HIS:CD2	2.52	0.45
30:f:12:HIS:CB	30:f:75:LYS:HD2	2.45	0.45
36:l:15:LYS:HD2	36:l:15:LYS:C	2.41	0.45
38:n:30:THR:HG1	38:n:35:TYR:HE1	1.65	0.45
41:q:40:MET:HA	41:q:54:VAL:HG21	1.98	0.45
41:q:64:VAL:HB	41:q:95:ASP:O	2.16	0.45
42:r:58:ALA:O	42:r:62:ASP:C	2.60	0.45
42:r:75:PHE:CZ	42:r:104:THR:HG21	2.51	0.45
44:t:85:ARG:HH21	44:t:92:VAL:HG23	1.76	0.45
49:y:3:THR:O	49:y:3:THR:HG23	2.16	0.45
1:A:5:MET:HA	9:I:1216:C:OP2	2.17	0.45
2:B:88:ARG:NH2	9:I:2214:U:H5	2.15	0.45
3:C:27:ALA:HB3	3:C:30:GLY:CA	2.39	0.45
3:C:54:LEU:HA	3:C:57:ILE:HG12	1.99	0.45
3:C:68:SER:HG	9:I:377:G:P	2.33	0.45
4:D:22:ILE:O	4:D:39:THR:HB	2.17	0.45
9:I:83:U:H2'	9:I:85:G:N2	2.32	0.45
9:I:251:U:C3'	9:I:252:A:N7	2.80	0.45
9:I:276:C:OP2	9:I:276:C:C6	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:440:A:H2'	9:I:441:G:H8	1.82	0.45
9:I:450:A:O4'	9:I:451:A:C8	2.70	0.45
9:I:654:A:O2'	9:I:754:G:C5'	2.65	0.45
9:I:724:G:H2'	9:I:725:C:H5'	1.97	0.45
9:I:774:G:H2'	9:I:775:G:C1'	2.46	0.45
9:I:777:G:N1	9:I:803:U:C2	2.85	0.45
9:I:835:G:C2	9:I:836:U:H1'	2.51	0.45
9:I:970:G:C8	9:I:1364:G:H4'	2.52	0.45
9:I:1122:U:H2'	9:I:1123:G:C1'	2.46	0.45
9:I:1194:C:C3'	9:I:1196:A:H5'	2.47	0.45
9:I:1248:C:HO2'	28:d:67:GLY:C	2.24	0.45
9:I:1289:G:H2'	9:I:1290:U:C6	2.52	0.45
9:I:1440:A:N6	9:I:4366:C:H1'	2.31	0.45
9:I:1490:G:C6	9:I:4124:G:C5	3.05	0.45
9:I:1564:A:C4	9:I:1565:U:C5	3.05	0.45
9:I:1742:G:O2'	9:I:1743:U:OP2	2.33	0.45
9:I:1770:A:N9	9:I:1870:G:C2	2.85	0.45
9:I:1799:A:H2'	9:I:1800:A:C8	2.52	0.45
9:I:2052:U:C2'	9:I:2053:G:H5'	2.47	0.45
9:I:2127:A:OP1	18:T:78:ARG:NH2	2.48	0.45
9:I:2137:A:OP1	18:T:130:GLY:HA3	2.17	0.45
9:I:2140:C:C2'	9:I:2141:U:C6	2.94	0.45
9:I:2219:C:C2	9:I:2220:U:C6	3.05	0.45
9:I:2346:U:C4	9:I:2348:C:H5	2.34	0.45
9:I:2366:A:N6	9:I:2367:C:C5	2.85	0.45
9:I:2421:A:C2'	9:I:2422:A:O5'	2.65	0.45
9:I:2464:U:C2'	9:I:2465:G:O5'	2.65	0.45
9:I:2737:C:C2'	9:I:2738:A:O5'	2.64	0.45
9:I:2792:C:H2'	9:I:2793:G:O4'	2.17	0.45
9:I:2854:G:C2'	9:I:2855:G:H5'	2.47	0.45
9:I:3020:C:H3'	9:I:3021:G:C8	2.51	0.45
9:I:3041:C:O2	9:I:3041:C:H2'	2.16	0.45
9:I:3074:A:P	9:I:3074:A:H8	2.41	0.45
9:I:3088:U:H2'	9:I:3089:C:O4'	2.17	0.45
9:I:3180:C:N3	9:I:3197:G:C6	2.85	0.45
9:I:3227:G:C4	9:I:3228:G:C8	3.05	0.45
9:I:3289:C:H2'	9:I:3290:U:O4'	2.17	0.45
9:I:3550:G:C2	9:I:4071:A:C2	3.04	0.45
9:I:3746:G:C4	9:I:3747:G:C8	3.05	0.45
9:I:3774:G:C2	9:I:3775:A:C4	3.05	0.45
9:I:3790:U:O4	38:n:9:ARG:CZ	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3802:G:H5''	9:I:3803:A:OP2	2.17	0.45
9:I:3863:A:H2'	9:I:3864:G:C8	2.52	0.45
9:I:3877:G:N1	9:I:3878:U:O4	2.49	0.45
9:I:3897:C:O2	9:I:3898:U:C6	2.70	0.45
9:I:3972:A:H8	37:m:32:LYS:NZ	2.14	0.45
9:I:3977:C:C4'	19:U:51:ARG:NH1	2.80	0.45
9:I:4018:G:C2	9:I:4034:C:C2	3.05	0.45
9:I:4177:C:P	39:o:55:HIS:CG	3.10	0.45
9:I:4340:G:P	39:o:51:ASN:N	2.90	0.45
12:L:16:THR:HG23	12:L:20:VAL:O	2.16	0.45
12:L:62:LYS:C	12:L:65:ALA:HB3	2.42	0.45
13:M:102:ARG:N	13:M:200:LEU:HD22	2.31	0.45
14:N:117:SER:CB	14:N:129:MET:HE1	2.47	0.45
14:N:128:SER:HA	14:N:154:THR:HA	1.98	0.45
15:O:88:LEU:HD12	15:O:89:VAL:H	1.82	0.45
15:O:112:VAL:CG1	15:O:113:ASP:N	2.80	0.45
17:S:70:ARG:CD	17:S:71:ARG:H	2.29	0.45
18:T:82:LEU:C	18:T:118:THR:HG21	2.39	0.45
19:U:3:GLN:OE1	19:U:92:TRP:CE2	2.70	0.45
19:U:99:GLY:HA2	45:u:81:PRO:O	2.17	0.45
21:W:104:VAL:HB	21:W:105:ARG:HH21	1.82	0.45
21:W:130:GLU:O	21:W:134:ARG:HG3	2.16	0.45
24:Z:24:PHE:HD1	24:Z:45:ARG:O	2.01	0.45
25:a:78:PHE:HA	25:a:84:VAL:CG1	2.47	0.45
29:e:53:VAL:HG22	29:e:54:ASN:N	2.29	0.45
30:f:50:ALA:HA	30:f:53:VAL:HG22	1.98	0.45
31:g:41:PRO:HD3	31:g:47:ALA:H	1.82	0.45
32:h:38:ILE:HD11	32:h:55:LEU:CD1	2.41	0.45
34:j:7:LYS:HE2	34:j:50:LYS:CG	2.41	0.45
34:j:7:LYS:CG	34:j:50:LYS:HB2	2.45	0.45
37:m:23:ILE:H	37:m:37:GLN:CB	2.26	0.45
38:n:14:ARG:CG	38:n:92:ASP:OD2	2.65	0.45
41:q:4:VAL:N	41:q:40:MET:O	2.49	0.45
41:q:71:LYS:HA	41:q:90:ARG:CG	2.47	0.45
42:r:56:ALA:HA	42:r:59:GLU:OE1	2.17	0.45
43:s:64:LYS:CA	43:s:79:ASP:OD1	2.63	0.45
45:u:9:ARG:HE	45:u:20:LEU:CD1	2.29	0.45
46:v:40:ASN:HB3	46:v:52:LYS:C	2.41	0.45
47:w:39:VAL:O	47:w:39:VAL:HG23	2.16	0.45
49:y:23:LEU:CG	49:y:26:LEU:HD12	2.25	0.45
1:A:12:ARG:HD3	1:A:58:ARG:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:72:LEU:HD12	4:D:72:LEU:C	2.42	0.44
6:F:17:VAL:HG13	6:F:42:MET:CG	2.47	0.44
7:G:42:LYS:HG2	7:G:84:LEU:HG	1.99	0.44
9:I:108:A:H5'	9:I:109:C:C5	2.51	0.44
9:I:157:G:H2'	9:I:158:G:O4'	2.17	0.44
9:I:289:C:O5'	9:I:289:C:H6	1.99	0.44
9:I:360:G:C6	9:I:361:G:C6	3.05	0.44
9:I:694:A:C2	9:I:786:A:C1'	2.99	0.44
9:I:726:G:N1	9:I:730:G:C6	2.85	0.44
9:I:739:U:C2'	9:I:740:G:O4'	2.63	0.44
9:I:777:G:H2'	9:I:778:C:O4'	2.18	0.44
9:I:831:G:N2	9:I:854:U:H1'	2.32	0.44
9:I:892:C:H2'	9:I:893:G:H8	1.83	0.44
9:I:920:U:H4'	24:Z:14:LYS:NZ	2.32	0.44
9:I:1018:A:C2'	9:I:1019:G:H5'	2.46	0.44
9:I:1190:A:O3'	9:I:1191:C:H6	2.01	0.44
9:I:1267:G:N2	9:I:1326:C:O2'	2.50	0.44
9:I:1268:A:C8	9:I:1269:G:C1'	3.00	0.44
9:I:1464:A:H2'	9:I:1465:G:C8	2.52	0.44
9:I:1465:G:C5	9:I:1466:C:C5	3.06	0.44
9:I:1498:C:P	9:I:1500:U:H5'	2.54	0.44
9:I:1770:A:O2'	9:I:1771:G:P	2.72	0.44
9:I:1850:G:O2'	9:I:1851:C:C5'	2.65	0.44
9:I:1862:A:C2	9:I:1863:G:C8	3.05	0.44
9:I:1898:C:C2'	9:I:1899:U:O5'	2.65	0.44
9:I:1904:A:C4'	9:I:1905:U:OP2	2.64	0.44
9:I:1995:G:N2	42:r:61:ASN:OD1	2.32	0.44
9:I:2031:C:H4'	9:I:2032:A:O5'	2.18	0.44
9:I:2149:G:C6	9:I:2150:C:N3	2.84	0.44
9:I:2162:G:N3	9:I:2163:G:C8	2.85	0.44
9:I:2201:G:H2'	9:I:2202:U:C4'	2.46	0.44
9:I:2206:A:C5	9:I:2207:G:C5	3.05	0.44
9:I:2211:G:H2'	9:I:2212:G:O4'	2.17	0.44
9:I:2256:A:C2	9:I:2257:G:C1'	2.96	0.44
9:I:2278:G:H2'	9:I:2279:U:O4'	2.17	0.44
9:I:2364:G:C6	9:I:2407:U:C4	3.04	0.44
9:I:2686:G:C2	9:I:2687:G:C8	3.05	0.44
9:I:2696:G:O2'	9:I:2697:U:H5'	2.15	0.44
9:I:2816:A:C6	9:I:2817:C:C4	3.05	0.44
9:I:2847:A:C2'	9:I:2848:A:O5'	2.65	0.44
9:I:2910:G:O2'	9:I:2911:C:H6	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3028:U:OP2	9:I:3028:U:H3'	2.17	0.44
9:I:3146:A:OP1	20:V:8:ARG:NH1	2.50	0.44
9:I:3342:A:N6	9:I:3387:C:H42	2.14	0.44
9:I:3625:U:H5'	9:I:3626:U:C5'	2.45	0.44
9:I:3676:U:H3	9:I:3677:A:N6	2.15	0.44
9:I:3730:U:C2	9:I:3731:G:C8	3.05	0.44
9:I:3763:G:C2	9:I:3764:A:N9	2.86	0.44
9:I:3793:U:C2	9:I:3794:C:C6	3.05	0.44
9:I:3820:C:O3'	9:I:3821:A:H3'	2.17	0.44
9:I:3822:A:N6	9:I:3880:A:N6	2.64	0.44
9:I:3952:G:C2'	9:I:3984:G:H1	2.24	0.44
9:I:4028:A:C2	9:I:4029:G:H1'	2.52	0.44
9:I:4073:C:C2	9:I:4074:PSU:N1	2.86	0.44
9:I:4193:C:C4	9:I:4194:A:C5	3.04	0.44
9:I:4194:A:C4	9:I:4195:U:C5	3.05	0.44
9:I:4203:G:C4	9:I:4204:C:C5	3.04	0.44
9:I:4210:C:H2'	9:I:4211:C:H6	1.73	0.44
9:I:4214:U:H5'	9:I:4340:G:C4'	2.46	0.44
9:I:4237:U:C2	9:I:4238:G:C8	3.05	0.44
9:I:4239:C:O2	15:O:138:GLN:HG3	2.17	0.44
9:I:4326:U:O4'	9:I:4328:G:C4	2.70	0.44
9:I:4326:U:O4'	9:I:4328:G:N9	2.50	0.44
10:J:32:G:H8	10:J:32:G:C5'	2.30	0.44
10:J:49:A:OP1	38:n:66:ASN:CB	2.58	0.44
10:J:77:A:C8	10:J:78:G:C8	3.05	0.44
10:J:91:C:H2'	10:J:92:C:O5'	2.17	0.44
10:J:114:A:N3	10:J:115:G:C8	2.85	0.44
11:K:2:VAL:CG2	11:K:201:LEU:HB2	2.27	0.44
11:K:67:LYS:CD	11:K:69:ASN:ND2	2.80	0.44
11:K:77:VAL:CG1	11:K:78:GLU:N	2.80	0.44
11:K:147:PRO:HA	11:K:186:ASP:O	2.18	0.44
12:L:34:VAL:HA	12:L:50:VAL:CG1	2.43	0.44
12:L:68:PHE:CD1	12:L:73:VAL:HG13	2.43	0.44
12:L:109:VAL:CG1	12:L:201:LEU:CD1	2.95	0.44
13:M:146:VAL:HA	13:M:185:LYS:O	2.16	0.44
13:M:188:MET:O	13:M:188:MET:SD	2.75	0.44
14:N:34:THR:CG2	14:N:156:THR:OG1	2.65	0.44
14:N:41:GLU:OE2	14:N:147:ARG:CZ	2.65	0.44
14:N:164:GLU:O	14:N:168:LEU:CA	2.64	0.44
15:O:18:ILE:HD13	15:O:24:THR:H	1.81	0.44
18:T:108:ALA:O	18:T:125:LEU:CA	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:35:LYS:NZ	20:V:103:ARG:CB	2.74	0.44
22:X:41:TYR:HE1	22:X:86:LEU:CD2	2.30	0.44
22:X:41:TYR:HE1	22:X:86:LEU:HD23	1.82	0.44
22:X:86:LEU:O	22:X:89:VAL:HG22	2.17	0.44
23:Y:18:LEU:HD12	23:Y:20:LEU:HD11	1.98	0.44
23:Y:106:PHE:HD1	23:Y:158:LEU:HD21	1.80	0.44
25:a:9:MET:HE2	25:a:57:ALA:HB1	1.99	0.44
28:d:12:SER:HA	28:d:65:LYS:O	2.17	0.44
29:e:21:ILE:HD11	29:e:83:LEU:HD21	1.99	0.44
30:f:4:VAL:HG13	30:f:67:ILE:HG12	1.96	0.44
31:g:88:D2T:C	31:g:89:LEU:HD22	2.46	0.44
32:h:95:PRO:CA	32:h:108:ARG:HE	2.29	0.44
33:i:38:LEU:HD12	33:i:38:LEU:N	2.32	0.44
34:j:5:LYS:CA	34:j:21:THR:HA	2.43	0.44
37:m:13:ASN:CB	37:m:29:ALA:HB2	2.43	0.44
38:n:10:ALA:O	38:n:13:ALA:HB3	2.18	0.44
38:n:14:ARG:HG2	38:n:24:ARG:HD2	1.99	0.44
39:o:22:GLY:C	39:o:45:VAL:CG2	2.91	0.44
42:r:8:ARG:CD	42:r:102:HIS:CE1	3.00	0.44
42:r:56:ALA:C	42:r:59:GLU:H	2.25	0.44
42:r:59:GLU:CA	42:r:64:ALA:H	2.10	0.44
44:t:11:ILE:HD11	44:t:19:GLY:HA2	1.99	0.44
44:t:28:LEU:N	44:t:32:LYS:O	2.48	0.44
44:t:85:ARG:NH2	44:t:101:THR:OG1	2.47	0.44
45:u:25:LYS:HD2	45:u:43:ASP:CA	2.42	0.44
46:v:43:CYS:HA	46:v:47:HIS:HA	1.99	0.44
47:w:64:ASP:HA	47:w:67:LEU:HD21	1.98	0.44
48:x:41:LEU:HA	48:x:41:LEU:HD23	1.73	0.44
49:y:56:VAL:CG2	49:y:58:GLU:HG2	2.46	0.44
3:C:6:LEU:HD11	3:C:71:VAL:HG22	1.99	0.44
3:C:8:ARG:HH21	9:I:390:G:P	2.41	0.44
3:C:39:PHE:HD1	3:C:50:THR:HG23	1.82	0.44
4:D:14:MET:H	9:I:272:U:C3'	2.30	0.44
5:E:40:ILE:HD13	5:E:49:LEU:HD12	1.98	0.44
6:F:12:HIS:HE1	6:F:33:SER:HB2	1.82	0.44
6:F:27:LYS:CD	6:F:28:PRO:HD2	2.47	0.44
6:F:29:LEU:O	6:F:48:ALA:HB3	2.18	0.44
7:G:59:GLN:OE1	7:G:64:LEU:HD21	2.16	0.44
9:I:618:U:O2	23:Y:129:VAL:HA	2.17	0.44
9:I:712:G:C2	9:I:713:G:C5	3.06	0.44
9:I:1188:U:H5''	9:I:1189:G:OP2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1216:C:C2'	9:I:1217:C:O5'	2.65	0.44
9:I:1341:C:O3'	28:d:121:ARG:NH2	2.50	0.44
9:I:1342:G:H5'	28:d:121:ARG:HH21	1.82	0.44
9:I:1503:U:O5'	9:I:1503:U:H6	1.99	0.44
9:I:1568:G:C5	9:I:1569:C:C5	3.05	0.44
9:I:1613:U:C5'	9:I:1614:U:OP1	2.65	0.44
9:I:1643:C:C2	43:s:3:ARG:NH1	2.86	0.44
9:I:1676:A:H3'	9:I:1676:A:P	2.57	0.44
9:I:1758:G:C4	9:I:1759:G:C8	3.05	0.44
9:I:1790:U:H2'	9:I:1791:G:O4'	2.17	0.44
9:I:1915:A:C6	9:I:3903:G:C5	3.05	0.44
9:I:1979:A:C2	9:I:1980:A:C2	3.06	0.44
9:I:1994:G:C5'	42:r:6:LYS:HE3	2.46	0.44
9:I:2132:A:H2'	9:I:2133:A:H8	1.77	0.44
9:I:2144:A:O3'	9:I:2145:C:C4'	2.56	0.44
9:I:2207:G:C6	9:I:2208:G:C5	3.05	0.44
9:I:2274:G:H5''	11:K:47:ARG:CZ	2.46	0.44
9:I:2363:A:O2'	9:I:2364:G:P	2.75	0.44
9:I:2414:A:H2'	9:I:2415:C:C6	2.53	0.44
9:I:2432:G:H2'	9:I:2433:G:H8	1.82	0.44
9:I:2436:G:H2'	9:I:2437:A:H8	1.82	0.44
9:I:2510:G:C6	9:I:2511:G:C5	3.05	0.44
9:I:2579:A:H5'	9:I:2599:U:C4'	2.43	0.44
9:I:2617:C:O2'	37:m:18:LYS:CE	2.65	0.44
9:I:2633:G:H4'	16:R:26:GLY:HA2	1.98	0.44
9:I:2655:C:H1'	41:q:8:GLY:CA	2.47	0.44
9:I:2748:A:C3'	9:I:2749:U:H5'	2.45	0.44
9:I:2809:C:H2'	9:I:2810:U:H6	1.81	0.44
9:I:2816:A:C6	9:I:2817:C:C5	3.05	0.44
9:I:2821:A:C2'	9:I:2822:A:O5'	2.65	0.44
9:I:2886:A:O3'	9:I:2887:A:O4'	2.35	0.44
9:I:2912:G:O6	9:I:3072:U:C6	2.70	0.44
9:I:2952:U:H1'	9:I:2953:G:C5	2.53	0.44
9:I:2982:C:O2'	9:I:2983:C:H5'	2.17	0.44
9:I:3003:A:C2'	9:I:3004:G:H5'	2.47	0.44
9:I:3092:A:H3'	9:I:3093:U:H6	1.83	0.44
9:I:3179:C:N3	9:I:3198:C:N3	2.65	0.44
9:I:3212:G:C6	9:I:3213:G:C6	3.05	0.44
9:I:3313:A:P	11:K:154:ALA:HA	2.57	0.44
9:I:3316:C:C2	9:I:3317:G:C8	3.05	0.44
9:I:3405:PSU:C2'	9:I:3413:A:N6	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3409:3TD:H6	9:I:3409:3TD:P	2.56	0.44
9:I:3656:G:P	9:I:3658:C:H41	2.40	0.44
9:I:3690:C:O2'	9:I:3691:U:O4'	2.35	0.44
9:I:3775:A:C3'	9:I:3776:G:H5''	2.46	0.44
9:I:3789:C:O2'	9:I:3790:U:H5'	2.17	0.44
9:I:3822:A:C4	9:I:3823:U:C5	3.05	0.44
9:I:3839:G:N7	9:I:3866:U:C2	2.86	0.44
9:I:3894:G:C8	9:I:3894:G:C3'	3.00	0.44
9:I:4020:G:C5	9:I:4021:C:C5	3.05	0.44
9:I:4034:C:C1'	9:I:4235:A:H1'	2.43	0.44
9:I:4090:U:H3'	9:I:4090:U:H6	1.82	0.44
9:I:4132:G:O2'	9:I:4269:G:N2	2.37	0.44
9:I:4157:G:C5	9:I:4158:G:C5	3.05	0.44
9:I:4186:G:C4	9:I:4341:U:O2'	2.69	0.44
9:I:4236:G:N1	9:I:4237:U:C4	2.85	0.44
9:I:4243:A:OP1	9:I:4244:A:H3'	2.18	0.44
9:I:4247:A:C8	9:I:4247:A:OP2	2.71	0.44
9:I:4295:G:H2'	9:I:4296:G:H8	1.77	0.44
9:I:4303:A:H8	9:I:4303:A:H3'	1.82	0.44
9:I:4325:G:O2'	9:I:4326:U:P	2.75	0.44
9:I:4393:G:H2'	9:I:4394:U:C6	2.51	0.44
10:J:25:C:C3'	10:J:26:C:C6	2.84	0.44
10:J:33:A:N1	10:J:47:U:C2	2.85	0.44
10:J:39:U:H1'	10:J:42:C:C5	2.51	0.44
10:J:99:G:C8	10:J:99:G:O5'	2.71	0.44
11:K:52:HIS:CD2	11:K:218:THR:OG1	2.70	0.44
11:K:63:ILE:HG23	11:K:101:ARG:NH2	2.29	0.44
11:K:109:LEU:HB2	11:K:125:PRO:O	2.16	0.44
12:L:74:GLU:HG2	12:L:75:ALA:N	2.31	0.44
13:M:5:LEU:HB3	13:M:8:ALA:CB	2.47	0.44
13:M:58:LYS:HE2	13:M:71:GLY:CA	2.34	0.44
14:N:62:GLN:HB3	14:N:90:LEU:CD2	2.46	0.44
14:N:122:ASP:OD1	14:N:122:ASP:C	2.60	0.44
15:O:52:GLY:N	15:O:64:ALA:HB2	2.32	0.44
15:O:85:LYS:NZ	15:O:131:VAL:HG22	2.33	0.44
15:O:136:ASP:CG	15:O:138:GLN:HB3	2.42	0.44
16:R:15:TRP:HB2	16:R:137:PRO:HB3	1.99	0.44
16:R:32:LEU:HD21	16:R:142:ILE:HG12	1.95	0.44
16:R:124:VAL:C	16:R:125:TYR:CD2	2.96	0.44
17:S:52:VAL:HG22	17:S:53:LYS:N	2.33	0.44
17:S:94:PRO:CD	17:S:115:ILE:HD11	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:82:LEU:HD12	18:T:83:ALA:N	2.32	0.44
18:T:83:ALA:HB2	18:T:118:THR:HB	1.98	0.44
19:U:76:LYS:HE3	19:U:80:VAL:CG1	2.41	0.44
20:V:18:GLN:C	20:V:22:ARG:CZ	2.91	0.44
20:V:38:LEU:O	20:V:41:ALA:N	2.50	0.44
23:Y:14:GLU:OE2	23:Y:58:GLN:HG3	2.18	0.44
23:Y:113:ALA:O	23:Y:117:VAL:N	2.40	0.44
24:Z:88:GLN:OE1	24:Z:88:GLN:HA	2.18	0.44
26:b:92:PRO:CA	26:b:95:ARG:HB3	2.24	0.44
32:h:84:CYS:HG	32:h:87:GLY:H	1.63	0.44
33:i:45:ASP:O	33:i:52:LYS:NZ	2.49	0.44
36:l:28:LEU:HD21	36:l:43:LEU:CD1	2.47	0.44
36:l:49:VAL:HG12	36:l:50:SER:O	2.16	0.44
38:n:17:LEU:HD13	38:n:41:PRO:C	2.42	0.44
38:n:89:VAL:HG11	38:n:114:LEU:HD21	1.98	0.44
39:o:46:VAL:HG13	39:o:59:THR:H	1.80	0.44
39:o:96:LEU:HD23	39:o:99:LEU:HD21	1.99	0.44
40:p:74:SER:OG	40:p:77:LYS:HG2	2.17	0.44
42:r:47:VAL:O	42:r:50:VAL:HG12	2.17	0.44
43:s:4:GLU:O	43:s:7:LEU:CG	2.60	0.44
44:t:80:ASP:OD1	44:t:97:SER:HB2	2.17	0.44
48:x:7:GLU:HG3	48:x:7:GLU:O	2.17	0.44
49:y:5:LYS:O	49:y:6:ILE:HG13	2.17	0.44
49:y:15:ARG:HA	49:y:15:ARG:HD3	1.60	0.44
49:y:33:HIS:CD2	49:y:34:THR:N	2.84	0.44
1:A:82:LYS:O	1:A:86:ALA:HB2	2.18	0.44
2:B:86:LEU:HD11	9:I:2216:A:P	2.57	0.44
4:D:2:ILE:O	4:D:4:THR:HG23	2.17	0.44
4:D:13:LYS:C	9:I:273:A:O5'	2.59	0.44
4:D:65:SER:OG	4:D:68:LYS:HB2	2.17	0.44
5:E:46:LEU:HA	5:E:46:LEU:HD23	1.65	0.44
6:F:32:TRP:HA	6:F:50:HIS:HB2	1.99	0.44
7:G:41:ASP:CB	7:G:44:ALA:HB3	2.48	0.44
9:I:94:C:O2'	9:I:95:U:H5'	2.16	0.44
9:I:125:G:C2	9:I:126:G:C8	3.06	0.44
9:I:217:U:C2'	9:I:218:U:H5'	2.47	0.44
9:I:276:C:O2'	9:I:281:A:O2'	2.33	0.44
9:I:285:C:H2'	9:I:286:U:O4'	2.18	0.44
9:I:596:G:C5	9:I:597:U:C5	3.05	0.44
9:I:608:A:H3'	9:I:609:U:H6	1.82	0.44
9:I:677:U:H5'	9:I:777:G:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:742:A:C4	9:I:743:C:C5	3.05	0.44
9:I:935:C:O4'	9:I:1382:C:N4	2.50	0.44
9:I:1164:U:H2'	9:I:1165:G:C8	2.52	0.44
9:I:1233:C:H4'	9:I:1363:U:O4'	2.17	0.44
9:I:1247:A:C2'	9:I:1248:C:H5'	2.47	0.44
9:I:1279:A:H8	29:e:38:LEU:HG	1.82	0.44
9:I:1493:U:H2'	9:I:1494:U:O4'	2.17	0.44
9:I:1498:C:H1'	9:I:1502:G:C2	2.53	0.44
9:I:1512:U:C4	9:I:1513:A:C5	3.04	0.44
9:I:1593:G:C6	9:I:1594:A:N7	2.85	0.44
9:I:1623:G:N2	9:I:1629:C:C2	2.85	0.44
9:I:1694:G:C2	9:I:1702:U:O2	2.70	0.44
9:I:1719:A:H5''	9:I:1720:G:OP2	2.17	0.44
9:I:1739:C:H2'	9:I:1740:C:O5'	2.17	0.44
9:I:1778:A:N1	9:I:1861:G:C4	2.85	0.44
9:I:1836:C:OP2	44:t:81:ARG:CG	2.66	0.44
9:I:1981:G:C4	9:I:2007:A:C2	3.05	0.44
9:I:2050:C:N3	9:I:2051:G:C8	2.86	0.44
9:I:2057:C:O2	16:R:47:HIS:HB2	2.18	0.44
9:I:2141:U:C5	9:I:2142:U:O4	2.70	0.44
9:I:2245:1MG:C8	9:I:2245:1MG:C3'	3.01	0.44
9:I:2294:A:H2'	9:I:2295:C:H6	1.82	0.44
9:I:2352:U:O4'	49:y:42:ALA:HB2	2.18	0.44
9:I:2404:A:OP2	9:I:2406:C:N4	2.50	0.44
9:I:2467:A:H4'	9:I:2682:U:H1'	1.99	0.44
9:I:2482:A:H5''	49:y:11:SER:CB	2.47	0.44
9:I:2515:A:C2'	9:I:2517:U:O4'	2.65	0.44
9:I:2533:A:OP2	9:I:2533:A:H3'	2.16	0.44
9:I:2561:A:H2'	9:I:2562:G:O4'	2.16	0.44
9:I:2645:A:C2'	9:I:2646:C:O4'	2.65	0.44
9:I:2676:G:C2'	9:I:2677:U:C5'	2.95	0.44
9:I:2696:G:C5	9:I:2697:U:N3	2.86	0.44
9:I:2696:G:H2'	9:I:2697:U:O4'	2.17	0.44
9:I:2707:A:O2'	9:I:2708:A:H5'	2.17	0.44
9:I:2801:A:C6	9:I:2802:A:C5	3.05	0.44
9:I:2847:A:C2	9:I:2848:A:C4	3.06	0.44
9:I:2847:A:C8	9:I:2872:A:N6	2.86	0.44
9:I:2854:G:H3'	9:I:2855:G:C5'	2.46	0.44
9:I:2860:A:H2'	9:I:2861:A:H8	1.82	0.44
9:I:2933:A:OP2	9:I:2934:U:C5	2.69	0.44
9:I:2963:A:N3	9:I:2964:A:C8	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2981:U:C2	9:I:2997:A:C2	3.05	0.44
9:I:2983:C:O2	9:I:2995:G:N2	2.50	0.44
9:I:3088:U:O2'	9:I:3089:C:C5'	2.62	0.44
9:I:3173:A:C2	9:I:3174:U:C5	3.06	0.44
9:I:3212:G:C2'	9:I:3213:G:C8	3.00	0.44
9:I:3254:C:H2'	9:I:3255:C:C5'	2.48	0.44
9:I:3311:G:H3'	9:I:3312:U:C6	2.48	0.44
9:I:3347:A:OP2	9:I:3382:G:C6	2.70	0.44
9:I:3428:C:C2'	9:I:3429:G:O5'	2.66	0.44
9:I:3543:G:C2	9:I:3544:C:C6	3.05	0.44
9:I:3656:G:C4'	9:I:3657:A:OP1	2.64	0.44
9:I:3702:C:O2'	9:I:3703:G:H5'	2.17	0.44
9:I:3802:G:N7	9:I:3805:A:OP2	2.51	0.44
9:I:3847:G:H1'	46:v:24:GLY:HA3	1.99	0.44
9:I:4017:G:C2'	9:I:4018:G:C5'	2.89	0.44
9:I:4111:U:O2'	9:I:4112:G:H5'	2.17	0.44
9:I:4121:G:C2'	9:I:4122:C:O5'	2.66	0.44
9:I:4129:A:C2'	9:I:4130:C:O5'	2.66	0.44
9:I:4174:U:C2'	9:I:4176:A:N7	2.80	0.44
9:I:4212:G:OP1	39:o:97:TYR:CB	2.54	0.44
9:I:4215:A:C2	9:I:4216:G:C4	3.05	0.44
9:I:4426:U:C2	9:I:4427:G:C8	3.06	0.44
10:J:1:G:C6	10:J:118:A:N6	2.86	0.44
10:J:5:G:H8	10:J:5:G:O5'	2.01	0.44
10:J:54:U:C4'	14:N:25:MET:HE1	2.48	0.44
11:K:140:VAL:O	11:K:161:VAL:HG23	2.17	0.44
11:K:204:LEU:HD11	11:K:210:ALA:HB2	2.00	0.44
12:L:19:GLY:HA2	39:o:79:VAL:CG2	2.47	0.44
14:N:39:VAL:HG13	14:N:40:GLY:N	2.32	0.44
14:N:107:VAL:O	14:N:110:ILE:N	2.38	0.44
15:O:46:ASP:OD1	15:O:47:ASN:N	2.50	0.44
15:O:96:ALA:HB3	15:O:103:ASN:CB	2.47	0.44
17:S:71:ARG:HG3	39:o:71:ARG:HH12	1.82	0.44
19:U:26:VAL:CG2	19:U:134:THR:CG2	2.91	0.44
20:V:29:VAL:O	20:V:120:GLU:OE2	2.34	0.44
24:Z:10:ASN:OD1	24:Z:11:ARG:N	2.50	0.44
24:Z:32:ASP:OD2	24:Z:36:ARG:HB3	2.17	0.44
27:c:10:LEU:HD12	27:c:76:ARG:HB2	1.99	0.44
27:c:50:VAL:HA	27:c:57:GLU:O	2.16	0.44
31:g:120:ARG:HE	31:g:122:LYS:HZ1	1.65	0.44
32:h:39:ALA:H	32:h:42:VAL:HG21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:j:3:ARG:NE	34:j:23:ASN:HB2	2.31	0.44
39:o:4:ILE:HG23	39:o:7:LEU:HB2	2.00	0.44
41:q:4:VAL:CG1	41:q:5:PHE:N	2.80	0.44
44:t:66:VAL:O	44:t:69:VAL:N	2.44	0.44
46:v:13:VAL:HG11	46:v:16:PHE:CE1	2.52	0.44
46:v:41:VAL:C	46:v:52:LYS:HD2	2.42	0.44
46:v:42:GLY:O	46:v:49:LEU:HA	2.17	0.44
1:A:72:PHE:CZ	1:A:77:GLY:HA2	2.53	0.44
1:A:84:ARG:NH2	9:I:1197:G:H22	2.15	0.44
1:A:100:TRP:HE1	9:I:1367:A:C4'	2.20	0.44
2:B:47:LYS:HD3	2:B:47:LYS:N	2.32	0.44
2:B:50:HIS:CE1	9:I:764:G:OP1	2.71	0.44
5:E:41:LYS:HD3	9:I:672:A:C2	2.41	0.44
8:H:39:LYS:HA	30:f:110:ARG:NH2	2.32	0.44
9:I:24:C:O2'	9:I:507:U:O4	2.35	0.44
9:I:195:A:O2'	9:I:196:A:H2'	2.17	0.44
9:I:302:A:C2'	9:I:303:U:H5'	2.47	0.44
9:I:309:G:C5	9:I:310:C:C5	3.06	0.44
9:I:672:A:N1	9:I:733:G:C5	2.85	0.44
9:I:706:U:H4'	30:f:10:HIS:NE2	2.33	0.44
9:I:714:A:H5'	9:I:804:C:O4'	2.17	0.44
9:I:859:A:N6	9:I:868:G:H1'	2.27	0.44
9:I:931:C:H5'	26:b:3:ARG:HB3	1.98	0.44
9:I:1059:U:O3'	29:e:57:ALA:CB	2.65	0.44
9:I:1063:G:OP2	9:I:1384:G:O2'	2.31	0.44
9:I:1234:U:N3	9:I:1235:A:C5	2.86	0.44
9:I:1379:U:H2'	26:b:2:ARG:CG	2.47	0.44
9:I:1468:A:C2'	9:I:1469:A:C8	2.95	0.44
9:I:1495:A:H8	9:I:1495:A:O5'	2.00	0.44
9:I:1585:G:O2'	9:I:1586:G:O4'	2.27	0.44
9:I:1622:G:C6	9:I:1623:G:C6	3.05	0.44
9:I:1641:G:H5'	9:I:1642:A:C5	2.52	0.44
9:I:1642:A:H3'	9:I:1642:A:C8	2.52	0.44
9:I:1649:A:C2	9:I:1650:U:C2	3.05	0.44
9:I:1668:G:C2'	9:I:1669:G:H8	2.23	0.44
9:I:1712:G:C2	9:I:1713:A:C5	3.06	0.44
9:I:1841:C:H6	9:I:1841:C:O5'	2.00	0.44
9:I:1859:G:C6	9:I:1860:U:N3	2.85	0.44
9:I:1964:U:HO2'	9:I:1965:G:P	2.40	0.44
9:I:1973:G:C2	9:I:1974:G:N7	2.85	0.44
9:I:2215:A:C3'	9:I:2216:A:H8	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2242:A:C2	9:I:2243:A:C5	3.05	0.44
9:I:2350:U:C3'	9:I:2351:C:C6	2.97	0.44
9:I:2371:U:C6	9:I:2371:U:H3'	2.52	0.44
9:I:2392:C:H2'	9:I:2393:A:H5'	2.00	0.44
9:I:2507:C:HO2'	9:I:2508:A:H5'	1.81	0.44
9:I:2525:G:C2	37:m:37:GLN:NE2	2.86	0.44
9:I:2619:G:O5'	9:I:2620:A:C2'	2.65	0.44
9:I:2626:U:H2'	9:I:2627:A:N7	2.32	0.44
9:I:2663:A:C5	9:I:2664:C:C5	3.05	0.44
9:I:2698:A:H4'	9:I:2700:G:H5'	1.99	0.44
9:I:2748:A:C2'	9:I:2749:U:OP1	2.66	0.44
9:I:2751:C:O2'	9:I:2752:U:O5'	2.35	0.44
9:I:2878:A:H1'	9:I:2899:U:H1'	1.97	0.44
9:I:3017:U:O2'	9:I:3018:G:C5'	2.63	0.44
9:I:3146:A:C6	9:I:3147:G:N2	2.85	0.44
9:I:3178:G:O6	9:I:3199:A:C6	2.69	0.44
9:I:3182:U:H6	9:I:3182:U:H3'	1.83	0.44
9:I:3211:A:H5''	9:I:3212:G:OP2	2.16	0.44
9:I:3286:G:H5''	11:K:203:VAL:HG11	1.99	0.44
9:I:3298:C:C2	9:I:3299:A:C8	3.06	0.44
9:I:3311:G:C2'	9:I:3312:U:C6	3.00	0.44
9:I:3313:A:N7	11:K:177:SER:HB3	2.33	0.44
9:I:3339:G:N2	9:I:3390:G:H1'	2.33	0.44
9:I:3426:A:N6	9:I:3462:G:H1'	2.30	0.44
9:I:3557:C:C4	9:I:3558:C:C5	3.06	0.44
9:I:3581:G:C4	9:I:3582:A:C8	3.05	0.44
9:I:3826:C:C1'	9:I:3830:A:C5	3.01	0.44
9:I:3859:G:N2	9:I:3860:A:C5	2.85	0.44
9:I:3866:U:C2	9:I:3867:G:N7	2.86	0.44
9:I:3898:U:H2'	9:I:3899:G:H8	1.80	0.44
9:I:3939:2MG:CM2	9:I:3940:G:H1'	2.48	0.44
9:I:3977:C:N3	19:U:123:LYS:CE	2.80	0.44
9:I:4132:G:N3	9:I:4269:G:N2	2.65	0.44
9:I:4153:G:C2'	9:I:4155:G:N7	2.80	0.44
9:I:4223:G:H4'	12:L:190:LYS:HE3	1.98	0.44
9:I:4252:A:O4'	15:O:63:GLN:NE2	2.45	0.44
9:I:4290:U:H3	9:I:4293:A:N6	2.16	0.44
11:K:174:ARG:HG3	11:K:178:GLY:O	2.16	0.44
12:L:9:VAL:HB	12:L:26:VAL:O	2.18	0.44
15:O:32:LEU:HD23	15:O:33:THR:N	2.32	0.44
16:R:102:GLU:O	16:R:103:ILE:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:R:114:LEU:O	16:R:118:MET:N	2.44	0.44
18:T:36:LYS:O	18:T:40:SER:HB3	2.18	0.44
18:T:109:LYS:C	18:T:111:ILE:HD12	2.42	0.44
21:W:54:LEU:HD21	21:W:181:PHE:HD2	1.82	0.44
21:W:126:LEU:CG	21:W:131:ALA:HB2	2.38	0.44
23:Y:3:TYR:CZ	23:Y:10:LEU:HD21	2.52	0.44
25:a:26:THR:O	25:a:30:THR:HG23	2.17	0.44
26:b:14:ASP:HB2	26:b:18:GLY:N	2.32	0.44
26:b:119:LEU:O	26:b:119:LEU:HD23	2.18	0.44
27:c:94:VAL:HG11	27:c:101:ALA:HB2	2.00	0.44
28:d:32:LEU:HD11	28:d:42:ARG:CG	2.40	0.44
30:f:12:HIS:HB3	30:f:19:ILE:HG12	1.96	0.44
30:f:55:ALA:HB1	30:f:88:LEU:CD1	2.47	0.44
31:g:42:LYS:NZ	31:g:90:PRO:HG3	2.31	0.44
31:g:51:VAL:HG21	31:g:63:THR:OG1	2.17	0.44
31:g:120:ARG:NE	31:g:122:LYS:HZ1	2.14	0.44
34:j:10:SER:N	34:j:46:TYR:CE2	2.86	0.44
34:j:27:LYS:HA	34:j:29:GLU:OE2	2.17	0.44
38:n:108:ALA:HA	38:n:111:GLU:HG3	1.98	0.44
39:o:113:LEU:H	39:o:113:LEU:HD23	1.82	0.44
40:p:71:ASN:CG	40:p:105:PHE:CE2	2.95	0.44
43:s:73:ARG:HG3	43:s:74:ILE:H	1.83	0.44
44:t:10:VAL:O	44:t:72:PHE:HB2	2.18	0.44
44:t:95:PHE:O	44:t:99:SER:HA	2.18	0.44
45:u:30:ILE:CD1	45:u:40:ILE:HG21	2.47	0.44
46:v:24:GLY:HA2	46:v:50:PHE:CE2	2.53	0.44
46:v:41:VAL:CA	46:v:52:LYS:CD	2.95	0.44
1:A:69:PRO:CG	9:I:982:A:C8	3.01	0.44
3:C:63:GLN:CG	9:I:226:G:C5	3.00	0.44
4:D:15:GLU:O	4:D:16:LYS:CB	2.63	0.44
4:D:28:HIS:O	4:D:32:GLY:N	2.50	0.44
9:I:68:G:H2'	9:I:69:U:C6	2.51	0.44
9:I:101:G:H2'	9:I:102:U:C6	2.52	0.44
9:I:124:U:H3	9:I:235:A:N6	2.12	0.44
9:I:180:A:H2	9:I:181:A:N6	2.15	0.44
9:I:257:G:C6	9:I:258:G:C5	3.06	0.44
9:I:281:A:N1	9:I:282:U:H1'	2.33	0.44
9:I:320:A:N6	9:I:331:G:H1	2.16	0.44
9:I:361:G:C3'	9:I:362:A:H3'	2.46	0.44
9:I:570:U:H5''	9:I:818:A:C6	2.53	0.44
9:I:606:A:H2'	9:I:607:A:H5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:635:U:H2'	9:I:635:U:O2	2.17	0.44
9:I:663:G:C2'	9:I:665:G:P	3.05	0.44
9:I:696:U:C5	9:I:697:G:C8	3.04	0.44
9:I:935:C:H4'	9:I:1382:C:C4	2.52	0.44
9:I:949:U:OP2	32:h:100:ARG:HG2	2.18	0.44
9:I:1153:G:H2'	9:I:1154:A:H8	1.83	0.44
9:I:1175:A:C4	9:I:1176:G:C8	3.05	0.44
9:I:1192:G:O2'	9:I:1193:U:H5'	2.18	0.44
9:I:1232:G:H2'	9:I:1232:G:N3	2.33	0.44
9:I:1478:A:N7	9:I:4328:G:N1	2.63	0.44
9:I:1600:U:C2	9:I:1601:A:C2	3.05	0.44
9:I:1714:G:O2'	9:I:1715:G:O4'	2.35	0.44
9:I:1733:A:C2'	9:I:1734:U:H5'	2.48	0.44
9:I:1797:G:C2	9:I:1798:G:H1'	2.52	0.44
9:I:1828:U:H2'	44:t:68:ASN:ND2	2.33	0.44
9:I:2047:A:P	9:I:2047:A:O4'	2.75	0.44
9:I:2142:U:H3'	9:I:2144:A:OP2	2.18	0.44
9:I:2155:A:C8	9:I:2155:A:OP1	2.69	0.44
9:I:2206:A:H2'	9:I:2207:G:C8	2.52	0.44
9:I:2360:U:H2'	9:I:2361:A:C8	2.52	0.44
9:I:2365:C:O2	9:I:2368:U:O4	2.36	0.44
9:I:2462:C:H2'	9:I:2463:G:C8	2.30	0.44
9:I:2493:U:O2	9:I:2493:U:H2'	2.16	0.44
9:I:2532:G:C6	9:I:2533:A:N6	2.85	0.44
9:I:2617:C:H1'	37:m:18:LYS:HZ3	1.79	0.44
9:I:2706:G:C2	9:I:2730:G:C4	3.06	0.44
9:I:3032:G:H8	9:I:3032:G:OP2	2.00	0.44
9:I:3178:G:H8	9:I:3178:G:OP2	2.00	0.44
9:I:3215:G:C5	9:I:3232:G:C6	3.06	0.44
9:I:3304:A:C2'	9:I:3305:G:H5'	2.48	0.44
9:I:3417:U:C2'	9:I:3418:C:H6	2.24	0.44
9:I:3438:U:H4'	9:I:3439:G:OP2	2.17	0.44
9:I:3475:A:H5''	9:I:3476:U:OP2	2.18	0.44
9:I:3585:C:C6	9:I:3586:U:O2'	2.70	0.44
9:I:3588:A:C6	9:I:3690:C:N3	2.86	0.44
9:I:3596:G:C5	9:I:3597:C:C4	3.05	0.44
9:I:3602:A:O5'	9:I:3602:A:C8	2.70	0.44
9:I:3678:A:C5	9:I:3679:U:C4	3.06	0.44
9:I:3693:A:H62	9:I:3718:G:N2	2.16	0.44
9:I:3709:C:C3'	9:I:3710:G:H8	2.29	0.44
9:I:3794:C:C2'	9:I:3795:C:C6	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3810:G:C2'	9:I:3811:A:C8	2.97	0.44
9:I:3895:U:H2'	9:I:3897:C:H5	1.82	0.44
9:I:4022:U:O2'	9:I:4024:A:OP1	2.35	0.44
9:I:4025:A:C4	9:I:4153:G:H4'	2.53	0.44
9:I:4082:G:C5	9:I:4083:A:N7	2.86	0.44
9:I:4143:C:C2	9:I:4144:U:C6	3.06	0.44
9:I:4168:G:C8	9:I:4168:G:OP2	2.70	0.44
10:J:4:U:O2'	10:J:25:C:N3	2.51	0.44
10:J:15:G:O6	10:J:107:A:H2	2.00	0.44
10:J:33:A:O3'	10:J:43:G:O6	2.35	0.44
10:J:39:U:O2'	10:J:42:C:OP2	2.35	0.44
10:J:89:C:O3'	19:U:38:ARG:NH2	2.51	0.44
11:K:128:THR:HG22	11:K:129:LEU:H	1.81	0.44
13:M:21:ARG:O	13:M:114:ARG:CZ	2.65	0.44
14:N:126:ASN:OD1	14:N:157:THR:O	2.36	0.44
15:O:104:LEU:HD13	15:O:112:VAL:CG1	2.36	0.44
16:R:40:HIS:CA	40:p:70:GLN:OE1	2.66	0.44
16:R:67:ASN:C	16:R:69:ARG:N	2.75	0.44
17:S:58:LEU:N	17:S:58:LEU:HD23	2.33	0.44
19:U:44:ARG:HD2	19:U:44:ARG:N	2.19	0.44
19:U:114:ARG:O	19:U:117:PHE:HB2	2.18	0.44
22:X:146:LYS:HE2	22:X:204:GLY:N	2.32	0.44
22:X:147:GLY:HA3	22:X:202:PHE:HB2	2.00	0.44
24:Z:111:VAL:O	24:Z:111:VAL:HG23	2.16	0.44
24:Z:130:ALA:HA	24:Z:133:ASP:HB2	1.98	0.44
25:a:7:VAL:O	25:a:7:VAL:HG13	2.17	0.44
25:a:11:HIS:O	25:a:14:GLN:N	2.41	0.44
26:b:27:ASN:HA	26:b:30:MET:CB	2.47	0.44
26:b:31:VAL:HG22	26:b:32:ASP:CG	2.43	0.44
33:i:27:LEU:HD23	33:i:28:SER:C	2.43	0.44
38:n:4:SER:O	38:n:5:ALA:C	2.59	0.44
39:o:4:ILE:HA	39:o:7:LEU:CB	2.48	0.44
39:o:20:ARG:N	39:o:23:ASP:CG	2.76	0.44
39:o:22:GLY:O	39:o:45:VAL:HG23	2.17	0.44
44:t:80:ASP:CG	44:t:95:PHE:HB3	2.42	0.44
45:u:80:HIS:HD1	45:u:85:LYS:HG3	1.74	0.44
46:v:41:VAL:HA	46:v:50:PHE:O	2.18	0.44
47:w:36:ARG:O	47:w:36:ARG:HG3	2.17	0.44
1:A:2:LYS:HG2	9:I:1047:G:H4'	1.95	0.44
3:C:39:PHE:HB2	3:C:74:LEU:CD1	2.46	0.44
4:D:12:ASP:OD1	4:D:18:ILE:CA	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:17:VAL:HG13	6:F:42:MET:HG3	1.99	0.44
9:I:7:A:C6	23:Y:205:LYS:HA	2.53	0.44
9:I:47:C:C6	9:I:364:U:H5	2.35	0.44
9:I:239:G:H2'	9:I:240:G:C8	2.53	0.44
9:I:302:A:C1'	9:I:554:U:HO2'	2.30	0.44
9:I:412:G:C1'	9:I:427:G:N2	2.75	0.44
9:I:449:G:N7	9:I:480:G:C6	2.86	0.44
9:I:519:A:H8	9:I:519:A:O5'	2.01	0.44
9:I:569:G:O2'	9:I:818:A:H2'	2.17	0.44
9:I:622:C:C2	9:I:623:C:C5	3.05	0.44
9:I:804:C:H2'	9:I:804:C:O2	2.18	0.44
9:I:823:G:C6	9:I:876:G:C6	3.06	0.44
9:I:877:A:C4	9:I:878:C:C5	3.05	0.44
9:I:935:C:O2	9:I:935:C:C2'	2.59	0.44
9:I:1003:A:C2'	9:I:1004:A:O4'	2.66	0.44
9:I:1089:U:H2'	9:I:1090:U:C6	2.53	0.44
9:I:1138:G:O4'	9:I:1139:C:C6	2.70	0.44
9:I:1220:G:C2'	9:I:1221:G:H5'	2.47	0.44
9:I:1348:A:N6	9:I:1372:G:O2'	2.50	0.44
9:I:1379:U:C1'	9:I:1380:U:H5	2.31	0.44
9:I:1560:G:C8	9:I:1562:U:C5	3.06	0.44
9:I:1565:U:C2	9:I:1566:C:C6	3.05	0.44
9:I:1578:U:H5'	48:x:6:ARG:NH1	2.33	0.44
9:I:1588:G:C4	9:I:1589:A:C8	3.06	0.44
9:I:1714:G:H2'	9:I:1715:G:O5'	2.18	0.44
9:I:1744:A:C6	9:I:1745:G:C4	3.06	0.44
9:I:1829:G:P	44:t:14:THR:OG1	2.76	0.44
9:I:1859:G:H2'	9:I:1860:U:H5'	1.99	0.44
9:I:1868:A:H2'	9:I:1868:A:N3	2.31	0.44
9:I:1894:C:O2'	9:I:1895:U:C5'	2.66	0.44
9:I:1906:G:C5	9:I:1907:G:N7	2.85	0.44
9:I:1915:A:N6	9:I:3903:G:C5	2.85	0.44
9:I:1928:A:O2'	9:I:1929:A:P	2.75	0.44
9:I:2003:A:C5	9:I:2006:G:C6	3.05	0.44
9:I:2187:C:C4	9:I:2188:U:C5	3.06	0.44
9:I:2211:G:N2	9:I:2212:G:H1'	2.32	0.44
9:I:2226:G:O5'	9:I:2926:G:O2'	2.36	0.44
9:I:2364:G:C2'	9:I:2365:C:OP2	2.66	0.44
9:I:2490:A:O2'	41:q:11:GLN:NE2	2.50	0.44
9:I:2530:G:C5	9:I:2614:G:O6	2.70	0.44
9:I:2566:C:H42	9:I:2586:C:N4	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2631:G:C4	9:I:2632:G:C8	3.06	0.44
9:I:2789:C:OP1	20:V:71:ARG:CZ	2.66	0.44
9:I:2831:G:C4	9:I:2832:G:C8	3.06	0.44
9:I:2843:C:N3	9:I:2844:C:C5	2.86	0.44
9:I:3008:G:O2'	9:I:3051:C:H4'	2.18	0.44
9:I:3068:C:H2'	9:I:3069:C:C6	2.53	0.44
9:I:3093:U:H5''	43:s:39:THR:OG1	2.18	0.44
9:I:3176:G:H8	9:I:3176:G:P	2.39	0.44
9:I:3176:G:H2'	9:I:3177:U:C6	2.51	0.44
9:I:3186:U:H3'	9:I:3188:C:C4	2.53	0.44
9:I:3234:G:C2	9:I:3235:C:C2	3.05	0.44
9:I:3237:G:H8	9:I:3237:G:O5'	2.00	0.44
9:I:3291:G:C2	9:I:3317:G:C5	3.06	0.44
9:I:3309:A:C4	9:I:3311:G:C6	3.06	0.44
9:I:3309:A:H8	9:I:3309:A:OP1	2.01	0.44
9:I:3334:G:C2	9:I:3335:U:C2	3.06	0.44
9:I:3589:A:C2	9:I:3689:U:C1'	2.94	0.44
9:I:3755:C:C2'	9:I:3821:A:N1	2.77	0.44
9:I:3760:A:H4'	9:I:3761:A:H5'	1.99	0.44
9:I:3772:A:H5'	19:U:10:ARG:NH2	2.33	0.44
9:I:3796:U:O2	14:N:122:ASP:O	2.35	0.44
9:I:3800:C:N4	9:I:3801:G:C2	2.86	0.44
9:I:3802:G:C5	14:N:76:PHE:HZ	2.36	0.44
9:I:3846:A:C2'	9:I:3847:G:H5'	2.39	0.44
9:I:3885:G:C2'	9:I:3918:C:H41	2.30	0.44
9:I:3960:C:O3'	37:m:6:SER:OG	2.31	0.44
9:I:3966:G:H1	9:I:3969:C:H2'	1.83	0.44
9:I:3972:A:H3'	9:I:3973:U:C6	2.52	0.44
9:I:4030:G:C5	9:I:4031:U:C5	3.06	0.44
9:I:4158:G:C8	9:I:4158:G:O5'	2.71	0.44
9:I:4169:A:C2'	9:I:4170:C:O4'	2.63	0.44
9:I:4331:A:C2	9:I:4332:G:C4	3.06	0.44
10:J:5:G:H5'	10:J:26:C:C3'	2.47	0.44
10:J:35:C:H42	10:J:48:C:C1'	2.30	0.44
10:J:68:G:C2	10:J:69:C:O4'	2.70	0.44
11:K:68:ARG:CZ	11:K:128:THR:HG21	2.48	0.44
11:K:80:LEU:HD22	11:K:91:ALA:N	2.33	0.44
12:L:48:ILE:HD12	12:L:90:PHE:CD1	2.52	0.44
12:L:53:GLY:C	12:L:76:GLY:HA2	2.42	0.44
12:L:105:LYS:CA	12:L:177:VAL:CG1	2.96	0.44
13:M:131:THR:HG21	13:M:163:ASN:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:192:ALA:O	13:M:195:GLN:N	2.44	0.44
16:R:16:TYR:OH	16:R:52:ASP:OD2	2.30	0.44
16:R:18:VAL:HB	16:R:56:VAL:CB	2.46	0.44
17:S:81:GLY:N	39:o:67:GLU:OE2	2.38	0.44
18:T:93:ASN:O	18:T:96:LYS:HB3	2.17	0.44
18:T:123:ARG:HG3	18:T:144:GLU:O	2.18	0.44
19:U:52:ALA:O	19:U:56:ALA:CB	2.65	0.44
20:V:18:GLN:C	20:V:22:ARG:NH1	2.76	0.44
20:V:23:ASN:HA	20:V:70:THR:OG1	2.17	0.44
20:V:51:LEU:HD13	20:V:51:LEU:HA	1.75	0.44
20:V:87:PHE:CD1	20:V:94:TYR:CD1	3.06	0.44
21:W:81:ALA:CB	21:W:88:PHE:HB3	2.48	0.44
28:d:88:ASP:O	28:d:89:GLU:HB3	2.18	0.44
29:e:15:ASP:CG	29:e:68:ARG:HH21	2.21	0.44
30:f:86:ARG:HH11	30:f:89:ASN:HB3	1.83	0.44
32:h:13:HIS:CB	32:h:16:ILE:HD12	2.45	0.44
33:i:28:SER:HB3	33:i:39:ARG:HB2	2.00	0.44
38:n:77:VAL:HG12	38:n:77:VAL:O	2.16	0.44
40:p:53:LYS:CA	40:p:57:ARG:CZ	2.93	0.44
40:p:105:PHE:CZ	40:p:109:VAL:CG2	3.00	0.44
42:r:47:VAL:HG13	42:r:48:LYS:N	2.33	0.44
43:s:57:VAL:CG1	43:s:86:THR:OG1	2.61	0.44
46:v:36:HIS:HB2	46:v:69:PHE:HA	2.00	0.44
46:v:50:PHE:CE2	46:v:52:LYS:HG2	2.53	0.44
47:w:31:ASN:ND2	47:w:52:ALA:CB	2.78	0.44
47:w:38:TRP:CE2	47:w:40:GLU:OE1	2.69	0.44
1:A:60:ARG:CG	9:I:979:C:O2	2.65	0.44
2:B:50:HIS:NE2	9:I:764:G:OP1	2.50	0.44
3:C:28:ARG:HB3	9:I:110:G:C5'	2.47	0.44
3:C:57:ILE:CD1	3:C:75:ILE:HG12	2.47	0.44
4:D:28:HIS:HB3	4:D:32:GLY:H	1.82	0.44
4:D:37:ARG:HH21	9:I:279:C:P	2.39	0.44
4:D:43:VAL:HG21	4:D:58:ILE:HG22	1.97	0.44
5:E:1:GLU:CA	5:E:36:LEU:HD22	2.34	0.44
6:F:2:SER:HB3	9:I:1319:C:OP2	2.18	0.44
6:F:65:VAL:O	6:F:65:VAL:HG12	2.17	0.44
8:H:18:PHE:CD2	30:f:81:ARG:O	2.69	0.44
9:I:49:A:C1'	9:I:51:C:O4'	2.66	0.44
9:I:108:A:H3'	9:I:109:C:H5'	2.00	0.44
9:I:201:G:O2'	9:I:467:A:H8	2.00	0.44
9:I:303:U:N3	9:I:304:G:N7	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:306:C:O5'	9:I:306:C:H6	2.01	0.44
9:I:391:C:O4'	9:I:481:A:C2	2.70	0.44
9:I:431:A:C2'	9:I:432:G:H5'	2.48	0.44
9:I:593:U:C4	9:I:645:G:C6	3.06	0.44
9:I:646:C:O2	9:I:647:A:C8	2.71	0.44
9:I:714:A:H3'	9:I:715:A:C8	2.53	0.44
9:I:724:G:H2'	9:I:725:C:C5'	2.47	0.44
9:I:915:U:H2'	9:I:916:G:H8	1.82	0.44
9:I:945:A:H1'	9:I:1333:G:C1'	2.47	0.44
9:I:1063:G:OP2	9:I:1385:G:H5'	2.18	0.44
9:I:1151:A:P	29:e:68:ARG:HH12	2.41	0.44
9:I:1387:C:O2	9:I:1388:C:C6	2.70	0.44
9:I:1395:A:C2'	24:Z:20:ARG:HH22	2.31	0.44
9:I:1432:A:C2'	9:I:1433:A:C8	3.01	0.44
9:I:1481:G:H2'	9:I:1482:A:O5'	2.18	0.44
9:I:1510:A:H62	9:I:4123:U:H3	1.66	0.44
9:I:1560:G:N2	9:I:1574:A:H2'	2.33	0.44
9:I:1578:U:C5'	48:x:6:ARG:NH1	2.80	0.44
9:I:1700:U:O2	9:I:1700:U:C2'	2.65	0.44
9:I:1733:A:H2'	9:I:1734:U:O4'	2.17	0.44
9:I:1741:A:O3'	9:I:1742:G:H4'	2.18	0.44
9:I:1769:C:C2'	9:I:1770:A:C5'	2.85	0.44
9:I:1773:G:N3	9:I:1773:G:C2'	2.78	0.44
9:I:1785:G:H3'	9:I:1786:U:H6	1.83	0.44
9:I:1794:A:H61	9:I:1845:A:C5'	2.31	0.44
9:I:2006:G:H4'	9:I:2009:C:O2	2.17	0.44
9:I:2028:A:C6	9:I:3536:A:C5	3.06	0.44
9:I:2041:A:N6	9:I:2053:G:O6	2.51	0.44
9:I:2104:G:C4	9:I:2125:G:N2	2.86	0.44
9:I:2127:A:N1	9:I:2137:A:O5'	2.51	0.44
9:I:2139:U:H3	9:I:2149:G:H1	1.64	0.44
9:I:2202:U:O2	9:I:2202:U:H2'	2.16	0.44
9:I:2204:G:O2'	9:I:2226:G:C6	2.70	0.44
9:I:2237:C:C2'	9:I:2238:G:H5'	2.47	0.44
9:I:2527:U:OP2	9:I:2527:U:H4'	2.18	0.44
9:I:2534:A:N1	9:I:2610:G:O6	2.51	0.44
9:I:2787:C:C2	9:I:2788:U:C6	3.06	0.44
9:I:2789:C:H4'	20:V:71:ARG:HD3	2.00	0.44
9:I:2837:G:C6	9:I:2897:A:N6	2.86	0.44
9:I:2961:U:C2'	9:I:2962:U:O4'	2.57	0.44
9:I:3014:U:H2'	9:I:3015:G:C4'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3049:G:C4	9:I:3050:C:C5	3.06	0.44
9:I:3285:A:C2	9:I:3323:A:C4'	2.99	0.44
9:I:3358:U:C2	9:I:3372:G:O6	2.69	0.44
9:I:3358:U:O5'	9:I:3359:U:P	2.75	0.44
9:I:3372:G:C2	9:I:3373:C:C2	3.06	0.44
9:I:3381:C:H2'	9:I:3381:C:O2	2.17	0.44
9:I:3773:G:N2	9:I:3821:A:H1'	2.33	0.44
9:I:3787:G:C3'	9:I:3787:G:C8	2.99	0.44
9:I:3808:A:N3	14:N:122:ASP:OD2	2.51	0.44
9:I:3820:C:O2	9:I:3882:A:C5	2.71	0.44
9:I:3824:G:C4	9:I:3825:G:C8	3.06	0.44
9:I:3863:A:H61	9:I:3876:G:H22	1.66	0.44
9:I:3863:A:O2'	9:I:3864:G:H5'	2.17	0.44
9:I:3885:G:H22	9:I:3918:C:H2'	1.82	0.44
9:I:3964:G:C6	9:I:3965:A:N7	2.85	0.44
9:I:3988:G:C2	9:I:3989:G:C8	3.05	0.44
9:I:4052:C:H2'	9:I:4053:C:O4'	2.18	0.44
9:I:4071:A:HO2'	9:I:4072:G:P	2.39	0.44
9:I:4104:C:HO2'	9:I:4105:C:P	2.41	0.44
9:I:4157:G:C6	9:I:4158:G:C6	3.06	0.44
9:I:4161:C:H1'	15:O:108:PHE:CE1	2.43	0.44
9:I:4162:G:O4'	15:O:110:HIS:CD2	2.71	0.44
9:I:4168:G:OP2	9:I:4168:G:C3'	2.65	0.44
9:I:4239:C:C4	9:I:4240:U:C4	3.04	0.44
9:I:4312:U:H1'	9:I:4330:U:O2'	2.18	0.44
10:J:39:U:HO2'	10:J:42:C:H5	1.65	0.44
10:J:41:C:O2	10:J:41:C:C2'	2.63	0.44
10:J:78:G:H2'	10:J:79:U:N1	2.32	0.44
10:J:86:U:H5''	10:J:87:C:C5	2.52	0.44
11:K:75:ALA:HB1	11:K:93:VAL:HB	2.00	0.44
11:K:78:GLU:N	11:K:78:GLU:CD	2.76	0.44
12:L:2:ILE:HG13	12:L:100:LEU:HD23	2.00	0.44
12:L:38:LYS:CE	12:L:81:GLU:OE2	2.66	0.44
13:M:24:ASN:CB	13:M:27:LEU:HB2	2.43	0.44
13:M:161:ALA:HB1	13:M:167:VAL:O	2.18	0.44
14:N:1:ALA:H3	14:N:97:GLU:HG2	1.83	0.44
14:N:111:ARG:NH1	14:N:136:ILE:CD1	2.80	0.44
16:R:100:VAL:HG23	16:R:101:ILE:CD1	2.47	0.44
17:S:92:GLU:CG	17:S:93:GLN:H	2.29	0.44
19:U:4:PRO:HG2	19:U:92:TRP:CE3	2.52	0.44
19:U:50:ARG:HG2	19:U:54:THR:OG1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:60:VAL:N	20:V:63:ARG:NH1	2.65	0.44
21:W:54:LEU:HD22	21:W:64:ILE:HD12	2.00	0.44
21:W:181:PHE:CE1	21:W:195:PHE:HD2	2.36	0.44
22:X:7:ASN:O	22:X:11:LEU:N	2.51	0.44
22:X:113:LYS:HD3	22:X:184:ASN:OD1	2.18	0.44
22:X:155:ARG:H	22:X:162:ALA:CA	2.30	0.44
23:Y:115:GLN:HG3	23:Y:119:HIS:CE1	2.53	0.44
24:Z:92:GLU:O	24:Z:93:GLY:C	2.61	0.44
26:b:23:ALA:O	26:b:26:VAL:HG22	2.17	0.44
28:d:4:TYR:HB2	28:d:17:PHE:CD1	2.53	0.44
31:g:42:LYS:HZ3	31:g:90:PRO:HG3	1.82	0.44
35:k:31:LEU:HD13	35:k:31:LEU:HA	1.87	0.44
36:l:55:GLY:C	36:l:58:ILE:HG22	2.42	0.44
37:m:17:VAL:CG2	37:m:19:ARG:HG3	2.46	0.44
41:q:84:ARG:CG	41:q:84:ARG:NH1	2.79	0.44
42:r:37:THR:HG22	42:r:37:THR:O	2.17	0.44
43:s:5:GLU:N	43:s:5:GLU:CD	2.76	0.44
43:s:56:GLU:OE1	43:s:86:THR:HG22	2.17	0.44
44:t:4:ILE:CA	44:t:8:ASP:OD2	2.65	0.44
46:v:40:ASN:O	46:v:41:VAL:HG23	2.17	0.44
47:w:54:GLY:C	47:w:58:ILE:HD12	2.43	0.44
49:y:9:THR:CG2	49:y:55:LYS:HE3	2.13	0.44
49:y:44:ARG:O	49:y:47:ILE:CB	2.64	0.44
49:y:47:ILE:O	49:y:50:VAL:N	2.48	0.44
2:B:10:ILE:HG21	2:B:30:LEU:H	1.82	0.44
3:C:8:ARG:HB2	3:C:17:TYR:CD1	2.51	0.44
7:G:27:ARG:CG	7:G:30:ILE:HD12	2.43	0.44
8:H:40:PRO:O	8:H:44:ARG:NE	2.49	0.44
8:H:40:PRO:HG2	9:I:4429:G:OP1	2.18	0.44
9:I:47:C:H6	9:I:364:U:C5	2.36	0.44
9:I:59:A:N6	9:I:109:C:N4	2.66	0.44
9:I:59:A:N1	9:I:109:C:N3	2.66	0.44
9:I:92:U:C2'	9:I:93:G:H5''	2.47	0.44
9:I:100:A:H2'	9:I:101:G:H5'	1.98	0.44
9:I:198:A:H2'	9:I:199:G:H8	1.83	0.44
9:I:440:A:H2'	9:I:441:G:C8	2.53	0.44
9:I:517:C:H5'	9:I:518:C:C5	2.53	0.44
9:I:597:U:C2	9:I:598:C:C5	3.06	0.44
9:I:607:A:H2'	9:I:608:A:O4'	2.17	0.44
9:I:626:G:C2'	9:I:627:G:H5'	2.47	0.44
9:I:653:G:O6	9:I:751:G:N3	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:682:G:N3	30:f:28:ASN:OD1	2.51	0.44
9:I:703:A:N6	30:f:32:TRP:CH2	2.86	0.44
9:I:706:U:O2	30:f:27:GLY:O	2.35	0.44
9:I:737:C:H5''	25:a:68:GLN:NE2	2.33	0.44
9:I:780:A:C5	9:I:800:U:O2	2.70	0.44
9:I:853:U:H2'	9:I:854:U:H6	1.81	0.44
9:I:1127:C:H6	9:I:1127:C:O5'	2.01	0.44
9:I:1220:G:O2'	9:I:1221:G:H5'	2.17	0.44
9:I:1379:U:OP2	26:b:2:ARG:HA	2.18	0.44
9:I:1379:U:C5	26:b:2:ARG:HB2	2.53	0.44
9:I:1479:A:N6	9:I:4328:G:N3	2.65	0.44
9:I:1548:G:C6	9:I:1678:G:O6	2.71	0.44
9:I:1693:U:C2'	9:I:1694:G:H5'	2.48	0.44
9:I:1799:A:C8	9:I:1822:A:N1	2.85	0.44
9:I:1804:U:C2'	9:I:1805:C:O5'	2.65	0.44
9:I:1819:G:C4	9:I:1820:A:N7	2.86	0.44
9:I:1843:C:O2	9:I:1843:C:C2'	2.64	0.44
9:I:1960:A:C2'	9:I:1961:C:H5'	2.48	0.44
9:I:2049:G:OP2	9:I:2050:C:O5'	2.36	0.44
9:I:2087:C:O2'	18:T:19:LEU:CD1	2.65	0.44
9:I:2210:U:H2'	9:I:2211:G:H5'	2.00	0.44
9:I:2425:U:O5'	9:I:2425:U:H6	2.00	0.44
9:I:2472:G:H2'	9:I:2473:A:H8	1.82	0.44
9:I:2510:G:C6	9:I:2511:G:N7	2.86	0.44
9:I:2530:G:C4	9:I:2614:G:C6	3.06	0.44
9:I:2963:A:C2'	9:I:2964:A:H8	2.25	0.44
9:I:2984:A:H3'	9:I:2984:A:OP2	2.18	0.44
9:I:2991:U:C4	9:I:3072:U:C5'	3.01	0.44
9:I:2999:A:C6	9:I:3000:U:C5	3.05	0.44
9:I:3073:A:H3'	9:I:3074:A:C8	2.52	0.44
9:I:3083:U:H2'	9:I:3084:A:N7	2.30	0.44
9:I:3089:C:C2'	9:I:3090:A:H5'	2.48	0.44
9:I:3195:A:C3'	9:I:3196:G:C8	2.89	0.44
9:I:3204:G:C2'	9:I:3205:A:H5'	2.48	0.44
9:I:3224:C:OP1	9:I:3224:C:C4'	2.66	0.44
9:I:3233:A:OP1	9:I:3234:G:O6	2.35	0.44
9:I:3277:A:C2	9:I:4081:A:C5	3.06	0.44
9:I:3348:A:C2	9:I:3582:A:C1'	3.01	0.44
9:I:3356:G:C2'	9:I:3357:G:H8	2.29	0.44
9:I:3385:G:C5	9:I:3386:C:C4	3.05	0.44
9:I:3413:A:C2	9:I:3414:C:HI'	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3584:A:H2'	9:I:3585:C:O5'	2.18	0.44
9:I:3694:C:C2'	9:I:3695:G:C8	2.98	0.44
9:I:3749:G:C4	9:I:3750:G:C8	3.06	0.44
9:I:3797:G:P	14:N:119:LYS:NZ	2.90	0.44
9:I:3820:C:O2	9:I:3882:A:N7	2.51	0.44
9:I:3820:C:O2'	9:I:3821:A:N7	2.42	0.44
9:I:3826:C:H2'	9:I:3829:A:C2	2.53	0.44
9:I:3879:C:N3	9:I:3880:A:C6	2.85	0.44
9:I:3968:U:H5	9:I:4023:G:N2	2.16	0.44
9:I:3972:A:C8	9:I:4023:G:O6	2.71	0.44
9:I:4022:U:H1'	9:I:4030:G:N2	2.32	0.44
9:I:4023:G:O3'	15:O:174:LYS:HA	2.17	0.44
9:I:4034:C:C1'	9:I:4235:A:HO2'	2.24	0.44
9:I:4134:G:N1	9:I:4135:G:C5	2.85	0.44
9:I:4147:U:C2	9:I:4162:G:C2	3.05	0.44
9:I:4172:C:C2'	9:I:4173:A:H5'	2.48	0.44
9:I:4195:U:C2'	9:I:4196:G:OP1	2.66	0.44
9:I:4229:G:C6	9:I:4264:G:C4	3.06	0.44
9:I:4251:A:H61	15:O:66:THR:HG23	1.81	0.44
9:I:4252:A:H2	15:O:70:LEU:CD2	2.18	0.44
9:I:4341:U:C4	9:I:4342:G:C6	3.06	0.44
10:J:32:G:H2'	10:J:33:A:C4'	2.47	0.44
10:J:33:A:O3'	10:J:34:C:H3'	2.18	0.44
10:J:41:C:O2'	14:N:63:LYS:O	2.26	0.44
11:K:2:VAL:HA	11:K:17:LYS:O	2.18	0.44
11:K:2:VAL:CG2	11:K:18:VAL:HG22	2.48	0.44
11:K:5:CYS:HB2	11:K:15:VAL:H	1.83	0.44
11:K:77:VAL:CG2	11:K:93:VAL:CG1	2.95	0.44
11:K:80:LEU:CD1	11:K:89:ASN:HB2	2.48	0.44
11:K:260:LYS:O	11:K:260:LYS:HG3	2.18	0.44
12:L:114:LYS:HE3	12:L:197:THR:H	1.83	0.44
13:M:29:HIS:CG	18:T:7:SER:O	2.71	0.44
13:M:141:MET:O	13:M:142:ALA:HB3	2.18	0.44
14:N:79:ARG:H	14:N:79:ARG:CD	2.31	0.44
14:N:95:MET:HE1	14:N:96:TRP:CE3	2.53	0.44
14:N:121:PHE:CD1	14:N:165:GLY:HA3	2.53	0.44
15:O:28:LYS:CE	15:O:79:THR:OG1	2.66	0.44
15:O:32:LEU:CD2	15:O:74:MET:SD	3.06	0.44
16:R:31:GLU:O	16:R:34:ARG:CG	2.59	0.44
19:U:121:ALA:CA	19:U:124:LEU:HG	2.47	0.44
19:U:126:ILE:O	19:U:128:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:62:ASN:HA	20:V:65:LEU:HB3	1.99	0.44
20:V:65:LEU:CA	20:V:68:ALA:HB3	2.43	0.44
21:W:63:LYS:HG2	21:W:156:ASP:OD2	2.16	0.44
21:W:123:PHE:HD2	21:W:126:LEU:CD2	2.26	0.44
25:a:46:GLN:OE1	25:a:56:LYS:N	2.51	0.44
29:e:23:GLU:O	29:e:26:LYS:HG2	2.17	0.44
29:e:45:PHE:CE2	29:e:47:VAL:CG1	3.01	0.44
34:j:18:TYR:CE2	36:l:33:THR:O	2.71	0.44
34:j:36:PHE:HB2	34:j:43:HIS:CG	2.52	0.44
37:m:17:VAL:HG11	37:m:19:ARG:CZ	2.47	0.44
38:n:29:ARG:NE	38:n:102:VAL:HG23	2.33	0.44
38:n:76:ALA:C	38:n:78:ALA:H	2.26	0.44
38:n:103:GLN:CG	38:n:107:ASP:OD2	2.66	0.44
39:o:12:MET:CA	39:o:54:LEU:HD13	2.48	0.44
39:o:16:VAL:HG13	39:o:83:ILE:HD12	1.98	0.44
39:o:27:VAL:CG1	39:o:80:VAL:HG12	2.45	0.44
40:p:44:TYR:HB3	40:p:48:ASP:CG	2.42	0.44
40:p:81:GLY:CA	40:p:116:LEU:HA	2.48	0.44
40:p:89:ILE:HG22	40:p:94:LEU:HD23	1.99	0.44
41:q:60:LYS:HG3	41:q:60:LYS:O	2.17	0.44
41:q:71:LYS:CG	41:q:90:ARG:HD2	2.48	0.44
43:s:28:ASN:O	43:s:87:LEU:CB	2.63	0.44
43:s:44:LYS:C	43:s:48:GLN:HG3	2.43	0.44
44:t:45:GLN:OE1	44:t:55:GLY:HA2	2.18	0.44
44:t:88:ASP:CG	44:t:89:GLY:H	2.25	0.44
45:u:62:THR:OG1	45:u:69:GLU:CB	2.66	0.44
49:y:4:ILE:O	49:y:6:ILE:HD12	2.18	0.44
1:A:2:LYS:HB3	9:I:1214:G:C3'	2.47	0.44
1:A:27:LYS:HE3	1:A:47:LEU:CD1	2.37	0.44
3:C:68:SER:OG	9:I:377:G:P	2.76	0.44
4:D:70:TRP:H	9:I:253:G:C4'	2.31	0.44
4:D:76:VAL:C	4:D:77:GLU:HG3	2.42	0.44
7:G:65:ILE:HG13	7:G:69:LYS:HE2	2.00	0.44
9:I:75:G:H2'	9:I:76:A:O4'	2.18	0.44
9:I:237:A:H2'	9:I:238:U:O4'	2.18	0.44
9:I:257:G:H2'	9:I:258:G:C8	2.53	0.44
9:I:257:G:C4	9:I:258:G:C8	3.06	0.44
9:I:319:A:C2	9:I:333:C:C2	3.05	0.44
9:I:382:A:C2'	9:I:383:G:H5'	2.48	0.44
9:I:470:U:C4	9:I:471:U:C4	3.06	0.44
9:I:474:C:H2'	9:I:475:U:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:505:G:H3'	9:I:506:C:C6	2.53	0.44
9:I:551:U:H5'	31:g:82:ARG:HH11	1.83	0.44
9:I:552:A:C2	9:I:553:A:C5	3.06	0.44
9:I:611:C:H2'	9:I:612:C:H6	1.79	0.44
9:I:841:U:H4'	9:I:845:G:O6	2.18	0.44
9:I:857:G:N1	9:I:868:G:H2'	2.33	0.44
9:I:902:G:C6	9:I:903:U:C4	3.06	0.44
9:I:1260:A:P	9:I:1261:C:H5	2.41	0.44
9:I:1435:U:H2'	9:I:1435:U:O2	2.18	0.44
9:I:1485:C:N4	9:I:1486:G:C6	2.85	0.44
9:I:1629:C:H2'	9:I:1630:C:H6	1.82	0.44
9:I:1640:C:HO2'	9:I:1641:G:P	2.38	0.44
9:I:1677:G:N3	9:I:1677:G:H2'	2.33	0.44
9:I:1718:A:H2'	9:I:1719:A:C8	2.53	0.44
9:I:1809:A:H5'	44:t:16:LYS:HD3	1.98	0.44
9:I:1860:U:C3'	9:I:1861:G:O4'	2.66	0.44
9:I:1882:A:C2'	9:I:1883:C:O5'	2.66	0.44
9:I:1891:A:C2	9:I:1892:U:H1'	2.52	0.44
9:I:1952:G:N1	9:I:1958:G:N7	2.64	0.44
9:I:1968:G:C6	9:I:1969:G:C5	3.06	0.44
9:I:1980:A:O3'	44:t:43:LYS:HB3	2.17	0.44
9:I:2016:C:H2'	9:I:2017:C:H6	1.83	0.44
9:I:2081:C:H2'	9:I:2082:A:C8	2.49	0.44
9:I:2136:G:N1	18:T:111:ILE:HG12	2.33	0.44
9:I:2211:G:C5	9:I:2221:A:C5	3.06	0.44
9:I:2256:A:H3'	9:I:2257:G:H5''	2.00	0.44
9:I:2354:C:N3	9:I:2418:G:C6	2.86	0.44
9:I:2366:A:N3	9:I:2366:A:H2'	2.32	0.44
9:I:2373:C:H2'	9:I:2374:G:H8	1.83	0.44
9:I:2383:G:C2'	9:I:2384:U:H5'	2.48	0.44
9:I:2451:C:N3	9:I:2453:A:C4	2.86	0.44
9:I:2481:C:C2	9:I:2482:A:C8	3.06	0.44
9:I:2617:C:O2'	37:m:21:GLY:O	2.35	0.44
9:I:2639:C:C2	9:I:2640:C:C5	3.05	0.44
9:I:2677:U:H2'	9:I:2678:U:O4'	2.18	0.44
9:I:2696:G:C6	9:I:2697:U:N3	2.86	0.44
9:I:2900:U:C2	9:I:2901:G:N7	2.86	0.44
9:I:2946:G:C4	9:I:4196:G:O6	2.71	0.44
9:I:2971:A:C2	9:I:3009:A:C5	3.06	0.44
9:I:3016:A:O5'	9:I:3017:U:C6	2.70	0.44
9:I:3047:A:O2'	9:I:3048:U:H2'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3072:U:H2'	9:I:3073:A:C5'	2.38	0.44
9:I:3084:A:C2	9:I:3085:A:N7	2.85	0.44
9:I:3276:U:C6	9:I:4103:U:C4	3.06	0.44
9:I:3309:A:H1'	9:I:3311:G:C8	2.53	0.44
9:I:3371:A:N6	9:I:3372:G:C6	2.85	0.44
9:I:3390:G:C6	9:I:3391:G:C5	3.06	0.44
9:I:3419:C:H2'	9:I:3420:U:C4	2.53	0.44
9:I:3588:A:N3	9:I:3588:A:H2'	2.32	0.44
9:I:3630:G:O6	9:I:3650:G:N3	2.51	0.44
9:I:3779:C:H2'	9:I:3781:A:C1'	2.47	0.44
9:I:3783:G:C2	9:I:3784:G:C1'	2.98	0.44
9:I:3802:G:C6	14:N:76:PHE:CZ	3.06	0.44
9:I:3806:U:O2'	14:N:36:ASN:CG	2.61	0.44
9:I:3810:G:O3'	9:I:3811:A:O4'	2.36	0.44
9:I:3818:U:O4'	9:I:3831:G:OP1	2.35	0.44
9:I:3853:C:H2'	9:I:3854:G:O4'	2.17	0.44
9:I:4020:G:C2	9:I:4032:C:C2	3.06	0.44
9:I:4100:C:H2'	9:I:4101:G:C8	2.53	0.44
9:I:4129:A:O2'	12:L:49:GLN:HG3	2.17	0.44
9:I:4153:G:H1'	9:I:4156:A:N6	2.24	0.44
9:I:4171:G:C4	9:I:4172:C:C5	3.05	0.44
9:I:4178:U:O3'	39:o:72:VAL:CG1	2.64	0.44
9:I:4212:G:C3'	39:o:95:LYS:HB2	2.48	0.44
9:I:4266:C:P	12:L:207:VAL:HG11	2.57	0.44
9:I:4316:G:OP1	12:L:115:GLY:HA2	2.18	0.44
9:I:4347:G:C2	9:I:4348:A:C4	3.06	0.44
9:I:4350:G:H2'	9:I:4351:A:O4'	2.18	0.44
10:J:32:G:H2'	10:J:33:A:C5'	2.43	0.44
10:J:72:A:H2	45:u:37:PRO:CG	2.23	0.44
10:J:74:G:C6	10:J:75:G:C4	3.06	0.44
11:K:43:ASN:OD1	11:K:43:ASN:C	2.60	0.44
12:L:85:ALA:C	12:L:87:GLY:N	2.67	0.44
14:N:173:ASP:O	14:N:174:PHE:C	2.60	0.44
15:O:21:GLN:OE1	15:O:37:ASN:O	2.36	0.44
15:O:71:LEU:HD23	15:O:75:VAL:CG2	2.48	0.44
16:R:4:PHE:CG	40:p:99:VAL:HG11	2.53	0.44
16:R:31:GLU:CB	16:R:142:ILE:CG1	2.90	0.44
16:R:119:PHE:CD2	16:R:122:LEU:HB2	2.53	0.44
17:S:61:VAL:HG12	17:S:85:VAL:O	2.17	0.44
17:S:105:ARG:O	17:S:108:ARG:HB3	2.18	0.44
18:T:71:ALA:O	18:T:74:THR:N	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:75:ALA:H	18:T:107:PHE:C	2.24	0.44
18:T:92:LEU:CD2	18:T:106:GLU:HA	2.48	0.44
18:T:111:ILE:C	18:T:131:ALA:HB2	2.43	0.44
19:U:65:ILE:O	19:U:66:ARG:NH2	2.51	0.44
19:U:91:TYR:HE2	19:U:93:VAL:CG1	2.31	0.44
20:V:8:ARG:CD	20:V:43:GLU:HG3	2.48	0.44
20:V:28:LEU:O	20:V:28:LEU:HG	2.17	0.44
21:W:31:ALA:HB2	21:W:36:HIS:HD1	1.79	0.44
21:W:160:VAL:CG1	21:W:163:ALA:HA	2.47	0.44
22:X:147:GLY:CA	22:X:202:PHE:HB3	2.48	0.44
22:X:153:SER:OG	22:X:164:THR:OG1	2.29	0.44
23:Y:75:TYR:HE1	23:Y:200:VAL:CG1	2.24	0.44
23:Y:84:ASN:HB3	23:Y:87:GLU:HB2	2.00	0.44
24:Z:32:ASP:OD2	24:Z:36:ARG:HG2	2.17	0.44
25:a:38:ARG:O	25:a:62:MET:HA	2.18	0.44
28:d:52:VAL:HG22	28:d:91:LEU:HD21	1.98	0.44
28:d:115:LEU:HB3	28:d:117:LYS:O	2.18	0.44
30:f:9:ALA:HA	30:f:21:THR:O	2.18	0.44
30:f:113:LYS:HZ1	30:f:116:ARG:HD3	1.79	0.44
34:j:45:ILE:HG21	34:j:47:LYS:HE3	2.00	0.44
36:l:56:LEU:HD12	36:l:56:LEU:N	2.33	0.44
38:n:10:ALA:HB2	38:n:94:SER:C	2.43	0.44
38:n:34:ILE:HG22	38:n:52:THR:HG23	2.00	0.44
43:s:4:GLU:HG2	43:s:8:LEU:HG	2.00	0.44
43:s:86:THR:C	43:s:87:LEU:HD23	2.43	0.44
45:u:68:LYS:HA	45:u:68:LYS:CE	2.40	0.44
49:y:56:VAL:HG21	49:y:58:GLU:OE2	2.17	0.44
1:A:12:ARG:HE	1:A:58:ARG:NE	2.16	0.43
2:B:48:ASP:OD1	2:B:51:SER:HB2	2.17	0.43
2:B:52:ARG:O	2:B:55:LEU:N	2.50	0.43
3:C:1:MET:HE3	9:I:132:U:O3'	2.18	0.43
4:D:12:ASP:C	4:D:13:LYS:HG2	2.43	0.43
4:D:15:GLU:HB3	9:I:272:U:P	2.58	0.43
5:E:42:ARG:NH1	9:I:734:C:O2'	2.51	0.43
6:F:17:VAL:HA	6:F:42:MET:CE	2.48	0.43
7:G:51:GLU:C	7:G:54:PRO:HD2	2.42	0.43
9:I:14:G:O2'	24:Z:13:SER:OG	2.34	0.43
9:I:443:G:O2'	9:I:444:G:H5'	2.17	0.43
9:I:577:C:C2'	9:I:578:A:H5'	2.48	0.43
9:I:593:U:H3	9:I:644:G:H1	0.58	0.43
9:I:618:U:O5'	9:I:618:U:H6	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:634:A:H2'	9:I:635:U:H6	1.83	0.43
9:I:641:A:H1'	27:c:108:GLY:CA	2.47	0.43
9:I:663:G:C5'	9:I:664:A:OP2	2.66	0.43
9:I:685:U:O4'	30:f:32:TRP:CZ2	2.70	0.43
9:I:995:A:C4	9:I:996:U:C5	3.04	0.43
9:I:1082:U:H5'	9:I:1085:U:C4	2.53	0.43
9:I:1126:G:H1'	9:I:1279:A:C6	2.53	0.43
9:I:1186:G:H2'	9:I:1187:A:C8	2.53	0.43
9:I:1296:G:H1'	26:b:113:LYS:HE2	1.99	0.43
9:I:1395:A:HO2'	24:Z:20:ARG:NH2	2.14	0.43
9:I:1401:4OC:HM23	9:I:1401:4OC:H1'	1.53	0.43
9:I:1478:A:C2	9:I:1479:A:N6	2.86	0.43
9:I:1479:A:H5'	33:i:40:HIS:NE2	2.33	0.43
9:I:1493:U:H2'	9:I:1494:U:H6	1.80	0.43
9:I:1634:G:N2	9:I:1646:A:H1'	2.33	0.43
9:I:1639:U:H1'	9:I:1641:G:H22	1.83	0.43
9:I:1664:C:O5'	9:I:1664:C:H6	2.01	0.43
9:I:1665:A:C8	9:I:1665:A:OP2	2.70	0.43
9:I:1780:U:H3'	9:I:1781:C:C6	2.53	0.43
9:I:1801:G:O2'	9:I:1802:C:P	2.76	0.43
9:I:1802:C:P	44:t:78:LYS:HZ3	2.40	0.43
9:I:1860:U:C5	9:I:1861:G:C6	3.06	0.43
9:I:1870:G:N7	9:I:1923:A:OP2	2.50	0.43
9:I:1992:A:H2'	9:I:1993:G:H8	1.82	0.43
9:I:2029:A:C5	9:I:3536:A:C2	3.06	0.43
9:I:2070:G:N3	9:I:3524:6MZ:N7	2.65	0.43
9:I:2115:U:O2'	13:M:35:TYR:HE2	2.01	0.43
9:I:2133:A:H3'	9:I:2134:C:C5'	2.47	0.43
9:I:2206:A:C6	9:I:2207:G:C4	3.06	0.43
9:I:2311:U:C2	18:T:21:ARG:NH1	2.86	0.43
9:I:2501:C:O5'	9:I:2502:A:H2'	2.18	0.43
9:I:2515:A:O2'	9:I:2517:U:O4'	2.35	0.43
9:I:2541:G:C2'	9:I:2604:G:H1	2.19	0.43
9:I:2636:A:N9	9:I:2638:A:C8	2.86	0.43
9:I:2912:G:C6	9:I:3072:U:H3'	2.52	0.43
9:I:2970:U:OP2	9:I:3008:G:N1	2.42	0.43
9:I:3037:G:H2'	9:I:3038:A:OP2	2.17	0.43
9:I:3043:A:C2	9:I:3044:C:C2	3.07	0.43
9:I:3113:G:C5	9:I:3114:G:N7	2.86	0.43
9:I:3164:C:P	9:I:3164:C:H3'	2.57	0.43
9:I:3208:U:C6	9:I:3208:U:C3'	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3333:G:C2	9:I:3421:A:N6	2.86	0.43
9:I:3343:G:C2	9:I:3344:G:C5	3.06	0.43
9:I:3360:A:N1	9:I:3370:A:H1'	2.32	0.43
9:I:3410:A:C2'	9:I:3411:PSU:O4'	2.65	0.43
9:I:3689:U:H2'	9:I:3690:C:C5'	2.46	0.43
9:I:3724:G:H1'	47:w:31:ASN:CG	2.43	0.43
9:I:3780:G:C6	34:j:31:LEU:HD13	2.53	0.43
9:I:3807:C:H4'	14:N:87:LYS:HZ2	1.82	0.43
9:I:3808:A:C2	9:I:3809:G:N7	2.86	0.43
9:I:3824:G:C5	9:I:3825:G:C5	3.06	0.43
9:I:3839:G:C5	9:I:3866:U:O2	2.71	0.43
9:I:3848:C:H2'	9:I:3849:G:H8	1.82	0.43
9:I:3853:C:H2'	9:I:3854:G:H8	1.82	0.43
9:I:3880:A:C4	9:I:3881:U:C4	3.06	0.43
9:I:3949:G:C5	9:I:3950:C:C5	3.06	0.43
9:I:3979:G:H2'	9:I:3980:C:H6	1.83	0.43
9:I:4073:C:N3	9:I:4074:PSU:C2	2.86	0.43
9:I:4130:C:O2	9:I:4277:U:N3	2.50	0.43
9:I:4189:U:C4	9:I:4208:G:C6	3.06	0.43
9:I:4196:G:N3	9:I:4197:C:C4	2.86	0.43
9:I:4242:A:O3'	15:O:3:VAL:CB	2.65	0.43
9:I:4308:A:H2'	9:I:4308:A:N3	2.32	0.43
9:I:4337:G:H2'	9:I:4338:G:C8	2.53	0.43
9:I:4368:U:C2	9:I:4369:A:C8	3.06	0.43
10:J:15:G:OP1	10:J:108:A:P	2.76	0.43
10:J:65:A:C2'	10:J:106:G:O6	2.65	0.43
10:J:77:A:H2'	10:J:78:G:H5'	1.91	0.43
10:J:100:A:C6	10:J:101:G:C5	3.06	0.43
12:L:1:MET:HA	12:L:100:LEU:HG	1.98	0.43
13:M:12:LEU:HG	13:M:13:THR:N	2.33	0.43
13:M:147:LEU:HD23	13:M:186:VAL:CG2	2.48	0.43
14:N:2:LYS:HB2	14:N:100:GLU:CD	2.42	0.43
14:N:43:ILE:HD12	14:N:77:LYS:HG3	1.99	0.43
14:N:48:LEU:CD2	14:N:147:ARG:HD2	2.49	0.43
14:N:78:ILE:HG21	14:N:84:ILE:CD1	2.48	0.43
14:N:95:MET:C	14:N:98:PHE:H	2.26	0.43
15:O:9:VAL:O	15:O:75:VAL:HG11	2.18	0.43
16:R:96:ARG:HD3	16:R:99:ARG:CD	2.47	0.43
17:S:18:ARG:O	17:S:19:VAL:CG1	2.66	0.43
17:S:70:ARG:CG	17:S:71:ARG:N	2.81	0.43
17:S:105:ARG:NH2	17:S:122:VAL:HG22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:20:GLY:O	18:T:21:ARG:HD3	2.18	0.43
18:T:92:LEU:HD11	18:T:105:ILE:C	2.42	0.43
18:T:92:LEU:CD2	18:T:106:GLU:HG2	2.28	0.43
20:V:8:ARG:NE	20:V:43:GLU:CG	2.79	0.43
20:V:45:ARG:O	20:V:50:PRO:CD	2.66	0.43
23:Y:66:VAL:HG12	23:Y:70:GLN:HG2	1.98	0.43
23:Y:106:PHE:CE1	23:Y:172:VAL:HG23	2.52	0.43
24:Z:35:GLY:O	24:Z:36:ARG:C	2.59	0.43
24:Z:97:ILE:HG23	24:Z:115:LEU:HD12	1.99	0.43
25:a:51:ILE:C	25:a:53:LYS:H	2.26	0.43
26:b:46:LEU:O	26:b:57:GLU:HG3	2.17	0.43
31:g:20:VAL:CG2	31:g:23:LEU:CB	2.96	0.43
31:g:106:VAL:HB	31:g:116:TYR:HB3	1.99	0.43
32:h:39:ALA:CB	32:h:42:VAL:HG22	2.47	0.43
32:h:112:ARG:O	32:h:112:ARG:HG3	2.18	0.43
33:i:30:ASP:HB2	33:i:37:HIS:CE1	2.52	0.43
36:l:2:LYS:HG2	36:l:63:TYR:OH	2.18	0.43
38:n:10:ALA:CB	38:n:94:SER:HA	2.48	0.43
39:o:11:GLN:C	39:o:54:LEU:HD13	2.43	0.43
39:o:23:ASP:HA	39:o:89:GLY:H	1.81	0.43
39:o:29:VAL:CG2	39:o:73:PHE:HE1	2.30	0.43
40:p:44:TYR:C	40:p:48:ASP:CG	2.85	0.43
41:q:20:VAL:HG22	41:q:98:ILE:CD1	2.47	0.43
41:q:97:LYS:CG	41:q:98:ILE:N	2.81	0.43
44:t:52:ASN:HA	44:t:54:PRO:HD2	1.99	0.43
44:t:84:PHE:O	44:t:94:PHE:HE2	2.01	0.43
45:u:26:PHE:CE1	45:u:86:LEU:HB2	2.53	0.43
45:u:63:ILE:H	45:u:70:ILE:HG22	1.82	0.43
48:x:33:SER:HB3	48:x:35:GLN:CD	2.42	0.43
1:A:68:ARG:CG	1:A:69:PRO:CD	2.95	0.43
3:C:12:LYS:HD3	9:I:44:G:OP1	2.18	0.43
4:D:41:LEU:HD13	4:D:70:TRP:CH2	2.52	0.43
5:E:44:ARG:CA	25:a:49:TYR:OH	2.65	0.43
9:I:25:A:H61	9:I:557:G:C2'	2.31	0.43
9:I:35:C:H5''	31:g:118:VAL:O	2.18	0.43
9:I:112:G:H1'	9:I:353:G:H5'	1.97	0.43
9:I:127:G:C2	9:I:128:A:C5	3.06	0.43
9:I:319:A:H2'	9:I:320:A:O4'	2.18	0.43
9:I:321:C:O2'	9:I:322:U:H5'	2.18	0.43
9:I:361:G:C2	9:I:364:U:OP2	2.70	0.43
9:I:416:G:H2'	9:I:417:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:498:A:H4'	9:I:499:G:OP1	2.17	0.43
9:I:527:C:H2'	9:I:528:G:H5'	2.00	0.43
9:I:587:G:H2'	9:I:588:U:C6	2.53	0.43
9:I:603:G:N1	9:I:634:A:C6	2.86	0.43
9:I:622:C:H2'	9:I:623:C:C6	2.54	0.43
9:I:890:U:O2	9:I:890:U:C2'	2.66	0.43
9:I:1187:A:H2'	9:I:1188:U:H5'	1.99	0.43
9:I:1227:C:H2'	9:I:1228:A:H8	1.83	0.43
9:I:1249:A:C2	9:I:1369:G:H1'	2.52	0.43
9:I:1304:G:H2'	9:I:1305:A:C8	2.53	0.43
9:I:1435:U:C2	9:I:1436:A:N7	2.86	0.43
9:I:1479:A:C2	9:I:4310:G:N2	2.77	0.43
9:I:1505:A:H2'	9:I:1506:A:O5'	2.17	0.43
9:I:1560:G:O2'	9:I:1562:U:C5	2.67	0.43
9:I:1621:G:C6	9:I:1631:A:C8	3.06	0.43
9:I:1665:A:H8	9:I:1665:A:OP2	2.01	0.43
9:I:1691:A:O5'	9:I:1691:A:H8	2.01	0.43
9:I:1710:C:O2'	9:I:1711:C:H5'	2.17	0.43
9:I:1785:G:C6	9:I:1856:G:C8	3.06	0.43
9:I:1796:U:P	44:t:91:LYS:NZ	2.91	0.43
9:I:1832:A:C3'	9:I:1833:G:H5''	2.48	0.43
9:I:1847:A:C4	9:I:1848:A:N1	2.87	0.43
9:I:1914:C:O2'	9:I:1915:A:O5'	2.34	0.43
9:I:1919:U:H3'	9:I:1920:C:C6	2.53	0.43
9:I:1934:U:H4'	9:I:1935:C:OP1	2.18	0.43
9:I:1949:A:C2	9:I:1950:G:C1'	3.01	0.43
9:I:2015:A:H5''	9:I:2016:C:OP2	2.19	0.43
9:I:2063:A:H1'	9:I:3512:G:N2	2.33	0.43
9:I:2103:A:C8	9:I:2155:A:C6	3.06	0.43
9:I:2115:U:H4'	9:I:2116:A:OP2	2.18	0.43
9:I:2141:U:C2	9:I:2142:U:N3	2.86	0.43
9:I:2371:U:O5'	9:I:2372:U:OP1	2.36	0.43
9:I:2402:C:N3	9:I:2403:A:C6	2.85	0.43
9:I:2405:A:C5	19:U:9:PHE:CD2	3.06	0.43
9:I:2503:A:OP2	16:R:39:LYS:NZ	2.42	0.43
9:I:2634:C:P	16:R:25:LEU:HB3	2.58	0.43
9:I:2691:G:C2	9:I:2692:U:C6	3.06	0.43
9:I:2733:G:H2'	9:I:2734:U:O5'	2.17	0.43
9:I:2753:G:N3	9:I:2754:A:C8	2.86	0.43
9:I:2755:C:C2'	9:I:2756:A:O5'	2.66	0.43
9:I:2834:U:O2	9:I:3097:A:O4'	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2837:G:C8	9:I:3091:A:C5	3.06	0.43
9:I:2907:A:N6	9:I:3084:A:N6	2.66	0.43
9:I:2910:G:H21	9:I:3079:C:N4	2.16	0.43
9:I:2916:G:C2'	9:I:2917:G:O5'	2.65	0.43
9:I:3073:A:C3'	9:I:3074:A:C8	3.01	0.43
9:I:3136:G:H2'	9:I:3137:G:O4'	2.18	0.43
9:I:3151:U:H2'	9:I:3152:C:H6	1.83	0.43
9:I:3175:G:C2	9:I:3256:A:C5	3.06	0.43
9:I:3215:G:N2	9:I:3233:A:P	2.89	0.43
9:I:3291:G:C6	9:I:3292:U:C4	3.06	0.43
9:I:3399:C:H2'	9:I:3424:G:C8	2.52	0.43
9:I:3401:G:N1	9:I:3417:U:C2	2.74	0.43
9:I:3420:U:C2'	9:I:3422:A:N7	2.81	0.43
9:I:3489:U:H3'	9:I:3490:C:H2'	1.99	0.43
9:I:3495:C:C1'	9:I:4183:U:N3	2.81	0.43
9:I:3528:U:C2	9:I:3529:G:N7	2.87	0.43
9:I:3673:C:N3	9:I:3674:U:H5	2.16	0.43
9:I:3681:U:H2'	9:I:3682:U:H5'	1.99	0.43
9:I:3791:A:H8	9:I:3791:A:OP2	2.01	0.43
9:I:3797:G:C2	9:I:3808:A:N7	2.87	0.43
9:I:3802:G:H22	9:I:3805:A:H62	1.66	0.43
9:I:3842:U:N1	34:j:36:PHE:CE2	2.86	0.43
9:I:3848:C:C2'	9:I:3849:G:O5'	2.67	0.43
9:I:3852:A:C2'	9:I:3853:C:C5'	2.96	0.43
9:I:3938:G:C2	9:I:3939:2MG:C8	3.07	0.43
9:I:4030:G:C6	9:I:4031:U:C4	3.05	0.43
9:I:4047:G:H3'	9:I:4048:U:C5'	2.45	0.43
9:I:4081:A:C5'	9:I:4082:G:OP2	2.65	0.43
9:I:4117:G:H2'	9:I:4118:G:C8	2.51	0.43
9:I:4128:A:H1'	12:L:67:HIS:NE2	2.33	0.43
9:I:4148:A:N1	9:I:4159:A:H5''	2.31	0.43
9:I:4178:U:C2	9:I:4179:G:C8	3.05	0.43
9:I:4196:G:C2	9:I:4197:C:N4	2.86	0.43
9:I:4213:G:H5'	39:o:95:LYS:HE2	1.99	0.43
9:I:4252:A:N1	15:O:70:LEU:HD21	2.32	0.43
9:I:4268:C:H3'	9:I:4269:G:H8	1.84	0.43
9:I:4337:G:H2'	9:I:4338:G:O4'	2.18	0.43
10:J:34:C:H2'	10:J:35:C:C5'	2.48	0.43
11:K:4:LYS:HD3	11:K:16:VAL:HG23	1.99	0.43
12:L:128:ARG:NE	12:L:128:ARG:HA	2.33	0.43
13:M:1:MET:HE2	13:M:16:GLU:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:1:MET:CB	13:M:14:VAL:CG2	2.96	0.43
13:M:79:ARG:O	13:M:80:SER:CB	2.66	0.43
14:N:12:VAL:HG12	14:N:16:MET:CG	2.44	0.43
15:O:32:LEU:C	15:O:74:MET:HE3	2.43	0.43
15:O:36:LEU:HD21	15:O:40:VAL:HG12	2.00	0.43
15:O:98:LYS:CE	15:O:102:ILE:C	2.91	0.43
17:S:31:ARG:HD3	17:S:32:TYR:CD2	2.53	0.43
18:T:95:LEU:C	18:T:101:ILE:HG12	2.43	0.43
22:X:180:ASP:N	22:X:204:GLY:O	2.44	0.43
23:Y:173:ASP:OD2	23:Y:176:LYS:HD2	2.17	0.43
24:Z:47:VAL:O	24:Z:51:ILE:HG12	2.18	0.43
24:Z:98:ALA:HB3	24:Z:106:LEU:HD21	1.99	0.43
25:a:38:ARG:NH2	25:a:63:ASN:OD1	2.51	0.43
27:c:9:MET:SD	27:c:58:LEU:HD11	2.58	0.43
30:f:19:ILE:CB	30:f:34:THR:HG22	2.47	0.43
44:t:40:LEU:O	44:t:59:GLU:HG3	2.17	0.43
45:u:60:VAL:HG13	45:u:72:VAL:C	2.44	0.43
45:u:71:LYS:O	45:u:94:ALA:N	2.51	0.43
47:w:5:GLN:HE22	47:w:48:LEU:HD22	1.82	0.43
48:x:21:LEU:O	48:x:24:GLN:HB2	2.18	0.43
48:x:36:LEU:HD21	48:x:42:LEU:HD11	2.01	0.43
2:B:21:THR:OG1	2:B:26:VAL:HG11	2.19	0.43
3:C:20:VAL:HG12	3:C:35:ARG:HB2	1.99	0.43
5:E:13:TYR:CA	5:E:21:VAL:HG22	2.48	0.43
8:H:3:ILE:HG22	8:H:3:ILE:O	2.17	0.43
9:I:14:G:HO2'	24:Z:13:SER:CB	2.30	0.43
9:I:105:C:C2'	9:I:106:G:O4'	2.59	0.43
9:I:184:U:C2	9:I:185:C:C5	3.05	0.43
9:I:273:A:H4'	9:I:274:G:O5'	2.19	0.43
9:I:545:A:OP2	9:I:545:A:H8	2.01	0.43
9:I:551:U:O2'	31:g:82:ARG:O	2.29	0.43
9:I:564:U:P	9:I:565:G:H3'	2.58	0.43
9:I:794:C:C5	9:I:795:C:C5	3.06	0.43
9:I:919:U:H2'	9:I:920:U:C6	2.52	0.43
9:I:965:2MG:O5'	9:I:965:2MG:H8	2.00	0.43
9:I:1083:G:O2'	9:I:1102:C:C5	2.70	0.43
9:I:1205:G:H3'	9:I:1206:2MG:H8	1.83	0.43
9:I:1308:G:H2'	9:I:1309:G:H8	1.78	0.43
9:I:1390:U:C2	9:I:1391:G:N7	2.86	0.43
9:I:1407:A:C5	9:I:4398:G:C6	3.07	0.43
9:I:1433:A:C3'	9:I:1434:G:C8	2.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1465:G:C8	9:I:1465:G:O5'	2.71	0.43
9:I:1486:G:C4'	9:I:1487:U:OP1	2.66	0.43
9:I:1487:U:C2	9:I:1488:G:C8	3.06	0.43
9:I:1499:U:H4'	9:I:1500:U:OP2	2.18	0.43
9:I:1530:G:O2'	9:I:1531:C:C5'	2.67	0.43
9:I:1578:U:H5''	48:x:6:ARG:HH12	1.83	0.43
9:I:1660:A:H3'	9:I:1661:A:C8	2.53	0.43
9:I:1678:G:H2'	9:I:1679:C:C6	2.52	0.43
9:I:1718:A:C6	9:I:1719:A:C6	3.06	0.43
9:I:1789:G:O2'	9:I:1790:U:O4'	2.35	0.43
9:I:1808:G:H4'	44:t:16:LYS:HZ1	1.78	0.43
9:I:1821:U:OP1	9:I:1821:U:H3'	2.17	0.43
9:I:1969:G:O6	35:k:39:ARG:NH1	2.51	0.43
9:I:1977:A:C2	9:I:1978:A:N9	2.87	0.43
9:I:2106:U:P	13:M:99:LYS:HZ1	2.38	0.43
9:I:2141:U:N3	9:I:2145:C:OP2	2.51	0.43
9:I:2148:G:C2'	9:I:2149:G:O4'	2.67	0.43
9:I:2165:U:O2	9:I:2166:A:C8	2.71	0.43
9:I:2201:G:C6	9:I:2202:U:C6	3.06	0.43
9:I:2205:A:C6	9:I:2206:A:C5	3.07	0.43
9:I:2212:G:H22	9:I:2220:U:H1'	1.75	0.43
9:I:2213:G:C2	9:I:2214:U:C6	3.06	0.43
9:I:2355:G:C6	9:I:2356:G:C5	3.06	0.43
9:I:2357:G:N1	9:I:2414:A:N6	2.29	0.43
9:I:2359:G:N2	9:I:2410:G:N9	2.65	0.43
9:I:2359:G:H4'	9:I:2360:U:H5'	1.99	0.43
9:I:2394:A:C2	9:I:2395:C:H1'	2.52	0.43
9:I:2570:C:H6	9:I:2570:C:O5'	2.01	0.43
9:I:2580:A:H3'	9:I:2580:A:N3	2.34	0.43
9:I:2637:A:H2'	16:R:27:ARG:NH1	2.34	0.43
9:I:2651:G:N3	9:I:2652:C:C6	2.86	0.43
9:I:2660:G:C4	9:I:2661:C:C5	3.06	0.43
9:I:2676:G:C6	9:I:2677:U:C4	3.06	0.43
9:I:2821:A:C2	9:I:2822:A:C4	3.07	0.43
9:I:2844:C:H2'	9:I:2845:C:H5'	1.99	0.43
9:I:2844:C:H2'	9:I:2845:C:O5'	2.18	0.43
9:I:2872:A:C8	9:I:2874:G:C5	3.06	0.43
9:I:2923:G:C4	9:I:2924:G:N7	2.86	0.43
9:I:2949:G:C5	9:I:2950:G:C8	3.06	0.43
9:I:2970:U:C2	9:I:3010:G:C2	3.06	0.43
9:I:2989:A:H2'	9:I:2990:A:N9	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2995:G:H2'	9:I:2995:G:N3	2.33	0.43
9:I:3011:G:C6	9:I:3012:C:C4	3.06	0.43
9:I:3048:U:O4	9:I:3128:A:C5	2.71	0.43
9:I:3080:A:N3	9:I:3081:G:H1'	2.34	0.43
9:I:3092:A:C4	9:I:3093:U:C5	3.06	0.43
9:I:3093:U:N3	9:I:3094:C:C5	2.87	0.43
9:I:3098:C:C2	9:I:3099:C:C5	3.06	0.43
9:I:3114:G:C5	9:I:3115:U:C4	3.06	0.43
9:I:3205:A:C2	9:I:3242:C:C2	3.06	0.43
9:I:3218:G:C4	9:I:3219:U:C5	3.06	0.43
9:I:3247:G:C2'	9:I:3248:A:C8	3.01	0.43
9:I:3348:A:H2	9:I:3582:A:C1'	2.31	0.43
9:I:3357:G:C2'	9:I:3358:U:C6	2.91	0.43
9:I:3400:G:C4	9:I:3423:G:C6	3.06	0.43
9:I:3404:G:C6	9:I:3415:G:O6	2.70	0.43
9:I:3449:U:H5	9:I:4045:C:O2	2.01	0.43
9:I:3514:A:C5	9:I:3516:U:C5	3.07	0.43
9:I:3568:U:H2'	9:I:3569:U:C6	2.53	0.43
9:I:3576:A:C8	9:I:3577:G:C8	3.06	0.43
9:I:3693:A:C2'	9:I:3694:C:O4'	2.51	0.43
9:I:3764:A:C4	9:I:3765:G:C8	3.06	0.43
9:I:3764:A:O2'	9:I:3765:G:H5'	2.18	0.43
9:I:3781:A:H4'	9:I:3781:A:OP1	2.18	0.43
9:I:3830:A:N6	46:v:33:THR:CB	2.80	0.43
9:I:3850:U:C2	9:I:3851:G:C8	3.07	0.43
9:I:3857:G:C2	9:I:3858:C:C6	3.05	0.43
9:I:3962:A:C2'	9:I:3970:A:C5	2.97	0.43
9:I:3967:U:H2'	9:I:3968:U:H5'	2.00	0.43
9:I:4055:U:O2'	17:S:40:LYS:HD3	2.18	0.43
9:I:4130:C:HO2'	12:L:38:LYS:HZ3	1.55	0.43
9:I:4236:G:C6	9:I:4237:U:C5	3.07	0.43
9:I:4342:G:P	39:o:93:LYS:HB3	2.59	0.43
10:J:41:C:C4'	14:N:63:LYS:CG	2.92	0.43
10:J:43:G:H4'	10:J:44:A:C4	2.52	0.43
10:J:84:G:O2'	10:J:85:G:H5'	2.19	0.43
10:J:99:G:C4	10:J:100:A:N9	2.87	0.43
11:K:143:VAL:O	11:K:153:LEU:HD23	2.17	0.43
11:K:162:GLN:C	11:K:173:LEU:CD1	2.91	0.43
11:K:261:ARG:CA	11:K:264:LYS:HZ2	2.30	0.43
12:L:48:ILE:HD11	12:L:82:PHE:CB	2.49	0.43
12:L:109:VAL:CG2	12:L:193:VAL:CG1	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:196:VAL:C	13:M:199:MET:H	2.25	0.43
14:N:7:TYR:OH	14:N:29:ARG:CD	2.67	0.43
14:N:49:LEU:HD11	14:N:66:ILE:CD1	2.47	0.43
14:N:158:THR:HG22	14:N:158:THR:O	2.18	0.43
18:T:89:VAL:O	18:T:89:VAL:CG1	2.65	0.43
19:U:114:ARG:HA	19:U:117:PHE:CD2	2.53	0.43
20:V:76:VAL:HG23	20:V:77:ALA:N	2.32	0.43
21:W:183:ILE:HG22	21:W:199:GLY:O	2.18	0.43
23:Y:67:LEU:HB2	23:Y:70:GLN:CD	2.43	0.43
23:Y:191:SER:HG	23:Y:193:ASP:CG	2.26	0.43
24:Z:71:THR:CB	24:Z:113:ASN:HD21	2.26	0.43
24:Z:83:SER:HB3	24:Z:127:VAL:HG12	2.01	0.43
25:a:37:HIS:HE2	25:a:65:GLU:CB	2.32	0.43
27:c:94:VAL:HG13	27:c:101:ALA:HB2	2.00	0.43
28:d:21:GLY:O	28:d:22:ASN:CB	2.67	0.43
40:p:45:ALA:HA	40:p:48:ASP:HB2	1.99	0.43
40:p:49:ARG:NH1	41:q:72:VAL:HG21	2.34	0.43
40:p:98:ALA:O	40:p:102:LYS:CA	2.66	0.43
42:r:58:ALA:O	42:r:63:GLY:HA3	2.18	0.43
44:t:43:LYS:C	44:t:57:ILE:HG23	2.43	0.43
45:u:30:ILE:CG2	45:u:93:ARG:HG3	2.48	0.43
46:v:43:CYS:CA	46:v:47:HIS:HA	2.48	0.43
48:x:1:LYS:NZ	48:x:52:VAL:N	2.66	0.43
48:x:10:VAL:HG13	48:x:56:LEU:CD1	2.38	0.43
48:x:10:VAL:CB	48:x:56:LEU:HD22	2.48	0.43
48:x:11:GLU:O	48:x:14:ASN:CB	2.65	0.43
48:x:49:VAL:O	48:x:52:VAL:N	2.50	0.43
1:A:78:LEU:HB3	1:A:82:LYS:HB3	2.01	0.43
1:A:81:ILE:HB	9:I:1201:U:H1'	1.98	0.43
2:B:28:VAL:CG1	2:B:84:LEU:HD22	2.49	0.43
2:B:62:ARG:HH22	9:I:2215:A:C2'	2.31	0.43
2:B:68:TYR:CD2	2:B:69:LEU:HD22	2.53	0.43
3:C:8:ARG:NH2	3:C:15:PRO:HB3	2.33	0.43
3:C:17:TYR:O	3:C:38:PHE:HB2	2.19	0.43
3:C:58:ALA:O	3:C:61:VAL:HB	2.19	0.43
4:D:20:VAL:CB	4:D:58:ILE:HG21	2.49	0.43
5:E:48:LEU:O	5:E:49:LEU:HD23	2.17	0.43
9:I:318:G:C2'	9:I:319:A:H5'	2.49	0.43
9:I:502:C:O2	9:I:509:A:C2	2.70	0.43
9:I:587:G:C2	9:I:752:A:C6	3.07	0.43
9:I:634:A:C4	9:I:635:U:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:674:A:H1'	30:f:104:ILE:O	2.18	0.43
9:I:681:G:H2'	9:I:681:G:N3	2.32	0.43
9:I:688:C:H3'	9:I:689:G:C8	2.49	0.43
9:I:689:G:H3'	9:I:690:G:C8	2.54	0.43
9:I:1269:G:O2'	9:I:1312:U:O2'	2.06	0.43
9:I:1332:A:H2'	9:I:1333:G:H8	1.83	0.43
9:I:1478:A:C5	9:I:4328:G:C2	3.07	0.43
9:I:1574:A:N3	9:I:1574:A:H5''	2.34	0.43
9:I:1628:C:O2'	9:I:1629:C:O5'	2.36	0.43
9:I:1707:A:H2'	9:I:1708:C:O4'	2.19	0.43
9:I:1761:G:C4	9:I:1762:A:N7	2.87	0.43
9:I:2053:G:O2'	9:I:2054:U:H5'	2.18	0.43
9:I:2091:U:O2'	36:l:1:PRO:HD2	2.18	0.43
9:I:2136:G:H2'	9:I:2136:G:N3	2.33	0.43
9:I:2165:U:O2'	9:I:2166:A:H5'	2.18	0.43
9:I:2307:U:O2	9:I:2307:U:C2'	2.65	0.43
9:I:2426:U:H6	9:I:2426:U:O5'	2.01	0.43
9:I:2447:G:P	19:U:18:ARG:HH22	2.41	0.43
9:I:2452:U:C2'	10:J:88:U:N3	2.81	0.43
9:I:2524:C:OP1	19:U:127:LYS:CD	2.64	0.43
9:I:2605:A:H2	9:I:2606:G:C2	2.36	0.43
9:I:2665:G:N2	9:I:2672:C:C2	2.81	0.43
9:I:2915:G:N2	9:I:3072:U:C2	2.84	0.43
9:I:2923:G:C4	9:I:2924:G:C8	3.06	0.43
9:I:2926:G:C2	9:I:2927:A:C4	3.07	0.43
9:I:2970:U:O4	9:I:3009:A:C8	2.63	0.43
9:I:3056:U:C2'	9:I:3057:U:O5'	2.66	0.43
9:I:3207:A:N1	9:I:3239:A:N1	2.67	0.43
9:I:3222:C:C2	9:I:3224:C:N3	2.86	0.43
9:I:3324:C:H5'	11:K:14:HIS:CD2	2.53	0.43
9:I:3350:U:O4	9:I:3380:U:O4	2.36	0.43
9:I:3459:C:C4	9:I:3460:A:C5	3.06	0.43
9:I:3470:U:C2'	9:I:3471:A:OP2	2.67	0.43
9:I:3537:C:O2	9:I:3538:C:C5	2.71	0.43
9:I:3593:U:N3	9:I:3684:G:C6	2.72	0.43
9:I:3595:A:N1	9:I:3682:U:C4	2.85	0.43
9:I:3598:C:N4	9:I:3679:U:N3	2.66	0.43
9:I:3664:A:C2	9:I:3665:A:C2	3.07	0.43
9:I:3691:U:C5	9:I:3718:G:C5	3.06	0.43
9:I:3729:G:C4	9:I:3730:U:C5	3.06	0.43
9:I:3754:C:O2	9:I:3755:C:C6	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3791:A:C2	9:I:3792:A:O4'	2.71	0.43
9:I:3794:C:H3'	9:I:3795:C:H5	1.83	0.43
9:I:3913:U:C3'	34:j:19:THR:HB	2.48	0.43
9:I:3914:C:OP2	34:j:19:THR:HG21	2.18	0.43
9:I:3977:C:H4'	19:U:51:ARG:HH22	1.77	0.43
9:I:4130:C:H4'	12:L:81:GLU:OE1	2.19	0.43
9:I:4278:U:O3'	12:L:42:ASN:OD1	2.36	0.43
9:I:4315:A:O2'	9:I:4316:G:O4'	2.27	0.43
10:J:13:U:N3	10:J:70:C:O2	2.52	0.43
10:J:41:C:H1'	14:N:63:LYS:HG3	2.00	0.43
10:J:83:G:C6	10:J:92:C:C4	3.07	0.43
10:J:91:C:H2'	10:J:91:C:O2	2.19	0.43
10:J:93:A:H5''	45:u:19:ARG:HH12	1.81	0.43
11:K:87:SER:C	11:K:157:ALA:HB2	2.43	0.43
11:K:154:ALA:O	11:K:159:THR:CB	2.65	0.43
11:K:163:ILE:N	11:K:173:LEU:HD13	2.33	0.43
11:K:200:MET:HG3	11:K:201:LEU:CD1	2.48	0.43
12:L:34:VAL:HG23	12:L:96:ILE:HD11	2.00	0.43
12:L:37:VAL:CG2	12:L:91:THR:CG2	2.92	0.43
12:L:98:VAL:HG22	12:L:98:VAL:O	2.18	0.43
12:L:108:ASP:CA	12:L:172:VAL:O	2.63	0.43
13:M:17:THR:CA	13:M:21:ARG:HG2	2.36	0.43
13:M:91:ASP:OD2	13:M:93:SER:HB2	2.18	0.43
13:M:124:PHE:O	13:M:150:THR:HG23	2.18	0.43
13:M:124:PHE:HB3	13:M:150:THR:OG1	2.18	0.43
14:N:121:PHE:O	14:N:126:ASN:N	2.48	0.43
14:N:135:ILE:HG12	14:N:145:VAL:CG1	2.47	0.43
15:O:82:PHE:O	15:O:134:GLY:C	2.62	0.43
19:U:4:PRO:HG2	19:U:92:TRP:CH2	2.53	0.43
19:U:21:ALA:CB	19:U:100:LYS:HG3	2.48	0.43
23:Y:60:VAL:HG21	23:Y:199:ILE:CD1	2.48	0.43
23:Y:186:GLU:HB2	23:Y:189:ASP:OD2	2.19	0.43
25:a:47:LEU:H	25:a:56:LYS:N	2.15	0.43
26:b:106:ALA:CB	26:b:132:THR:HB	2.40	0.43
26:b:129:ASN:HB2	26:b:134:VAL:CG1	2.48	0.43
27:c:19:ALA:HB3	27:c:21:LYS:HZ2	1.82	0.43
27:c:28:SER:HB2	27:c:58:LEU:CA	2.48	0.43
30:f:73:MET:HE1	30:f:75:LYS:CE	2.48	0.43
34:j:3:ARG:HA	34:j:25:ARG:HH22	1.84	0.43
34:j:44:VAL:HG22	34:j:45:ILE:H	1.83	0.43
37:m:15:LYS:CB	37:m:26:ILE:HD11	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:48:VAL:CG1	38:n:49:ALA:N	2.81	0.43
39:o:61:ARG:O	39:o:61:ARG:HG2	2.17	0.43
39:o:64:SER:O	39:o:65:ASN:C	2.61	0.43
41:q:62:GLU:CD	41:q:63:VAL:H	2.27	0.43
42:r:24:ILE:HB	42:r:27:LYS:HG2	2.00	0.43
42:r:84:ARG:C	42:r:85:ILE:HD12	2.43	0.43
43:s:23:ALA:O	43:s:26:LYS:N	2.42	0.43
44:t:60:LYS:HA	44:t:60:LYS:HD3	1.84	0.43
46:v:11:LEU:HA	46:v:29:ARG:CZ	2.47	0.43
46:v:43:CYS:HA	46:v:47:HIS:O	2.18	0.43
46:v:59:PHE:HD2	46:v:68:LYS:HE3	1.84	0.43
2:B:24:THR:HG23	2:B:65:LEU:HD12	2.01	0.43
3:C:43:ALA:HB1	3:C:49:GLY:HA2	2.01	0.43
4:D:5:LEU:HD22	4:D:41:LEU:CD1	2.48	0.43
5:E:5:LYS:CD	25:a:7:VAL:HG21	2.38	0.43
8:H:45:LYS:HD2	9:I:4432:U:C4	2.53	0.43
9:I:2:A:N7	9:I:628:A:O2'	2.51	0.43
9:I:33:C:H2'	9:I:34:G:H8	1.83	0.43
9:I:257:G:C2	9:I:267:U:O2	2.68	0.43
9:I:259:G:N2	9:I:264:G:N7	2.66	0.43
9:I:339:U:C2	9:I:340:C:C5	3.06	0.43
9:I:555:C:H2'	9:I:556:G:H5'	2.01	0.43
9:I:564:U:OP1	9:I:565:G:H3'	2.18	0.43
9:I:606:A:C2	9:I:607:A:H1'	2.52	0.43
9:I:618:U:C5	9:I:619:C:H5	2.36	0.43
9:I:653:G:N2	9:I:752:A:O4'	2.51	0.43
9:I:691:U:H5'	9:I:796:C:C5'	2.31	0.43
9:I:710:G:O2'	9:I:711:A:H5'	2.18	0.43
9:I:947:C:OP1	9:I:1305:A:O2'	2.35	0.43
9:I:1024:U:H5''	9:I:1025:G:OP1	2.17	0.43
9:I:1169:A:H5'	21:W:136:ARG:NH2	2.33	0.43
9:I:1370:G:OP1	28:d:10:LYS:HD3	2.18	0.43
9:I:1478:A:H3'	33:i:49:ARG:NH1	2.32	0.43
9:I:1558:G:C4	9:I:1559:U:C5	3.06	0.43
9:I:1563:A:H2'	9:I:1564:A:O4'	2.19	0.43
9:I:1577:G:C2	9:I:1610:G:N9	2.87	0.43
9:I:1582:U:C3'	9:I:1601:A:N6	2.79	0.43
9:I:1661:A:O5'	9:I:1662:U:H2'	2.18	0.43
9:I:1801:G:O2'	9:I:1802:C:C6	2.61	0.43
9:I:1836:C:OP2	44:t:3:LYS:HD3	2.18	0.43
9:I:1959:U:C2'	9:I:1960:A:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1970:A:H2'	9:I:1971:A:C8	2.54	0.43
9:I:2117:G:C2	9:I:2118:G:N9	2.86	0.43
9:I:2314:C:N3	9:I:2315:C:C5	2.86	0.43
9:I:2358:G:P	46:v:68:LYS:HZ1	2.33	0.43
9:I:2366:A:C2	9:I:2367:C:O4'	2.71	0.43
9:I:2427:A:N3	9:I:2427:A:H2'	2.33	0.43
9:I:2530:G:H2'	9:I:2531:G:C1'	2.47	0.43
9:I:2537:C:C5	9:I:2538:C:C4	3.06	0.43
9:I:2598:C:H2'	9:I:2599:U:O4'	2.17	0.43
9:I:2606:G:C2	9:I:2607:U:C5	3.07	0.43
9:I:2633:G:H4'	16:R:26:GLY:CA	2.48	0.43
9:I:2751:C:C2'	9:I:2752:U:O5'	2.67	0.43
9:I:2771:G:N3	9:I:2771:G:H2'	2.33	0.43
9:I:2783:C:H2'	9:I:2784:C:C6	2.54	0.43
9:I:2831:G:C6	9:I:2832:G:N7	2.87	0.43
9:I:2843:C:C2	9:I:2844:C:C5	3.06	0.43
9:I:2934:U:C3'	9:I:2935:G:C8	3.01	0.43
9:I:2941:C:N3	9:I:2959:G:N1	2.66	0.43
9:I:2964:A:C8	9:I:2965:G:C8	3.06	0.43
9:I:3040:G:H8	9:I:3040:G:OP2	2.01	0.43
9:I:3062:G:C6	11:K:26:GLY:HA2	2.53	0.43
9:I:3066:A:C3'	9:I:3067:G:H8	2.31	0.43
9:I:3108:A:H8	9:I:3108:A:P	2.42	0.43
9:I:3151:U:N3	9:I:3152:C:C5	2.87	0.43
9:I:3159:A:H5'	17:S:66:LYS:CD	2.43	0.43
9:I:3163:A:O2'	9:I:3164:C:P	2.76	0.43
9:I:3209:G:C4	9:I:3237:G:C6	3.06	0.43
9:I:3211:A:C5'	9:I:3212:G:OP2	2.66	0.43
9:I:3216:A:C3'	9:I:3217:G:H8	2.31	0.43
9:I:3240:A:N3	9:I:3240:A:H2'	2.34	0.43
9:I:3323:A:C4	11:K:13:ARG:NH2	2.87	0.43
9:I:3338:C:N3	9:I:3339:G:N7	2.66	0.43
9:I:3347:A:N3	9:I:3347:A:H2'	2.31	0.43
9:I:3357:G:OP2	9:I:3369:G:P	2.76	0.43
9:I:3373:C:O2'	9:I:3374:U:C5'	2.64	0.43
9:I:3773:G:H2'	9:I:3821:A:H4'	2.01	0.43
9:I:3788:G:C4	9:I:3833:C:C5	3.06	0.43
9:I:3802:G:N1	9:I:3805:A:C8	2.82	0.43
9:I:3824:G:N2	9:I:3830:A:C2	2.80	0.43
9:I:3846:A:N1	46:v:24:GLY:HA3	2.34	0.43
9:I:3855:G:C5	9:I:3856:C:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3869:G:N1	9:I:3873:G:C6	2.87	0.43
9:I:3997:2MA:O2'	9:I:3997:2MA:H8	2.18	0.43
9:I:4033:C:H2'	9:I:4034:C:O5'	2.18	0.43
9:I:4054:A:C6	9:I:4055:U:C4	3.07	0.43
9:I:4150:U:C2	9:I:4151:A:C8	3.07	0.43
9:I:4192:U:O2	9:I:4193:C:C5	2.71	0.43
9:I:4212:G:N2	9:I:4341:U:H4'	2.34	0.43
9:I:4234:A:H62	9:I:4257:G:C3'	2.30	0.43
9:I:4313:G:C5	9:I:4315:A:C6	3.05	0.43
9:I:4317:A:H2'	9:I:4318:C:C6	2.53	0.43
9:I:4321:C:C2	9:I:4322:G:C8	3.07	0.43
9:I:4341:U:P	39:o:94:ALA:HB1	2.59	0.43
9:I:4425:C:H2'	9:I:4426:U:O4'	2.18	0.43
10:J:10:C:O2	10:J:14:A:C6	2.71	0.43
10:J:14:A:OP1	10:J:107:A:C4'	2.66	0.43
10:J:28:A:C4	10:J:29:C:C6	3.06	0.43
10:J:39:U:H3'	10:J:40:G:H5'	1.99	0.43
10:J:41:C:C4'	14:N:63:LYS:HG3	2.49	0.43
10:J:77:A:C2	10:J:78:G:H1'	2.53	0.43
11:K:141:HIS:NE2	11:K:194:VAL:CB	2.77	0.43
12:L:14:ILE:HG12	12:L:24:VAL:CG1	2.48	0.43
12:L:110:THR:HB	12:L:202:ILE:CG1	2.48	0.43
13:M:101:TYR:C	13:M:200:LEU:HD22	2.43	0.43
13:M:145:ASP:OD2	13:M:184:ASP:HB2	2.18	0.43
14:N:32:LYS:HE3	14:N:34:THR:CG2	2.48	0.43
15:O:71:LEU:HD23	15:O:71:LEU:C	2.44	0.43
15:O:82:PHE:CZ	15:O:137:LYS:HD2	2.54	0.43
15:O:98:LYS:HE2	15:O:102:ILE:C	2.44	0.43
16:R:98:GLU:O	16:R:100:VAL:N	2.51	0.43
17:S:24:VAL:HG11	17:S:30:ARG:HG2	2.00	0.43
17:S:76:VAL:C	39:o:71:ARG:HH11	2.26	0.43
17:S:113:MET:C	17:S:116:ILE:HG12	2.43	0.43
19:U:50:ARG:NH1	19:U:54:THR:CB	2.81	0.43
20:V:42:LYS:HA	20:V:45:ARG:NE	2.33	0.43
21:W:44:VAL:HG12	21:W:48:ASN:OD1	2.18	0.43
22:X:63:ILE:HG22	22:X:97:PRO:O	2.18	0.43
22:X:122:GLN:O	22:X:127:VAL:HG22	2.18	0.43
22:X:152:VAL:CG1	22:X:197:VAL:HG22	2.29	0.43
22:X:166:TRP:CZ3	22:X:168:ARG:HB3	2.53	0.43
22:X:183:TYR:OH	22:X:198:LYS:HG2	2.18	0.43
23:Y:96:ARG:HB2	23:Y:99:ASN:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:a:3:HIS:HD1	25:a:65:GLU:HG3	1.82	0.43
25:a:44:ARG:HA	25:a:58:HIS:CA	2.37	0.43
27:c:11:THR:HA	27:c:14:ARG:CB	2.46	0.43
32:h:93:GLY:O	32:h:94:LEU:HD22	2.18	0.43
34:j:4:GLU:HG3	34:j:24:LYS:HD3	2.00	0.43
38:n:6:ARG:HG3	38:n:94:SER:O	2.18	0.43
39:o:96:LEU:HG	39:o:98:TYR:HE1	1.84	0.43
39:o:99:LEU:CD2	39:o:102:ARG:HD3	2.47	0.43
40:p:13:HIS:ND1	40:p:31:TYR:CE1	2.87	0.43
40:p:113:LYS:O	40:p:117:ALA:N	2.51	0.43
41:q:39:LEU:O	41:q:49:ILE:CG2	2.60	0.43
42:r:69:LEU:HD13	42:r:107:VAL:CG2	2.48	0.43
43:s:14:PRO:HA	43:s:31:VAL:O	2.19	0.43
44:t:24:VAL:CG1	44:t:25:LYS:N	2.81	0.43
44:t:101:THR:HG22	44:t:102:ILE:O	2.17	0.43
45:u:80:HIS:CB	45:u:83:LYS:HG2	2.48	0.43
46:v:49:LEU:HD13	46:v:70:ILE:HG13	2.01	0.43
47:w:38:TRP:CE3	47:w:45:PHE:CZ	3.07	0.43
47:w:71:ARG:O	47:w:74:GLY:N	2.50	0.43
1:A:44:VAL:HA	1:A:47:LEU:CB	2.46	0.43
4:D:14:MET:C	9:I:273:A:O5'	2.61	0.43
4:D:33:LYS:CD	31:g:7:VAL:HG11	2.43	0.43
4:D:43:VAL:HG13	4:D:72:LEU:N	2.34	0.43
9:I:93:G:N1	9:I:97:A:C2	2.87	0.43
9:I:225:G:C2	9:I:226:G:C8	3.07	0.43
9:I:227:A:C2	9:I:228:U:H1'	2.53	0.43
9:I:285:C:H6	9:I:285:C:O5'	2.00	0.43
9:I:530:U:O3'	9:I:531:A:H4'	2.19	0.43
9:I:610:C:C4	9:I:611:C:C4	3.07	0.43
9:I:677:U:C5'	9:I:777:G:H5'	2.48	0.43
9:I:714:A:C2'	9:I:715:A:C8	2.99	0.43
9:I:875:C:C4'	27:c:11:THR:OG1	2.66	0.43
9:I:941:G:H2'	9:I:942:U:O4'	2.17	0.43
9:I:960:U:C2	9:I:982:A:N7	2.86	0.43
9:I:1064:U:H5''	9:I:1189:G:H22	1.83	0.43
9:I:1065:C:H2'	9:I:1066:A:C8	2.53	0.43
9:I:1286:A:H2'	9:I:1287:A:C8	2.53	0.43
9:I:1498:C:N4	9:I:1499:U:O2	2.51	0.43
9:I:1675:G:O2'	9:I:1676:A:O4'	2.30	0.43
9:I:1676:A:OP2	9:I:1676:A:C8	2.70	0.43
9:I:1678:G:O2'	9:I:1679:C:C5'	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1721:A:C6	9:I:1766:G:OP2	2.72	0.43
9:I:1723:A:C6	9:I:1922:A:C2	3.06	0.43
9:I:1834:C:H5''	9:I:1835:C:OP1	2.18	0.43
9:I:1911:G:H4'	9:I:1912:A:OP1	2.18	0.43
9:I:2047:A:C2	9:I:2048:G:O4'	2.71	0.43
9:I:2107:U:C4	9:I:2120:G:C8	3.06	0.43
9:I:2217:C:C3'	9:I:2218:A:H5'	2.48	0.43
9:I:2231:C:C2'	9:I:2232:C:O5'	2.67	0.43
9:I:2265:C:H2'	9:I:2266:U:C5	2.54	0.43
9:I:2274:G:P	11:K:47:ARG:NH1	2.92	0.43
9:I:2334:G:C4	9:I:2335:C:C5	3.06	0.43
9:I:2350:U:H2'	9:I:2351:C:C6	2.54	0.43
9:I:2351:C:O2'	49:y:42:ALA:CB	2.61	0.43
9:I:2483:G:C8	49:y:13:ILE:CD1	2.98	0.43
9:I:2497:G:C2	9:I:2498:U:C4	3.07	0.43
9:I:2517:U:O5'	9:I:2517:U:H6	2.01	0.43
9:I:2526:A:H2	9:I:2616:G:H22	1.67	0.43
9:I:2531:G:C4	9:I:2532:G:C8	3.06	0.43
9:I:2646:C:H5''	40:p:80:ASN:N	2.34	0.43
9:I:2666:C:O4'	9:I:2666:C:P	2.76	0.43
9:I:2700:G:C2'	9:I:2701:C:C6	2.95	0.43
9:I:2838:U:O4'	9:I:2878:A:C6	2.72	0.43
9:I:2866:U:O2'	9:I:3706:A:C2	2.69	0.43
9:I:2900:U:C3'	9:I:2901:G:C8	3.02	0.43
9:I:2936:U:C2'	9:I:2937:U:O4'	2.65	0.43
9:I:2946:G:P	9:I:2946:G:C8	3.11	0.43
9:I:2964:A:C2	9:I:2965:G:H1'	2.54	0.43
9:I:3021:G:H1	9:I:3038:A:P	2.42	0.43
9:I:3051:C:H6	9:I:3051:C:C5'	2.31	0.43
9:I:3073:A:H2'	9:I:3074:A:O4'	2.18	0.43
9:I:3195:A:H2'	9:I:3196:G:O4'	2.19	0.43
9:I:3204:G:H2'	9:I:3205:A:H5'	2.00	0.43
9:I:3211:A:C4	9:I:3238:A:N6	2.86	0.43
9:I:3224:C:H2'	9:I:3225:G:OP2	2.18	0.43
9:I:3291:G:N1	9:I:3317:G:C5	2.87	0.43
9:I:3293:G:C5	11:K:175:LEU:CB	3.01	0.43
9:I:3307:G:H3'	9:I:3308:G:C8	2.54	0.43
9:I:3313:A:C4	11:K:177:SER:CB	3.01	0.43
9:I:3359:U:O4	9:I:3370:A:P	2.76	0.43
9:I:3400:G:C4	9:I:3401:G:C8	3.07	0.43
9:I:3589:A:H2	9:I:3689:U:H1'	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3604:G:H5'	9:I:3612:U:N3	2.33	0.43
9:I:3730:U:O2'	9:I:3731:G:H5'	2.17	0.43
9:I:3807:C:H4'	14:N:87:LYS:HD2	2.00	0.43
9:I:3819:G:H2'	9:I:3820:C:H5''	1.94	0.43
9:I:3848:C:O2	46:v:26:ILE:HD11	2.18	0.43
9:I:3955:A:C6	9:I:3956:C:C4	3.07	0.43
9:I:4037:G:C4	9:I:4038:G:C8	3.07	0.43
9:I:4038:G:C6	9:I:4039:G:C6	3.06	0.43
9:I:4131:U:H4'	12:L:45:TYR:CD1	2.53	0.43
9:I:4145:C:C2'	9:I:4146:C:O5'	2.66	0.43
9:I:4162:G:C4'	15:O:110:HIS:CD2	3.01	0.43
9:I:4163:G:N3	9:I:4163:G:H2'	2.33	0.43
9:I:4194:A:N3	9:I:4195:U:C5	2.86	0.43
9:I:4231:G:C4	9:I:4232:A:C8	3.07	0.43
9:I:4239:C:O2'	15:O:138:GLN:HG2	2.17	0.43
9:I:4345:A:O2'	9:I:4346:G:H5'	2.17	0.43
9:I:4431:U:H2'	9:I:4432:U:C5	2.50	0.43
10:J:94:U:OP2	45:u:19:ARG:NH2	2.52	0.43
10:J:98:A:H2'	10:J:98:A:N3	2.32	0.43
10:J:99:G:H2'	10:J:100:A:C4'	2.45	0.43
10:J:99:G:H3'	10:J:100:A:H8	1.82	0.43
11:K:109:LEU:CD1	11:K:126:GLY:HA3	2.46	0.43
11:K:140:VAL:O	11:K:141:HIS:HB3	2.18	0.43
11:K:141:HIS:CB	11:K:161:VAL:HG23	2.49	0.43
12:L:7:LYS:HD3	12:L:7:LYS:C	2.44	0.43
12:L:149:ASN:O	12:L:151:THR:O	2.37	0.43
12:L:186:LEU:HD21	39:o:3:ILE:HG23	1.98	0.43
13:M:102:ARG:CB	13:M:200:LEU:HB3	2.48	0.43
14:N:43:ILE:CD1	14:N:77:LYS:HG3	2.49	0.43
14:N:95:MET:O	14:N:98:PHE:N	2.52	0.43
15:O:88:LEU:HD21	15:O:151:ARG:NH1	2.34	0.43
15:O:136:ASP:HB3	15:O:139:VAL:CB	2.42	0.43
18:T:100:ILE:CG1	18:T:101:ILE:HG23	2.35	0.43
18:T:110:VAL:HB	18:T:127:VAL:CG1	2.49	0.43
21:W:97:MET:SD	21:W:145:LEU:HD22	2.59	0.43
21:W:122:THR:O	21:W:123:PHE:C	2.61	0.43
23:Y:78:ALA:HB2	23:Y:89:LEU:HA	2.00	0.43
24:Z:4:GLU:HG3	24:Z:30:VAL:HG12	2.01	0.43
27:c:102:VAL:CG1	27:c:109:VAL:CG1	2.96	0.43
28:d:9:ARG:HA	28:d:103:ARG:HH12	1.83	0.43
28:d:96:ARG:HH11	28:d:101:VAL:CG2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:d:121:ARG:CD	28:d:122:PRO:O	2.64	0.43
30:f:74:VAL:O	30:f:101:VAL:CG2	2.67	0.43
32:h:26:LYS:H	32:h:26:LYS:CD	2.32	0.43
34:j:2:ILE:O	34:j:25:ARG:CZ	2.64	0.43
34:j:47:LYS:O	34:j:48:GLU:HB3	2.19	0.43
36:l:56:LEU:HD12	36:l:56:LEU:H	1.83	0.43
38:n:2:LYS:HE3	38:n:3:LYS:HB2	2.01	0.43
38:n:29:ARG:HD3	38:n:101:ARG:CZ	2.48	0.43
39:o:58:PHE:O	39:o:58:PHE:CG	2.71	0.43
40:p:54:ARG:O	40:p:57:ARG:HB2	2.19	0.43
40:p:81:GLY:HA3	40:p:116:LEU:CA	2.49	0.43
41:q:38:VAL:HG11	41:q:41:ILE:CG1	2.49	0.43
41:q:89:HIS:NE2	41:q:91:GLN:HA	2.34	0.43
43:s:43:ILE:HG23	43:s:44:LYS:H	1.83	0.43
43:s:51:PHE:O	43:s:52:GLU:HB2	2.19	0.43
44:t:40:LEU:O	44:t:59:GLU:CG	2.66	0.43
46:v:36:HIS:HB2	46:v:68:LYS:O	2.19	0.43
47:w:50:VAL:CG1	47:w:55:MET:SD	3.03	0.43
47:w:54:GLY:O	47:w:58:ILE:CG1	2.66	0.43
48:x:25:PHE:HD1	48:x:28:ARG:HH21	1.66	0.43
49:y:22:THR:O	49:y:46:MET:HG3	2.18	0.43
49:y:43:ILE:HA	49:y:46:MET:HB3	2.00	0.43
1:A:13:VAL:CA	1:A:59:GLN:HG2	2.49	0.43
3:C:30:GLY:O	3:C:32:PHE:HD1	2.02	0.43
5:E:13:TYR:O	5:E:21:VAL:N	2.48	0.43
5:E:24:ARG:CZ	9:I:721:G:OP1	2.66	0.43
9:I:47:C:H6	9:I:364:U:H5	1.65	0.43
9:I:69:U:H5	9:I:93:G:H2'	1.84	0.43
9:I:248:U:O2	9:I:274:G:C6	2.71	0.43
9:I:301:G:H2'	9:I:302:A:H8	1.84	0.43
9:I:405:G:N2	23:Y:115:GLN:HE22	2.10	0.43
9:I:435:C:H2'	9:I:436:U:H6	1.83	0.43
9:I:490:G:C2	9:I:491:C:C4	3.07	0.43
9:I:594:A:N3	9:I:595:A:N6	2.53	0.43
9:I:685:U:O2'	9:I:686:A:OP2	2.35	0.43
9:I:886:G:H2'	9:I:887:G:O4'	2.19	0.43
9:I:1025:G:N1	9:I:1034:A:N6	2.67	0.43
9:I:1131:C:H5'	9:I:1132:G:P	2.58	0.43
9:I:1269:G:H2'	9:I:1270:A:H8	1.84	0.43
9:I:1432:A:C2'	9:I:1433:A:O4'	2.65	0.43
9:I:1485:C:H2'	9:I:1486:G:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1506:A:O2'	9:I:1507:G:C5'	2.63	0.43
9:I:1560:G:O3'	48:x:43:LYS:CE	2.67	0.43
9:I:1611:A:C2	9:I:1612:U:C2	3.07	0.43
9:I:1726:A:HO2'	9:I:1729:C:H42	1.66	0.43
9:I:1772:A:C8	9:I:1772:A:O5'	2.72	0.43
9:I:1798:G:C1'	9:I:1840:A:N6	2.76	0.43
9:I:1860:U:H2'	9:I:1861:G:H1'	2.00	0.43
9:I:1894:C:C4	9:I:1895:U:C4	3.05	0.43
9:I:1906:G:HO2'	9:I:1907:G:H5'	1.81	0.43
9:I:1949:A:C6	9:I:1950:G:C5	3.07	0.43
9:I:2018:G:C2	9:I:2019:U:C4	3.06	0.43
9:I:2035:G:C2	9:I:2059:G:C5	3.07	0.43
9:I:2126:A:C6	18:T:81:ASP:OD2	2.71	0.43
9:I:2126:A:H5''	9:I:2127:A:H5'	2.01	0.43
9:I:2145:C:O2'	9:I:2146:U:C5'	2.65	0.43
9:I:2215:A:C5	9:I:2216:A:C5	3.06	0.43
9:I:2238:G:N2	9:I:2259:G:C4	2.86	0.43
9:I:2246:PSU:H6	9:I:2246:PSU:H2'	1.62	0.43
9:I:2401:G:H2'	9:I:2402:C:H6	1.80	0.43
9:I:2422:A:C2'	9:I:2423:U:C5'	2.95	0.43
9:I:2500:C:C5'	16:R:30:THR:OG1	2.66	0.43
9:I:2556:G:H2'	9:I:2557:G:O4'	2.19	0.43
9:I:2609:G:O2'	9:I:2610:G:C5'	2.67	0.43
9:I:2610:G:C5	9:I:2611:C:C5	3.07	0.43
9:I:2680:G:H3'	9:I:2681:G:C8	2.53	0.43
9:I:2688:A:C2	9:I:2689:G:H1'	2.54	0.43
9:I:2780:A:C8	9:I:2783:C:N4	2.87	0.43
9:I:2854:G:C3'	9:I:2855:G:H5'	2.49	0.43
9:I:2881:A:C6	9:I:2882:G:N7	2.87	0.43
9:I:2913:A:C2	9:I:2915:G:C4	3.06	0.43
9:I:2935:G:H2'	9:I:2936:U:H6	1.77	0.43
9:I:2938:G:N2	9:I:2939:G:H1'	2.33	0.43
9:I:2991:U:C3'	9:I:2992:C:C6	3.02	0.43
9:I:3062:G:C3'	11:K:58:LYS:NZ	2.82	0.43
9:I:3095:G:C2'	9:I:3096:U:O5'	2.67	0.43
9:I:3380:U:C2	9:I:3381:C:C6	3.07	0.43
9:I:3461:C:C2'	9:I:3462:G:H5'	2.48	0.43
9:I:3543:G:O2'	9:I:3544:C:H5'	2.18	0.43
9:I:3551:G:C2	9:I:4106:C:C2	3.07	0.43
9:I:3555:G:C2	9:I:3557:C:C6	3.07	0.43
9:I:3596:G:H2'	9:I:3597:C:N1	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3720:C:C2	9:I:3721:A:C8	3.06	0.43
9:I:3780:G:N2	9:I:3840:A:C4	2.87	0.43
9:I:3797:G:O2'	14:N:120:SER:CA	2.66	0.43
9:I:3808:A:C8	14:N:154:THR:HG21	2.54	0.43
9:I:3825:G:O2'	9:I:3830:A:C6	2.68	0.43
9:I:3826:C:H2'	9:I:3827:A:N7	2.34	0.43
9:I:3871:A:C6	9:I:3872:A:N3	2.87	0.43
9:I:3891:G:C4	9:I:3892:U:C6	3.07	0.43
9:I:3893:G:C6	9:I:3912:A:C6	3.06	0.43
9:I:3929:A:C2	9:I:3930:G:C8	3.07	0.43
9:I:4024:A:H4'	9:I:4028:A:C6	2.53	0.43
9:I:4186:G:N2	39:o:93:LYS:HZ2	2.17	0.43
9:I:4191:G:H5''	9:I:4192:U:OP2	2.19	0.43
9:I:4196:G:H3'	9:I:4197:C:H5	1.84	0.43
9:I:4340:G:OP1	39:o:50:ARG:HA	2.19	0.43
9:I:4343:U:H5	39:o:20:ARG:HH22	1.67	0.43
9:I:4346:G:H2'	9:I:4347:G:C8	2.44	0.43
10:J:12:G:O2'	10:J:14:A:OP2	2.37	0.43
10:J:42:C:O4'	14:N:62:GLN:CD	2.61	0.43
10:J:65:A:C6	10:J:106:G:C4	3.07	0.43
10:J:75:G:OP1	45:u:27:PRO:CB	2.62	0.43
10:J:78:G:C2'	10:J:79:U:C6	3.01	0.43
10:J:112:C:H6	10:J:112:C:OP2	2.02	0.43
11:K:122:ALA:HB3	11:K:127:ASN:ND2	2.33	0.43
11:K:144:GLU:HB2	11:K:187:CYS:HB3	2.00	0.43
12:L:10:GLY:C	12:L:11:MET:CG	2.92	0.43
13:M:6:LYS:HE3	13:M:118:LEU:O	2.18	0.43
13:M:109:LEU:HD12	13:M:109:LEU:O	2.19	0.43
13:M:119:ILE:O	13:M:188:MET:N	2.51	0.43
13:M:131:THR:HG22	13:M:163:ASN:H	1.77	0.43
14:N:30:VAL:N	14:N:168:LEU:CD1	2.79	0.43
14:N:32:LYS:HG2	14:N:156:THR:HB	2.00	0.43
14:N:116:LEU:CD1	14:N:129:MET:HE2	2.49	0.43
15:O:8:VAL:HG11	15:O:71:LEU:CD2	2.48	0.43
15:O:26:LYS:HB3	15:O:31:GLU:CD	2.43	0.43
15:O:122:ALA:CB	15:O:132:LEU:HA	2.49	0.43
15:O:158:GLY:O	15:O:168:VAL:HG21	2.19	0.43
16:R:55:ILE:HG13	16:R:123:LYS:CD	2.49	0.43
20:V:16:HIS:O	20:V:20:MET:HG2	2.19	0.43
22:X:41:TYR:CE1	22:X:89:VAL:HG21	2.53	0.43
24:Z:142:GLU:OE2	24:Z:143:MET:HE3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:c:9:MET:HG3	27:c:13:ILE:HD11	2.00	0.43
28:d:78:HIS:HD2	28:d:100:PHE:O	2.00	0.43
28:d:94:GLU:O	28:d:97:LYS:HB3	2.19	0.43
30:f:11:ILE:HD11	30:f:72:VAL:HG13	2.00	0.43
34:j:6:ILE:HB	34:j:49:ALA:CB	2.48	0.43
38:n:4:SER:C	38:n:6:ARG:N	2.75	0.43
38:n:10:ALA:HB2	38:n:94:SER:HA	2.00	0.43
39:o:61:ARG:HH11	39:o:100:ARG:HD2	1.83	0.43
42:r:4:ILE:HD12	42:r:4:ILE:N	2.33	0.43
43:s:29:THR:OG1	43:s:86:THR:HA	2.18	0.43
43:s:45:ALA:HA	43:s:49:LYS:NZ	2.33	0.43
44:t:34:ILE:O	44:t:34:ILE:CG2	2.65	0.43
45:u:43:ASP:C	45:u:47:VAL:HG23	2.43	0.43
45:u:70:ILE:HG12	45:u:72:VAL:HG13	2.00	0.43
45:u:80:HIS:HB2	45:u:83:LYS:O	2.19	0.43
48:x:56:LEU:O	48:x:60:ALA:CB	2.67	0.43
2:B:73:ASP:HB3	2:B:76:ARG:HB3	2.01	0.43
3:C:54:LEU:HD13	3:C:80:LYS:O	2.18	0.43
5:E:4:TYR:CB	5:E:39:ALA:HB1	2.48	0.43
5:E:46:LEU:CG	25:a:86:ARG:HD2	2.48	0.43
6:F:11:LEU:HD23	6:F:11:LEU:H	1.83	0.43
7:G:7:LYS:O	7:G:10:ILE:HG12	2.19	0.43
8:H:33:ARG:HA	8:H:33:ARG:NE	2.34	0.43
9:I:8:G:H2'	9:I:9:A:C8	2.54	0.43
9:I:47:C:C2'	9:I:364:U:O4	2.60	0.43
9:I:77:A:C2	9:I:78:G:C8	3.07	0.43
9:I:293:U:O2'	9:I:294:C:H5'	2.19	0.43
9:I:298:G:H2'	9:I:299:A:C8	2.54	0.43
9:I:337:A:C5	9:I:338:C:C4	3.06	0.43
9:I:400:C:O3'	9:I:620:A:O2'	2.29	0.43
9:I:454:G:H2'	9:I:455:A:C1'	2.49	0.43
9:I:455:A:C3'	9:I:456:G:C8	2.95	0.43
9:I:516:G:N2	9:I:532:A:N7	2.66	0.43
9:I:522:A:H61	31:g:49:ARG:HH22	1.65	0.43
9:I:525:C:OP2	31:g:87:LYS:NZ	2.43	0.43
9:I:653:G:H3'	9:I:654:A:C8	2.51	0.43
9:I:663:G:N2	9:I:740:G:H22	2.16	0.43
9:I:672:A:C6	9:I:733:G:C6	3.06	0.43
9:I:723:G:N1	9:I:732:G:N1	2.67	0.43
9:I:740:G:H2'	9:I:741:G:O4'	2.19	0.43
9:I:950:G:C2	9:I:951:U:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1004:A:H3'	9:I:1005:G:H8	1.83	0.43
9:I:1075:U:C2	9:I:1076:G:C8	3.06	0.43
9:I:1463:G:HO2'	9:I:1464:A:P	2.40	0.43
9:I:1487:U:O2'	9:I:1488:G:O4'	2.35	0.43
9:I:1492:C:O2'	9:I:1493:U:O4'	2.32	0.43
9:I:1524:G:C4	9:I:1525:U:C4	3.07	0.43
9:I:1598:G:H2'	9:I:1599:U:N1	2.32	0.43
9:I:1676:A:O2'	9:I:1677:G:C4'	2.64	0.43
9:I:1787:G:C6	9:I:1788:U:C6	3.07	0.43
9:I:1794:A:C6	9:I:1845:A:O4'	2.72	0.43
9:I:1817:G:C2'	9:I:1818:C:H5'	2.48	0.43
9:I:1964:U:C2'	9:I:1965:G:O5'	2.67	0.43
9:I:2007:A:H5''	9:I:2008:A:P	2.59	0.43
9:I:2029:A:P	16:R:113:PRO:HG3	2.58	0.43
9:I:2088:U:C2'	9:I:2089:U:O5'	2.67	0.43
9:I:2185:A:O2'	9:I:2273:U:O4	2.19	0.43
9:I:2212:G:C4	9:I:2213:G:C8	3.07	0.43
9:I:2276:G:C8	9:I:2293:A:C4	3.07	0.43
9:I:2360:U:C2	9:I:2410:G:N2	2.86	0.43
9:I:2367:C:N3	9:I:2407:U:H5''	2.34	0.43
9:I:2493:U:OP1	40:p:83:LYS:NZ	2.48	0.43
9:I:2520:G:C6	9:I:2521:A:C6	3.07	0.43
9:I:2647:C:C4	9:I:2648:G:C5	3.07	0.43
9:I:2712:G:O2'	9:I:2713:U:H5'	2.19	0.43
9:I:2835:G:C2	43:s:84:TYR:CB	3.01	0.43
9:I:2905:U:N3	9:I:3086:C:N3	2.67	0.43
9:I:2989:A:HO2'	9:I:2990:A:C4'	2.30	0.43
9:I:3050:C:O2	9:I:3050:C:H2'	2.17	0.43
9:I:3061:G:C5	11:K:25:LYS:CD	3.02	0.43
9:I:3125:G:N2	9:I:3129:A:H62	2.09	0.43
9:I:3225:G:N1	9:I:3227:G:C5	2.86	0.43
9:I:3231:G:H2'	9:I:3232:G:N9	2.33	0.43
9:I:3301:G:H1'	9:I:3305:G:H22	1.84	0.43
9:I:3331:C:H2'	9:I:3393:A:H61	1.83	0.43
9:I:3352:A:N6	9:I:3378:G:C4	2.84	0.43
9:I:3369:G:OP2	9:I:3369:G:H8	2.02	0.43
9:I:3435:C:C5	9:I:3436:C:C4	3.07	0.43
9:I:3438:U:C2	9:I:3449:U:O4'	2.71	0.43
9:I:3495:C:H4'	9:I:4183:U:O2	2.18	0.43
9:I:3608:A:H2'	9:I:3660:U:O2'	2.19	0.43
9:I:3690:C:C2'	9:I:3691:U:O4'	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3716:C:N4	9:I:3717:G:O6	2.52	0.43
9:I:3725:U:O2'	9:I:3726:C:H5'	2.19	0.43
9:I:3728:G:N2	9:I:3729:G:C1'	2.81	0.43
9:I:3781:A:N1	9:I:3783:G:N7	2.67	0.43
9:I:3796:U:C5	9:I:3796:U:OP2	2.72	0.43
9:I:3835:G:H2'	9:I:3836:C:O4'	2.18	0.43
9:I:3863:A:C2'	9:I:3864:G:O5'	2.66	0.43
9:I:3877:G:N2	9:I:3878:U:C4	2.87	0.43
9:I:3896:U:C6	9:I:3899:G:C6	3.07	0.43
9:I:3906:A:C4	9:I:3907:G:C8	3.07	0.43
9:I:3962:A:H2	9:I:3975:G:C2	2.36	0.43
9:I:3966:G:H5''	9:I:3967:U:C5'	2.46	0.43
9:I:4160:C:O2	9:I:4160:C:H2'	2.18	0.43
9:I:4183:U:H4'	9:I:4184:U:OP2	2.19	0.43
9:I:4212:G:H1'	9:I:4342:G:OP2	2.19	0.43
9:I:4255:A:C6	9:I:4256:C:C5	3.07	0.43
9:I:4266:C:H5''	12:L:173:GLN:NE2	2.33	0.43
9:I:4434:G:C2'	9:I:4435:A:H8	2.31	0.43
10:J:73:U:O2	45:u:31:TYR:CD2	2.72	0.43
10:J:113:C:OP2	10:J:113:C:H6	2.02	0.43
11:K:2:VAL:HG12	11:K:16:VAL:HG13	1.99	0.43
11:K:140:VAL:N	11:K:161:VAL:O	2.51	0.43
11:K:218:THR:HG22	11:K:219:VAL:N	2.33	0.43
12:L:62:LYS:HA	12:L:65:ALA:CB	2.32	0.43
12:L:109:VAL:HG12	12:L:201:LEU:HB3	2.00	0.43
12:L:131:ASP:OD2	12:L:133:THR:O	2.36	0.43
12:L:168:GLU:OE1	12:L:169:ARG:O	2.36	0.43
13:M:16:GLU:HG3	13:M:16:GLU:O	2.17	0.43
13:M:123:LYS:HZ1	13:M:191:ASP:CB	2.31	0.43
13:M:127:GLU:O	13:M:156:ASN:ND2	2.51	0.43
15:O:27:GLY:N	15:O:78:VAL:HB	2.34	0.43
15:O:112:VAL:CG1	15:O:113:ASP:H	2.31	0.43
15:O:148:ARG:C	15:O:150:TYR:N	2.76	0.43
18:T:59:ARG:HH11	18:T:59:ARG:HG3	1.84	0.43
18:T:110:VAL:CG1	18:T:135:ILE:HD11	2.49	0.43
19:U:45:GLN:NE2	19:U:124:LEU:HD23	2.34	0.43
19:U:50:ARG:HH12	19:U:51:ARG:HA	1.83	0.43
20:V:22:ARG:O	20:V:23:ASN:C	2.62	0.43
21:W:96:GLY:O	21:W:104:VAL:HG21	2.18	0.43
21:W:112:LYS:HA	21:W:115:GLU:OE2	2.19	0.43
23:Y:14:GLU:HG3	23:Y:59:LYS:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:a:4:TYR:CD1	25:a:89:VAL:CG2	3.02	0.43
25:a:34:GLY:CA	25:a:65:GLU:O	2.66	0.43
27:c:6:ILE:HA	27:c:32:LYS:CE	2.48	0.43
29:e:4:ILE:HA	29:e:96:ILE:HA	2.01	0.43
31:g:28:GLN:HG3	31:g:80:LEU:CG	2.48	0.43
31:g:39:THR:HG22	31:g:40:THR:N	2.33	0.43
31:g:85:ARG:HG3	31:g:86:VAL:N	2.33	0.43
35:k:25:LYS:HD2	35:k:26:ASN:CA	2.49	0.43
37:m:23:ILE:H	37:m:37:GLN:CD	2.26	0.43
40:p:38:VAL:O	40:p:41:ALA:HB3	2.19	0.43
40:p:81:GLY:N	40:p:84:LYS:HD2	2.33	0.43
41:q:77:PHE:CD2	41:q:78:ARG:N	2.86	0.43
42:r:41:LYS:HB2	42:r:44:ALA:H	1.83	0.43
43:s:4:GLU:O	43:s:7:LEU:CD1	2.66	0.43
43:s:61:LEU:HG	43:s:82:LYS:HB3	2.00	0.43
44:t:98:ASN:O	44:t:99:SER:C	2.61	0.43
45:u:28:ALA:O	45:u:40:ILE:O	2.37	0.43
46:v:24:GLY:H	46:v:52:LYS:CA	2.18	0.43
46:v:29:ARG:N	46:v:48:THR:HG23	2.33	0.43
48:x:56:LEU:CA	48:x:59:LYS:HB3	2.37	0.43
49:y:2:LYS:HD3	49:y:2:LYS:HA	1.84	0.43
49:y:27:GLY:HA3	49:y:37:ARG:CZ	2.49	0.43
2:B:75:ALA:O	2:B:79:GLN:HG3	2.19	0.43
3:C:28:ARG:NH2	9:I:110:G:H4'	2.34	0.43
4:D:12:ASP:OD1	4:D:19:VAL:N	2.52	0.43
7:G:13:GLU:O	7:G:17:LYS:N	2.44	0.43
8:H:1:PRO:CG	30:f:101:VAL:HG12	2.49	0.43
8:H:14:ALA:HB2	8:H:17:ARG:NH2	2.34	0.43
9:I:92:U:H3'	9:I:93:G:C5'	2.43	0.43
9:I:133:G:O2'	9:I:134:C:O5'	2.36	0.43
9:I:144:G:N2	9:I:177:C:C6	2.86	0.43
9:I:157:G:N2	9:I:161:A:H62	2.16	0.43
9:I:160:A:H61	9:I:346:G:C1'	2.26	0.43
9:I:301:G:H2'	9:I:302:A:C8	2.54	0.43
9:I:311:C:C2'	9:I:312:A:O4'	2.67	0.43
9:I:326:A:O2'	9:I:327:C:H4'	2.18	0.43
9:I:553:A:H2'	9:I:554:U:C6	2.54	0.43
9:I:567:G:O6	31:g:1:ALA:HB2	2.19	0.43
9:I:587:G:C2	9:I:649:G:O6	2.71	0.43
9:I:593:U:O2'	9:I:594:A:H5'	2.19	0.43
9:I:850:G:O2'	9:I:851:G:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1066:A:C2	9:I:1107:G:O2'	2.72	0.43
9:I:1074:U:H5'	9:I:1100:A:C6	2.53	0.43
9:I:1102:C:H4'	21:W:94:LEU:HD13	2.00	0.43
9:I:1138:G:O4'	9:I:1139:C:H6	2.02	0.43
9:I:1260:A:O2'	9:I:1282:U:H5''	2.19	0.43
9:I:1384:G:HO2'	9:I:1385:G:H5'	1.83	0.43
9:I:1472:G:N1	9:I:1473:G:N7	2.67	0.43
9:I:1502:G:C8	9:I:1502:G:O5'	2.71	0.43
9:I:1661:A:C5	9:I:1662:U:N3	2.87	0.43
9:I:1695:A:N6	9:I:1698:C:OP2	2.52	0.43
9:I:1726:A:O2'	9:I:1727:A:O4'	2.30	0.43
9:I:1759:G:H2'	9:I:1760:G:H8	1.82	0.43
9:I:1773:G:C2	9:I:1865:U:C6	3.07	0.43
9:I:1837:C:C5'	44:t:1:ALA:CB	2.75	0.43
9:I:1872:G:C8	47:w:60:LYS:CE	3.02	0.43
9:I:1905:U:H3'	9:I:1906:G:C5'	2.46	0.43
9:I:1907:G:H2'	9:I:1908:G:H8	1.72	0.43
9:I:1992:A:C6	9:I:1993:G:C5	3.07	0.43
9:I:2072:A:H2'	9:I:2073:U:O4'	2.18	0.43
9:I:2087:C:C2	9:I:2171:C:O4'	2.71	0.43
9:I:2227:A:O2'	9:I:2228:G:C5'	2.66	0.43
9:I:2266:U:O2'	9:I:2267:U:H5'	2.18	0.43
9:I:2349:A:H2'	9:I:2349:A:N3	2.34	0.43
9:I:2377:A:H2	9:I:2394:A:N7	2.16	0.43
9:I:2536:G:O6	9:I:2607:U:C4	2.72	0.43
9:I:2619:G:C6	9:I:2620:A:C6	3.07	0.43
9:I:2659:A:C6	9:I:2679:G:C6	3.07	0.43
9:I:2667:U:O4'	9:I:2667:U:OP2	2.37	0.43
9:I:2707:A:H2'	9:I:2708:A:O4'	2.19	0.43
9:I:2809:C:C2	9:I:2810:U:C5	3.07	0.43
9:I:2930:G:H21	9:I:3009:A:C2'	2.31	0.43
9:I:2939:G:H2'	9:I:2940:C:O5'	2.19	0.43
9:I:2944:G:H2'	9:I:2945:C:C5	2.53	0.43
9:I:2965:G:C6	9:I:2966:C:C4	3.07	0.43
9:I:3113:G:C4	9:I:3114:G:C8	3.07	0.43
9:I:3159:A:C4'	17:S:66:LYS:HD2	2.48	0.43
9:I:3178:G:C6	9:I:3199:A:C5	3.07	0.43
9:I:3213:G:C3'	9:I:3214:U:C6	3.02	0.43
9:I:3251:A:OP1	9:I:3251:A:O4'	2.37	0.43
9:I:3292:U:H3'	9:I:3313:A:H61	1.82	0.43
9:I:3305:G:C5	9:I:3306:U:C4	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3350:U:N3	9:I:3351:G:N7	2.67	0.43
9:I:3431:A:HO2'	9:I:3432:A:P	2.35	0.43
9:I:3553:A:H2'	9:I:3997:2MA:HM23	2.01	0.43
9:I:3557:C:C2	9:I:3558:C:C6	3.07	0.43
9:I:3577:G:C2	9:I:3578:C:H1'	2.53	0.43
9:I:3581:G:C5	9:I:3582:A:N7	2.86	0.43
9:I:3760:A:H4'	9:I:3761:A:C5'	2.49	0.43
9:I:3765:G:H8	9:I:3765:G:O5'	2.01	0.43
9:I:3791:A:C8	9:I:3791:A:OP2	2.72	0.43
9:I:3881:U:C6	9:I:3881:U:C3'	3.01	0.43
9:I:3912:A:O2'	34:j:17:PHE:CG	2.71	0.43
9:I:3957:C:C2'	9:I:3958:G:C5'	2.90	0.43
9:I:3980:C:H2'	9:I:3981:G:C5'	2.49	0.43
9:I:4010:A:C4	9:I:4063:G:N2	2.86	0.43
9:I:4041:A:H2	17:S:23:LYS:HE3	1.83	0.43
9:I:4048:U:C6	9:I:4049:U:H5	2.37	0.43
9:I:4171:G:C2	9:I:4172:C:C5	3.06	0.43
9:I:4180:G:H2'	9:I:4181:U:O4'	2.19	0.43
9:I:4231:G:O2'	9:I:4232:A:H5'	2.19	0.43
9:I:4251:A:C6	9:I:4252:A:C8	3.07	0.43
9:I:4296:G:C8	9:I:4296:G:O5'	2.72	0.43
9:I:4326:U:H1'	9:I:4328:G:C5	2.53	0.43
9:I:4342:G:H2'	39:o:93:LYS:CA	2.47	0.43
9:I:4352:C:H5''	9:I:4357:G:N2	2.33	0.43
9:I:4372:A:C2'	9:I:4373:C:H5'	2.48	0.43
9:I:4402:UR3:H2'	9:I:4402:UR3:H6	1.82	0.43
10:J:5:G:C5'	10:J:27:C:H5'	2.41	0.43
10:J:49:A:P	38:n:66:ASN:CB	3.07	0.43
11:K:95:TYR:N	11:K:99:GLU:O	2.52	0.43
11:K:122:ALA:O	11:K:127:ASN:CB	2.55	0.43
11:K:124:LYS:HB3	11:K:125:PRO:CD	2.40	0.43
11:K:244:VAL:HB	11:K:249:VAL:O	2.18	0.43
12:L:8:LYS:CB	12:L:199:SER:H	2.24	0.43
12:L:48:ILE:HG12	12:L:82:PHE:O	2.19	0.43
12:L:66:GLY:O	12:L:70:LYS:HB3	2.19	0.43
12:L:110:THR:O	12:L:202:ILE:HG13	2.19	0.43
12:L:193:VAL:CG2	12:L:201:LEU:HD12	2.49	0.43
13:M:119:ILE:CB	13:M:186:VAL:O	2.65	0.43
13:M:134:LEU:HD22	13:M:160:ALA:C	2.43	0.43
14:N:63:LYS:HA	14:N:64:PRO:HD3	1.91	0.43
14:N:66:ILE:HD13	14:N:86:CYS:CB	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:136:ILE:HG13	14:N:137:PHE:CD1	2.53	0.43
15:O:63:GLN:O	15:O:67:ALA:HB2	2.19	0.43
15:O:86:LEU:HB3	15:O:130:ILE:HD12	1.98	0.43
15:O:122:ALA:O	15:O:123:GLU:CG	2.65	0.43
16:R:15:TRP:C	16:R:16:TYR:CG	2.96	0.43
18:T:14:LYS:HE2	18:T:14:LYS:CA	2.48	0.43
18:T:98:ALA:HB3	18:T:100:ILE:HG12	2.00	0.43
19:U:11:LYS:CD	19:U:86:LYS:HD3	2.48	0.43
19:U:52:ALA:O	19:U:56:ALA:HB3	2.19	0.43
20:V:31:HIS:O	20:V:120:GLU:HG3	2.18	0.43
20:V:82:GLU:O	20:V:85:PRO:HD2	2.18	0.43
21:W:126:LEU:HG	21:W:131:ALA:HA	2.01	0.43
22:X:76:ILE:HG22	22:X:77:GLY:O	2.19	0.43
22:X:110:LEU:CD2	22:X:145:ALA:HB2	2.49	0.43
22:X:155:ARG:HH11	22:X:192:TYR:HB2	1.84	0.43
23:Y:143:SER:HB3	23:Y:178:GLU:HB2	1.97	0.43
23:Y:145:ARG:O	23:Y:149:LYS:HG3	2.19	0.43
26:b:1:PRO:N	26:b:4:ARG:CZ	2.81	0.43
28:d:21:GLY:N	28:d:58:LEU:HA	2.33	0.43
28:d:62:ILE:CD1	28:d:76:ILE:HG23	2.49	0.43
30:f:8:VAL:HG13	30:f:71:GLU:OE2	2.19	0.43
30:f:18:THR:H	30:f:35:ALA:HB3	1.84	0.43
31:g:33:CYS:HA	31:g:54:VAL:HG22	2.00	0.43
35:k:27:GLY:O	35:k:31:LEU:N	2.49	0.43
38:n:25:LEU:HD22	38:n:38:VAL:CG2	2.48	0.43
38:n:33:HIS:CE1	38:n:64:THR:HG21	2.53	0.43
38:n:78:ALA:HB1	38:n:112:ALA:O	2.19	0.43
39:o:49:ILE:H	39:o:95:LYS:CE	2.32	0.43
39:o:91:VAL:N	39:o:112:ARG:NH2	2.67	0.43
40:p:46:TYR:O	40:p:49:ARG:HB2	2.19	0.43
41:q:5:PHE:O	41:q:11:GLN:HA	2.19	0.43
42:r:48:LYS:HG2	42:r:52:GLU:CD	2.44	0.43
42:r:66:ILE:HD12	42:r:69:LEU:CD1	2.49	0.43
43:s:20:ALA:O	43:s:21:SER:C	2.60	0.43
43:s:30:ILE:CG1	43:s:87:LEU:HD21	2.49	0.43
43:s:77:ARG:HA	43:s:77:ARG:HD2	1.79	0.43
44:t:18:LYS:O	44:t:18:LYS:CG	2.67	0.43
44:t:87:GLU:OE1	44:t:92:VAL:HG21	2.19	0.43
45:u:92:VAL:O	45:u:94:ALA:N	2.52	0.43
48:x:1:LYS:HZ3	48:x:52:VAL:N	2.17	0.43
1:A:2:LYS:HB3	9:I:1214:G:C4'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:66:LEU:HD23	2:B:81:ILE:CG2	2.38	0.43
3:C:63:GLN:HG2	9:I:226:G:N7	2.30	0.43
3:C:70:ARG:HB3	9:I:375:G:P	2.59	0.43
4:D:68:LYS:NZ	9:I:253:G:C8	2.84	0.43
4:D:68:LYS:NZ	9:I:253:G:O4'	2.52	0.43
6:F:43:ILE:CD1	6:F:62:ASP:HA	2.49	0.43
6:F:51:ASN:HB3	6:F:73:ALA:HB1	2.01	0.43
7:G:79:ALA:O	7:G:82:ASN:OD1	2.37	0.43
8:H:42:THR:O	8:H:46:ARG:HG3	2.19	0.43
9:I:7:A:C8	24:Z:97:ILE:HG13	2.54	0.43
9:I:114:G:O3'	9:I:115:A:H8	2.02	0.43
9:I:245:A:N7	9:I:280:G:N2	2.67	0.43
9:I:260:U:C2	9:I:262:A:OP2	2.72	0.43
9:I:536:G:C2	9:I:537:G:C5	3.07	0.43
9:I:690:G:H1'	9:I:695:A:H62	1.79	0.43
9:I:716:U:P	9:I:733:G:OP2	2.77	0.43
9:I:754:G:H2'	9:I:755:C:C6	2.54	0.43
9:I:777:G:C2'	9:I:778:C:C1'	2.86	0.43
9:I:934:A:H8	9:I:934:A:O5'	2.02	0.43
9:I:938:G:C2	9:I:939:C:C2	3.06	0.43
9:I:945:A:H2'	9:I:946:G:H8	1.83	0.43
9:I:1094:U:C2	9:I:1095:C:C6	3.06	0.43
9:I:1197:G:O2'	29:e:52:HIS:ND1	2.52	0.43
9:I:1236:C:O5'	9:I:1237:A:H5'	2.19	0.43
9:I:1250:A:N3	9:I:1368:C:H1'	2.34	0.43
9:I:1268:A:OP2	9:I:1269:G:N7	2.51	0.43
9:I:1449:A:N1	9:I:4358:G:O6	2.52	0.43
9:I:1462:U:O3'	9:I:1463:G:H4'	2.19	0.43
9:I:1465:G:N2	9:I:4186:G:C3'	2.80	0.43
9:I:1479:A:C8	9:I:4326:U:O4	2.72	0.43
9:I:1496:A:C4	9:I:1497:C:C6	3.07	0.43
9:I:1509:G:C6	9:I:4123:U:C6	3.07	0.43
9:I:1525:U:O2'	9:I:1526:G:C5'	2.64	0.43
9:I:1538:A:H2'	9:I:1539:G:O4'	2.19	0.43
9:I:1621:G:C2	9:I:1622:G:C8	3.07	0.43
9:I:1759:G:N1	9:I:1760:G:C5	2.87	0.43
9:I:1795:G:H22	9:I:1844:A:H1'	1.80	0.43
9:I:1882:A:C4	9:I:1883:C:O2	2.72	0.43
9:I:1896:G:C6	9:I:1897:U:C4	3.06	0.43
9:I:1922:A:C5	9:I:1923:A:N1	2.86	0.43
9:I:1987:C:H2'	9:I:1988:G:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2043:G:H1	9:I:2050:C:H42	1.66	0.43
9:I:2116:A:C2	9:I:2117:G:H1'	2.54	0.43
9:I:2149:G:C2'	9:I:2150:C:O4'	2.64	0.43
9:I:2206:A:C3'	9:I:2207:G:H8	2.29	0.43
9:I:2255:U:H2'	9:I:2256:A:O4'	2.19	0.43
9:I:2351:C:C2	9:I:2352:U:C5	3.07	0.43
9:I:2397:C:N3	9:I:2398:G:N7	2.67	0.43
9:I:2407:U:H1'	9:I:2408:G:N7	2.34	0.43
9:I:2522:A:C5	9:I:2523:A:C5	3.07	0.43
9:I:2532:G:C2'	9:I:2533:A:H8	2.31	0.43
9:I:2535:G:C2	9:I:2536:G:N7	2.87	0.43
9:I:2542:A:O2'	9:I:2606:G:N2	2.52	0.43
9:I:2549:G:N3	9:I:2579:A:C2	2.87	0.43
9:I:2624:U:C4	12:L:152:PRO:HA	2.54	0.43
9:I:2680:G:H3'	9:I:2681:G:H8	1.83	0.43
9:I:2786:G:H2'	9:I:2787:C:C6	2.51	0.43
9:I:2915:G:N3	9:I:2915:G:C2'	2.81	0.43
9:I:2928:A:C2	9:I:2929:G:C5	3.07	0.43
9:I:2999:A:C2'	9:I:3000:U:C5'	2.95	0.43
9:I:3006:C:H2'	9:I:3007:U:O4'	2.16	0.43
9:I:3058:C:HO2'	9:I:3059:C:P	2.36	0.43
9:I:3207:A:C2	9:I:3239:A:N6	2.80	0.43
9:I:3264:G:C4	9:I:3477:G:C2	3.06	0.43
9:I:3310:C:C2'	9:I:3311:G:OP2	2.67	0.43
9:I:3349:U:O3'	9:I:3350:U:C6	2.71	0.43
9:I:3500:C:O2	9:I:3500:C:H2'	2.18	0.43
9:I:3587:G:C6	9:I:3719:A:C8	3.07	0.43
9:I:3590:C:C2'	9:I:3591:A:O5'	2.67	0.43
9:I:3679:U:C5	9:I:3680:G:O6	2.71	0.43
9:I:3687:G:O5'	9:I:3687:G:H8	2.02	0.43
9:I:3716:C:N3	9:I:3717:G:C5	2.87	0.43
9:I:3719:A:C1'	9:I:3720:C:O5'	2.67	0.43
9:I:3799:U:H5''	14:N:130:GLY:CA	2.49	0.43
9:I:3826:C:C4	9:I:3827:A:N6	2.86	0.43
9:I:3871:A:C2	38:n:91:PHE:CB	3.02	0.43
9:I:3961:C:P	37:m:4:ARG:HH22	2.42	0.43
9:I:3972:A:H5'	37:m:32:LYS:CG	2.44	0.43
9:I:4210:C:C2	9:I:4211:C:H5	2.32	0.43
9:I:4324:C:H2'	9:I:4325:G:H5'	2.00	0.43
9:I:4345:A:C2'	9:I:4346:G:O5'	2.67	0.43
9:I:4391:G:H2'	9:I:4392:G:H8	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:114:A:C2	10:J:115:G:C5	3.07	0.43
11:K:9:SER:OG	11:K:12:ARG:HB2	2.19	0.43
11:K:109:LEU:HA	11:K:125:PRO:HG2	2.00	0.43
11:K:117:SER:CA	11:K:121:ALA:HB2	2.48	0.43
11:K:121:ALA:HB3	11:K:128:THR:O	2.19	0.43
11:K:144:GLU:OE2	11:K:148:GLY:C	2.62	0.43
11:K:198:GLU:CA	11:K:201:LEU:HD13	2.49	0.43
12:L:96:ILE:HG22	12:L:97:SER:N	2.34	0.43
13:M:18:THR:OG1	13:M:106:LYS:CA	2.61	0.43
14:N:21:TYR:CZ	14:N:28:PRO:HD3	2.54	0.43
14:N:23:SER:O	14:N:25:MET:N	2.51	0.43
15:O:10:VAL:HG23	15:O:47:ASN:OD1	2.18	0.43
15:O:100:ASN:O	15:O:116:LEU:CA	2.65	0.43
16:R:33:ALA:HB1	16:R:109:LEU:HD21	2.01	0.43
16:R:109:LEU:HD12	16:R:110:PRO:HD2	2.00	0.43
19:U:38:ARG:HB2	19:U:98:PRO:CD	2.49	0.43
19:U:110:GLU:O	19:U:111:GLU:C	2.62	0.43
19:U:111:GLU:HA	19:U:114:ARG:NE	2.34	0.43
20:V:22:ARG:C	20:V:70:THR:OG1	2.62	0.43
21:W:16:GLN:CD	21:W:19:TYR:HE2	2.27	0.43
21:W:164:ASP:OD2	21:W:164:ASP:N	2.52	0.43
22:X:37:LYS:H	22:X:37:LYS:CD	2.22	0.43
23:Y:10:LEU:HD22	23:Y:62:ARG:CZ	2.49	0.43
23:Y:148:ALA:O	23:Y:151:GLN:HB2	2.18	0.43
24:Z:35:GLY:N	24:Z:109:ALA:O	2.52	0.43
25:a:10:VAL:HG11	25:a:14:GLN:O	2.18	0.43
27:c:24:VAL:HG13	27:c:60:LEU:HB2	2.01	0.43
30:f:16:ASN:O	30:f:45:LYS:HE3	2.18	0.43
32:h:67:ASP:HA	32:h:70:ARG:CG	2.49	0.43
32:h:101:THR:HA	32:h:105:ALA:HB2	2.01	0.43
36:l:37:THR:HA	36:l:40:LYS:HE3	2.01	0.43
40:p:60:TRP:CD2	40:p:92:LYS:HA	2.51	0.43
41:q:4:VAL:HA	41:q:12:HIS:O	2.19	0.43
41:q:4:VAL:HG22	41:q:13:ARG:CB	2.45	0.43
41:q:28:ALA:O	41:q:63:VAL:HG11	2.18	0.43
41:q:62:GLU:O	41:q:97:LYS:HB3	2.19	0.43
44:t:13:LEU:HD12	44:t:68:ASN:CA	2.31	0.43
45:u:8:VAL:CG2	45:u:66:ASP:OD2	2.66	0.43
45:u:29:ILE:HD11	45:u:37:PRO:CA	2.49	0.43
46:v:19:GLU:O	46:v:57:VAL:N	2.51	0.43
46:v:20:SER:HB2	46:v:56:LYS:CG	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:v:24:GLY:HA2	46:v:50:PHE:HE2	1.83	0.43
49:y:33:HIS:CE1	49:y:35:VAL:CG2	3.02	0.43
4:D:26:VAL:N	9:I:279:C:H42	2.17	0.42
6:F:49:VAL:CG2	6:F:69:LEU:HB3	2.49	0.42
7:G:55:ILE:CD1	7:G:58:ARG:NE	2.82	0.42
8:H:38:GLU:O	30:f:110:ARG:NH1	2.51	0.42
9:I:80:A:N7	9:I:82:C:N4	2.66	0.42
9:I:129:A:H2	9:I:262:A:N3	2.17	0.42
9:I:210:G:H3'	9:I:210:G:N3	2.33	0.42
9:I:252:A:C2	9:I:272:U:O2	2.68	0.42
9:I:463:U:N3	9:I:466:U:OP2	2.51	0.42
9:I:608:A:C3'	9:I:609:U:H6	2.33	0.42
9:I:664:A:O4'	9:I:732:G:O4'	2.37	0.42
9:I:683:U:O4'	30:f:28:ASN:HB3	2.19	0.42
9:I:693:A:C5'	30:f:43:SER:OG	2.66	0.42
9:I:924:G:C6	9:I:926:G:C6	3.07	0.42
9:I:928:G:N1	9:I:1388:C:C4	2.87	0.42
9:I:935:C:C4	9:I:936:A:N7	2.88	0.42
9:I:1046:G:H8	9:I:1046:G:OP2	2.02	0.42
9:I:1101:A:HO2'	21:W:95:GLY:H	1.67	0.42
9:I:1102:C:H4'	21:W:94:LEU:CD1	2.49	0.42
9:I:1128:C:C2'	9:I:1138:G:N7	2.82	0.42
9:I:1149:A:H1'	9:I:1279:A:N1	2.33	0.42
9:I:1174:G:C2'	9:I:1175:A:H5'	2.49	0.42
9:I:1216:C:H2'	9:I:1217:C:H6	1.78	0.42
9:I:1359:A:H2'	9:I:1360:G:C5'	2.48	0.42
9:I:1462:U:C6	9:I:1464:A:H1'	2.54	0.42
9:I:1524:G:C5	9:I:1525:U:O4	2.72	0.42
9:I:1528:A:C2	9:I:2013:A:N9	2.86	0.42
9:I:1789:G:C4	9:I:1790:U:C6	3.07	0.42
9:I:1815:G:C6	9:I:1816:C:C2	3.07	0.42
9:I:1817:G:C8	9:I:1817:G:H3'	2.54	0.42
9:I:1825:G:C2	9:I:1826:G:C5	3.07	0.42
9:I:1846:A:C2'	9:I:1847:A:O5'	2.66	0.42
9:I:1912:A:C2'	9:I:1913:C:C6	3.02	0.42
9:I:2149:G:C5	9:I:2150:C:C4	3.07	0.42
9:I:2266:U:H2'	9:I:2267:U:H6	1.83	0.42
9:I:2370:U:O2'	9:I:2371:U:C5'	2.50	0.42
9:I:2373:C:N3	9:I:2374:G:N7	2.66	0.42
9:I:2528:G:C2	9:I:2616:G:C4	3.06	0.42
9:I:2809:C:H2'	9:I:2810:U:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2845:C:N4	9:I:2875:G:O6	2.52	0.42
9:I:2939:G:O6	9:I:2960:U:O4	2.36	0.42
9:I:3063:A:C2	9:I:3064:A:C5	3.07	0.42
9:I:3071:C:C2'	9:I:3072:U:C1'	2.95	0.42
9:I:3171:A:C6	9:I:3172:A:C5	3.07	0.42
9:I:3311:G:C4	9:I:3312:U:C4	3.06	0.42
9:I:3392:U:O2	9:I:3395:A:C6	2.72	0.42
9:I:3418:C:C3'	9:I:3419:C:C6	3.00	0.42
9:I:3428:C:C2	9:I:3429:G:C8	3.07	0.42
9:I:3446:A:OP2	17:S:55:GLY:HA2	2.19	0.42
9:I:3466:G:N3	9:I:3467:G:N7	2.67	0.42
9:I:3468:C:C2'	9:I:3469:G:O5'	2.66	0.42
9:I:3470:U:H2'	9:I:3471:A:OP2	2.18	0.42
9:I:3692:A:C8	9:I:3693:A:C8	3.06	0.42
9:I:3808:A:H1'	14:N:126:ASN:HB3	2.01	0.42
9:I:3850:U:H2'	9:I:3851:G:O4'	2.18	0.42
9:I:3852:A:H2'	9:I:3853:C:O4'	2.19	0.42
9:I:3894:G:C5	9:I:3895:U:C5	3.07	0.42
9:I:3992:OMC:O2	9:I:3992:OMC:C2'	2.67	0.42
9:I:4260:A:H3'	9:I:4260:A:P	2.58	0.42
9:I:4268:C:C4	9:I:4269:G:C5	3.06	0.42
9:I:4288:C:OP2	9:I:4288:C:C6	2.72	0.42
9:I:4379:G:C2	9:I:4380:A:C8	3.06	0.42
9:I:4398:G:C4	9:I:4399:U:C5	3.07	0.42
10:J:14:A:H1'	10:J:108:A:C8	2.54	0.42
11:K:93:VAL:HG23	11:K:95:TYR:CE1	2.54	0.42
11:K:93:VAL:CG2	11:K:95:TYR:CE1	3.01	0.42
11:K:131:MET:SD	11:K:189:ALA:CB	3.02	0.42
12:L:9:VAL:CG1	39:o:3:ILE:CG1	2.97	0.42
12:L:9:VAL:CG1	39:o:3:ILE:HB	2.49	0.42
12:L:30:GLU:OE2	12:L:77:ARG:NH1	2.50	0.42
12:L:138:LEU:N	12:L:138:LEU:HD22	2.33	0.42
12:L:168:GLU:CD	12:L:169:ARG:O	2.61	0.42
13:M:18:THR:HG23	13:M:106:LYS:HA	2.01	0.42
13:M:133:LEU:HA	13:M:133:LEU:HD13	1.91	0.42
14:N:78:ILE:CG2	14:N:84:ILE:CD1	2.97	0.42
15:O:98:LYS:N	15:O:101:VAL:O	2.47	0.42
15:O:103:ASN:HA	15:O:113:ASP:HA	2.00	0.42
19:U:28:PHE:HB3	19:U:64:TRP:CB	2.49	0.42
20:V:8:ARG:HD2	20:V:10:LEU:HD11	2.01	0.42
20:V:30:ARG:NH1	20:V:78:LYS:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:8:LYS:CE	21:W:8:LYS:HA	2.49	0.42
21:W:20:TRP:HH2	21:W:25:LYS:NZ	2.17	0.42
21:W:97:MET:HA	21:W:104:VAL:HG11	2.01	0.42
21:W:97:MET:HG3	21:W:105:ARG:NH2	2.33	0.42
22:X:66:THR:HG22	22:X:68:HIS:CD2	2.53	0.42
22:X:81:GLU:HG3	22:X:82:ASP:N	2.34	0.42
36:l:31:ILE:O	36:l:31:ILE:CG2	2.65	0.42
37:m:24:ARG:HH11	37:m:36:ARG:CD	2.32	0.42
38:n:8:ARG:O	38:n:11:THR:HB	2.19	0.42
38:n:75:LYS:CG	38:n:111:GLU:HB3	2.48	0.42
38:n:82:LEU:HD11	38:n:113:GLY:O	2.20	0.42
38:n:91:PHE:HB2	38:n:116:PHE:CZ	2.54	0.42
39:o:53:GLY:N	39:o:56:SER:HG	2.17	0.42
40:p:57:ARG:N	40:p:57:ARG:HD3	2.33	0.42
41:q:71:LYS:CA	41:q:90:ARG:HG2	2.49	0.42
42:r:31:GLN:O	42:r:32:ALA:C	2.61	0.42
43:s:86:THR:HG22	43:s:87:LEU:H	1.80	0.42
44:t:85:ARG:O	44:t:86:PHE:CD1	2.72	0.42
45:u:6:ALA:CB	45:u:42:LEU:HD23	2.42	0.42
46:v:27:ILE:CB	46:v:50:PHE:HA	2.49	0.42
46:v:55:GLY:CA	46:v:75:GLU:CB	2.97	0.42
47:w:35:HIS:CE1	47:w:36:ARG:O	2.71	0.42
48:x:13:LEU:C	48:x:17:LEU:HG	2.43	0.42
49:y:41:PRO:O	49:y:44:ARG:HD3	2.19	0.42
1:A:9:GLU:HG2	1:A:62:ARG:NE	2.34	0.42
2:B:24:THR:CG2	2:B:65:LEU:HD12	2.49	0.42
2:B:61:GLN:HA	2:B:64:LYS:CE	2.48	0.42
3:C:43:ALA:HB1	3:C:49:GLY:CA	2.50	0.42
4:D:43:VAL:HG21	4:D:58:ILE:CB	2.48	0.42
5:E:23:SER:CB	5:E:33:GLN:HG2	2.49	0.42
7:G:30:ILE:HG12	7:G:52:MET:CE	2.47	0.42
7:G:65:ILE:HG13	7:G:69:LYS:CE	2.49	0.42
9:I:41:G:O2'	9:I:621:A:N1	2.47	0.42
9:I:59:A:N7	9:I:107:G:H4'	2.34	0.42
9:I:393:G:H2'	9:I:394:C:C6	2.54	0.42
9:I:431:A:C2	9:I:432:G:H1'	2.54	0.42
9:I:578:A:C6	9:I:762:G:C6	3.07	0.42
9:I:607:A:C5	9:I:608:A:C1'	3.02	0.42
9:I:641:A:H3'	9:I:642:C:H6	1.79	0.42
9:I:646:C:C2	9:I:647:A:C8	3.07	0.42
9:I:653:G:C2	9:I:654:A:H1'	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:681:G:C2	9:I:682:G:C8	3.07	0.42
9:I:704:G:N1	9:I:705:A:H1'	2.34	0.42
9:I:744:G:O2'	9:I:745:A:H5'	2.18	0.42
9:I:776:A:H2'	9:I:777:G:C8	2.54	0.42
9:I:857:G:H1	9:I:868:G:H3'	1.84	0.42
9:I:858:G:H2'	9:I:859:A:C5'	2.49	0.42
9:I:910:U:H2'	9:I:911:C:H6	1.83	0.42
9:I:936:A:H5'	26:b:78:ARG:NH2	2.34	0.42
9:I:1073:G:O2'	21:W:100:ASN:HB2	2.18	0.42
9:I:1163:G:H2'	9:I:1164:U:O4'	2.18	0.42
9:I:1214:G:N3	9:I:1214:G:C2'	2.80	0.42
9:I:1349:A:H2	26:b:32:ASP:O	2.02	0.42
9:I:1378:G:C6	26:b:1:PRO:HG3	2.54	0.42
9:I:1429:A:C2'	9:I:1430:A:O5'	2.67	0.42
9:I:1464:A:H3'	9:I:1465:G:H8	1.83	0.42
9:I:1610:G:H2'	48:x:58:GLU:OE1	2.19	0.42
9:I:1612:U:C5'	48:x:57:ASN:ND2	2.73	0.42
9:I:1632:G:N3	9:I:1632:G:C2'	2.81	0.42
9:I:1632:G:C2	9:I:1633:U:C5	3.07	0.42
9:I:1640:C:O2'	9:I:1641:G:P	2.76	0.42
9:I:1662:U:C4'	9:I:1663:C:C5	2.86	0.42
9:I:1666:U:H2'	9:I:1667:A:O4'	2.19	0.42
9:I:1696:A:N6	9:I:2305:G:C2	2.87	0.42
9:I:1773:G:C6	9:I:1774:C:C5	3.07	0.42
9:I:1778:A:C5'	9:I:1779:A:OP1	2.68	0.42
9:I:1851:C:C2	9:I:1852:A:N6	2.87	0.42
9:I:1881:G:N1	9:I:1882:A:C2	2.86	0.42
9:I:1950:G:H1	9:I:1954:A:P	2.42	0.42
9:I:2057:C:O2'	9:I:2058:U:H5'	2.19	0.42
9:I:2214:U:N3	9:I:2216:A:O5'	2.52	0.42
9:I:2302:A:C6	9:I:2303:U:C4	3.07	0.42
9:I:2303:U:O2'	9:I:2304:A:H5'	2.19	0.42
9:I:2307:U:N3	9:I:2308:G:N7	2.67	0.42
9:I:2314:C:C2	9:I:2315:C:C5	3.08	0.42
9:I:2333:A:C4	9:I:2334:G:N7	2.88	0.42
9:I:2362:G:C2	9:I:2363:A:C8	3.06	0.42
9:I:2365:C:H6	9:I:2365:C:OP2	2.02	0.42
9:I:2503:A:H2'	9:I:2504:A:O5'	2.19	0.42
9:I:2544:A:C6	9:I:2545:G:N7	2.87	0.42
9:I:2613:U:O2'	9:I:2614:G:H5'	2.18	0.42
9:I:2655:C:H2'	9:I:2656:G:H8	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2667:U:C6	9:I:2668:U:H1'	2.53	0.42
9:I:2800:C:C5	9:I:3100:C:C4	3.08	0.42
9:I:2800:C:H5	9:I:3100:C:C4	2.37	0.42
9:I:2874:G:C2	9:I:2875:G:N7	2.87	0.42
9:I:2904:G:C2'	9:I:2905:U:H5'	2.49	0.42
9:I:2913:A:N3	9:I:2915:G:C8	2.87	0.42
9:I:2948:C:H41	20:V:73:ASN:ND2	2.17	0.42
9:I:3008:G:O2'	9:I:3051:C:C4'	2.67	0.42
9:I:3022:A:C5	9:I:3023:G:H1'	2.54	0.42
9:I:3064:A:C4	9:I:3065:A:C8	3.07	0.42
9:I:3161:G:OP1	17:S:7:MET:HE3	2.18	0.42
9:I:3265:C:C2	9:I:3266:A:C8	3.07	0.42
9:I:3297:A:H2'	9:I:3298:C:C5'	2.42	0.42
9:I:3389:C:N4	9:I:3390:G:N7	2.67	0.42
9:I:3510:U:C2	9:I:3511:U:C6	3.07	0.42
9:I:3585:C:H5''	9:I:3586:U:OP2	2.19	0.42
9:I:3585:C:C5'	9:I:3586:U:C2'	2.97	0.42
9:I:3586:U:H3'	9:I:3586:U:OP2	2.19	0.42
9:I:3760:A:C3'	9:I:3761:A:H5'	2.49	0.42
9:I:3789:C:O2'	9:I:3790:U:C5'	2.67	0.42
9:I:3859:G:O2'	9:I:3860:A:C1'	2.67	0.42
9:I:3877:G:N1	9:I:3878:U:C4	2.87	0.42
9:I:3964:G:C5	9:I:3975:G:N2	2.87	0.42
9:I:3975:G:O2'	9:I:3976:A:C5'	2.67	0.42
9:I:4002:G:N2	9:I:4003:G:H1'	2.34	0.42
9:I:4024:A:N6	15:O:155:PRO:CB	2.82	0.42
9:I:4115:G:H2'	9:I:4116:U:H6	1.82	0.42
9:I:4130:C:H1'	12:L:38:LYS:NZ	2.34	0.42
9:I:4136:G:C2	9:I:4137:G:N7	2.87	0.42
9:I:4179:G:OP1	39:o:72:VAL:HG11	2.18	0.42
9:I:4186:G:C6	9:I:4187:G:C5	3.07	0.42
9:I:4213:G:OP1	39:o:95:LYS:HG3	2.19	0.42
9:I:4228:A:H61	9:I:4264:G:C1'	2.31	0.42
9:I:4252:A:C2	15:O:70:LEU:CD2	2.87	0.42
9:I:4254:C:O2	15:O:138:GLN:NE2	2.53	0.42
9:I:4299:C:H2'	9:I:4299:C:O2	2.18	0.42
9:I:4341:U:C5	9:I:4342:G:C5	3.07	0.42
9:I:4348:A:C6	9:I:4349:C:C4	3.07	0.42
9:I:4396:A:H62	9:I:4397:A:H2	1.65	0.42
10:J:24:U:H2'	10:J:24:U:O2	2.18	0.42
10:J:39:U:H3'	10:J:40:G:C5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:62:ARG:NE	11:K:81:GLU:OE1	2.53	0.42
11:K:80:LEU:CD1	11:K:89:ASN:ND2	2.82	0.42
11:K:154:ALA:HB1	11:K:176:ARG:HD3	2.01	0.42
11:K:229:HIS:CG	11:K:230:PRO:HD2	2.54	0.42
12:L:172:VAL:HG12	12:L:175:LEU:CD2	2.46	0.42
14:N:30:VAL:CG1	14:N:168:LEU:HG	2.49	0.42
14:N:33:ILE:HG22	14:N:153:ILE:HG22	2.00	0.42
14:N:111:ARG:NH2	14:N:132:ARG:N	2.67	0.42
14:N:113:PHE:O	14:N:114:ARG:HG2	2.19	0.42
15:O:26:LYS:HD2	15:O:31:GLU:OE1	2.19	0.42
16:R:32:LEU:O	16:R:33:ALA:C	2.62	0.42
16:R:100:VAL:O	16:R:103:ILE:HG13	2.20	0.42
20:V:84:GLY:N	20:V:85:PRO:HD2	2.35	0.42
21:W:93:TRP:HH2	21:W:98:LEU:HD21	1.84	0.42
21:W:178:ILE:HG23	21:W:179:PRO:HD2	2.02	0.42
23:Y:10:LEU:O	23:Y:14:GLU:HG2	2.20	0.42
23:Y:12:ARG:HG2	23:Y:33:ILE:CA	2.27	0.42
23:Y:13:ARG:CB	23:Y:62:ARG:HH12	2.32	0.42
25:a:85:ILE:HG23	25:a:86:ARG:N	2.34	0.42
26:b:68:VAL:HG13	26:b:134:VAL:HG12	2.01	0.42
29:e:50:SER:OG	29:e:54:ASN:HB2	2.18	0.42
30:f:46:SER:CB	30:f:79:PRO:HG3	2.47	0.42
31:g:3:VAL:HG22	31:g:7:VAL:CG2	2.49	0.42
31:g:4:ASN:O	31:g:8:ARG:HG3	2.19	0.42
36:l:53:ASP:O	36:l:56:LEU:HB2	2.19	0.42
37:m:24:ARG:CB	37:m:36:ARG:HD3	2.48	0.42
38:n:67:LYS:HG2	38:n:101:ARG:HG2	1.93	0.42
39:o:4:ILE:CB	39:o:7:LEU:HD12	2.49	0.42
39:o:30:TRP:CH2	39:o:39:LEU:CD1	3.02	0.42
40:p:109:VAL:C	40:p:111:LYS:N	2.75	0.42
41:q:62:GLU:CB	41:q:99:THR:HG21	2.41	0.42
41:q:82:HIS:O	41:q:82:HIS:CG	2.72	0.42
42:r:92:ARG:HA	42:r:92:ARG:HE	1.79	0.42
43:s:47:VAL:C	43:s:49:LYS:N	2.76	0.42
44:t:23:LYS:H	44:t:36:GLU:N	2.08	0.42
44:t:45:GLN:O	44:t:55:GLY:CA	2.66	0.42
45:u:77:VAL:O	45:u:77:VAL:HG13	2.18	0.42
46:v:9:LYS:O	46:v:11:LEU:HG	2.19	0.42
46:v:27:ILE:CA	46:v:49:LEU:O	2.67	0.42
47:w:29:LEU:CD1	47:w:30:PRO:HD2	2.40	0.42
48:x:38:GLN:C	48:x:40:HIS:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:y:30:ARG:O	49:y:33:HIS:CB	2.67	0.42
1:A:53:ASP:OD1	1:A:58:ARG:HD3	2.19	0.42
2:B:16:ARG:HG3	2:B:16:ARG:HH11	1.84	0.42
2:B:62:ARG:HH22	9:I:2215:A:C1'	2.30	0.42
3:C:25:ARG:HA	9:I:108:A:O2'	2.19	0.42
4:D:5:LEU:CB	4:D:22:ILE:HD12	2.36	0.42
5:E:42:ARG:HG2	25:a:86:ARG:NH2	2.34	0.42
7:G:30:ILE:CG1	7:G:52:MET:CE	2.97	0.42
9:I:34:G:C2'	9:I:35:C:H5'	2.49	0.42
9:I:645:G:H2'	9:I:646:C:C6	2.54	0.42
9:I:689:G:C3'	9:I:690:G:C8	3.02	0.42
9:I:884:G:C2'	9:I:885:G:H5'	2.49	0.42
9:I:893:G:O2'	9:I:894:G:H5'	2.19	0.42
9:I:900:A:N7	9:I:901:G:H1'	2.34	0.42
9:I:916:G:C2	9:I:917:A:C5	3.08	0.42
9:I:1082:U:H3'	9:I:1083:G:H8	1.68	0.42
9:I:1105:G:H4'	22:X:171:ARG:HG3	2.00	0.42
9:I:1115:U:O2'	28:d:107:GLN:CG	2.67	0.42
9:I:1164:U:H2'	9:I:1165:G:H8	1.84	0.42
9:I:1191:C:H6	9:I:1191:C:P	2.42	0.42
9:I:1495:A:N1	9:I:1505:A:C6	2.88	0.42
9:I:1548:G:N1	9:I:1678:G:O6	2.52	0.42
9:I:1609:C:H6	9:I:1609:C:O5'	2.02	0.42
9:I:1624:G:N2	9:I:1628:C:C2	2.87	0.42
9:I:1720:G:H5''	9:I:1721:A:P	2.58	0.42
9:I:1758:G:N1	9:I:1759:G:C5	2.87	0.42
9:I:1766:G:C4	9:I:1767:C:O4'	2.72	0.42
9:I:1860:U:H2'	9:I:1861:G:C8	2.54	0.42
9:I:1874:A:C1'	9:I:1901:A:C6	3.02	0.42
9:I:2029:A:C2	9:I:3517:C:C6	3.07	0.42
9:I:2031:C:C5	9:I:3529:G:C2	3.07	0.42
9:I:2077:G:C2	9:I:2078:G:C5	3.07	0.42
9:I:2081:C:C2	9:I:2082:A:N7	2.88	0.42
9:I:2089:U:H2'	9:I:2090:A:H8	1.84	0.42
9:I:2099:A:O3'	13:M:24:ASN:ND2	2.53	0.42
9:I:2127:A:C6	9:I:2137:A:O5'	2.72	0.42
9:I:2160:C:OP1	13:M:94:GLN:NE2	2.48	0.42
9:I:2173:C:H2'	9:I:2174:G:C5'	2.48	0.42
9:I:2209:U:H2'	9:I:2210:U:H6	1.82	0.42
9:I:2211:G:C4	9:I:2221:A:C4	3.08	0.42
9:I:2248:G:H5''	9:I:2249:A:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2281:A:P	11:K:216:ARG:HH22	2.42	0.42
9:I:2405:A:C6	19:U:9:PHE:CG	3.07	0.42
9:I:2481:C:C5'	49:y:10:ARG:CZ	2.97	0.42
9:I:2542:A:C2	9:I:2543:C:C6	3.08	0.42
9:I:2609:G:C4	9:I:2610:G:H8	2.38	0.42
9:I:2664:C:C2'	9:I:2665:G:O5'	2.67	0.42
9:I:2753:G:C2	9:I:2754:A:C5	3.07	0.42
9:I:2760:G:N2	9:I:3506:G:C4	2.87	0.42
9:I:2868:G:C6	9:I:2869:U:C4	3.07	0.42
9:I:2982:C:H3'	9:I:2982:C:H6	1.84	0.42
9:I:2984:A:H61	11:K:96:LYS:HZ3	1.68	0.42
9:I:2984:A:N6	11:K:96:LYS:HD2	2.33	0.42
9:I:3036:U:H2'	9:I:3037:G:O5'	2.19	0.42
9:I:3071:C:O3'	9:I:3072:U:O4'	2.37	0.42
9:I:3217:G:C5	9:I:3218:G:C4	3.07	0.42
9:I:3243:A:H2'	9:I:3244:G:O5'	2.19	0.42
9:I:3286:G:OP1	11:K:204:LEU:CD2	2.67	0.42
9:I:3292:U:C4	9:I:3313:A:H2	2.37	0.42
9:I:3314:U:O5'	9:I:3315:A:C8	2.73	0.42
9:I:3321:U:O2	9:I:3321:U:H2'	2.17	0.42
9:I:3371:A:C5	9:I:3372:G:C5	3.08	0.42
9:I:3385:G:C2	9:I:3386:C:C2	3.07	0.42
9:I:3418:C:C3'	9:I:3419:C:H6	2.30	0.42
9:I:3482:G:C6	9:I:3483:G:C5	3.07	0.42
9:I:3747:G:N3	9:I:3747:G:H2'	2.35	0.42
9:I:3794:C:O2	9:I:3794:C:C2'	2.66	0.42
9:I:3798:G:O2'	14:N:129:MET:O	2.37	0.42
9:I:3909:G:N3	9:I:3910:C:C6	2.87	0.42
9:I:3957:C:N3	9:I:3958:G:C8	2.88	0.42
9:I:4024:A:C6	15:O:155:PRO:CG	2.96	0.42
9:I:4030:G:C4	9:I:4031:U:C5	3.07	0.42
9:I:4054:A:H2'	9:I:4055:U:O4'	2.19	0.42
9:I:4071:A:O2'	9:I:4072:G:OP2	2.37	0.42
9:I:4094:A:N7	11:K:235:GLU:CD	2.77	0.42
9:I:4131:U:H3'	9:I:4132:G:H8	1.81	0.42
9:I:4141:U:O2	9:I:4142:G:C8	2.72	0.42
9:I:4171:G:O2'	9:I:4172:C:H5'	2.20	0.42
9:I:4431:U:O2'	9:I:4432:U:H5'	2.20	0.42
10:J:17:G:C3'	10:J:18:C:C5	3.00	0.42
10:J:74:G:C2'	45:u:88:HIS:NE2	2.75	0.42
10:J:111:G:C6	10:J:112:C:N4	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:127:ASN:O	11:K:191:LEU:HB2	2.18	0.42
12:L:110:THR:N	12:L:202:ILE:N	2.56	0.42
13:M:6:LYS:HB2	13:M:120:VAL:O	2.19	0.42
13:M:14:VAL:CG1	13:M:19:PHE:CE2	3.02	0.42
13:M:29:HIS:O	13:M:33:VAL:HG23	2.19	0.42
14:N:23:SER:C	14:N:25:MET:H	2.27	0.42
14:N:136:ILE:HG13	14:N:137:PHE:N	2.33	0.42
16:R:41:LYS:O	16:R:44:TYR:CB	2.66	0.42
17:S:9:ASN:O	17:S:84:CYS:N	2.48	0.42
18:T:82:LEU:CD2	18:T:116:VAL:CG2	2.95	0.42
19:U:17:ASN:OD1	19:U:97:GLN:CG	2.67	0.42
20:V:18:GLN:CA	20:V:22:ARG:NH1	2.81	0.42
20:V:93:GLY:C	20:V:116:VAL:HG21	2.44	0.42
21:W:94:LEU:HD12	21:W:145:LEU:HD11	2.01	0.42
22:X:155:ARG:H	22:X:162:ALA:HA	1.83	0.42
23:Y:11:SER:HB3	23:Y:17:ASP:HA	2.02	0.42
23:Y:101:VAL:CG1	23:Y:106:PHE:HB2	2.48	0.42
26:b:17:PHE:CE2	26:b:46:LEU:HD11	2.54	0.42
28:d:33:GLU:HA	28:d:42:ARG:HE	1.83	0.42
31:g:19:ASN:OD1	31:g:19:ASN:O	2.37	0.42
31:g:23:LEU:HD11	31:g:28:GLN:CA	2.48	0.42
32:h:58:GLU:O	32:h:61:LYS:HB2	2.20	0.42
32:h:63:VAL:C	32:h:68:LEU:HB2	2.43	0.42
34:j:5:LYS:CB	34:j:21:THR:HG22	2.49	0.42
34:j:45:ILE:CG2	34:j:47:LYS:HE3	2.49	0.42
35:k:42:LEU:N	35:k:42:LEU:CD2	2.82	0.42
36:l:3:ILE:HG22	36:l:4:LYS:N	2.33	0.42
36:l:13:PHE:HE2	36:l:57:VAL:HG22	1.84	0.42
38:n:6:ARG:O	38:n:10:ALA:HB2	2.19	0.42
38:n:39:ILE:HG22	38:n:40:ALA:O	2.18	0.42
40:p:81:GLY:CA	40:p:116:LEU:CA	2.97	0.42
41:q:11:GLN:HG2	41:q:39:LEU:HD22	2.02	0.42
43:s:16:VAL:O	43:s:16:VAL:HG23	2.18	0.42
44:t:12:VAL:HG12	44:t:13:LEU:N	2.34	0.42
44:t:39:ASN:ND2	44:t:62:ALA:HB3	2.34	0.42
44:t:44:HIS:N	44:t:57:ILE:HG23	2.34	0.42
45:u:5:ASN:O	45:u:42:LEU:HD23	2.20	0.42
45:u:29:ILE:HG13	45:u:38:LEU:N	2.34	0.42
46:v:27:ILE:HB	46:v:49:LEU:C	2.44	0.42
47:w:36:ARG:O	47:w:45:PHE:CD1	2.71	0.42
1:A:60:ARG:HG2	9:I:979:C:O2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:62:ARG:NH2	9:I:2215:A:C1'	2.80	0.42
3:C:24:SER:CB	9:I:133:G:H1	2.32	0.42
3:C:34:GLU:HG2	3:C:35:ARG:N	2.35	0.42
4:D:17:SER:HB2	9:I:272:U:H4'	2.01	0.42
5:E:43:ALA:HB1	5:E:48:LEU:HD11	2.01	0.42
9:I:56:G:O6	9:I:355:A:N6	2.52	0.42
9:I:119:A:C4	9:I:121:G:C5	3.08	0.42
9:I:123:C:C2'	9:I:124:U:O4'	2.66	0.42
9:I:245:A:H1'	9:I:246:G:H1'	2.00	0.42
9:I:408:U:O2'	9:I:409:G:H5'	2.19	0.42
9:I:411:A:N7	9:I:430:A:N1	2.68	0.42
9:I:493:G:C4	9:I:495:A:C8	3.06	0.42
9:I:520:G:H1'	9:I:535:C:O2'	2.19	0.42
9:I:545:A:H5''	23:Y:69:ARG:NH1	2.34	0.42
9:I:651:U:O4	9:I:751:G:O2'	2.36	0.42
9:I:677:U:C4'	9:I:777:G:C5'	2.97	0.42
9:I:678:C:H2'	9:I:679:C:C6	2.54	0.42
9:I:701:A:C6	9:I:3341:A:C1'	2.89	0.42
9:I:722:U:C2	9:I:854:U:O3'	2.72	0.42
9:I:781:A:H4'	9:I:4419:G:C4'	2.49	0.42
9:I:809:C:O2'	9:I:810:C:H5'	2.20	0.42
9:I:910:U:H2'	9:I:911:C:C6	2.53	0.42
9:I:1002:G:H2'	9:I:1003:A:O3'	2.20	0.42
9:I:1045:A:H3'	9:I:1046:G:C8	2.55	0.42
9:I:1079:A:P	24:Z:43:LYS:HZ3	2.41	0.42
9:I:1131:C:C3'	9:I:1132:G:C8	3.03	0.42
9:I:1332:A:O2'	9:I:1333:G:H5'	2.20	0.42
9:I:1360:G:H8	9:I:1360:G:O5'	2.02	0.42
9:I:1391:G:H2'	9:I:1392:U:H6	1.78	0.42
9:I:1405:U:C6	9:I:1406:5MC:HM53	2.54	0.42
9:I:1479:A:N7	9:I:4328:G:C2	2.80	0.42
9:I:1521:A:C6	9:I:2020:G:C6	3.07	0.42
9:I:1564:A:C2	9:I:1565:U:C5	3.07	0.42
9:I:1567:U:C2	9:I:1588:G:N1	2.87	0.42
9:I:1608:G:C5	9:I:1609:C:C4	3.08	0.42
9:I:1658:U:C6	9:I:1658:U:OP2	2.72	0.42
9:I:1726:A:H8	9:I:1726:A:O5'	2.02	0.42
9:I:1739:C:C2'	9:I:1740:C:O5'	2.67	0.42
9:I:1799:A:C6	9:I:1800:A:N6	2.87	0.42
9:I:1819:G:O5'	13:M:132:LYS:HE3	2.19	0.42
9:I:1850:G:C5	9:I:1851:C:N3	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1884:A:N3	9:I:1884:A:H2'	2.33	0.42
9:I:1897:U:N3	9:I:1898:C:N4	2.68	0.42
9:I:1912:A:N3	9:I:1913:C:H1'	2.34	0.42
9:I:2041:A:H3'	9:I:2042:C:H6	1.85	0.42
9:I:2054:U:H2'	9:I:2055:G:H5'	2.01	0.42
9:I:2072:A:C3'	9:I:2073:U:O4'	2.68	0.42
9:I:2135:C:O2'	9:I:2139:U:H5'	2.18	0.42
9:I:2153:U:O5'	9:I:2153:U:H6	2.02	0.42
9:I:2160:C:H2'	9:I:2161:A:C8	2.48	0.42
9:I:2306:C:O2	9:I:2307:U:C6	2.72	0.42
9:I:2346:U:H5	9:I:2348:C:OP2	2.03	0.42
9:I:2460:G:C4	9:I:2461:U:C5	3.07	0.42
9:I:2507:C:C2'	9:I:2508:A:C5'	2.87	0.42
9:I:2531:G:C2	9:I:2532:G:C5	3.08	0.42
9:I:2618:G:N3	37:m:38:GLY:OXT	2.52	0.42
9:I:2633:G:H5'	16:R:25:LEU:CG	2.13	0.42
9:I:2821:A:N3	9:I:2822:A:C8	2.88	0.42
9:I:2828:G:N3	9:I:2828:G:H2'	2.34	0.42
9:I:2945:C:C4	9:I:2952:U:N3	2.88	0.42
9:I:2950:G:C5	9:I:2951:U:C2	3.08	0.42
9:I:2963:A:C2	9:I:2964:A:C4	3.07	0.42
9:I:2965:G:N2	9:I:2966:C:H1'	2.34	0.42
9:I:3011:G:N2	9:I:3012:C:H1'	2.35	0.42
9:I:3023:G:C2'	9:I:3024:G:C5'	2.95	0.42
9:I:3048:U:C4	9:I:3128:A:C8	3.07	0.42
9:I:3063:A:C3'	9:I:3064:A:H8	2.29	0.42
9:I:3264:G:C5	9:I:3265:C:C5	3.07	0.42
9:I:3294:C:N3	9:I:3312:U:O2	2.51	0.42
9:I:3314:U:C2	11:K:158:GLY:HA3	2.54	0.42
9:I:3315:A:O2'	9:I:3316:C:H5'	2.20	0.42
9:I:3383:A:O2'	9:I:3384:A:C5'	2.66	0.42
9:I:3383:A:C5	9:I:3384:A:C4	3.08	0.42
9:I:3388:C:O2	9:I:3388:C:H2'	2.18	0.42
9:I:3392:U:H5''	9:I:3393:A:P	2.58	0.42
9:I:3397:G:C2	9:I:3398:G:C8	3.08	0.42
9:I:3490:C:OP1	9:I:3490:C:H2'	2.18	0.42
9:I:3530:C:O2	9:I:3530:C:H2'	2.19	0.42
9:I:3586:U:O2	9:I:3587:G:C8	2.72	0.42
9:I:3719:A:C4'	9:I:3720:C:C5'	2.97	0.42
9:I:3772:A:P	19:U:10:ARG:NH2	2.92	0.42
9:I:3781:A:O2'	9:I:3782:A:C5'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3812:G:OP2	9:I:3813:G:P	2.78	0.42
9:I:3814:U:O3'	9:I:3816:A:N7	2.52	0.42
9:I:3820:C:O2'	9:I:3822:A:C5	2.73	0.42
9:I:3887:U:OP1	36:I:26:ALA:HB1	2.19	0.42
9:I:3895:U:H2'	9:I:3897:C:C5	2.55	0.42
9:I:3964:G:C6	9:I:3965:A:C8	3.07	0.42
9:I:3965:A:N1	9:I:3974:C:C4	2.88	0.42
9:I:3972:A:C4	9:I:3973:U:C5	3.07	0.42
9:I:4026:G:N7	9:I:4027:U:C6	2.87	0.42
9:I:4029:G:C5	9:I:4030:G:N7	2.87	0.42
9:I:4032:C:H6	9:I:4032:C:O5'	2.01	0.42
9:I:4033:C:H2'	9:I:4034:C:C5'	2.49	0.42
9:I:4113:C:O2'	9:I:4114:C:H5'	2.19	0.42
9:I:4128:A:H2'	9:I:4129:A:H5'	2.01	0.42
9:I:4162:G:N3	15:O:109:SER:HB3	2.35	0.42
9:I:4188:G:C2	9:I:4210:C:C2	3.08	0.42
9:I:4193:C:C5	9:I:4194:A:N7	2.88	0.42
9:I:4235:A:N6	9:I:4236:G:C2	2.88	0.42
9:I:4243:A:O3'	15:O:1:SER:HB2	2.19	0.42
9:I:4282:C:C4	9:I:4283:C:C4	3.07	0.42
9:I:4326:U:C6	9:I:4328:G:N3	2.88	0.42
9:I:4335:C:O2	9:I:4335:C:C2'	2.67	0.42
10:J:33:A:N1	10:J:47:U:O2	2.53	0.42
10:J:56:A:H4'	14:N:26:GLN:OE1	2.18	0.42
10:J:112:C:C3'	10:J:113:C:C6	3.02	0.42
11:K:123:ILE:O	11:K:124:LYS:HG3	2.18	0.42
11:K:140:VAL:HG12	11:K:189:ALA:HB1	2.01	0.42
11:K:268:ARG:CD	11:K:269:ARG:O	2.56	0.42
13:M:131:THR:CB	13:M:163:ASN:CB	2.89	0.42
13:M:176:ASP:OD2	13:M:178:VAL:HG22	2.19	0.42
14:N:31:GLU:OE2	14:N:157:THR:CA	2.68	0.42
15:O:23:ILE:HD11	15:O:36:LEU:HA	2.01	0.42
15:O:26:LYS:O	15:O:26:LYS:CG	2.68	0.42
15:O:61:TRP:O	15:O:64:ALA:CB	2.65	0.42
15:O:86:LEU:HD21	15:O:147:LEU:CB	2.49	0.42
16:R:31:GLU:HB3	16:R:142:ILE:HD11	2.02	0.42
16:R:119:PHE:O	16:R:122:LEU:CD1	2.68	0.42
17:S:39:ILE:O	17:S:59:LYS:CA	2.68	0.42
17:S:99:ILE:HD13	17:S:115:ILE:HD13	2.01	0.42
18:T:111:ILE:C	18:T:131:ALA:CB	2.92	0.42
19:U:30:SER:HB3	19:U:31:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:34:LYS:O	19:U:129:THR:N	2.43	0.42
19:U:124:LEU:HD12	19:U:128:THR:HG21	2.01	0.42
20:V:12:ARG:HB2	20:V:20:MET:SD	2.59	0.42
20:V:114:GLU:HB3	20:V:118:ARG:HG2	1.94	0.42
21:W:129:LYS:O	21:W:132:LEU:HD23	2.19	0.42
21:W:160:VAL:N	21:W:181:PHE:O	2.46	0.42
22:X:63:ILE:CG1	22:X:65:VAL:HG23	2.38	0.42
22:X:126:ARG:HH22	22:X:190:THR:HA	1.84	0.42
23:Y:3:TYR:OH	23:Y:10:LEU:HD21	2.19	0.42
27:c:19:ALA:CB	27:c:21:LYS:HG3	2.44	0.42
27:c:58:LEU:HD12	27:c:58:LEU:O	2.19	0.42
27:c:110:MET:HG3	27:c:111:THR:H	1.84	0.42
31:g:42:LYS:NZ	31:g:90:PRO:CG	2.83	0.42
35:k:31:LEU:N	35:k:31:LEU:HD22	2.34	0.42
35:k:44:VAL:CG1	35:k:45:SER:N	2.76	0.42
38:n:31:PRO:HG3	38:n:101:ARG:NH2	2.35	0.42
38:n:115:GLN:O	38:n:116:PHE:CB	2.66	0.42
39:o:99:LEU:CA	39:o:102:ARG:CD	2.87	0.42
43:s:23:ALA:O	43:s:24:MET:C	2.62	0.42
46:v:36:HIS:NE2	46:v:67:ARG:HG2	2.33	0.42
47:w:26:ARG:HD2	47:w:27:ARG:N	2.34	0.42
47:w:64:ASP:O	47:w:67:LEU:HG	2.19	0.42
49:y:7:THR:HB	49:y:55:LYS:CG	2.50	0.42
49:y:56:VAL:O	49:y:56:VAL:HG13	2.20	0.42
1:A:51:PRO:CA	9:I:1014:G:H5'	2.50	0.42
3:C:2:VAL:CG2	9:I:228:U:O2'	2.63	0.42
5:E:34:ARG:O	5:E:38:ARG:HG3	2.20	0.42
8:H:18:PHE:CG	30:f:85:ILE:HG21	2.54	0.42
9:I:71:A:N6	9:I:72:C:N3	2.67	0.42
9:I:125:G:C6	9:I:235:A:N6	2.87	0.42
9:I:278:A:H5'	9:I:280:G:O4'	2.20	0.42
9:I:418:C:OP1	9:I:512:C:H1'	2.19	0.42
9:I:621:A:H2'	9:I:622:C:H5'	2.01	0.42
9:I:726:G:C4	9:I:728:A:OP2	2.72	0.42
9:I:737:C:C2'	9:I:738:C:O4'	2.64	0.42
9:I:873:G:C2	9:I:874:U:C6	3.07	0.42
9:I:991:U:H5'	9:I:992:G:N7	2.35	0.42
9:I:1054:A:O3'	9:I:1195:A:H2	2.03	0.42
9:I:1095:C:H1'	9:I:1170:A:P	2.59	0.42
9:I:1147:U:O3'	28:d:13:ALA:HB1	2.19	0.42
9:I:1162:A:C6	9:I:1173:G:C6	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1247:A:C5	9:I:1289:G:C2	3.07	0.42
9:I:1342:G:C1'	28:d:120:ARG:NH1	2.83	0.42
9:I:1404:G:N3	9:I:1404:G:H2'	2.35	0.42
9:I:1434:G:C3'	9:I:1435:U:H6	2.32	0.42
9:I:1537:C:H2'	9:I:1538:A:H8	1.84	0.42
9:I:1667:A:H3'	9:I:1668:G:H8	1.85	0.42
9:I:1668:G:N3	9:I:1669:G:C8	2.87	0.42
9:I:1919:U:H2'	9:I:1920:C:C5	2.52	0.42
9:I:1952:G:H2'	9:I:1953:A:H8	1.81	0.42
9:I:2039:G:H5''	9:I:2040:C:OP2	2.20	0.42
9:I:2112:G:N3	9:I:2112:G:H2'	2.34	0.42
9:I:2121:A:P	18:T:99:ASN:ND2	2.92	0.42
9:I:2134:C:C2	9:I:2135:C:C6	3.07	0.42
9:I:2169:G:C5	9:I:2301:G:C6	3.08	0.42
9:I:2241:U:H2'	9:I:2242:A:C8	2.52	0.42
9:I:2274:G:H5''	11:K:47:ARG:NH1	2.34	0.42
9:I:2296:C:C2	9:I:2297:G:C8	3.08	0.42
9:I:2405:A:C8	19:U:9:PHE:CE2	3.08	0.42
9:I:2409:C:C2	9:I:2410:G:C8	3.07	0.42
9:I:2450:G:OP1	19:U:86:LYS:HG3	2.19	0.42
9:I:2451:C:O2'	9:I:2452:U:C5'	2.65	0.42
9:I:2523:A:H2'	9:I:2524:C:O4'	2.20	0.42
9:I:2545:G:C5	9:I:2546:C:C6	3.07	0.42
9:I:2618:G:C6	9:I:2619:G:C2	3.07	0.42
9:I:2701:C:OP2	9:I:2701:C:H6	2.02	0.42
9:I:2898:C:O2	9:I:2898:C:H2'	2.17	0.42
9:I:2910:G:O2'	9:I:2911:C:C6	2.73	0.42
9:I:2938:G:N2	9:I:2939:G:C1'	2.82	0.42
9:I:3004:G:O2'	9:I:3005:G:C5'	2.67	0.42
9:I:3018:G:C2'	9:I:3019:A:C8	3.02	0.42
9:I:3070:U:O2'	9:I:3071:C:H5'	2.19	0.42
9:I:3090:A:O2'	9:I:3091:A:O4'	2.28	0.42
9:I:3171:A:H3'	9:I:3172:A:H8	1.84	0.42
9:I:3203:U:O2	9:I:3203:U:H2'	2.19	0.42
9:I:3281:A:C2	9:I:3282:C:C6	3.07	0.42
9:I:3413:A:H2'	9:I:3414:C:H5'	2.01	0.42
9:I:3579:U:O2	9:I:3579:U:H2'	2.19	0.42
9:I:3780:G:OP2	34:j:27:LYS:CE	2.68	0.42
9:I:3823:U:C2	9:I:3824:G:C5	3.08	0.42
9:I:3964:G:C5	9:I:3975:G:C2	3.07	0.42
9:I:4007:A:C6	9:I:4008:U:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4017:G:N2	9:I:4018:G:H1'	2.34	0.42
9:I:4025:A:C6	9:I:4026:G:C5	3.08	0.42
9:I:4115:G:C5	9:I:4116:U:C4	3.07	0.42
9:I:4169:A:OP1	17:S:31:ARG:HG2	2.19	0.42
9:I:4180:G:C3'	9:I:4181:U:H6	2.29	0.42
9:I:4202:G:H2'	9:I:4203:G:C8	2.49	0.42
9:I:4202:G:N3	9:I:4203:G:C8	2.88	0.42
9:I:4210:C:O2'	9:I:4211:C:O5'	2.38	0.42
9:I:4212:G:O2'	39:o:95:LYS:HG2	2.19	0.42
9:I:4240:U:H1'	15:O:138:GLN:CB	2.49	0.42
9:I:4242:A:P	15:O:69:ALA:HB2	2.59	0.42
9:I:4324:C:P	12:L:59:ARG:HH12	2.41	0.42
9:I:4428:C:C3'	30:f:110:ARG:HH22	2.32	0.42
10:J:42:C:C2'	14:N:91:ARG:HB3	2.48	0.42
10:J:46:C:H6	10:J:46:C:P	2.41	0.42
10:J:71:G:N2	10:J:102:U:OP2	2.52	0.42
10:J:78:G:H3'	10:J:79:U:C6	2.53	0.42
11:K:30:ALA:HB3	11:K:31:PRO:HD3	2.01	0.42
11:K:107:LYS:N	11:K:195:GLY:HA3	2.33	0.42
11:K:140:VAL:CA	11:K:161:VAL:HB	2.50	0.42
11:K:166:ARG:CB	11:K:171:VAL:HG12	2.50	0.42
12:L:5:VAL:HG22	12:L:202:ILE:CA	2.49	0.42
13:M:1:MET:CB	13:M:14:VAL:HG22	2.47	0.42
14:N:35:LEU:N	14:N:153:ILE:HG23	2.34	0.42
14:N:121:PHE:CA	14:N:126:ASN:O	2.66	0.42
14:N:125:GLY:HA3	14:N:161:SER:O	2.19	0.42
15:O:51:PHE:O	15:O:61:TRP:CE3	2.72	0.42
15:O:154:GLU:OE2	15:O:157:LYS:C	2.61	0.42
20:V:21:PHE:CD2	20:V:47:VAL:HG22	2.55	0.42
20:V:33:ILE:CD1	33:i:54:ILE:HD12	2.37	0.42
20:V:39:PRO:CA	20:V:42:LYS:HB2	2.48	0.42
21:W:6:MET:HA	21:W:209:LEU:CD2	2.49	0.42
21:W:162:ASP:O	21:W:165:HIS:HB3	2.20	0.42
21:W:176:LEU:HD12	21:W:178:ILE:CD1	2.49	0.42
24:Z:47:VAL:N	24:Z:48:PRO:HD2	2.34	0.42
25:a:4:TYR:CG	25:a:89:VAL:HG21	2.54	0.42
25:a:21:MET:HE1	25:a:24:ARG:NH2	2.32	0.42
31:g:81:ILE:CD1	31:g:96:THR:HA	2.50	0.42
31:g:106:VAL:HB	31:g:109:ARG:CG	2.48	0.42
33:i:3:GLN:O	33:i:3:GLN:HG3	2.16	0.42
38:n:25:LEU:HD22	38:n:114:LEU:CD2	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:n:25:LEU:CD2	38:n:89:VAL:HG11	2.47	0.42
38:n:86:ILE:HG22	38:n:114:LEU:CD1	2.50	0.42
39:o:22:GLY:HA2	39:o:96:LEU:HD22	1.99	0.42
39:o:49:ILE:H	39:o:95:LYS:NZ	2.17	0.42
40:p:84:LYS:HB3	40:p:115:ALA:O	2.19	0.42
40:p:87:VAL:HG12	40:p:89:ILE:H	1.84	0.42
40:p:95:ALA:C	40:p:97:ILE:N	2.77	0.42
41:q:5:PHE:CE2	41:q:22:LEU:HD21	2.54	0.42
41:q:30:GLY:C	41:q:62:GLU:OE1	2.63	0.42
42:r:19:LEU:HD23	42:r:19:LEU:C	2.44	0.42
43:s:30:ILE:HB	43:s:87:LEU:HD21	2.01	0.42
43:s:39:THR:HG22	43:s:42:GLU:OE1	2.19	0.42
43:s:56:GLU:HA	43:s:88:LYS:HE2	2.01	0.42
44:t:48:VAL:HG22	44:t:52:ASN:CB	2.50	0.42
45:u:24:ASN:OD1	45:u:43:ASP:OD1	2.37	0.42
46:v:13:VAL:HG12	46:v:14:LYS:N	2.35	0.42
46:v:15:ARG:O	46:v:59:PHE:HE1	2.03	0.42
48:x:2:ALA:HB2	48:x:51:ARG:NH1	2.34	0.42
49:y:6:ILE:HA	49:y:57:GLU:CD	2.45	0.42
49:y:50:VAL:CG2	49:y:54:VAL:CG1	2.97	0.42
1:A:68:ARG:HA	9:I:1048:U:N3	2.34	0.42
3:C:70:ARG:HB3	9:I:375:G:O5'	2.19	0.42
4:D:43:VAL:HG21	4:D:58:ILE:HG21	1.99	0.42
9:I:67:G:H1	9:I:100:A:H61	1.67	0.42
9:I:110:G:C6	9:I:329:C:N4	2.87	0.42
9:I:278:A:H5''	9:I:280:G:C5'	2.50	0.42
9:I:294:C:C2	9:I:295:U:C5	3.07	0.42
9:I:412:G:H22	9:I:428:U:P	2.36	0.42
9:I:435:C:H2'	9:I:436:U:C6	2.54	0.42
9:I:581:C:C2	9:I:759:G:C6	3.08	0.42
9:I:614:G:N1	9:I:624:U:N3	2.22	0.42
9:I:673:G:O6	9:I:715:A:N1	2.52	0.42
9:I:701:A:N1	9:I:3340:G:N3	2.68	0.42
9:I:813:A:N6	9:I:815:A:H1'	2.34	0.42
9:I:835:G:O6	9:I:849:U:O4	2.38	0.42
9:I:837:G:H2'	9:I:838:C:C6	2.54	0.42
9:I:960:U:C2	9:I:961:C:C5	3.08	0.42
9:I:990:U:C4'	9:I:991:U:C5'	2.93	0.42
9:I:993:A:H2'	9:I:994:C:H5'	2.02	0.42
9:I:1011:A:N1	9:I:1017:G:C6	2.87	0.42
9:I:1065:C:C2	9:I:1190:A:N6	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1131:C:H2'	9:I:1141:G:H22	1.84	0.42
9:I:1133:G:O3'	9:I:1134:U:O4'	2.37	0.42
9:I:1195:A:H3'	9:I:1196:A:H5''	2.02	0.42
9:I:1313:C:H2'	9:I:1314:U:C5	2.53	0.42
9:I:1373:A:C2'	9:I:1374:A:O5'	2.68	0.42
9:I:1420:G:H2'	9:I:1421:G:C4'	2.49	0.42
9:I:1464:A:C3'	9:I:1465:G:H8	2.32	0.42
9:I:1488:G:C2'	9:I:4285:G:OP2	2.68	0.42
9:I:1495:A:C8	9:I:1495:A:O5'	2.72	0.42
9:I:1496:A:C2	9:I:1504:U:N3	2.87	0.42
9:I:1560:G:N2	9:I:1574:A:C2'	2.82	0.42
9:I:1585:G:C6	9:I:1598:G:N1	2.87	0.42
9:I:1655:A:C6	9:I:1656:A:C5	3.07	0.42
9:I:1686:G:N1	9:I:1687:G:C5	2.87	0.42
9:I:1690:A:OP2	9:I:1705:G:N2	2.52	0.42
9:I:1693:U:H2'	9:I:1694:G:C5'	2.50	0.42
9:I:1779:A:P	9:I:1779:A:C8	3.13	0.42
9:I:1791:G:H3'	9:I:1792:U:C6	2.55	0.42
9:I:1905:U:H4'	9:I:1906:G:O5'	2.18	0.42
9:I:1964:U:N3	9:I:2288:A:C6	2.75	0.42
9:I:2045:U:H2'	9:I:2047:A:O5'	2.18	0.42
9:I:2050:C:C4	9:I:2051:G:N7	2.88	0.42
9:I:2096:U:H2'	9:I:2097:G:H8	1.85	0.42
9:I:2145:C:O5'	9:I:2147:G:C6	2.72	0.42
9:I:2148:G:H2'	9:I:2149:G:O4'	2.20	0.42
9:I:2219:C:H3'	9:I:2220:U:C6	2.54	0.42
9:I:2266:U:H2'	9:I:2267:U:C5	2.54	0.42
9:I:2357:G:C6	9:I:2358:G:C6	3.07	0.42
9:I:2368:U:H5''	9:I:2369:G:OP1	2.19	0.42
9:I:2466:A:P	9:I:2468:G:H5''	2.60	0.42
9:I:2471:G:C6	9:I:2472:G:N7	2.87	0.42
9:I:2503:A:O4'	40:p:58:GLN:CD	2.61	0.42
9:I:2518:G:C5	9:I:2519:G:C5	3.08	0.42
9:I:2634:C:OP1	16:R:24:THR:CG2	2.53	0.42
9:I:2664:C:C6	9:I:2664:C:OP2	2.73	0.42
9:I:2683:A:H2'	9:I:2684:G:O4'	2.19	0.42
9:I:2789:C:P	20:V:71:ARG:CZ	3.08	0.42
9:I:2813:C:H2'	9:I:2814:C:H6	1.85	0.42
9:I:2869:U:C2	9:I:2870:C:C6	3.07	0.42
9:I:2881:A:C6	9:I:2882:G:C5	3.07	0.42
9:I:2937:U:O2	9:I:2938:G:C8	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2938:G:C6	9:I:2939:G:C8	3.08	0.42
9:I:2975:U:C2	9:I:3005:G:N1	2.87	0.42
9:I:3014:U:C4	9:I:3015:G:C5	3.07	0.42
9:I:3061:G:C4	11:K:26:GLY:N	2.78	0.42
9:I:3076:C:H2'	9:I:3077:A:C4'	2.49	0.42
9:I:3095:G:O2'	9:I:3096:U:O5'	2.37	0.42
9:I:3147:G:H5''	20:V:2:ARG:HD3	2.02	0.42
9:I:3358:U:C6	9:I:3359:U:O4	2.73	0.42
9:I:3360:A:N1	9:I:3370:A:C1'	2.83	0.42
9:I:3382:G:H4'	9:I:3383:A:H5'	2.01	0.42
9:I:3399:C:C2'	9:I:3400:G:OP2	2.67	0.42
9:I:3408:C:OP2	9:I:3409:3TD:OP2	2.36	0.42
9:I:3541:C:H2'	9:I:3542:G:H8	1.84	0.42
9:I:3719:A:OP1	9:I:3720:C:H5'	2.20	0.42
9:I:3764:A:C6	9:I:3765:G:C4	3.07	0.42
9:I:3780:G:N2	9:I:3840:A:C6	2.88	0.42
9:I:3781:A:C6	9:I:3783:G:N7	2.87	0.42
9:I:3790:U:O3'	9:I:3814:U:O4	2.36	0.42
9:I:3856:C:O5'	36:l:39:ARG:NH2	2.53	0.42
9:I:3888:C:C2	9:I:3889:C:C6	3.07	0.42
9:I:3961:C:C5'	37:m:8:LYS:HZ2	2.33	0.42
9:I:4025:A:N3	9:I:4153:G:C4'	2.83	0.42
9:I:4234:A:C2'	9:I:4235:A:H5'	2.49	0.42
9:I:4262:U:H2'	9:I:4263:U:O5'	2.20	0.42
9:I:4292:U:O4'	9:I:4293:A:C6	2.73	0.42
9:I:4343:U:O4	39:o:20:ARG:CZ	2.67	0.42
10:J:32:G:N2	10:J:34:C:H5	2.17	0.42
10:J:92:C:C2	10:J:93:A:N7	2.88	0.42
11:K:261:ARG:CA	11:K:264:LYS:NZ	2.77	0.42
12:L:38:LYS:CD	12:L:45:TYR:OH	2.66	0.42
12:L:48:ILE:HG22	12:L:90:PHE:CA	2.49	0.42
12:L:51:THR:HB	12:L:79:LEU:HG	2.02	0.42
12:L:106:LYS:HB3	12:L:175:LEU:N	2.34	0.42
12:L:188:LEU:HD11	39:o:7:LEU:CD2	2.49	0.42
13:M:197:GLU:HB3	13:M:198:GLU:OE1	2.19	0.42
14:N:7:TYR:O	14:N:11:VAL:CG2	2.68	0.42
14:N:12:VAL:HG22	14:N:29:ARG:HH22	1.85	0.42
14:N:33:ILE:CG2	14:N:153:ILE:CG2	2.98	0.42
14:N:35:LEU:HD23	14:N:151:LEU:HD11	2.01	0.42
15:O:25:ILE:O	15:O:31:GLU:HA	2.19	0.42
15:O:36:LEU:HD22	15:O:42:VAL:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:169:ARG:NH2	37:m:30:GLU:HA	2.34	0.42
16:R:17:VAL:CB	16:R:139:VAL:HG22	2.41	0.42
17:S:78:ARG:N	39:o:70:GLU:N	2.68	0.42
18:T:137:ALA:C	18:T:139:GLY:H	2.28	0.42
19:U:73:ILE:HD13	19:U:91:TYR:CE2	2.55	0.42
19:U:96:ILE:HD12	19:U:100:LYS:HE2	2.01	0.42
20:V:48:VAL:C	20:V:52:ILE:HG12	2.43	0.42
20:V:69:ARG:HG2	20:V:70:THR:H	1.85	0.42
20:V:86:ARG:NE	20:V:117:ASP:HB3	2.31	0.42
21:W:44:VAL:N	21:W:45:PRO:HD2	2.35	0.42
21:W:101:TRP:CE2	21:W:105:ARG:HD2	2.55	0.42
21:W:219:ARG:O	21:W:222:ARG:HG3	2.20	0.42
22:X:52:SER:O	22:X:53:ARG:HG3	2.19	0.42
22:X:137:VAL:HG13	22:X:148:ILE:HG21	2.01	0.42
23:Y:61:ARG:NH1	23:Y:68:GLU:HG2	2.34	0.42
24:Z:3:GLN:O	24:Z:3:GLN:CG	2.66	0.42
24:Z:6:LEU:HD12	24:Z:6:LEU:N	2.34	0.42
24:Z:104:ALA:HA	24:Z:107:GLU:CG	2.50	0.42
26:b:48:THR:HA	26:b:51:GLN:OE1	2.20	0.42
26:b:56:SER:OG	26:b:57:GLU:N	2.52	0.42
26:b:94:ARG:O	26:b:98:LEU:HG	2.20	0.42
30:f:4:VAL:HG11	30:f:67:ILE:HG12	1.99	0.42
36:l:22:LYS:HB2	36:l:46:LYS:CB	2.50	0.42
39:o:53:GLY:O	39:o:56:SER:CB	2.67	0.42
40:p:82:LEU:HD23	40:p:112:ALA:HB2	1.93	0.42
41:q:6:GLN:CA	41:q:10:LYS:O	2.59	0.42
41:q:54:VAL:O	41:q:55:ASP:C	2.62	0.42
41:q:75:VAL:C	41:q:76:LYS:HG3	2.45	0.42
43:s:11:LEU:HD22	48:x:25:PHE:CZ	2.54	0.42
45:u:80:HIS:CB	45:u:83:LYS:CG	2.98	0.42
45:u:80:HIS:NE2	45:u:87:GLN:OE1	2.52	0.42
9:I:129:A:N6	9:I:233:C:O4'	2.53	0.42
9:I:335:A:H2'	9:I:336:G:O5'	2.20	0.42
9:I:337:A:C2'	9:I:338:C:O4'	2.65	0.42
9:I:523:G:H2'	9:I:523:G:N3	2.34	0.42
9:I:611:C:O2	9:I:612:C:C5	2.73	0.42
9:I:621:A:O5'	9:I:622:C:H5	2.03	0.42
9:I:674:A:C2'	9:I:675:A:O4'	2.54	0.42
9:I:780:A:C8	9:I:781:A:C8	3.07	0.42
9:I:795:C:H2'	9:I:795:C:O2	2.19	0.42
9:I:848:G:H2'	9:I:849:U:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:966:5MC:HM53	9:I:967:A:O2'	2.20	0.42
9:I:1073:G:N3	9:I:1100:A:H2	2.17	0.42
9:I:1128:C:H2'	9:I:1138:G:N7	2.35	0.42
9:I:1128:C:H2'	9:I:1138:G:C8	2.55	0.42
9:I:1247:A:H2	28:d:69:ILE:CD1	2.33	0.42
9:I:1329:U:H5''	9:I:1330:G:OP2	2.19	0.42
9:I:1356:A:N6	9:I:1362:A:C2	2.88	0.42
9:I:1517:G:H2'	9:I:1518:U:H6	1.84	0.42
9:I:1636:G:H3'	9:I:1636:G:P	2.60	0.42
9:I:1646:A:H2'	9:I:1647:C:O5'	2.19	0.42
9:I:1653:U:C4	9:I:1654:U:C5	3.08	0.42
9:I:1734:U:H2'	9:I:1735:U:O5'	2.20	0.42
9:I:1824:A:C6	9:I:1825:G:C5	3.08	0.42
9:I:1858:U:H2'	9:I:1859:G:C8	2.54	0.42
9:I:1964:U:C6	9:I:1964:U:O5'	2.72	0.42
9:I:1969:G:H2'	9:I:1970:A:OP2	2.20	0.42
9:I:1980:A:C5'	44:t:43:LYS:NZ	2.82	0.42
9:I:2078:G:H5''	9:I:2079:G:OP2	2.20	0.42
9:I:2205:A:C2	9:I:2227:A:C1'	3.02	0.42
9:I:2232:C:C2'	9:I:2233:G:O5'	2.68	0.42
9:I:2322:G:C4	9:I:2323:C:C5	3.07	0.42
9:I:2470:G:C2	9:I:2471:G:C8	3.08	0.42
9:I:2487:G:H1'	41:q:91:GLN:OE1	2.20	0.42
9:I:2522:A:C8	9:I:2620:A:N6	2.88	0.42
9:I:2536:G:C6	9:I:2608:C:C4	3.08	0.42
9:I:2567:A:H4'	9:I:3968:U:O4'	2.20	0.42
9:I:2732:G:H2'	9:I:2733:G:H8	1.84	0.42
9:I:2756:A:C2	9:I:2757:U:C2	3.08	0.42
9:I:2814:C:N4	9:I:2827:G:C6	2.88	0.42
9:I:2823:U:C3'	9:I:2824:C:H5'	2.46	0.42
9:I:2834:U:OP1	43:s:19:LYS:NZ	2.51	0.42
9:I:2892:C:C3'	9:I:2893:C:C6	3.01	0.42
9:I:2955:C:OP2	9:I:2955:C:C6	2.73	0.42
9:I:3075:G:H3'	9:I:3076:C:C6	2.55	0.42
9:I:3134:A:H2'	9:I:3135:A:O4'	2.19	0.42
9:I:3201:G:C3'	9:I:3202:C:H6	2.33	0.42
9:I:3214:U:C2'	9:I:3215:G:O4'	2.67	0.42
9:I:3340:G:C4	9:I:3341:A:C8	3.08	0.42
9:I:3348:A:N6	9:I:3382:G:O4'	2.52	0.42
9:I:3429:G:N2	9:I:3458:G:C4	2.88	0.42
9:I:3495:C:H1'	9:I:4183:U:N3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3710:G:H2'	9:I:3710:G:N3	2.35	0.42
9:I:3741:A:C6	9:I:3742:C:C4	3.08	0.42
9:I:3774:G:C2'	9:I:3882:A:N1	2.82	0.42
9:I:3777:C:H2'	9:I:3778:A:O4'	2.20	0.42
9:I:3849:G:C5'	46:v:14:LYS:HD2	2.50	0.42
9:I:3870:A:H1'	38:n:110:ARG:HH12	1.84	0.42
9:I:3876:G:OP1	9:I:3876:G:H3'	2.19	0.42
9:I:3886:A:C4	9:I:3887:U:C5	3.08	0.42
9:I:3956:C:C2	9:I:3957:C:C6	3.08	0.42
9:I:3965:A:H5''	9:I:3966:G:OP2	2.19	0.42
9:I:4121:G:N1	9:I:4271:G:C6	2.87	0.42
9:I:4191:G:C2'	9:I:4192:U:O4'	2.68	0.42
9:I:4321:C:H2'	9:I:4322:G:H5'	2.01	0.42
9:I:4422:MA6:H103	9:I:4423:MA6:C10	2.49	0.42
10:J:39:U:O2'	10:J:42:C:C5	2.73	0.42
10:J:43:G:H4'	10:J:44:A:C2	2.55	0.42
10:J:64:U:O4	10:J:66:G:O6	2.37	0.42
10:J:67:C:O2	10:J:67:C:C2'	2.67	0.42
10:J:93:A:OP1	45:u:19:ARG:CD	2.67	0.42
11:K:4:LYS:NZ	11:K:14:HIS:HA	2.32	0.42
11:K:144:GLU:CA	11:K:151:GLY:HA2	2.48	0.42
11:K:164:VAL:CG2	11:K:180:MET:SD	3.08	0.42
14:N:111:ARG:CZ	14:N:133:GLU:H	2.32	0.42
15:O:132:LEU:CD2	15:O:144:ALA:HB2	2.42	0.42
15:O:145:ALA:O	15:O:149:ALA:N	2.41	0.42
16:R:15:TRP:HD1	16:R:123:LYS:HE2	1.84	0.42
16:R:32:LEU:O	16:R:35:ARG:N	2.53	0.42
16:R:57:LEU:HD13	16:R:128:ASN:OD1	2.20	0.42
16:R:86:GLN:HE22	16:R:88:THR:HG22	1.85	0.42
17:S:98:ARG:HA	17:S:98:ARG:HD3	1.87	0.42
21:W:113:ASP:HA	21:W:116:THR:OG1	2.19	0.42
22:X:19:SER:HG	22:X:21:TRP:NE1	2.15	0.42
22:X:155:ARG:HG3	22:X:192:TYR:CD2	2.54	0.42
23:Y:14:GLU:OE2	23:Y:58:GLN:CG	2.68	0.42
24:Z:16:VAL:HG23	24:Z:19:GLY:H	1.85	0.42
24:Z:52:GLN:HG2	24:Z:56:GLU:CG	2.50	0.42
25:a:47:LEU:N	25:a:56:LYS:HA	2.35	0.42
27:c:8:ASP:O	27:c:12:ARG:HB3	2.19	0.42
27:c:9:MET:SD	27:c:26:MET:HB3	2.60	0.42
27:c:124:ILE:HG21	27:c:127:TYR:HE1	1.84	0.42
28:d:48:PRO:HD3	28:d:77:ARG:CG	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:e:1:ARG:NH2	29:e:75:PRO:HG3	2.28	0.42
29:e:76:THR:O	29:e:80:VAL:N	2.53	0.42
31:g:38:THR:O	31:g:48:LEU:HD12	2.20	0.42
32:h:63:VAL:HG11	32:h:71:GLU:HG3	2.01	0.42
36:l:5:THR:HG22	36:l:6:VAL:N	2.35	0.42
37:m:12:ARG:O	37:m:12:ARG:HG2	2.20	0.42
39:o:22:GLY:HA3	39:o:96:LEU:HD22	1.98	0.42
41:q:49:ILE:HG13	41:q:49:ILE:O	2.20	0.42
44:t:17:ASP:OD1	44:t:20:LYS:HE3	2.20	0.42
46:v:7:GLU:OE1	46:v:8:ALA:O	2.38	0.42
47:w:38:TRP:HB2	47:w:45:PHE:CE1	2.54	0.42
49:y:12:ALA:HB2	49:y:53:MET:CE	2.50	0.42
1:A:1:ALA:H3	1:A:6:LYS:HD3	1.85	0.42
1:A:4:SER:OG	9:I:1215:A:OP2	2.28	0.42
1:A:8:ARG:O	1:A:12:ARG:CG	2.66	0.42
1:A:66:THR:HG23	1:A:82:LYS:HE3	2.01	0.42
1:A:94:GLY:HA2	22:X:17:TRP:NE1	2.35	0.42
2:B:53:ARG:HH12	9:I:727:A:N6	2.18	0.42
6:F:56:VAL:O	6:F:56:VAL:HG13	2.20	0.42
8:H:39:LYS:HA	30:f:110:ARG:NH1	2.34	0.42
9:I:268:C:C2	9:I:269:A:N7	2.88	0.42
9:I:291:G:H1'	9:I:607:A:N6	2.34	0.42
9:I:438:U:H4'	23:Y:118:SER:O	2.20	0.42
9:I:521:C:O2'	9:I:522:A:H5'	2.19	0.42
9:I:543:G:C6	9:I:544:C:C4	3.08	0.42
9:I:544:C:P	23:Y:58:GLN:NE2	2.90	0.42
9:I:685:U:O2	9:I:686:A:C4	2.72	0.42
9:I:694:A:P	30:f:42:GLY:HA3	2.59	0.42
9:I:704:G:N1	30:f:32:TRP:CD2	2.88	0.42
9:I:707:C:C1'	30:f:26:GLN:O	2.68	0.42
9:I:764:G:C6	9:I:811:G:C4	3.08	0.42
9:I:880:G:C5	9:I:881:C:C5	3.08	0.42
9:I:933:C:H42	9:I:937:A:N6	2.07	0.42
9:I:951:U:H4'	9:I:963:A:N1	2.35	0.42
9:I:1140:C:O2'	9:I:1141:G:P	2.77	0.42
9:I:1433:A:H2'	9:I:1434:G:H1'	1.96	0.42
9:I:1463:G:C4	9:I:4343:U:C4	3.08	0.42
9:I:1468:A:N7	9:I:4339:U:O4	2.53	0.42
9:I:1477:U:C4	9:I:1478:A:N7	2.87	0.42
9:I:1491:G:C5	9:I:1492:C:C4	3.08	0.42
9:I:1496:A:C5	9:I:1497:C:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1564:A:N6	9:I:1591:A:H61	2.18	0.42
9:I:1583:A:N1	9:I:1603:A:N7	2.67	0.42
9:I:1735:U:H2'	9:I:1736:C:H6	1.84	0.42
9:I:1736:C:N3	9:I:1737:C:C5	2.88	0.42
9:I:1760:G:C4	9:I:1761:G:C8	3.07	0.42
9:I:1850:G:O2'	9:I:1851:C:C4'	2.68	0.42
9:I:1852:A:H8	9:I:1852:A:OP2	2.03	0.42
9:I:1925:G:C2	9:I:1926:C:C5	3.08	0.42
9:I:1965:G:C5	9:I:1966:A:N1	2.87	0.42
9:I:2011:U:C3'	9:I:2011:U:C6	3.03	0.42
9:I:2019:U:O3'	42:r:25:ARG:CZ	2.64	0.42
9:I:2138:G:O2'	9:I:2139:U:O4'	2.30	0.42
9:I:2269:U:C2	9:I:2270:G:C8	3.08	0.42
9:I:2325:A:C2'	9:I:2326:U:O5'	2.67	0.42
9:I:2334:G:N3	9:I:2335:C:C6	2.87	0.42
9:I:2346:U:N1	9:I:2347:U:C5	2.88	0.42
9:I:2400:U:H2'	9:I:2401:G:C5'	2.49	0.42
9:I:2422:A:H4'	49:y:38:GLU:OE1	2.20	0.42
9:I:2469:A:H1'	9:I:2484:A:N6	2.34	0.42
9:I:2535:G:C2	9:I:2536:G:C5	3.07	0.42
9:I:2622:G:OP1	9:I:2622:G:C4'	2.66	0.42
9:I:2634:C:O5'	16:R:24:THR:CG2	2.67	0.42
9:I:2697:U:C4	9:I:2698:A:C6	3.08	0.42
9:I:2704:G:C2	9:I:2731:A:C6	3.07	0.42
9:I:2758:A:N7	9:I:2759:A:C6	2.88	0.42
9:I:2901:G:N3	9:I:2901:G:C2'	2.83	0.42
9:I:2959:G:C8	9:I:2959:G:O5'	2.72	0.42
9:I:2963:A:P	9:I:3016:A:N6	2.91	0.42
9:I:3006:C:O3'	9:I:3007:U:O4'	2.38	0.42
9:I:3085:A:O5'	9:I:3085:A:H8	2.01	0.42
9:I:3194:A:N3	9:I:3260:G:OP1	2.52	0.42
9:I:3340:G:C2'	9:I:3341:A:H8	2.25	0.42
9:I:3344:G:C5	9:I:3345:U:C4	3.08	0.42
9:I:3371:A:C6	9:I:3372:G:C6	3.08	0.42
9:I:3381:C:O2	9:I:3382:G:N7	2.53	0.42
9:I:3467:G:O2'	9:I:3468:C:H5'	2.20	0.42
9:I:3586:U:O4'	9:I:3587:G:C1'	2.67	0.42
9:I:3593:U:C2	9:I:3685:A:N1	2.87	0.42
9:I:3674:U:H2'	9:I:3675:U:C6	2.55	0.42
9:I:3680:G:C2	9:I:3681:U:N3	2.87	0.42
9:I:3680:G:C6	9:I:3681:U:O4	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3698:G:C2	9:I:3699:A:C8	3.07	0.42
9:I:3710:G:N3	9:I:3711:G:C8	2.88	0.42
9:I:3774:G:H4'	9:I:3821:A:O4'	2.19	0.42
9:I:3778:A:H2'	9:I:3779:C:C5'	2.49	0.42
9:I:3808:A:N3	9:I:3809:G:N7	2.68	0.42
9:I:3810:G:H5'	14:N:124:ARG:HH12	1.83	0.42
9:I:3838:U:C6	34:j:33:LEU:HD22	2.55	0.42
9:I:3839:G:C1'	9:I:3876:G:H5'	2.49	0.42
9:I:3841:C:H1'	34:j:36:PHE:HB2	2.01	0.42
9:I:3848:C:C1'	46:v:25:SER:HA	2.49	0.42
9:I:3862:C:C2'	9:I:3863:A:O5'	2.67	0.42
9:I:3873:G:C4	9:I:3874:C:C5	3.08	0.42
9:I:3899:G:C2	9:I:3906:A:N7	2.87	0.42
9:I:3963:A:C2'	9:I:3964:G:H5'	2.50	0.42
9:I:3968:U:C5	9:I:4023:G:C2	3.08	0.42
9:I:4028:A:C2	9:I:4029:G:C1'	3.03	0.42
9:I:4032:C:C4'	37:m:1:MET:O	2.67	0.42
9:I:4064:G:C2'	9:I:4065:U:O4'	2.66	0.42
9:I:4098:U:H2'	9:I:4098:U:O2	2.19	0.42
9:I:4139:G:O3'	9:I:4227:A:OP1	2.37	0.42
9:I:4177:C:C4'	12:L:13:ARG:CZ	2.97	0.42
9:I:4212:G:O2'	39:o:95:LYS:CG	2.68	0.42
9:I:4214:U:C2'	9:I:4215:A:C8	3.02	0.42
9:I:4216:G:C4	9:I:4217:C:C5	3.08	0.42
9:I:4245:G:OP2	15:O:2:ARG:NE	2.53	0.42
9:I:4293:A:C6	9:I:4295:G:C6	3.08	0.42
9:I:4396:A:N6	9:I:4397:A:H2	2.18	0.42
10:J:16:C:H41	10:J:107:A:C1'	2.20	0.42
10:J:35:C:OP2	10:J:43:G:O6	2.37	0.42
10:J:65:A:N6	10:J:106:G:C3'	2.83	0.42
11:K:36:ASN:ND2	11:K:59:GLN:HE22	2.18	0.42
11:K:36:ASN:HD21	11:K:61:TYR:HB2	1.84	0.42
11:K:80:LEU:HD13	11:K:89:ASN:HB2	2.02	0.42
11:K:140:VAL:CB	11:K:161:VAL:HB	2.49	0.42
12:L:31:ALA:HB1	12:L:96:ILE:O	2.20	0.42
12:L:110:THR:H	12:L:201:LEU:C	2.24	0.42
13:M:159:LEU:HD21	13:M:162:ARG:NH2	2.16	0.42
15:O:86:LEU:O	15:O:130:ILE:HB	2.20	0.42
16:R:43:GLU:HA	40:p:63:ARG:HH12	1.84	0.42
17:S:88:ASN:OD1	17:S:90:ASN:N	2.46	0.42
18:T:106:GLU:OE1	18:T:107:PHE:CE1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:V:30:ARG:NE	20:V:30:ARG:C	2.77	0.42
23:Y:77:GLU:HA	23:Y:80:ARG:HB3	2.00	0.42
23:Y:78:ALA:HB1	23:Y:89:LEU:HB2	2.01	0.42
26:b:69:ARG:HD2	26:b:99:ALA:CB	2.48	0.42
26:b:123:LEU:O	26:b:127:ALA:N	2.52	0.42
26:b:137:ARG:HH21	26:b:138:GLU:CD	2.26	0.42
27:c:80:PRO:HA	27:c:83:ARG:CZ	2.49	0.42
27:c:107:LYS:HA	27:c:107:LYS:HD2	1.85	0.42
30:f:10:HIS:HD2	30:f:23:THR:HG22	1.84	0.42
30:f:23:THR:HB	30:f:29:ALA:HA	2.01	0.42
32:h:44:ILE:O	32:h:47:LEU:HB2	2.19	0.42
35:k:27:GLY:O	35:k:28:ARG:C	2.61	0.42
36:l:28:LEU:HA	36:l:28:LEU:HD13	1.77	0.42
37:m:4:ARG:HE	37:m:35:GLN:NE2	2.14	0.42
39:o:46:VAL:HA	39:o:59:THR:O	2.20	0.42
40:p:33:VAL:O	40:p:34:ALA:C	2.61	0.42
40:p:47:ARG:O	40:p:48:ASP:C	2.63	0.42
40:p:57:ARG:HH11	40:p:57:ARG:H	1.66	0.42
41:q:20:VAL:HG13	41:q:98:ILE:HD11	2.00	0.42
43:s:10:VAL:CG1	43:s:11:LEU:HD12	2.48	0.42
43:s:17:SER:C	43:s:19:LYS:N	2.76	0.42
45:u:80:HIS:HB2	45:u:83:LYS:CG	2.50	0.42
46:v:36:HIS:HB3	46:v:69:PHE:CD2	2.54	0.42
1:A:7:ALA:O	1:A:8:ARG:C	2.63	0.42
1:A:53:ASP:OD2	9:I:1217:C:P	2.78	0.42
3:C:62:GLY:N	9:I:226:G:N3	2.64	0.42
3:C:63:GLN:HB2	9:I:226:G:C4	2.51	0.42
7:G:22:ARG:HD2	7:G:62:LYS:HZ2	1.84	0.42
9:I:6:A:C4	9:I:297:A:C6	3.08	0.42
9:I:53:C:C2'	9:I:53:C:O2	2.67	0.42
9:I:143:G:N3	9:I:143:G:H2'	2.35	0.42
9:I:291:G:C2'	9:I:292:G:O5'	2.67	0.42
9:I:364:U:H3'	9:I:364:U:O2	2.20	0.42
9:I:400:C:O2'	9:I:620:A:H2'	2.20	0.42
9:I:515:PSU:O2'	9:I:518:C:N3	2.50	0.42
9:I:553:A:C2	9:I:554:U:C4	3.07	0.42
9:I:705:A:C6	9:I:706:U:C4	3.08	0.42
9:I:795:C:H5'	30:f:117:VAL:HG12	2.00	0.42
9:I:823:G:N3	27:c:2:MET:HE1	2.35	0.42
9:I:901:G:H2'	9:I:902:G:H8	1.84	0.42
9:I:963:A:C5	9:I:964:U:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1092:A:C6	9:I:1094:U:C1'	3.02	0.42
9:I:1283:C:H3'	9:I:1284:A:C8	2.54	0.42
9:I:1376:A:H2'	26:b:6:ILE:HD13	2.01	0.42
9:I:1432:A:C3'	9:I:1433:A:C8	3.02	0.42
9:I:1466:C:C3'	9:I:1467:U:O4'	2.68	0.42
9:I:1486:G:H5''	9:I:1487:U:P	2.60	0.42
9:I:1528:A:C4	9:I:1529:U:O2	2.72	0.42
9:I:1606:C:H6	9:I:1606:C:O5'	2.02	0.42
9:I:1628:C:C2'	9:I:1629:C:O5'	2.68	0.42
9:I:1659:G:P	9:I:1659:G:H8	2.43	0.42
9:I:1772:A:P	9:I:1772:A:H8	2.43	0.42
9:I:1850:G:C4	9:I:1851:C:N3	2.88	0.42
9:I:1855:U:N3	9:I:1856:G:N7	2.60	0.42
9:I:1911:G:OP2	9:I:3900:A:O2'	2.31	0.42
9:I:1932:A:C6	9:I:1933:C:C4	3.08	0.42
9:I:2052:U:O2	9:I:2053:G:C8	2.73	0.42
9:I:2124:C:O2'	9:I:2125:G:H5'	2.20	0.42
9:I:2128:G:N2	9:I:2136:G:H1'	2.35	0.42
9:I:2356:G:H2'	9:I:2357:G:C8	2.54	0.42
9:I:2357:G:C4'	46:v:68:LYS:HZ1	2.33	0.42
9:I:2411:A:H2'	9:I:2412:A:O4'	2.19	0.42
9:I:2431:C:C2	9:I:2432:G:C8	3.07	0.42
9:I:2499:C:C2	9:I:2500:C:C5	3.08	0.42
9:I:2584:A:H2	9:I:2596:C:H1'	1.81	0.42
9:I:2634:C:OP1	16:R:25:LEU:CB	2.61	0.42
9:I:2790:G:HO2'	9:I:2791:C:C5'	2.32	0.42
9:I:2828:G:C4	9:I:2829:C:C5	3.07	0.42
9:I:2835:G:H1'	43:s:59:ASN:HB3	2.02	0.42
9:I:2921:A:O4'	9:I:2922:C:C5	2.73	0.42
9:I:2946:G:C5	9:I:4196:G:C6	3.08	0.42
9:I:3007:U:O3'	9:I:3008:G:O4'	2.38	0.42
9:I:3018:G:C8	9:I:3018:G:OP2	2.72	0.42
9:I:3091:A:O5'	9:I:3092:A:P	2.78	0.42
9:I:3311:G:C5	9:I:3312:U:C4	3.07	0.42
9:I:3392:U:C5'	9:I:3393:A:OP1	2.63	0.42
9:I:3415:G:C6	9:I:3416:G:N7	2.87	0.42
9:I:3449:U:C5	9:I:4046:OMU:H1'	2.54	0.42
9:I:3537:C:C2	9:I:3538:C:C5	3.07	0.42
9:I:3546:A:C2	9:I:3547:G:C8	3.08	0.42
9:I:3695:G:C6	9:I:3696:U:C4	3.08	0.42
9:I:3753:U:C1'	9:I:3921:C:C2	3.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3777:C:C5	9:I:3883:G:N9	2.88	0.42
9:I:3802:G:C8	9:I:3804:C:OP2	2.72	0.42
9:I:3809:G:H1'	14:N:124:ARG:HB3	1.94	0.42
9:I:3815:U:C5'	9:I:3816:A:OP2	2.66	0.42
9:I:3823:U:O3'	9:I:3824:G:O4'	2.38	0.42
9:I:3862:C:O2'	9:I:3863:A:O5'	2.38	0.42
9:I:4019:G:H4'	9:I:4235:A:C2	2.54	0.42
9:I:4044:G:C5	9:I:4045:C:C5	3.07	0.42
9:I:4162:G:H4'	15:O:110:HIS:CD2	2.55	0.42
9:I:4167:G:N1	9:I:4168:G:C6	2.88	0.42
9:I:4182:G:C3'	9:I:4213:G:N1	2.71	0.42
9:I:4183:U:H6	9:I:4207:U:C5	2.38	0.42
9:I:4188:G:O6	9:I:4210:C:N4	2.52	0.42
9:I:4198:C:O5'	9:I:4198:C:H6	2.02	0.42
9:I:4214:U:C5	9:I:4215:A:C5	3.08	0.42
9:I:4240:U:H5'	15:O:84:LYS:NZ	2.34	0.42
9:I:4278:U:H1'	12:L:43:ASP:OD1	2.20	0.42
9:I:4290:U:O4	9:I:4292:U:C2	2.72	0.42
9:I:4300:C:H2'	9:I:4301:U:O5'	2.19	0.42
10:J:30:C:C1'	10:J:53:G:N2	2.83	0.42
10:J:58:A:O2'	10:J:59:C:H5'	2.19	0.42
10:J:80:G:C6	10:J:95:G:C5	3.08	0.42
10:J:82:G:H4'	49:y:52:PHE:CG	2.55	0.42
11:K:73:ILE:HG22	11:K:95:TYR:HB3	2.01	0.42
11:K:91:ALA:HB2	11:K:105:ALA:CB	2.34	0.42
11:K:147:PRO:CA	11:K:186:ASP:HB3	2.50	0.42
11:K:148:GLY:HA2	11:K:188:ARG:NH2	2.35	0.42
12:L:34:VAL:CG2	12:L:48:ILE:HD12	2.49	0.42
12:L:108:ASP:N	12:L:204:LYS:O	2.53	0.42
12:L:125:TRP:O	12:L:126:ASN:HB2	2.20	0.42
13:M:65:THR:HG22	13:M:66:GLY:N	2.34	0.42
13:M:109:LEU:O	13:M:113:VAL:HG23	2.19	0.42
13:M:154:ASP:O	13:M:157:LEU:HB3	2.19	0.42
14:N:33:ILE:CG2	14:N:153:ILE:HG22	2.49	0.42
14:N:125:GLY:CA	14:N:162:ASP:HA	2.37	0.42
15:O:51:PHE:CD2	15:O:67:ALA:HB3	2.55	0.42
15:O:66:THR:O	15:O:70:LEU:CG	2.66	0.42
15:O:90:GLY:O	15:O:91:VAL:CG1	2.63	0.42
15:O:151:ARG:NH1	15:O:161:VAL:HG23	2.29	0.42
18:T:55:MET:HE2	18:T:59:ARG:HB3	2.02	0.42
18:T:85:VAL:O	18:T:98:ALA:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:T:100:ILE:HG13	18:T:101:ILE:H	1.82	0.42
20:V:31:HIS:O	20:V:120:GLU:CG	2.68	0.42
20:V:32:GLU:C	20:V:118:ARG:HH11	2.27	0.42
21:W:29:PHE:CD1	21:W:39:ASN:OD1	2.73	0.42
22:X:8:GLY:HA2	22:X:11:LEU:CD1	2.50	0.42
22:X:53:ARG:NH1	22:X:184:ASN:HD22	2.18	0.42
26:b:87:PRO:HD2	26:b:151:ALA:HB1	2.02	0.42
27:c:23:ALA:HB1	27:c:59:GLU:OE2	2.20	0.42
29:e:5:ARG:HD2	29:e:68:ARG:O	2.20	0.42
32:h:95:PRO:HD2	32:h:101:THR:HG22	2.02	0.42
33:i:43:THR:HG23	33:i:47:TYR:C	2.44	0.42
35:k:15:SER:O	35:k:16:HIS:ND1	2.52	0.42
35:k:25:LYS:CD	35:k:26:ASN:N	2.80	0.42
37:m:23:ILE:HB	37:m:37:GLN:HB2	2.01	0.42
38:n:23:THR:O	38:n:90:SER:HB2	2.19	0.42
38:n:92:ASP:OD1	38:n:92:ASP:C	2.62	0.42
39:o:45:VAL:O	39:o:61:ARG:N	2.53	0.42
40:p:95:ALA:O	40:p:97:ILE:N	2.53	0.42
41:q:68:ARG:HB2	41:q:90:ARG:CZ	2.49	0.42
41:q:97:LYS:HE3	41:q:98:ILE:O	2.19	0.42
43:s:54:GLU:CB	43:s:88:LYS:HG3	2.49	0.42
44:t:13:LEU:HD11	44:t:67:SER:O	2.20	0.42
44:t:82:VAL:CG1	44:t:93:ARG:HD2	2.47	0.42
45:u:2:PHE:CD1	45:u:50:MET:CB	3.03	0.42
45:u:83:LYS:HG3	45:u:85:LYS:HG2	2.02	0.42
46:v:27:ILE:H	46:v:50:PHE:CA	2.29	0.42
49:y:2:LYS:O	49:y:3:THR:CG2	2.58	0.42
49:y:46:MET:O	49:y:49:ALA:HB3	2.20	0.42
1:A:69:PRO:HA	9:I:981:U:OP1	2.20	0.42
2:B:2:LEU:CD1	2:B:6:ALA:CB	2.96	0.42
3:C:70:ARG:HG3	9:I:376:G:OP2	2.20	0.42
4:D:18:ILE:HG12	4:D:50:CYS:HB2	2.02	0.42
4:D:43:VAL:CG1	4:D:72:LEU:N	2.83	0.42
4:D:66:LYS:CE	9:I:251:U:H5''	2.50	0.42
5:E:7:ILE:H	25:a:45:ARG:NH2	2.16	0.42
5:E:38:ARG:HG2	9:I:734:C:O3'	2.20	0.42
9:I:30:G:O2'	9:I:47:C:N4	2.53	0.42
9:I:121:G:C2	9:I:122:U:C4	3.08	0.42
9:I:149:U:O4	9:I:170:A:OP2	2.38	0.42
9:I:150:A:H2'	9:I:151:A:O4'	2.19	0.42
9:I:227:A:H2'	9:I:228:U:O5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:293:U:H2'	9:I:294:C:H6	1.85	0.42
9:I:341:C:O2'	9:I:342:U:H5'	2.20	0.42
9:I:375:G:H2'	9:I:376:G:C8	2.54	0.42
9:I:438:U:OP2	9:I:439:C:H5	2.02	0.42
9:I:463:U:O2	9:I:467:A:C2	2.73	0.42
9:I:619:C:C2'	9:I:620:A:H5'	2.49	0.42
9:I:665:G:OP1	9:I:665:G:H8	2.03	0.42
9:I:709:G:O2'	9:I:710:G:H5'	2.19	0.42
9:I:713:G:H2'	9:I:714:A:O4'	2.20	0.42
9:I:788:U:H2'	9:I:790:G:H8	1.85	0.42
9:I:828:G:N1	9:I:857:G:H1'	2.34	0.42
9:I:1102:C:H5''	21:W:94:LEU:CD1	2.45	0.42
9:I:1210:U:H2'	9:I:1211:U:OP2	2.20	0.42
9:I:1218:A:C2'	9:I:1219:G:C8	3.02	0.42
9:I:1236:C:C3'	9:I:1237:A:H5'	2.43	0.42
9:I:1269:G:O2'	9:I:1313:C:H5'	2.19	0.42
9:I:1404:G:C6	9:I:4401:G:O6	2.72	0.42
9:I:1462:U:O4'	9:I:1464:A:O4'	2.37	0.42
9:I:1477:U:H2'	9:I:1478:A:O4'	2.20	0.42
9:I:1479:A:H5'	33:i:40:HIS:HD2	1.78	0.42
9:I:1560:G:C4'	48:x:43:LYS:NZ	2.82	0.42
9:I:1603:A:C2'	9:I:1604:A:C5'	2.94	0.42
9:I:1690:A:N6	9:I:1707:A:C8	2.88	0.42
9:I:1713:A:C2	9:I:1714:G:N2	2.88	0.42
9:I:1726:A:N1	9:I:1730:G:C6	2.88	0.42
9:I:1768:C:C2	9:I:1925:G:C6	3.08	0.42
9:I:1892:U:H2'	9:I:1893:C:H6	1.85	0.42
9:I:2044:C:N3	9:I:2045:U:H5	2.18	0.42
9:I:2225:G:H2'	9:I:2226:G:C8	2.55	0.42
9:I:2294:A:C6	9:I:2295:C:C4	3.08	0.42
9:I:2400:U:C2'	9:I:2401:G:O4'	2.47	0.42
9:I:2564:A:N1	9:I:2591:U:O2'	2.52	0.42
9:I:2630:G:N2	9:I:2631:G:C4	2.88	0.42
9:I:2837:G:C1'	9:I:3091:A:C4	2.99	0.42
9:I:2912:G:H1'	9:I:3074:A:N6	2.33	0.42
9:I:2925:A:C2'	9:I:2926:G:H5'	2.50	0.42
9:I:2934:U:H2'	9:I:2934:U:O2	2.19	0.42
9:I:2989:A:H2'	9:I:2990:A:C1'	2.50	0.42
9:I:2993:C:N3	9:I:2994:G:C6	2.87	0.42
9:I:2996:A:N3	9:I:2996:A:C2'	2.76	0.42
9:I:3160:G:C5'	17:S:7:MET:HE1	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3182:U:O2	9:I:3194:A:O4'	2.38	0.42
9:I:3201:G:H2'	9:I:3202:C:C1'	2.50	0.42
9:I:3214:U:O3'	9:I:3215:G:O4'	2.37	0.42
9:I:3247:G:O6	9:I:3250:G:C2	2.72	0.42
9:I:3285:A:O2'	11:K:205:GLY:CA	2.68	0.42
9:I:3313:A:C4'	9:I:3315:A:C4	3.03	0.42
9:I:3349:U:C3'	9:I:3350:U:C5	3.02	0.42
9:I:3352:A:N3	9:I:3379:A:C1'	2.83	0.42
9:I:3678:A:C4	9:I:3679:U:C5	3.08	0.42
9:I:3753:U:C5	9:I:3776:G:O6	2.72	0.42
9:I:3781:A:C6	9:I:3783:G:C8	3.08	0.42
9:I:3788:G:C5	9:I:3833:C:N4	2.88	0.42
9:I:3827:A:H5'	9:I:3829:A:H1'	2.02	0.42
9:I:3841:C:C2	9:I:3842:U:C5	3.08	0.42
9:I:3893:G:C2	9:I:3894:G:C8	3.08	0.42
9:I:3961:C:C2'	9:I:3962:A:H8	2.33	0.42
9:I:3968:U:O4	9:I:4023:G:C6	2.73	0.42
9:I:3973:U:C2	9:I:3974:C:C6	3.07	0.42
9:I:3977:C:H4'	19:U:51:ARG:NH1	2.34	0.42
9:I:4025:A:C6	9:I:4026:G:N7	2.88	0.42
9:I:4131:U:P	12:L:83:ARG:NH1	2.92	0.42
9:I:4177:C:N4	9:I:4221:A:C4	2.87	0.42
9:I:4221:A:C2	9:I:4222:U:C5	3.07	0.42
9:I:4255:A:H1'	15:O:142:GLN:HE22	1.80	0.42
9:I:4338:G:C8	9:I:4338:G:O5'	2.73	0.42
9:I:4341:U:P	39:o:95:LYS:NZ	2.87	0.42
9:I:4427:G:C4	9:I:4428:C:C5	3.08	0.42
10:J:34:C:N4	10:J:49:A:C1'	2.79	0.42
10:J:68:G:O6	10:J:106:G:C2	2.73	0.42
10:J:93:A:H3'	10:J:94:U:C6	2.55	0.42
11:K:100:ARG:O	11:K:101:ARG:HB3	2.20	0.42
12:L:15:PHE:CE1	39:o:77:SER:CB	3.03	0.42
12:L:39:ASP:HB2	12:L:46:ARG:NH1	2.35	0.42
12:L:73:VAL:HG22	12:L:74:GLU:N	2.33	0.42
12:L:88:GLU:O	12:L:89:GLU:CG	2.55	0.42
13:M:148:ILE:HA	13:M:187:VAL:HB	2.02	0.42
14:N:132:ARG:CD	14:N:132:ARG:H	2.29	0.42
15:O:5:LYS:HE3	15:O:5:LYS:HA	2.02	0.42
15:O:49:LEU:HD23	15:O:49:LEU:HA	1.83	0.42
15:O:121:THR:O	15:O:133:LYS:N	2.53	0.42
15:O:148:ARG:C	15:O:150:TYR:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:U:59:ARG:O	19:U:59:ARG:HG2	2.20	0.42
19:U:133:LYS:HZ2	19:U:135:VAL:HA	1.84	0.42
20:V:30:ARG:C	20:V:30:ARG:HE	2.21	0.42
20:V:33:ILE:CG1	20:V:114:GLU:CG	2.97	0.42
21:W:38:ILE:HG22	21:W:39:ASN:N	2.35	0.42
21:W:57:ILE:CG2	21:W:62:GLY:HA3	2.49	0.42
24:Z:41:TYR:CE2	24:Z:43:LYS:HE2	2.51	0.42
25:a:6:ILE:HD12	25:a:64:VAL:HG13	1.96	0.42
25:a:73:GLU:O	25:a:76:THR:OG1	2.20	0.42
26:b:34:LYS:O	26:b:38:ALA:N	2.52	0.42
27:c:71:VAL:O	27:c:71:VAL:HG13	2.19	0.42
27:c:71:VAL:HG22	27:c:73:SER:O	2.20	0.42
30:f:11:ILE:CD1	30:f:72:VAL:HG13	2.50	0.42
30:f:46:SER:C	30:f:79:PRO:HG3	2.44	0.42
33:i:10:SER:C	33:i:14:MET:HE1	2.44	0.42
35:k:25:LYS:O	35:k:26:ASN:C	2.62	0.42
38:n:67:LYS:HA	38:n:70:ALA:HB2	2.02	0.42
39:o:13:LYS:HE3	39:o:80:VAL:O	2.20	0.42
39:o:111:GLU:HG2	39:o:113:LEU:CA	2.50	0.42
40:p:78:PHE:HA	40:p:112:ALA:HB1	2.01	0.42
40:p:113:LYS:O	40:p:116:LEU:N	2.53	0.42
41:q:14:VAL:HG11	41:q:20:VAL:HG11	2.00	0.42
45:u:63:ILE:CG2	45:u:65:VAL:HG23	2.50	0.42
47:w:5:GLN:O	47:w:5:GLN:HG2	2.20	0.42
49:y:19:HIS:O	49:y:20:LYS:C	2.62	0.42
4:D:40:LYS:CD	9:I:275:G:H5''	2.50	0.41
4:D:42:HIS:HB2	9:I:253:G:OP1	2.20	0.41
5:E:23:SER:HB3	9:I:719:C:C4'	2.50	0.41
5:E:50:PRO:HA	25:a:49:TYR:CG	2.53	0.41
9:I:14:G:H4'	24:Z:20:ARG:NE	2.35	0.41
9:I:239:G:H2'	9:I:240:G:H8	1.86	0.41
9:I:284:C:C2	9:I:285:C:C5	3.08	0.41
9:I:337:A:C2'	9:I:338:C:H6	2.27	0.41
9:I:402:C:H41	23:Y:1:ALA:HB2	1.83	0.41
9:I:570:U:H5''	9:I:818:A:C4	2.55	0.41
9:I:582:A:C6	9:I:583:G:C4	3.08	0.41
9:I:802:G:P	9:I:802:G:H8	2.43	0.41
9:I:932:G:H1	9:I:934:A:H1'	1.84	0.41
9:I:934:A:C5	9:I:935:C:C6	3.08	0.41
9:I:944:G:N9	9:I:1336:G:H1'	2.35	0.41
9:I:951:U:H4'	9:I:963:A:C6	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:996:U:O2	9:I:997:C:H6	2.01	0.41
9:I:1056:G:OP1	22:X:153:SER:HB3	2.20	0.41
9:I:1103:G:C5'	21:W:110:ARG:HH12	2.33	0.41
9:I:1105:G:C5'	22:X:171:ARG:HD2	2.41	0.41
9:I:1159:G:C2	9:I:1160:C:C6	3.07	0.41
9:I:1260:A:OP2	9:I:1261:C:N4	2.46	0.41
9:I:1489:A:H1'	9:I:1490:G:N3	2.35	0.41
9:I:1576:C:H1'	48:x:54:THR:OG1	2.20	0.41
9:I:1581:G:N7	9:I:1582:U:C4	2.88	0.41
9:I:1661:A:O2'	9:I:3702:C:C4'	2.68	0.41
9:I:1665:A:C4	9:I:1666:U:C6	3.08	0.41
9:I:1674:U:C2'	9:I:1675:G:O5'	2.68	0.41
9:I:1726:A:C1'	9:I:1729:C:H42	2.34	0.41
9:I:1750:G:C2'	9:I:1751:A:O5'	2.68	0.41
9:I:1782:A:C2	9:I:1859:G:C6	3.08	0.41
9:I:1808:G:O3'	44:t:16:LYS:NZ	2.52	0.41
9:I:1867:G:N3	9:I:1867:G:C2'	2.82	0.41
9:I:1871:A:C8	9:I:1873:U:N3	2.88	0.41
9:I:1872:G:N1	9:I:1900:G:C8	2.88	0.41
9:I:1908:G:C8	9:I:1908:G:OP2	2.73	0.41
9:I:1960:A:H1'	43:s:72:GLN:OE1	2.20	0.41
9:I:1993:G:C2	9:I:1994:G:C4	3.08	0.41
9:I:2039:G:C2'	9:I:2040:C:O4'	2.68	0.41
9:I:2059:G:H2'	9:I:2060:C:O5'	2.20	0.41
9:I:2085:G:N1	9:I:2750:G:C6	2.88	0.41
9:I:2104:G:N1	9:I:2125:G:N1	2.68	0.41
9:I:2117:G:P	13:M:199:MET:CE	3.08	0.41
9:I:2195:G:N1	9:I:2268:G:N7	2.68	0.41
9:I:2209:U:N3	9:I:2210:U:C5	2.88	0.41
9:I:2363:A:H1'	10:J:99:G:C2'	2.50	0.41
9:I:2371:U:O3'	9:I:2372:U:O4'	2.37	0.41
9:I:2448:G:H5''	9:I:2449:PSU:OP2	2.20	0.41
9:I:2538:C:C5'	9:I:2539:C:OP1	2.68	0.41
9:I:2687:G:C2	9:I:2688:A:N9	2.88	0.41
9:I:2688:A:C2	9:I:2689:G:N9	2.88	0.41
9:I:2836:A:O5'	43:s:59:ASN:ND2	2.53	0.41
9:I:2837:G:H2'	9:I:2837:G:N3	2.35	0.41
9:I:2924:G:C6	9:I:2925:A:C6	3.07	0.41
9:I:2936:U:C2	9:I:2937:U:C6	3.08	0.41
9:I:2957:C:C6	9:I:2957:C:O5'	2.73	0.41
9:I:3059:C:O2'	9:I:3060:A:C3'	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3182:U:O2	9:I:3194:A:C5'	2.67	0.41
9:I:3217:G:O6	9:I:3231:G:C2'	2.68	0.41
9:I:3264:G:C5	9:I:3477:G:N1	2.88	0.41
9:I:3401:G:C6	9:I:3402:C:C4	3.08	0.41
9:I:3635:G:N2	9:I:3645:U:H1'	2.35	0.41
9:I:3680:G:C4	9:I:3681:U:C4	3.08	0.41
9:I:3683:U:N3	9:I:3684:G:N7	2.68	0.41
9:I:3808:A:C2	14:N:122:ASP:HB2	2.55	0.41
9:I:3830:A:N3	9:I:3879:C:N1	2.68	0.41
9:I:3840:A:C4	9:I:3877:G:C5	3.08	0.41
9:I:3950:C:N3	9:I:3951:PSU:N1	2.67	0.41
9:I:4030:G:H2'	9:I:4031:U:H6	1.85	0.41
9:I:4091:G:C5	9:I:4092:A:N1	2.88	0.41
9:I:4104:C:O2'	9:I:4105:C:P	2.77	0.41
9:I:4145:C:H2'	9:I:4146:C:O5'	2.20	0.41
9:I:4186:G:H1'	9:I:4341:U:C2'	2.47	0.41
9:I:4219:A:C2	9:I:4221:A:C8	3.07	0.41
9:I:4232:A:N1	9:I:4260:A:N1	2.68	0.41
9:I:4240:U:C1'	15:O:138:GLN:HB2	2.49	0.41
9:I:4273:U:N1	9:I:4275:A:C2	2.88	0.41
9:I:4278:U:C2'	9:I:4279:C:H5'	2.50	0.41
9:I:4311:U:C2'	9:I:4312:U:O5'	2.67	0.41
9:I:4340:G:H5'	39:O:52:ARG:NH1	2.34	0.41
9:I:4350:G:H2'	9:I:4351:A:C8	2.55	0.41
9:I:4400:C:H6	9:I:4400:C:O5'	2.03	0.41
10:J:4:U:H1'	10:J:25:C:H42	1.80	0.41
10:J:56:A:C2	10:J:57:A:N6	2.88	0.41
10:J:93:A:C4	10:J:94:U:C6	3.08	0.41
11:K:5:CYS:C	11:K:12:ARG:O	2.63	0.41
11:K:21:PRO:O	11:K:22:GLU:OE2	2.37	0.41
11:K:107:LYS:HB2	11:K:195:GLY:HA2	2.01	0.41
12:L:14:ILE:HD11	12:L:24:VAL:HG22	2.01	0.41
12:L:73:VAL:HG22	12:L:74:GLU:O	2.20	0.41
13:M:136:GLN:CB	13:M:137:LYS:HD2	2.50	0.41
13:M:196:VAL:HG22	13:M:199:MET:HB2	2.02	0.41
14:N:34:THR:O	14:N:153:ILE:HA	2.20	0.41
15:O:132:LEU:HD11	15:O:140:ILE:CB	2.49	0.41
17:S:38:ILE:CD1	17:S:60:ALA:O	2.68	0.41
18:T:77:ILE:HD11	18:T:110:VAL:HG13	2.02	0.41
18:T:122:VAL:O	18:T:143:GLU:O	2.38	0.41
21:W:184:VAL:CG2	21:W:196:VAL:HG23	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:W:204:ILE:HG23	21:W:205:ARG:N	2.35	0.41
26:b:129:ASN:HB2	26:b:134:VAL:HB	2.01	0.41
27:c:19:ALA:HB3	27:c:21:LYS:HZ3	1.85	0.41
28:d:12:SER:HG	28:d:66:GLY:C	2.27	0.41
30:f:9:ALA:HB2	30:f:22:ILE:CD1	2.50	0.41
31:g:93:ARG:O	31:g:94:TYR:HD1	2.03	0.41
34:j:8:LEU:HD22	34:j:31:LEU:HD23	2.01	0.41
34:j:32:GLU:O	34:j:33:LEU:HD23	2.20	0.41
36:l:51:LYS:N	36:l:51:LYS:CD	2.83	0.41
37:m:27:CYS:SG	37:m:29:ALA:N	2.80	0.41
38:n:17:LEU:CD1	38:n:41:PRO:O	2.68	0.41
38:n:86:ILE:HG22	38:n:114:LEU:HD11	2.02	0.41
39:o:20:ARG:CZ	39:o:91:VAL:CG1	2.98	0.41
41:q:65:ALA:C	41:q:66:HIS:CD2	2.98	0.41
42:r:69:LEU:HD22	42:r:108:SER:N	2.35	0.41
43:s:43:ILE:CG2	43:s:44:LYS:N	2.82	0.41
44:t:27:VAL:HG22	44:t:28:LEU:N	2.35	0.41
46:v:32:GLY:C	46:v:34:LYS:H	2.28	0.41
46:v:36:HIS:HB3	46:v:69:PHE:CZ	2.55	0.41
4:D:30:ILE:HG21	31:g:10:PRO:HG3	2.01	0.41
4:D:47:ASN:O	4:D:48:ASN:OD1	2.37	0.41
4:D:62:ARG:NH1	4:D:62:ARG:HG2	2.35	0.41
5:E:42:ARG:HH22	25:a:90:MET:HE3	1.85	0.41
7:G:45:ALA:HB1	7:G:81:ILE:HG22	2.02	0.41
8:H:37:TYR:CZ	30:f:110:ARG:NH1	2.88	0.41
9:I:67:G:C1'	9:I:150:A:H61	2.08	0.41
9:I:130:A:N3	9:I:261:A:H2	2.18	0.41
9:I:133:G:H2'	9:I:134:C:O4'	2.20	0.41
9:I:293:U:H2'	9:I:294:C:C6	2.55	0.41
9:I:331:G:C2	9:I:332:U:C6	3.07	0.41
9:I:333:C:N3	9:I:334:C:C5	2.88	0.41
9:I:357:U:H2'	9:I:358:G:H8	1.85	0.41
9:I:375:G:O2'	9:I:376:G:H5'	2.21	0.41
9:I:417:C:H2'	9:I:418:C:C6	2.55	0.41
9:I:500:C:H1'	9:I:548:C:C1'	2.49	0.41
9:I:522:A:N6	31:g:49:ARG:HH22	2.18	0.41
9:I:578:A:C5'	9:I:727:A:H1'	2.48	0.41
9:I:608:A:C4	9:I:609:U:C6	3.08	0.41
9:I:617:C:H41	9:I:620:A:P	2.43	0.41
9:I:660:G:O2'	9:I:661:U:H5'	2.21	0.41
9:I:733:G:C6	9:I:734:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:743:C:O2	9:I:743:C:C2'	2.66	0.41
9:I:748:A:H2'	9:I:749:C:C5'	2.50	0.41
9:I:1016:U:N3	9:I:1017:G:C5	2.88	0.41
9:I:1025:G:C2	9:I:1034:A:C6	3.09	0.41
9:I:1040:G:N2	9:I:1041:A:N6	2.68	0.41
9:I:1073:G:O6	9:I:1082:U:C4	2.72	0.41
9:I:1260:A:C4	9:I:1261:C:C6	3.08	0.41
9:I:1303:G:C2'	9:I:1332:A:N6	2.81	0.41
9:I:1358:C:H2'	9:I:1359:A:O5'	2.20	0.41
9:I:1464:A:H8	9:I:1464:A:O5'	2.01	0.41
9:I:1485:C:N3	9:I:1486:G:C5	2.87	0.41
9:I:1489:A:N7	9:I:4284:U:O4'	2.53	0.41
9:I:1495:A:C2	9:I:1496:A:C4	3.07	0.41
9:I:1549:A:H4'	9:I:1550:U:O5'	2.20	0.41
9:I:1576:C:C3'	48:x:51:ARG:HG2	2.50	0.41
9:I:1599:U:H5''	9:I:1600:U:H5''	2.01	0.41
9:I:1622:G:N1	9:I:1630:C:N3	2.68	0.41
9:I:1639:U:O4	43:s:2:ILE:CG1	2.68	0.41
9:I:1675:G:C2	9:I:1676:A:C2	3.08	0.41
9:I:1751:A:C8	9:I:1752:G:O4'	2.74	0.41
9:I:1970:A:C4	9:I:1971:A:C8	3.08	0.41
9:I:1978:A:H2	44:t:41:VAL:HG12	1.85	0.41
9:I:1995:G:C2	9:I:1996:G:C1'	3.01	0.41
9:I:2022:A:C4	9:I:2023:C:C5	3.08	0.41
9:I:2028:A:N1	9:I:3536:A:C4	2.89	0.41
9:I:2131:A:H2'	9:I:2132:A:H8	1.84	0.41
9:I:2151:G:P	36:l:18:LYS:HG2	2.60	0.41
9:I:2168:A:C4	9:I:2170:A:C6	3.08	0.41
9:I:2211:G:O6	9:I:2220:U:C2	2.72	0.41
9:I:2217:C:C5	9:I:2218:A:C8	3.08	0.41
9:I:2263:G:C5	9:I:2265:C:C4	3.08	0.41
9:I:2441:A:C4	9:I:2442:C:C5	3.08	0.41
9:I:2478:A:N3	9:I:2478:A:C2'	2.82	0.41
9:I:2523:A:C8	9:I:2524:C:C5	3.08	0.41
9:I:2539:C:N4	9:I:2605:A:C2'	2.78	0.41
9:I:2609:G:C6	9:I:2610:G:N7	2.88	0.41
9:I:2646:C:P	40:p:80:ASN:HD22	2.44	0.41
9:I:2701:C:O2	9:I:2734:U:O2	2.38	0.41
9:I:2731:A:O2'	9:I:2732:G:P	2.79	0.41
9:I:2770:A:H2'	9:I:2771:G:H8	1.85	0.41
9:I:2771:G:O3'	20:V:24:MET:HE3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2803:G:H2'	9:I:2804:G:O5'	2.20	0.41
9:I:2817:C:C4	9:I:2818:G:N7	2.87	0.41
9:I:2833:G:H8	9:I:2833:G:OP2	2.02	0.41
9:I:2882:G:C6	9:I:2883:G:C5	3.08	0.41
9:I:2892:C:C2'	9:I:2893:C:C6	3.02	0.41
9:I:2892:C:C5'	9:I:2893:C:OP2	2.69	0.41
9:I:3049:G:C2	9:I:3050:C:C2	3.08	0.41
9:I:3185:C:N4	9:I:3191:G:H22	2.17	0.41
9:I:3209:G:C1'	9:I:3237:G:C6	3.03	0.41
9:I:3282:C:H2'	9:I:3283:A:H8	1.84	0.41
9:I:3314:U:OP1	11:K:176:ARG:CZ	2.67	0.41
9:I:3403:C:C4	9:I:3416:G:N1	2.88	0.41
9:I:3410:A:H8	9:I:3410:A:OP2	2.03	0.41
9:I:3592:U:O2	9:I:3685:A:N1	2.53	0.41
9:I:3677:A:C2	9:I:3678:A:C5	3.08	0.41
9:I:3715:G:C2	9:I:3716:C:C2	3.08	0.41
9:I:3778:A:C4	9:I:3779:C:C6	3.08	0.41
9:I:3780:G:OP1	9:I:3781:A:OP1	2.37	0.41
9:I:3784:G:N2	9:I:3785:U:C5	2.88	0.41
9:I:3786:U:H2'	9:I:3786:U:O2	2.20	0.41
9:I:3912:A:C4'	34:j:16:HIS:NE2	2.83	0.41
9:I:3977:C:C2'	9:I:3978:G:O5'	2.68	0.41
9:I:3977:C:N4	19:U:123:LYS:HZ2	2.18	0.41
9:I:4130:C:C4'	12:L:38:LYS:NZ	2.83	0.41
9:I:4214:U:H5''	39:o:52:ARG:NH2	2.34	0.41
9:I:4277:U:C2	9:I:4278:U:C5	3.08	0.41
9:I:4322:G:C4	9:I:4323:A:C8	3.08	0.41
9:I:4341:U:OP1	39:o:95:LYS:CG	2.68	0.41
10:J:13:U:H5'	10:J:69:C:C2'	2.49	0.41
10:J:16:C:O2	10:J:66:G:C2	2.74	0.41
10:J:25:C:C2'	10:J:26:C:H6	2.33	0.41
11:K:51:ARG:O	11:K:52:HIS:CB	2.68	0.41
11:K:61:TYR:O	11:K:62:ARG:HD2	2.20	0.41
11:K:99:GLU:C	11:K:100:ARG:HG3	2.45	0.41
11:K:106:PRO:HD2	11:K:109:LEU:CB	2.50	0.41
11:K:171:VAL:O	11:K:182:LYS:CA	2.62	0.41
12:L:25:THR:O	12:L:187:LEU:O	2.38	0.41
12:L:108:ASP:HA	12:L:173:GLN:HA	2.01	0.41
12:L:178:VAL:HG21	12:L:190:LYS:HB2	2.00	0.41
13:M:6:LYS:CB	13:M:120:VAL:O	2.68	0.41
13:M:43:THR:O	13:M:44:ARG:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:133:LEU:N	13:M:133:LEU:HD22	2.34	0.41
13:M:150:THR:CG2	13:M:152:GLU:O	2.68	0.41
14:N:129:MET:HE3	14:N:129:MET:HB3	1.98	0.41
15:O:86:LEU:CD2	15:O:147:LEU:C	2.92	0.41
16:R:100:VAL:O	16:R:103:ILE:CG1	2.68	0.41
16:R:114:LEU:HG	16:R:118:MET:SD	2.59	0.41
17:S:61:VAL:HB	17:S:87:LEU:CG	2.50	0.41
17:S:68:GLY:N	17:S:78:ARG:HD2	2.35	0.41
17:S:92:GLU:O	17:S:93:GLN:CG	2.50	0.41
18:T:23:ILE:HG23	18:T:24:GLY:N	2.34	0.41
18:T:85:VAL:HA	18:T:98:ALA:HB1	2.02	0.41
18:T:122:VAL:C	18:T:143:GLU:O	2.63	0.41
18:T:132:ARG:HH12	18:T:142:ILE:CB	2.32	0.41
19:U:32:GLY:C	19:U:131:VAL:HG22	2.44	0.41
20:V:25:ALA:HB2	20:V:69:ARG:CZ	2.50	0.41
20:V:69:ARG:C	20:V:71:ARG:N	2.77	0.41
21:W:48:ASN:O	21:W:51:LEU:HB3	2.20	0.41
23:Y:197:HIS:HB2	24:Z:94:THR:HG23	1.99	0.41
24:Z:106:LEU:HB2	24:Z:111:VAL:CG2	2.50	0.41
33:i:50:GLY:C	33:i:51:ARG:CZ	2.93	0.41
39:o:19:PHE:HA	39:o:23:ASP:CB	2.50	0.41
39:o:22:GLY:CA	39:o:45:VAL:CG2	2.98	0.41
39:o:58:PHE:CE1	39:o:83:ILE:HD11	2.55	0.41
41:q:1:MET:CG	41:q:43:ASN:CB	2.93	0.41
41:q:31:GLU:H	41:q:63:VAL:CG2	2.32	0.41
41:q:38:VAL:HG21	41:q:59:ILE:HG13	2.03	0.41
42:r:7:HIS:HB3	42:r:103:ILE:CG2	2.48	0.41
43:s:2:ILE:HG13	43:s:2:ILE:O	2.19	0.41
43:s:18:GLU:C	43:s:22:THR:HG23	2.44	0.41
43:s:28:ASN:C	43:s:87:LEU:HD12	2.44	0.41
43:s:42:GLU:HG2	43:s:43:ILE:H	1.84	0.41
43:s:61:LEU:HD12	43:s:62:VAL:C	2.44	0.41
44:t:16:LYS:O	44:t:17:ASP:OD1	2.38	0.41
44:t:42:LYS:HG2	44:t:59:GLU:HB2	2.01	0.41
46:v:27:ILE:CG2	46:v:70:ILE:CD1	2.95	0.41
49:y:12:ALA:HB1	49:y:15:ARG:HB2	2.02	0.41
1:A:5:MET:HB3	9:I:1215:A:OP2	2.21	0.41
1:A:7:ALA:N	9:I:1216:C:P	2.92	0.41
1:A:69:PRO:HA	9:I:981:U:P	2.60	0.41
3:C:20:VAL:HG12	3:C:35:ARG:CB	2.49	0.41
4:D:18:ILE:N	4:D:45:ASP:OD2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:5:LYS:HE3	6:F:5:LYS:HB3	1.90	0.41
8:H:4:LYS:C	30:f:96:THR:H	2.24	0.41
9:I:16:U:OP1	24:Z:12:VAL:HG12	2.21	0.41
9:I:118:A:C2	9:I:239:G:C8	3.08	0.41
9:I:463:U:H2'	9:I:465:A:N7	2.36	0.41
9:I:527:C:C2'	9:I:528:G:H5'	2.50	0.41
9:I:532:A:H8	9:I:532:A:OP1	2.03	0.41
9:I:557:G:H2'	9:I:558:A:H2	1.85	0.41
9:I:643:U:H2'	9:I:643:U:O2	2.19	0.41
9:I:654:A:O2'	9:I:754:G:H5''	2.20	0.41
9:I:719:C:O5'	9:I:719:C:H6	2.03	0.41
9:I:910:U:C2'	9:I:911:C:O5'	2.68	0.41
9:I:964:U:O4'	9:I:968:A:H1'	2.20	0.41
9:I:1072:U:O2'	21:W:102:LYS:CG	2.68	0.41
9:I:1388:C:C2'	9:I:1389:U:H5'	2.50	0.41
9:I:1432:A:N6	9:I:4372:A:C8	2.88	0.41
9:I:1558:G:C5	9:I:1559:U:C4	3.07	0.41
9:I:1561:C:C4	9:I:1594:A:C6	3.09	0.41
9:I:1583:A:H62	9:I:1604:A:N6	2.14	0.41
9:I:1621:G:C2	9:I:1631:A:C4	3.09	0.41
9:I:1703:A:C8	9:I:1704:A:C8	3.09	0.41
9:I:1780:U:H3'	9:I:1781:C:C5	2.55	0.41
9:I:1867:G:H4'	9:I:1867:G:OP1	2.21	0.41
9:I:1876:G:H2'	9:I:1877:G:H5'	2.01	0.41
9:I:1888:G:C4	9:I:1890:U:C4	3.08	0.41
9:I:2003:A:C6	9:I:2005:A:C6	3.07	0.41
9:I:2047:A:O5'	9:I:2048:G:C8	2.73	0.41
9:I:2063:A:C4	9:I:3512:G:C2	3.08	0.41
9:I:2144:A:C3'	9:I:2145:C:H4'	2.50	0.41
9:I:2215:A:OP1	9:I:2215:A:C8	2.72	0.41
9:I:2264:A:N1	9:I:2281:A:C2	2.88	0.41
9:I:2268:G:C2'	9:I:2269:U:O5'	2.68	0.41
9:I:2275:G:C4	9:I:2294:A:C8	3.08	0.41
9:I:2278:G:C5	9:I:2279:U:C4	3.08	0.41
9:I:2363:A:O2'	10:J:100:A:C1'	2.68	0.41
9:I:2401:G:C4	9:I:2402:C:C6	3.08	0.41
9:I:2464:U:H2'	9:I:2465:G:O5'	2.20	0.41
9:I:2512:U:H2'	9:I:2513:U:C6	2.56	0.41
9:I:2524:C:OP2	9:I:2524:C:C6	2.73	0.41
9:I:2538:C:H5''	9:I:2539:C:OP1	2.20	0.41
9:I:2604:G:HO2'	9:I:2605:A:P	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2680:G:C4	9:I:2681:G:C8	3.07	0.41
9:I:2692:U:O2	9:I:2692:U:H2'	2.19	0.41
9:I:2717:G:C2	9:I:2721:G:C5	3.07	0.41
9:I:2726:G:H2'	9:I:2727:C:H6	1.85	0.41
9:I:2775:G:O2'	9:I:2776:U:O5'	2.39	0.41
9:I:2822:A:C2'	9:I:2823:U:OP2	2.68	0.41
9:I:2869:U:N3	9:I:2870:C:C5	2.88	0.41
9:I:2943:G:H2'	9:I:2944:G:C1'	2.50	0.41
9:I:2985:G:N3	9:I:2985:G:C2'	2.83	0.41
9:I:3010:G:P	9:I:3050:C:O2'	2.77	0.41
9:I:3227:G:H2'	9:I:3228:G:O4'	2.19	0.41
9:I:3232:G:N3	9:I:3232:G:C2'	2.79	0.41
9:I:3337:C:O2	9:I:3338:C:C6	2.73	0.41
9:I:3342:A:N6	9:I:3388:C:C2	2.88	0.41
9:I:3355:G:N3	9:I:3355:G:C2'	2.83	0.41
9:I:3370:A:N1	9:I:3371:A:H1'	2.35	0.41
9:I:3377:U:C4	9:I:3378:G:C4	3.08	0.41
9:I:3397:G:C2	9:I:3398:G:N7	2.87	0.41
9:I:3467:G:C2	9:I:3468:C:C4	3.09	0.41
9:I:3479:C:H2'	9:I:3480:C:H6	1.85	0.41
9:I:3505:U:H2'	9:I:3506:G:O4'	2.20	0.41
9:I:3599:U:O2	9:I:3679:U:C2	2.74	0.41
9:I:3613:A:C6	9:I:3663:A:C5	3.09	0.41
9:I:3717:G:C6	9:I:3718:G:C2	3.08	0.41
9:I:3803:A:H8	9:I:3803:A:OP1	2.03	0.41
9:I:3806:U:P	14:N:71:LYS:NZ	2.93	0.41
9:I:3820:C:C2	9:I:3882:A:C5	3.07	0.41
9:I:3874:C:C2'	9:I:3875:A:C8	3.04	0.41
9:I:3986:U:H2'	9:I:3987:U:H6	1.85	0.41
9:I:4278:U:C2'	9:I:4279:C:O5'	2.68	0.41
10:J:15:G:O3'	10:J:16:C:O4'	2.39	0.41
10:J:56:A:C5	14:N:25:MET:CE	3.01	0.41
11:K:20:ASN:OD1	11:K:21:PRO:N	2.53	0.41
11:K:80:LEU:CD2	11:K:91:ALA:HA	2.50	0.41
11:K:128:THR:OG1	11:K:190:THR:CA	2.64	0.41
12:L:1:MET:HE1	12:L:104:VAL:CA	2.50	0.41
12:L:35:THR:OG1	12:L:49:GLN:OE1	2.11	0.41
12:L:52:THR:CG2	12:L:80:TRP:CH2	2.99	0.41
12:L:109:VAL:HG22	12:L:203:VAL:HG22	2.02	0.41
12:L:110:THR:CB	12:L:171:THR:HA	2.46	0.41
13:M:6:LYS:HE3	13:M:119:ILE:CA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:111:GLU:OE2	13:M:114:ARG:CZ	2.68	0.41
13:M:126:VAL:N	13:M:154:ASP:OD2	2.44	0.41
13:M:128:ALA:CA	13:M:156:ASN:OD1	2.58	0.41
13:M:196:VAL:O	13:M:197:GLU:C	2.63	0.41
14:N:41:GLU:O	14:N:44:ALA:N	2.52	0.41
14:N:136:ILE:CG1	14:N:137:PHE:CD1	3.02	0.41
16:R:32:LEU:HD11	16:R:142:ILE:HG21	2.02	0.41
17:S:18:ARG:C	17:S:19:VAL:CG1	2.92	0.41
17:S:64:ARG:CG	17:S:102:PRO:HG2	2.50	0.41
23:Y:76:LYS:HA	23:Y:79:ALA:HB3	2.02	0.41
31:g:26:CYS:HB3	31:g:27:PRO:HD2	2.01	0.41
37:m:5:ALA:HA	37:m:38:GLY:H	1.84	0.41
39:o:47:ILE:CG2	39:o:99:LEU:HD12	2.43	0.41
41:q:4:VAL:CG2	41:q:40:MET:HE3	2.44	0.41
41:q:25:LEU:CG	41:q:94:THR:HG21	2.49	0.41
41:q:35:PHE:HB3	41:q:59:ILE:HD12	2.02	0.41
41:q:63:VAL:HG12	41:q:64:VAL:N	2.35	0.41
41:q:93:PHE:CD1	41:q:93:PHE:C	2.98	0.41
43:s:54:GLU:CD	43:s:88:LYS:HE3	2.44	0.41
43:s:55:VAL:CG1	43:s:56:GLU:N	2.82	0.41
44:t:13:LEU:HB2	44:t:68:ASN:CB	2.50	0.41
44:t:92:VAL:HG23	44:t:92:VAL:O	2.20	0.41
45:u:62:THR:HG23	45:u:62:THR:O	2.21	0.41
46:v:62:LYS:CE	46:v:71:SER:CB	2.97	0.41
48:x:38:GLN:CB	48:x:40:HIS:ND1	2.83	0.41
49:y:23:LEU:O	49:y:26:LEU:N	2.47	0.41
1:A:1:ALA:N	1:A:6:LYS:HD3	2.35	0.41
1:A:42:ASN:O	1:A:45:LEU:HB2	2.20	0.41
2:B:23:SER:HG	2:B:26:VAL:HG23	1.85	0.41
3:C:7:ALA:O	3:C:17:TYR:HA	2.20	0.41
4:D:9:VAL:HB	4:D:53:GLY:N	2.33	0.41
4:D:68:LYS:HB3	4:D:68:LYS:HE2	1.92	0.41
6:F:21:VAL:HG23	6:F:42:MET:CE	2.50	0.41
7:G:41:ASP:HB3	7:G:44:ALA:CB	2.51	0.41
8:H:28:LEU:CA	8:H:31:VAL:HB	2.48	0.41
9:I:127:G:C2	9:I:233:C:C2	3.08	0.41
9:I:147:G:H1	9:I:173:A:H61	0.63	0.41
9:I:248:U:O2	9:I:275:G:C2	2.74	0.41
9:I:257:G:C2	9:I:268:C:C2	3.08	0.41
9:I:264:G:N2	9:I:266:C:O4'	2.53	0.41
9:I:333:C:C2	9:I:334:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:349:G:C2'	9:I:350:G:C8	2.94	0.41
9:I:361:G:P	31:g:30:ARG:NH2	2.93	0.41
9:I:390:G:C6	9:I:391:C:C5	3.09	0.41
9:I:421:C:H1'	9:I:422:G:N2	2.35	0.41
9:I:551:U:C4	9:I:552:A:N7	2.88	0.41
9:I:599:A:C2'	9:I:600:G:H5'	2.50	0.41
9:I:600:G:C2'	9:I:601:A:H5'	2.50	0.41
9:I:613:C:C2	9:I:626:G:C2	3.09	0.41
9:I:675:A:H2'	9:I:676:U:H6	1.85	0.41
9:I:710:G:C4	9:I:711:A:C8	3.08	0.41
9:I:780:A:C2	9:I:4418:G:H4'	2.55	0.41
9:I:826:U:H2'	9:I:869:U:O4	2.19	0.41
9:I:839:C:N3	9:I:845:G:O6	2.53	0.41
9:I:1090:U:O2	9:I:1094:U:C4	2.73	0.41
9:I:1128:C:C5	9:I:1138:G:O2'	2.69	0.41
9:I:1153:G:O2'	9:I:1154:A:H5'	2.20	0.41
9:I:1168:A:C3'	21:W:136:ARG:HH22	2.34	0.41
9:I:1169:A:N6	9:I:1170:A:C2	2.88	0.41
9:I:1187:A:H2'	9:I:1188:U:C4'	2.50	0.41
9:I:1332:A:H2'	9:I:1333:G:O4'	2.21	0.41
9:I:1583:A:C4	9:I:1601:A:N1	2.89	0.41
9:I:1585:G:H2'	9:I:1586:G:C5'	2.49	0.41
9:I:1721:A:N1	9:I:1733:A:C8	2.88	0.41
9:I:1770:A:C4	9:I:1870:G:C5	3.09	0.41
9:I:1778:A:H5''	9:I:1779:A:OP1	2.21	0.41
9:I:1787:G:C2	9:I:1854:A:O4'	2.74	0.41
9:I:1809:A:OP1	44:t:16:LYS:NZ	2.53	0.41
9:I:1856:G:H2'	9:I:1857:C:C5'	2.51	0.41
9:I:1891:A:H4'	9:I:1913:C:OP2	2.19	0.41
9:I:1892:U:N3	9:I:1893:C:C5	2.88	0.41
9:I:1922:A:C4	9:I:1923:A:C2	3.09	0.41
9:I:1964:U:C4	9:I:2288:A:C2	3.09	0.41
9:I:1981:G:C2	9:I:2007:A:C4	3.08	0.41
9:I:1982:A:H4'	44:t:44:HIS:HB2	2.03	0.41
9:I:2013:A:C6	9:I:2014:A:N6	2.88	0.41
9:I:2020:G:C4	9:I:2021:U:C5	3.08	0.41
9:I:2092:A:C6	9:I:2093:U:C4	3.09	0.41
9:I:2120:G:OP2	9:I:2120:G:N2	2.53	0.41
9:I:2128:G:C6	9:I:2136:G:C5	3.08	0.41
9:I:2257:G:N1	9:I:2258:C:H1'	2.35	0.41
9:I:2270:G:O2'	9:I:2271:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2358:G:P	46:v:68:LYS:NZ	2.91	0.41
9:I:2368:U:O3'	9:I:2369:G:O4'	2.37	0.41
9:I:2402:C:OP2	9:I:2402:C:H6	2.03	0.41
9:I:2449:PSU:C4	9:I:2450:G:N7	2.88	0.41
9:I:2520:G:C6	9:I:2521:A:C5	3.08	0.41
9:I:2549:G:H21	9:I:2579:A:H1'	1.84	0.41
9:I:2992:C:H2'	9:I:2993:C:O4'	2.21	0.41
9:I:3003:A:OP2	9:I:3003:A:C8	2.72	0.41
9:I:3062:G:H4'	11:K:58:LYS:NZ	2.33	0.41
9:I:3068:C:N3	9:I:3069:C:C5	2.88	0.41
9:I:3117:G:C4	9:I:3118:U:C5	3.08	0.41
9:I:3176:G:C4	9:I:3177:U:C5	3.08	0.41
9:I:3280:A:C6	9:I:3432:A:C2	3.08	0.41
9:I:3313:A:P	11:K:154:ALA:N	2.92	0.41
9:I:3318:G:C2'	9:I:3319:U:O5'	2.68	0.41
9:I:3344:G:O2'	9:I:3345:U:H5'	2.21	0.41
9:I:3344:G:O6	9:I:3385:G:O6	2.39	0.41
9:I:3436:C:OP2	9:I:3437:U:C2'	2.68	0.41
9:I:3504:G:OP1	42:r:41:LYS:HA	2.20	0.41
9:I:3521:G:C2'	9:I:3522:U:O5'	2.69	0.41
9:I:3521:G:C5	9:I:3522:U:C4	3.09	0.41
9:I:3627:G:H21	9:I:3652:A:H61	1.68	0.41
9:I:3733:G:C5	9:I:3734:U:C5	3.08	0.41
9:I:3760:A:N3	9:I:3766:U:C4	2.88	0.41
9:I:3796:U:O2'	14:N:122:ASP:C	2.63	0.41
9:I:3797:G:H2'	9:I:3798:G:O5'	2.21	0.41
9:I:3809:G:C2'	14:N:124:ARG:NH1	2.80	0.41
9:I:3834:A:C2	9:I:3835:G:C8	3.08	0.41
9:I:3839:G:C5	9:I:3866:U:C2	3.08	0.41
9:I:3859:G:C2'	9:I:3860:A:O4'	2.68	0.41
9:I:3866:U:C2	9:I:3867:G:C5	3.09	0.41
9:I:3910:C:C6	9:I:3910:C:O5'	2.74	0.41
9:I:3952:G:O2'	9:I:3954:U:O4	2.39	0.41
9:I:3952:G:H2'	9:I:3984:G:O6	2.20	0.41
9:I:4023:G:OP2	15:O:171:LYS:CE	2.68	0.41
9:I:4027:U:O2'	9:I:4028:A:H5'	2.20	0.41
9:I:4046:OMU:O2	9:I:4048:U:H5'	2.20	0.41
9:I:4097:G:N3	9:I:4098:U:C6	2.89	0.41
9:I:4128:A:C6	9:I:4279:C:C4	3.09	0.41
9:I:4176:A:H4'	12:L:12:THR:C	2.46	0.41
9:I:4176:A:C4'	12:L:12:THR:C	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:4237:U:C3'	9:I:4249:C:N4	2.74	0.41
10:J:29:C:N1	10:J:30:C:C5	2.89	0.41
10:J:33:A:C2'	10:J:43:G:C6	2.99	0.41
11:K:159:THR:O	11:K:193:GLU:OE1	2.38	0.41
11:K:208:GLY:HA2	11:K:211:ARG:CG	2.49	0.41
12:L:25:THR:O	12:L:188:LEU:HD23	2.20	0.41
12:L:121:THR:HG23	12:L:122:VAL:N	2.34	0.41
13:M:5:LEU:HD11	13:M:122:GLU:CA	2.50	0.41
13:M:131:THR:HG21	13:M:163:ASN:HB2	2.03	0.41
13:M:148:ILE:HA	13:M:187:VAL:O	2.21	0.41
13:M:159:LEU:CD2	13:M:162:ARG:NH2	2.80	0.41
14:N:48:LEU:HD11	14:N:147:ARG:HD3	2.00	0.41
14:N:151:LEU:HG	14:N:153:ILE:CD1	2.23	0.41
16:R:90:GLU:OE2	16:R:90:GLU:HA	2.19	0.41
17:S:8:LEU:HA	17:S:8:LEU:HD23	1.86	0.41
17:S:103:VAL:CG2	17:S:122:VAL:HG12	2.50	0.41
18:T:93:ASN:O	18:T:96:LYS:C	2.63	0.41
19:U:6:ARG:NH1	19:U:8:LYS:N	2.68	0.41
20:V:51:LEU:O	20:V:54:LEU:CB	2.69	0.41
21:W:20:TRP:CB	21:W:36:HIS:CD2	3.03	0.41
21:W:98:LEU:HD12	21:W:172:GLU:HB2	2.02	0.41
21:W:158:LEU:HD13	21:W:178:ILE:HG21	2.03	0.41
21:W:162:ASP:OD1	21:W:164:ASP:OD2	2.39	0.41
23:Y:71:PHE:CE1	23:Y:93:LEU:HD21	2.55	0.41
23:Y:96:ARG:NH2	23:Y:114:ARG:HH12	2.18	0.41
23:Y:106:PHE:O	23:Y:154:VAL:HG13	2.20	0.41
25:a:39:LEU:HD13	25:a:62:MET:HB2	2.03	0.41
26:b:112:ASP:HB2	26:b:118:ARG:CG	2.49	0.41
29:e:48:LEU:CD2	29:e:58:ARG:HG2	2.50	0.41
33:i:21:LEU:HD23	33:i:22:THR:C	2.45	0.41
37:m:35:GLN:CG	37:m:36:ARG:H	2.32	0.41
37:m:35:GLN:CG	37:m:36:ARG:N	2.83	0.41
38:n:82:LEU:HD13	38:n:87:LYS:NZ	2.35	0.41
38:n:89:VAL:HG23	38:n:116:PHE:CD2	2.50	0.41
42:r:105:VAL:O	42:r:105:VAL:HG13	2.20	0.41
43:s:39:THR:CG2	43:s:42:GLU:CD	2.92	0.41
43:s:54:GLU:O	43:s:88:LYS:HB2	2.19	0.41
44:t:52:ASN:C	44:t:54:PRO:CD	2.89	0.41
45:u:44:HIS:CE1	45:u:48:MET:CG	3.01	0.41
45:u:80:HIS:HB2	45:u:83:LYS:HG3	2.02	0.41
47:w:17:ARG:CZ	47:w:18:SER:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:w:67:LEU:HD12	47:w:67:LEU:C	2.46	0.41
48:x:10:VAL:HA	48:x:56:LEU:HD22	2.03	0.41
49:y:11:SER:C	49:y:13:ILE:H	2.28	0.41
1:A:51:PRO:O	1:A:54:SER:HB2	2.20	0.41
4:D:31:TYR:CZ	31:g:10:PRO:HD3	2.54	0.41
5:E:42:ARG:HB2	9:I:733:G:N2	2.17	0.41
5:E:42:ARG:CZ	9:I:734:C:O2'	2.69	0.41
7:G:13:GLU:CD	7:G:17:LYS:HG3	2.46	0.41
8:H:3:ILE:HD11	30:f:74:VAL:HG23	2.01	0.41
9:I:31:A:H2'	9:I:32:A:H8	1.84	0.41
9:I:67:G:O4'	9:I:170:A:H1'	2.19	0.41
9:I:180:A:N1	9:I:194:A:C5	2.88	0.41
9:I:378:C:H3'	9:I:379:G:H8	1.85	0.41
9:I:409:G:H1'	9:I:432:G:H1	1.83	0.41
9:I:443:G:C6	9:I:490:G:O6	2.73	0.41
9:I:587:G:C3'	9:I:588:U:C6	3.04	0.41
9:I:958:A:C6	9:I:1221:G:H4'	2.56	0.41
9:I:976:A:H8	9:I:1222:C:C2	2.38	0.41
9:I:1159:G:C2	9:I:1175:A:N1	2.88	0.41
9:I:1209:C:H2'	9:I:1210:U:O4'	2.20	0.41
9:I:1236:C:O4'	9:I:1333:G:N2	2.54	0.41
9:I:1259:G:H2'	9:I:1260:A:C2	2.55	0.41
9:I:1274:A:C2	9:I:1275:G:H1'	2.54	0.41
9:I:1490:G:H5''	9:I:1491:G:OP1	2.19	0.41
9:I:1491:G:O4'	9:I:4294:A:C2	2.73	0.41
9:I:1539:G:C4	9:I:1540:U:C5	3.08	0.41
9:I:1576:C:HO2'	48:x:51:ARG:HA	1.85	0.41
9:I:1577:G:C8	9:I:1578:U:C5	3.09	0.41
9:I:1621:G:C2	9:I:1622:G:C4	3.08	0.41
9:I:1660:A:H61	9:I:1667:A:H1'	1.80	0.41
9:I:1674:U:O2'	9:I:1675:G:H5'	2.19	0.41
9:I:1726:A:HO2'	9:I:1727:A:C4'	2.32	0.41
9:I:1840:A:C5	9:I:1841:C:C2	3.08	0.41
9:I:1859:G:N7	9:I:1860:U:C5	2.89	0.41
9:I:1907:G:H2'	9:I:1908:G:O4'	2.20	0.41
9:I:1924:G:H5''	9:I:1924:G:H8	1.85	0.41
9:I:1957:A:N6	9:I:1972:A:H62	2.18	0.41
9:I:1979:A:N7	9:I:1981:G:C8	2.89	0.41
9:I:2102:A:N3	9:I:2102:A:H2'	2.34	0.41
9:I:2116:A:C4	9:I:2117:G:C8	3.09	0.41
9:I:2136:G:OP1	18:T:129:LYS:CD	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2149:G:C2	9:I:2150:C:C2	3.09	0.41
9:I:2227:A:H2'	9:I:2228:G:O4'	2.20	0.41
9:I:2298:G:N2	9:I:2299:G:N3	2.69	0.41
9:I:2366:A:H2'	9:I:2367:C:H5'	2.01	0.41
9:I:2367:C:C2'	9:I:2368:U:O5'	2.68	0.41
9:I:2472:G:C2	9:I:2473:A:C5	3.08	0.41
9:I:2508:A:C2	9:I:2643:G:H1'	2.55	0.41
9:I:2517:U:C3'	9:I:2518:G:H5'	2.50	0.41
9:I:2581:G:H2'	9:I:2583:A:O4'	2.21	0.41
9:I:2587:G:C2	9:I:2592:A:N6	2.86	0.41
9:I:2632:G:H21	16:R:108:MET:HE3	1.85	0.41
9:I:2698:A:N3	9:I:2700:G:C5	2.89	0.41
9:I:2760:G:O2'	9:I:2761:U:P	2.78	0.41
9:I:2832:G:C4'	43:s:18:GLU:HG2	2.49	0.41
9:I:2899:U:O4	9:I:3091:A:N1	2.53	0.41
9:I:2912:G:C2	9:I:3073:A:C8	3.08	0.41
9:I:2977:G:O6	9:I:3000:U:C4	2.69	0.41
9:I:3094:C:C2'	9:I:3095:G:O5'	2.69	0.41
9:I:3145:G:C4	9:I:3146:A:C8	3.09	0.41
9:I:3193:G:N2	9:I:3257:G:C6	2.88	0.41
9:I:3313:A:C8	11:K:177:SER:HB3	2.55	0.41
9:I:3317:G:C2	9:I:3318:G:N9	2.89	0.41
9:I:3427:G:H2'	9:I:3428:C:C6	2.55	0.41
9:I:3684:G:C2	9:I:3685:A:C5	3.08	0.41
9:I:3756:U:O2	9:I:3756:U:H2'	2.19	0.41
9:I:3773:G:H21	9:I:3821:A:H1'	1.85	0.41
9:I:3783:G:C6	9:I:3784:G:C5	3.09	0.41
9:I:3788:G:OP1	10:J:45:A:H2	1.99	0.41
9:I:3806:U:H1'	14:N:36:ASN:ND2	2.30	0.41
9:I:3885:G:OP2	36:l:31:ILE:HG21	2.20	0.41
9:I:3895:U:O2	9:I:3910:C:C2	2.73	0.41
9:I:3973:U:H5''	9:I:4030:G:O2'	2.21	0.41
9:I:4034:C:O2'	9:I:4035:A:H5'	2.20	0.41
9:I:4082:G:C6	9:I:4083:A:C5	3.09	0.41
9:I:4132:G:N3	9:I:4269:G:C2	2.88	0.41
9:I:4178:U:H2'	9:I:4179:G:N9	2.33	0.41
9:I:4182:G:C2'	9:I:4213:G:H22	2.31	0.41
9:I:4212:G:H21	9:I:4341:U:C4'	2.32	0.41
9:I:4226:G:H3'	9:I:4227:A:C5'	2.51	0.41
9:I:4241:G:C4'	15:O:69:ALA:HB3	2.49	0.41
9:I:4260:A:C8	9:I:4260:A:OP2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:34:C:C2'	10:J:35:C:C5'	2.97	0.41
10:J:82:G:C6	10:J:93:A:N6	2.89	0.41
10:J:89:C:C2'	10:J:90:C:O5'	2.68	0.41
10:J:100:A:C5	10:J:101:G:N7	2.88	0.41
11:K:140:VAL:HG13	11:K:190:THR:CA	2.51	0.41
11:K:169:ALA:O	11:K:185:ALA:HB2	2.20	0.41
12:L:6:GLY:CA	12:L:28:GLU:O	2.69	0.41
12:L:45:TYR:CE2	12:L:47:ALA:HB2	2.54	0.41
12:L:49:GLN:CD	12:L:79:LEU:HD13	2.45	0.41
12:L:126:ASN:O	12:L:128:ARG:NH2	2.54	0.41
12:L:138:LEU:HD13	12:L:138:LEU:HA	1.95	0.41
13:M:99:LYS:O	13:M:100:MET:C	2.63	0.41
13:M:118:LEU:O	13:M:119:ILE:HD13	2.20	0.41
14:N:43:ILE:HD13	14:N:78:ILE:HG23	1.96	0.41
14:N:56:LEU:HD13	14:N:64:PRO:CB	2.46	0.41
14:N:128:SER:O	14:N:129:MET:HG2	2.20	0.41
15:O:17:LYS:HD3	15:O:17:LYS:HA	1.83	0.41
15:O:32:LEU:HD23	15:O:32:LEU:C	2.45	0.41
16:R:15:TRP:CA	16:R:137:PRO:HB3	2.47	0.41
16:R:23:LYS:CE	16:R:28:LEU:CB	2.99	0.41
21:W:64:ILE:HD13	21:W:157:ALA:HB3	2.03	0.41
21:W:155:PRO:HG2	21:W:178:ILE:CD1	2.35	0.41
23:Y:61:ARG:HD3	23:Y:68:GLU:OE2	2.21	0.41
25:a:3:HIS:H	25:a:92:THR:HG21	1.82	0.41
26:b:138:GLU:HA	26:b:138:GLU:OE1	2.19	0.41
28:d:49:LEU:CD2	28:d:84:LEU:HD21	2.50	0.41
28:d:54:MET:HE1	28:d:84:LEU:HD21	2.03	0.41
28:d:92:ARG:O	28:d:96:ARG:HG2	2.20	0.41
30:f:17:ASN:HD21	30:f:34:THR:HB	1.86	0.41
32:h:44:ILE:CA	32:h:47:LEU:HD12	2.47	0.41
37:m:7:VAL:C	37:m:8:LYS:HG3	2.46	0.41
38:n:13:ALA:HB1	38:n:92:ASP:CG	2.42	0.41
38:n:26:VAL:HG11	38:n:28:HIS:NE2	2.35	0.41
38:n:76:ALA:C	38:n:78:ALA:N	2.77	0.41
38:n:105:LEU:O	38:n:109:ALA:CB	2.69	0.41
39:o:10:GLU:H	39:o:10:GLU:HG2	1.75	0.41
39:o:42:PHE:HD1	39:o:60:VAL:HG11	1.84	0.41
39:o:98:TYR:CE1	39:o:99:LEU:HD21	2.56	0.41
40:p:49:ARG:HH12	41:q:72:VAL:HG21	1.86	0.41
42:r:6:LYS:NZ	42:r:8:ARG:CB	2.80	0.41
43:s:45:ALA:C	43:s:49:LYS:HZ3	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:t:14:THR:H	44:t:68:ASN:HB3	1.86	0.41
44:t:25:LYS:HE3	44:t:25:LYS:CA	2.43	0.41
44:t:26:ASN:OD1	44:t:26:ASN:C	2.64	0.41
44:t:82:VAL:HG12	44:t:83:GLY:N	2.35	0.41
45:u:26:PHE:HE2	45:u:89:ILE:N	2.19	0.41
46:v:13:VAL:HG22	46:v:35:PHE:CE1	2.55	0.41
46:v:61:VAL:HG11	46:v:66:ASN:HB3	2.02	0.41
47:w:37:PHE:CZ	47:w:50:VAL:HG11	2.48	0.41
49:y:5:LYS:HZ3	49:y:35:VAL:C	2.28	0.41
2:B:73:ASP:HB3	2:B:76:ARG:CZ	2.50	0.41
3:C:13:LYS:HD2	9:I:390:G:H3'	2.02	0.41
4:D:18:ILE:H	4:D:45:ASP:CG	2.29	0.41
4:D:31:TYR:CD1	31:g:6:LEU:O	2.74	0.41
5:E:52:THR:CG2	5:E:54:ARG:HG2	2.51	0.41
7:G:21:SER:HB3	9:I:4363:G:P	2.61	0.41
8:H:18:PHE:CE1	30:f:72:VAL:CG1	3.03	0.41
9:I:68:G:H2'	9:I:69:U:C2	2.55	0.41
9:I:99:G:C2'	9:I:100:A:C8	3.03	0.41
9:I:208:U:O2'	9:I:209:C:P	2.78	0.41
9:I:218:U:H2'	9:I:219:G:C8	2.38	0.41
9:I:254:G:C6	9:I:255:U:C4	3.09	0.41
9:I:406:U:H1'	23:Y:153:ARG:HH11	1.81	0.41
9:I:468:C:C2	9:I:469:C:C5	3.09	0.41
9:I:544:C:C2'	9:I:545:A:O4'	2.67	0.41
9:I:1056:G:O3'	22:X:196:GLY:HA3	2.20	0.41
9:I:1088:G:H2'	9:I:1169:A:C2	2.56	0.41
9:I:1183:G:H2'	9:I:1183:G:N3	2.36	0.41
9:I:1228:A:P	32:h:112:ARG:CD	3.07	0.41
9:I:1280:C:H42	29:e:3:ARG:NH1	2.17	0.41
9:I:1421:G:C2'	9:I:1422:G:H5'	2.50	0.41
9:I:1562:U:H1'	9:I:1563:A:C8	2.56	0.41
9:I:1578:U:OP1	48:x:6:ARG:NH1	2.51	0.41
9:I:1616:C:H2'	9:I:1617:G:O4'	2.19	0.41
9:I:1620:U:C4	9:I:1649:A:C6	3.09	0.41
9:I:1629:C:O2'	9:I:1630:C:C5'	2.68	0.41
9:I:1642:A:C8	9:I:1642:A:C3'	3.02	0.41
9:I:1667:A:C2'	9:I:1668:G:C8	3.03	0.41
9:I:1669:G:C2	9:I:1670:U:C5	3.09	0.41
9:I:1691:A:C2'	9:I:1692:C:O5'	2.68	0.41
9:I:1703:A:H5''	9:I:1704:A:P	2.61	0.41
9:I:1730:G:O4'	9:I:1730:G:OP2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1731:A:H5''	9:I:1732:G:OP2	2.20	0.41
9:I:1772:A:OP1	9:I:1772:A:H8	2.03	0.41
9:I:1802:C:OP1	44:t:78:LYS:CE	2.68	0.41
9:I:1820:A:H2'	9:I:1820:A:N3	2.35	0.41
9:I:1929:A:C5	9:I:1930:A:N6	2.89	0.41
9:I:1979:A:O2'	9:I:1981:G:H5'	2.20	0.41
9:I:2152:U:OP1	9:I:2153:U:OP2	2.38	0.41
9:I:2175:A:C1'	13:M:62:GLN:HE22	2.33	0.41
9:I:2201:G:H2'	9:I:2202:U:H5''	2.03	0.41
9:I:2331:G:N7	9:I:2332:U:C4	2.89	0.41
9:I:2352:U:H5'	49:y:42:ALA:CB	2.50	0.41
9:I:2377:A:C2'	9:I:2394:A:N6	2.74	0.41
9:I:2430:A:H2'	9:I:2431:C:H6	1.85	0.41
9:I:2453:A:O2'	9:I:2454:A:O4'	2.27	0.41
9:I:2467:A:C4'	9:I:2682:U:H1'	2.50	0.41
9:I:2477:A:H62	9:I:2478:A:N6	2.09	0.41
9:I:2487:G:H2'	9:I:2488:C:O4'	2.21	0.41
9:I:2519:G:H8	9:I:2519:G:O5'	2.03	0.41
9:I:2587:G:C2	9:I:2593:G:O6	2.74	0.41
9:I:2680:G:C6	9:I:2681:G:C5	3.08	0.41
9:I:2719:G:O2'	9:I:2720:A:H5'	2.20	0.41
9:I:2737:C:C2	9:I:2738:A:C8	3.08	0.41
9:I:2754:A:O2'	9:I:2755:C:H5'	2.20	0.41
9:I:2841:A:C3'	9:I:2842:C:C5'	2.97	0.41
9:I:2898:C:O2	9:I:2898:C:C2'	2.69	0.41
9:I:3000:U:C2'	9:I:3001:C:O4'	2.64	0.41
9:I:3062:G:OP1	11:K:62:ARG:NH2	2.54	0.41
9:I:3202:C:O2	9:I:3202:C:H2'	2.20	0.41
9:I:3234:G:O2'	9:I:3235:C:C5'	2.67	0.41
9:I:3235:C:C4	9:I:3236:U:C5	3.08	0.41
9:I:3324:C:H2'	9:I:3325:G:C5'	2.50	0.41
9:I:3348:A:OP2	9:I:3382:G:N2	2.52	0.41
9:I:3349:U:O2	9:I:3350:U:C5	2.74	0.41
9:I:3350:U:C2'	9:I:3351:G:O5'	2.69	0.41
9:I:3355:G:C3'	9:I:3356:G:H8	2.33	0.41
9:I:3374:U:C4	9:I:3375:C:N4	2.88	0.41
9:I:3429:G:N1	9:I:3456:5MC:O2'	2.53	0.41
9:I:3507:A:C6	9:I:3508:A:N1	2.89	0.41
9:I:3531:A:O2'	9:I:3532:G:H5'	2.19	0.41
9:I:3569:U:C4	9:I:3732:G:C6	3.09	0.41
9:I:3581:G:C4	9:I:3582:A:N7	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3594:G:N1	9:I:3684:G:C6	2.89	0.41
9:I:3653:G:H2'	9:I:3654:C:C6	2.55	0.41
9:I:3693:A:OP2	47:w:36:ARG:HD3	2.21	0.41
9:I:3755:C:C2'	9:I:3821:A:C2	3.04	0.41
9:I:3786:U:C6	9:I:3835:G:C2	3.08	0.41
9:I:3791:A:H1'	9:I:3814:U:O2	2.20	0.41
9:I:3820:C:C2	9:I:3882:A:N7	2.88	0.41
9:I:3884:U:P	36:l:34:LYS:CD	3.09	0.41
9:I:3912:A:C5	9:I:3913:U:C5	3.08	0.41
9:I:3960:C:C4'	37:m:6:SER:HB2	2.50	0.41
9:I:4024:A:N6	15:O:171:LYS:NZ	2.60	0.41
9:I:4077:G:H2'	9:I:4078:U:H6	1.80	0.41
9:I:4142:G:N1	9:I:4167:G:C8	2.89	0.41
9:I:4156:A:O5'	9:I:4157:G:C8	2.74	0.41
9:I:4167:G:C2	9:I:4168:G:C5	3.09	0.41
9:I:4182:G:C6	9:I:4213:G:H2'	2.55	0.41
9:I:4187:G:C2	39:o:93:LYS:NZ	2.85	0.41
9:I:4226:G:H3'	9:I:4227:A:C4'	2.50	0.41
9:I:4234:A:OP2	9:I:4257:G:N1	2.51	0.41
9:I:4234:A:P	9:I:4257:G:H1	2.43	0.41
9:I:4254:C:O2	9:I:4254:C:H2'	2.20	0.41
9:I:4319:G:C4	9:I:4320:A:C8	3.08	0.41
9:I:4324:C:HO2'	9:I:4325:G:H5'	1.82	0.41
9:I:4331:A:H2'	9:I:4332:G:H1'	1.99	0.41
9:I:4401:G:H21	9:I:4423:MA6:C2	2.34	0.41
9:I:4405:C:OP2	9:I:4408:G:H2'	2.20	0.41
10:J:7:C:H3'	10:J:8:G:H5''	2.02	0.41
10:J:82:G:N1	10:J:93:A:C5	2.89	0.41
11:K:160:TYR:HB3	11:K:193:GLU:CB	2.50	0.41
12:L:1:MET:HE2	12:L:205:PRO:HB3	2.03	0.41
12:L:51:THR:CB	12:L:79:LEU:CD2	2.84	0.41
12:L:111:GLY:O	12:L:169:ARG:HA	2.18	0.41
12:L:193:VAL:CB	12:L:201:LEU:HD12	2.50	0.41
13:M:35:TYR:CE1	13:M:178:VAL:HG21	2.56	0.41
15:O:5:LYS:HD3	15:O:61:TRP:CH2	2.55	0.41
15:O:14:VAL:HG12	15:O:15:ASP:N	2.35	0.41
15:O:43:LYS:HB2	15:O:50:THR:OG1	2.21	0.41
15:O:160:GLY:C	15:O:162:ARG:HG3	2.46	0.41
16:R:23:LYS:NZ	16:R:27:ARG:O	2.52	0.41
16:R:55:ILE:HG13	16:R:123:LYS:HD2	2.02	0.41
17:S:12:ASP:OD1	17:S:85:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:S:19:VAL:HG11	17:S:86:LEU:HG	2.03	0.41
17:S:41:ILE:CD1	17:S:86:LEU:CD2	2.94	0.41
18:T:71:ALA:HA	18:T:74:THR:OG1	2.21	0.41
19:U:50:ARG:NH1	19:U:51:ARG:HA	2.36	0.41
19:U:99:GLY:HA2	45:u:81:PRO:C	2.46	0.41
23:Y:1:ALA:O	23:Y:2:ARG:HG3	2.21	0.41
23:Y:78:ALA:HB2	23:Y:89:LEU:CA	2.50	0.41
24:Z:74:HIS:ND1	24:Z:138:MET:HE1	2.36	0.41
24:Z:105:VAL:O	24:Z:108:VAL:HG22	2.20	0.41
25:a:3:HIS:HE1	25:a:65:GLU:HG3	1.79	0.41
25:a:29:ILE:HG22	25:a:34:GLY:C	2.46	0.41
27:c:45:ILE:C	27:c:63:LYS:HD2	2.45	0.41
30:f:48:PRO:O	30:f:51:ALA:N	2.53	0.41
36:l:37:THR:HG22	36:l:41:ARG:HH12	1.86	0.41
38:n:3:LYS:CD	38:n:6:ARG:NH2	2.82	0.41
38:n:70:ALA:HB1	38:n:104:ALA:CB	2.50	0.41
38:n:76:ALA:O	38:n:78:ALA:N	2.54	0.41
40:p:33:VAL:O	40:p:36:GLN:N	2.48	0.41
40:p:89:ILE:CG2	40:p:94:LEU:HD23	2.49	0.41
42:r:1:MET:SD	42:r:1:MET:C	3.04	0.41
42:r:55:ILE:HG22	42:r:59:GLU:CD	2.43	0.41
45:u:18:ARG:O	45:u:21:ARG:HB2	2.19	0.41
45:u:71:LYS:HB3	45:u:94:ALA:OXT	2.20	0.41
46:v:28:VAL:HG21	46:v:35:PHE:CG	2.54	0.41
46:v:36:HIS:CD2	46:v:67:ARG:HG3	2.54	0.41
46:v:49:LEU:HB3	46:v:70:ILE:HD12	2.02	0.41
2:B:81:ILE:HG13	2:B:82:GLU:N	2.36	0.41
4:D:17:SER:N	9:I:272:U:C4'	2.73	0.41
4:D:18:ILE:HD13	4:D:50:CYS:C	2.44	0.41
5:E:38:ARG:HG2	9:I:734:C:C5'	2.47	0.41
5:E:50:PRO:HD3	25:a:48:ALA:CB	2.51	0.41
6:F:49:VAL:CG2	6:F:69:LEU:HD22	2.51	0.41
7:G:2:ILE:HA	7:G:6:LYS:HD2	2.02	0.41
9:I:74:G:H1	9:I:94:C:N4	2.19	0.41
9:I:156:U:C2	9:I:164:G:N1	2.88	0.41
9:I:408:U:O2	9:I:433:U:C2	2.74	0.41
9:I:454:G:C6	9:I:477:A:N6	2.89	0.41
9:I:475:U:O5'	9:I:475:U:C6	2.67	0.41
9:I:504:G:OP2	9:I:534:A:C5'	2.69	0.41
9:I:701:A:H4'	9:I:702:G:OP2	2.20	0.41
9:I:824:A:O2'	9:I:825:C:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:931:C:OP1	26:b:2:ARG:HD3	2.20	0.41
9:I:955:U:O2	9:I:1224:A:C2	2.72	0.41
9:I:966:5MC:CM5	9:I:967:A:O2'	2.68	0.41
9:I:993:A:C4	9:I:1215:A:H1'	2.55	0.41
9:I:1010:C:N4	9:I:1018:A:H61	2.18	0.41
9:I:1056:G:H1'	22:X:194:VAL:HG11	2.03	0.41
9:I:1096:C:H5'	21:W:136:ARG:HE	1.86	0.41
9:I:1183:G:C6	9:I:1184:G:N7	2.89	0.41
9:I:1347:U:O3'	28:d:119:ARG:HB2	2.21	0.41
9:I:1407:A:HO2'	9:I:3407:A:H8	1.63	0.41
9:I:1432:A:N6	9:I:4371:C:C2	2.86	0.41
9:I:1471:C:C4'	39:o:1:SER:OG	2.68	0.41
9:I:1539:G:H3'	9:I:1540:U:C6	2.56	0.41
9:I:1626:A:C5	9:I:1627:A:C2	3.08	0.41
9:I:1750:G:O5'	18:T:59:ARG:HD3	2.21	0.41
9:I:1840:A:C4	9:I:1841:C:C1'	3.04	0.41
9:I:1856:G:C8	9:I:1857:C:C6	3.08	0.41
9:I:1874:A:O2'	9:I:1875:G:C5'	2.69	0.41
9:I:1935:C:H2'	9:I:1935:C:O2	2.20	0.41
9:I:1955:C:C4	9:I:1972:A:C4	3.09	0.41
9:I:2038:A:H5''	16:R:7:LYS:HZ2	1.77	0.41
9:I:2079:G:C1'	9:I:3511:U:H3	2.34	0.41
9:I:2125:G:H8	9:I:2125:G:O5'	2.04	0.41
9:I:2210:U:C2	9:I:2222:A:C2	3.08	0.41
9:I:2243:A:H2'	9:I:2244:U:C6	2.56	0.41
9:I:2245:1MG:N2	9:I:2253:A:C5	2.89	0.41
9:I:2248:G:O5'	42:r:89:ALA:HB2	2.20	0.41
9:I:2378:A:N1	9:I:2394:A:C1'	2.84	0.41
9:I:2400:U:H2'	9:I:2401:G:H5''	2.02	0.41
9:I:2469:A:N3	9:I:2469:A:H2'	2.35	0.41
9:I:2504:A:C8	9:I:2504:A:C3'	3.04	0.41
9:I:2515:A:HO2'	9:I:2517:U:C4'	2.34	0.41
9:I:2545:G:O6	9:I:2602:U:C2	2.65	0.41
9:I:2556:G:O4'	9:I:2582:A:N7	2.54	0.41
9:I:2573:C:O2	9:I:2574:A:C8	2.74	0.41
9:I:2618:G:N2	37:m:5:ALA:HB1	2.35	0.41
9:I:2750:G:C6	9:I:2751:C:N4	2.88	0.41
9:I:2791:C:H2'	9:I:2792:C:C6	2.55	0.41
9:I:2817:C:N3	9:I:2818:G:N7	2.69	0.41
9:I:2846:U:O2'	9:I:2847:A:H5'	2.21	0.41
9:I:2990:A:C3'	9:I:2992:C:C4	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3091:A:O5'	9:I:3092:A:C5'	2.68	0.41
9:I:3093:U:H2'	9:I:3094:C:H6	1.85	0.41
9:I:3333:G:N2	9:I:3334:G:C1'	2.83	0.41
9:I:3339:G:C6	9:I:3390:G:C6	3.09	0.41
9:I:3387:C:O5'	9:I:3387:C:H6	2.04	0.41
9:I:3403:C:O2	9:I:3403:C:C2'	2.66	0.41
9:I:3431:A:C6	9:I:3433:5MU:N3	2.89	0.41
9:I:3489:U:C2'	9:I:3490:C:OP1	2.68	0.41
9:I:3539:C:C2'	9:I:3540:G:O5'	2.69	0.41
9:I:3544:C:H1'	12:L:161:MET:HE1	2.03	0.41
9:I:3608:A:H61	9:I:3664:A:H61	1.67	0.41
9:I:3693:A:H2	9:I:3720:C:H41	1.68	0.41
9:I:3704:U:C4	9:I:3706:A:C4	3.09	0.41
9:I:3720:C:H2'	9:I:3721:A:C5'	2.51	0.41
9:I:3737:U:C2	9:I:3738:U:C5	3.09	0.41
9:I:3796:U:H2'	14:N:122:ASP:HA	2.02	0.41
9:I:3835:G:C8	9:I:3835:G:H3'	2.55	0.41
9:I:3891:G:N1	9:I:3914:C:C4	2.89	0.41
9:I:3893:G:C2'	9:I:3894:G:C5'	2.93	0.41
9:I:3966:G:C5'	9:I:3967:U:H5''	2.49	0.41
9:I:4004:C:C4	9:I:4005:U:O4	2.74	0.41
9:I:4167:G:N3	9:I:4167:G:C2'	2.81	0.41
9:I:4174:U:H5''	12:L:8:LYS:NZ	2.36	0.41
9:I:4198:C:C5	9:I:4198:C:OP2	2.74	0.41
9:I:4278:U:H4'	12:L:42:ASN:CG	2.45	0.41
9:I:4293:A:C6	9:I:4295:G:C5	3.08	0.41
9:I:4332:G:N3	9:I:4332:G:C2'	2.82	0.41
9:I:4334:C:C1'	20:V:91:ALA:HB1	2.30	0.41
10:J:4:U:O2	10:J:4:U:C2'	2.63	0.41
10:J:27:C:C4	10:J:28:A:N7	2.89	0.41
10:J:46:C:OP2	10:J:46:C:H6	2.04	0.41
11:K:83:ASP:OD1	11:K:83:ASP:C	2.64	0.41
11:K:118:GLY:C	11:K:120:ASP:N	2.79	0.41
11:K:140:VAL:CG2	11:K:191:LEU:CD2	2.96	0.41
12:L:33:ARG:N	12:L:96:ILE:HD12	2.36	0.41
13:M:7:ASP:OD1	13:M:7:ASP:C	2.64	0.41
13:M:124:PHE:CG	13:M:148:ILE:HG21	2.54	0.41
13:M:128:ALA:HB3	13:M:130:LYS:HG2	2.03	0.41
14:N:163:GLU:O	14:N:166:ARG:HB2	2.21	0.41
15:O:156:TYR:CD1	15:O:173:ALA:HA	2.56	0.41
16:R:17:VAL:HG21	16:R:130:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:S:8:LEU:CB	17:S:19:VAL:HG22	2.46	0.41
17:S:19:VAL:HG12	17:S:86:LEU:HD11	2.03	0.41
19:U:20:LEU:HD23	19:U:21:ALA:C	2.45	0.41
19:U:69:PRO:HA	19:U:94:ALA:HB2	2.02	0.41
20:V:10:LEU:O	20:V:11:ASN:C	2.63	0.41
20:V:32:GLU:HB2	20:V:120:GLU:HG2	2.03	0.41
20:V:33:ILE:HB	20:V:118:ARG:NH1	2.32	0.41
20:V:63:ARG:HG2	20:V:80:PHE:CE2	2.56	0.41
20:V:75:ILE:O	20:V:78:LYS:HB3	2.19	0.41
20:V:92:GLY:O	20:V:94:TYR:CE1	2.73	0.41
21:W:82:LEU:HD11	21:W:88:PHE:HE1	1.85	0.41
21:W:98:LEU:HA	21:W:101:TRP:HE3	1.85	0.41
21:W:101:TRP:CZ2	21:W:151:MET:HG3	2.56	0.41
21:W:110:ARG:HG3	21:W:141:LEU:CD1	2.50	0.41
22:X:133:MET:CE	22:X:152:VAL:CG1	2.90	0.41
25:a:7:VAL:O	25:a:87:SER:CB	2.69	0.41
26:b:75:LYS:HD3	26:b:76:SER:O	2.21	0.41
29:e:7:LYS:NZ	29:e:65:THR:HG22	2.35	0.41
31:g:23:LEU:HD12	31:g:29:LYS:CG	2.51	0.41
31:g:41:PRO:HG2	31:g:45:ASN:O	2.21	0.41
31:g:42:LYS:N	31:g:42:LYS:HD2	2.34	0.41
36:l:28:LEU:N	36:l:28:LEU:CD2	2.83	0.41
38:n:77:VAL:HG12	38:n:114:LEU:CD2	2.51	0.41
39:o:98:TYR:C	39:o:102:ARG:HD2	2.46	0.41
40:p:69:ARG:O	40:p:69:ARG:NE	2.39	0.41
41:q:65:ALA:O	41:q:95:ASP:N	2.54	0.41
42:r:2:GLU:OE1	42:r:106:VAL:CG1	2.69	0.41
42:r:74:ILE:HD11	42:r:105:VAL:HG23	2.01	0.41
44:t:24:VAL:HG11	44:t:26:ASN:O	2.20	0.41
45:u:70:ILE:O	45:u:70:ILE:HG23	2.20	0.41
49:y:5:LYS:O	49:y:57:GLU:O	2.39	0.41
2:B:1:SER:HB2	9:I:738:C:O2'	2.21	0.41
3:C:57:ILE:HA	3:C:60:TRP:HB2	2.01	0.41
4:D:35:ILE:CG2	4:D:36:LYS:N	2.84	0.41
4:D:58:ILE:HD12	4:D:70:TRP:CE3	2.56	0.41
4:D:78:LYS:HE2	4:D:78:LYS:HA	2.03	0.41
8:H:38:GLU:HB2	30:f:111:PRO:C	2.45	0.41
9:I:104:G:N2	9:I:378:C:O2'	2.54	0.41
9:I:201:G:O6	9:I:202:G:O6	2.39	0.41
9:I:216:C:O5'	9:I:216:C:H6	2.03	0.41
9:I:275:G:C2	9:I:276:C:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:335:A:C2'	9:I:336:G:O5'	2.69	0.41
9:I:336:G:C2	9:I:337:A:C5	3.08	0.41
9:I:464:A:H2'	9:I:465:A:O4'	2.20	0.41
9:I:500:C:C2	9:I:501:A:C8	3.09	0.41
9:I:502:C:OP1	31:g:112:ALA:HB2	2.21	0.41
9:I:511:U:H2'	9:I:512:C:H6	1.85	0.41
9:I:535:C:H2'	9:I:536:G:C8	2.56	0.41
9:I:839:C:C2	9:I:841:U:H5''	2.55	0.41
9:I:932:G:N1	9:I:934:A:H1'	2.36	0.41
9:I:974:A:O4'	9:I:1357:U:H1'	2.21	0.41
9:I:984:C:H2'	9:I:985:U:O4'	2.21	0.41
9:I:1095:C:HO2'	9:I:1169:A:C3'	2.19	0.41
9:I:1146:C:C2	9:I:1147:U:H5	2.38	0.41
9:I:1150:A:C1'	29:e:37:PRO:HG3	2.50	0.41
9:I:1227:C:H2'	9:I:1228:A:C8	2.56	0.41
9:I:1308:G:O2'	32:h:72:ILE:HG23	2.20	0.41
9:I:1349:A:N6	9:I:1372:G:C2	2.88	0.41
9:I:1454:A:C6	9:I:1455:U:C4	3.09	0.41
9:I:1509:G:N2	9:I:4123:U:C2	2.89	0.41
9:I:1577:G:C6	9:I:1578:U:C2	3.08	0.41
9:I:1667:A:C2'	9:I:1668:G:O4'	2.57	0.41
9:I:1770:A:C5	9:I:1868:A:H2	2.39	0.41
9:I:1770:A:N1	9:I:1869:U:C1'	2.84	0.41
9:I:1947:A:C5	9:I:1973:G:C5	3.08	0.41
9:I:1980:A:H5''	44:t:43:LYS:CE	2.51	0.41
9:I:1992:A:C5	9:I:1993:G:C5	3.09	0.41
9:I:1994:G:H5'	42:r:6:LYS:CE	2.49	0.41
9:I:2207:G:H2'	9:I:2208:G:C8	2.56	0.41
9:I:2223:C:C4	9:I:2224:U:C4	3.08	0.41
9:I:2365:C:C6	9:I:2365:C:OP2	2.74	0.41
9:I:2448:G:C4	9:I:2449:PSU:C6	3.09	0.41
9:I:2474:A:H62	9:I:2475:A:N6	2.19	0.41
9:I:2523:A:C6	9:I:2524:C:C2	3.08	0.41
9:I:2546:C:O2'	9:I:2547:C:H5''	2.21	0.41
9:I:2566:C:H6	9:I:2566:C:O5'	2.03	0.41
9:I:2612:C:C2	9:I:2613:U:C5	3.08	0.41
9:I:2614:G:C6	9:I:2615:C:N3	2.89	0.41
9:I:2621:A:C8	9:I:4012:A:C6	3.09	0.41
9:I:2762:A:C6	9:I:2763:A:C4	3.09	0.41
9:I:2832:G:C2'	9:I:2833:G:O5'	2.68	0.41
9:I:2908:C:C3'	9:I:2909:U:H6	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2917:G:N1	9:I:3070:U:C2	2.89	0.41
9:I:2970:U:C6	9:I:2970:U:C3'	3.03	0.41
9:I:2990:A:C2	9:I:3071:C:O2	2.65	0.41
9:I:3025:C:O2	9:I:3035:C:O2	2.38	0.41
9:I:3078:U:C2'	9:I:3079:C:C5'	2.92	0.41
9:I:3158:A:C4	9:I:4220:A:C6	3.09	0.41
9:I:3173:A:C4	9:I:3174:U:C5	3.09	0.41
9:I:3238:A:C2'	9:I:3239:A:C8	3.02	0.41
9:I:3267:A:C2	9:I:3268:C:N1	2.89	0.41
9:I:3306:U:O2'	11:K:43:ASN:HB2	2.21	0.41
9:I:3392:U:H2'	9:I:3395:A:C8	2.54	0.41
9:I:3424:G:H22	9:I:3463:A:P	2.43	0.41
9:I:3507:A:O2'	9:I:3508:A:H5'	2.20	0.41
9:I:3510:U:H1'	33:i:2:VAL:HG11	2.02	0.41
9:I:3572:C:H2'	9:I:3573:U:O4'	2.19	0.41
9:I:3695:G:C5	9:I:3696:U:C5	3.08	0.41
9:I:3760:A:C4'	9:I:3761:A:C2	3.03	0.41
9:I:3805:A:C2	14:N:76:PHE:CB	2.93	0.41
9:I:3814:U:C1'	9:I:3816:A:N7	2.81	0.41
9:I:3835:G:C2'	9:I:3836:C:H5'	2.51	0.41
9:I:3849:G:H4'	46:v:14:LYS:HD2	2.02	0.41
9:I:3883:G:C8	9:I:3883:G:C3'	3.04	0.41
9:I:3888:C:O2'	9:I:3889:C:H5'	2.21	0.41
9:I:3903:G:O6	9:I:3904:G:C5	2.74	0.41
9:I:3921:C:OP1	9:I:3922:G:OP1	2.38	0.41
9:I:3959:C:HO2'	9:I:3960:C:P	2.43	0.41
9:I:4022:U:O2	9:I:4030:G:C2	2.74	0.41
9:I:4041:A:C1'	9:I:4060:A:C6	3.04	0.41
9:I:4097:G:C4	9:I:4098:U:C5	3.09	0.41
9:I:4226:G:H5''	9:I:4227:A:C1'	2.49	0.41
9:I:4312:U:O2	9:I:4312:U:C2'	2.69	0.41
9:I:4341:U:C4	9:I:4342:G:N1	2.89	0.41
10:J:22:G:C2	10:J:60:G:N7	2.88	0.41
10:J:34:C:OP2	10:J:38:A:N6	2.54	0.41
10:J:98:A:N7	10:J:99:G:C6	2.89	0.41
10:J:98:A:C5	10:J:99:G:C4	3.09	0.41
10:J:101:G:C6	10:J:102:U:C4	3.09	0.41
11:K:80:LEU:HD22	11:K:91:ALA:CA	2.51	0.41
13:M:88:ARG:CG	13:M:89:PRO:HD2	2.50	0.41
13:M:130:LYS:N	13:M:160:ALA:HA	2.36	0.41
13:M:131:THR:HA	13:M:164:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:33:ILE:HD11	14:N:99:PHE:CE1	2.53	0.41
14:N:73:VAL:HG23	14:N:73:VAL:O	2.20	0.41
14:N:122:ASP:OD2	14:N:126:ASN:ND2	2.48	0.41
15:O:88:LEU:CD2	15:O:93:TYR:HD2	2.33	0.41
15:O:98:LYS:NZ	15:O:113:ASP:OD1	2.54	0.41
16:R:31:GLU:HB3	16:R:142:ILE:CG1	2.50	0.41
16:R:55:ILE:HG12	16:R:132:HIS:CE1	2.56	0.41
17:S:81:GLY:O	39:o:67:GLU:OE2	2.39	0.41
17:S:113:MET:O	17:S:113:MET:SD	2.79	0.41
19:U:44:ARG:NH1	19:U:92:TRP:O	2.53	0.41
21:W:110:ARG:HG3	21:W:141:LEU:HD11	2.02	0.41
22:X:6:PRO:HG2	22:X:183:TYR:HB3	2.03	0.41
24:Z:37:VAL:HA	24:Z:62:MET:HE1	2.01	0.41
24:Z:72:LEU:HB3	24:Z:89:PRO:HB3	2.03	0.41
24:Z:93:GLY:C	24:Z:95:GLY:N	2.78	0.41
28:d:19:LYS:HD3	28:d:19:LYS:C	2.45	0.41
30:f:54:ALA:O	30:f:58:CYS:N	2.43	0.41
31:g:22:ALA:HB3	31:g:94:TYR:CZ	2.55	0.41
32:h:67:ASP:HA	32:h:70:ARG:HE	1.86	0.41
32:h:70:ARG:HD2	32:h:70:ARG:C	2.45	0.41
38:n:62:LYS:HB3	38:n:66:ASN:HD21	1.85	0.41
39:o:19:PHE:CE2	39:o:58:PHE:HB2	2.56	0.41
40:p:49:ARG:O	40:p:53:LYS:HG3	2.21	0.41
40:p:54:ARG:HA	40:p:57:ARG:CG	2.51	0.41
40:p:59:LEU:HG	40:p:63:ARG:HD3	2.03	0.41
41:q:87:GLN:CD	41:q:87:GLN:C	2.89	0.41
43:s:10:VAL:CG2	43:s:34:VAL:HB	2.51	0.41
45:u:83:LYS:CD	45:u:85:LYS:HD2	2.48	0.41
46:v:42:GLY:N	46:v:52:LYS:HD2	2.36	0.41
47:w:3:VAL:N	47:w:32:LEU:HD21	2.35	0.41
47:w:71:ARG:HG3	47:w:71:ARG:HH11	1.86	0.41
48:x:1:LYS:HG3	48:x:51:ARG:HB2	2.03	0.41
48:x:3:LYS:NZ	48:x:6:ARG:HH12	2.16	0.41
49:y:1:ALA:H1	49:y:38:GLU:HB3	1.79	0.41
1:A:4:SER:HB3	9:I:1214:G:H3'	1.98	0.41
1:A:12:ARG:NE	1:A:58:ARG:HG2	2.36	0.41
1:A:13:VAL:HA	1:A:59:GLN:CD	2.46	0.41
2:B:52:ARG:HG2	2:B:55:LEU:HD23	2.02	0.41
3:C:12:LYS:O	3:C:13:LYS:HB2	2.20	0.41
3:C:63:GLN:HB2	9:I:226:G:H2'	2.02	0.41
4:D:12:ASP:CA	4:D:19:VAL:CG1	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:20:VAL:HG22	4:D:56:VAL:CG1	2.41	0.41
4:D:68:LYS:HD3	9:I:253:G:N7	2.35	0.41
5:E:7:ILE:HG12	25:a:45:ARG:NH1	2.36	0.41
5:E:25:ILE:HG13	5:E:26:THR:N	2.36	0.41
5:E:46:LEU:O	25:a:47:LEU:HD13	2.20	0.41
6:F:9:ILE:HG23	6:F:36:SER:CB	2.29	0.41
8:H:14:ALA:HB2	8:H:17:ARG:HH22	1.85	0.41
8:H:21:SER:O	30:f:100:ASP:HB2	2.20	0.41
8:H:28:LEU:N	30:f:77:PRO:HD3	2.32	0.41
9:I:27:A:H3'	9:I:28:U:C5	2.56	0.41
9:I:66:C:O2'	9:I:170:A:O2'	2.24	0.41
9:I:144:G:C2	9:I:145:G:N7	2.89	0.41
9:I:245:A:C2	9:I:281:A:C4	3.09	0.41
9:I:319:A:C6	9:I:333:C:C4	3.09	0.41
9:I:334:C:C2	9:I:335:A:N7	2.89	0.41
9:I:456:G:C5	9:I:457:U:C4	3.09	0.41
9:I:667:G:H2'	9:I:668:G:O4'	2.21	0.41
9:I:670:G:H2'	9:I:670:G:N3	2.36	0.41
9:I:684:G:O2'	9:I:685:U:H5'	2.19	0.41
9:I:711:A:C2	9:I:712:G:C5	3.09	0.41
9:I:726:G:N2	9:I:729:G:C8	2.89	0.41
9:I:731:C:C2'	9:I:732:G:H5'	2.51	0.41
9:I:739:U:C2'	9:I:740:G:H5'	2.51	0.41
9:I:850:G:C2'	9:I:851:G:H5'	2.51	0.41
9:I:859:A:H3'	9:I:860:G:H8	1.86	0.41
9:I:919:U:O2'	9:I:920:U:O5'	2.39	0.41
9:I:962:G:O2'	29:e:52:HIS:CE1	2.73	0.41
9:I:975:G:OP2	9:I:1357:U:O2'	2.32	0.41
9:I:995:A:C2	9:I:1045:A:H4'	2.55	0.41
9:I:996:U:N3	9:I:997:C:H5	2.18	0.41
9:I:1024:U:H4'	9:I:1025:G:O4'	2.21	0.41
9:I:1052:G:C6	9:I:1199:C:H5''	2.56	0.41
9:I:1057:G:H2'	9:I:1058:C:C1'	2.51	0.41
9:I:1156:A:H62	9:I:1177:G:H1'	1.83	0.41
9:I:1187:A:H8	9:I:1187:A:O5'	2.04	0.41
9:I:1230:G:O3'	28:d:125:SER:HB2	2.20	0.41
9:I:1308:G:H4'	32:h:76:ILE:CG1	2.50	0.41
9:I:1359:A:OP1	9:I:1359:A:H8	2.04	0.41
9:I:1381:C:H1'	26:b:78:ARG:HD2	2.03	0.41
9:I:1386:G:N3	9:I:1387:C:C5	2.89	0.41
9:I:1404:G:C2	9:I:1405:U:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1425:G:H2'	9:I:1426:C:H6	1.85	0.41
9:I:1426:C:C2	9:I:1427:A:N7	2.89	0.41
9:I:1477:U:C4	9:I:1478:A:C5	3.09	0.41
9:I:1505:A:O5'	9:I:1505:A:C8	2.70	0.41
9:I:1521:A:N1	9:I:2020:G:C6	2.88	0.41
9:I:1560:G:C8	9:I:1562:U:C4	3.09	0.41
9:I:1567:U:H2'	9:I:1568:G:H5'	2.02	0.41
9:I:1578:U:H6	9:I:1578:U:O5'	2.04	0.41
9:I:1585:G:O6	9:I:1598:G:C6	2.74	0.41
9:I:1598:G:C4	9:I:1599:U:C2	3.09	0.41
9:I:1652:A:C6	9:I:1675:G:N1	2.89	0.41
9:I:1654:U:N3	9:I:1655:A:C8	2.89	0.41
9:I:1721:A:N1	9:I:1766:G:P	2.93	0.41
9:I:1777:G:O2'	9:I:1778:A:OP2	2.38	0.41
9:I:1787:G:N3	9:I:1854:A:C1'	2.84	0.41
9:I:1813:G:C2	9:I:1814:C:C5	3.08	0.41
9:I:1829:G:O2'	44:t:15:GLY:HA2	2.21	0.41
9:I:1833:G:C4	9:I:1834:C:C5	3.09	0.41
9:I:1835:C:H4'	9:I:1836:C:OP1	2.20	0.41
9:I:1871:A:C8	9:I:1873:U:C2	3.09	0.41
9:I:1924:G:C2	9:I:1925:G:C5	3.08	0.41
9:I:1949:A:C4	9:I:1950:G:C8	3.08	0.41
9:I:1983:A:H3'	9:I:1984:C:H6	1.85	0.41
9:I:1989:G:O2'	9:I:1991:G:C8	2.70	0.41
9:I:1997:A:C2	9:I:1998:G:N9	2.89	0.41
9:I:2001:A:N6	9:I:2002:A:C6	2.89	0.41
9:I:2053:G:C6	9:I:2054:U:C4	3.09	0.41
9:I:2104:G:HO2'	9:I:2105:G:C5'	2.16	0.41
9:I:2168:A:C5	9:I:2170:A:C5	3.09	0.41
9:I:2214:U:O2	9:I:2217:C:C5	2.74	0.41
9:I:2511:G:H2'	9:I:2511:G:N3	2.35	0.41
9:I:2520:G:O2'	9:I:2521:A:O5'	2.36	0.41
9:I:2537:C:H2'	9:I:2538:C:C6	2.55	0.41
9:I:2594:C:C2'	9:I:2595:U:O4'	2.58	0.41
9:I:2631:G:C2'	9:I:2632:G:C5'	2.98	0.41
9:I:2632:G:H2'	9:I:2633:G:O5'	2.21	0.41
9:I:2638:A:C2	9:I:2639:C:C4	3.09	0.41
9:I:2646:C:C6	9:I:2646:C:OP2	2.73	0.41
9:I:2657:G:C2	9:I:2658:C:C6	3.09	0.41
9:I:2660:G:N1	9:I:2677:U:N3	2.68	0.41
9:I:2684:G:H2'	9:I:2685:G:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2722:G:C6	9:I:2723:C:C4	3.09	0.41
9:I:2727:C:C2	9:I:2728:U:C6	3.09	0.41
9:I:2776:U:H2'	9:I:2777:G:O4'	2.20	0.41
9:I:2778:A:C3'	9:I:2779:A:C8	3.03	0.41
9:I:2815:A:C6	9:I:2816:A:C5	3.08	0.41
9:I:2851:C:H2'	9:I:2852:G:O4'	2.21	0.41
9:I:2863:G:C4	9:I:2864:C:C5	3.09	0.41
9:I:2919:G:OP2	9:I:2919:G:H8	2.04	0.41
9:I:2939:G:C2'	9:I:2940:C:H5'	2.50	0.41
9:I:2971:A:N1	9:I:3051:C:H1'	2.36	0.41
9:I:2992:C:C4	9:I:2993:C:N4	2.89	0.41
9:I:3009:A:P	9:I:3051:C:O5'	2.79	0.41
9:I:3011:G:N7	9:I:3226:C:N3	2.69	0.41
9:I:3032:G:C6	9:I:3033:U:C4	3.09	0.41
9:I:3048:U:N3	9:I:3128:A:C6	2.88	0.41
9:I:3061:G:C6	11:K:25:LYS:CD	2.89	0.41
9:I:3079:C:C3'	9:I:3080:A:H8	2.26	0.41
9:I:3081:G:C3'	9:I:3082:G:N7	2.83	0.41
9:I:3082:G:C8	9:I:3082:G:O5'	2.73	0.41
9:I:3090:A:H2'	9:I:3091:A:O4'	2.21	0.41
9:I:3158:A:H2'	9:I:3159:A:H5'	2.03	0.41
9:I:3189:G:N3	9:I:3189:G:C3'	2.77	0.41
9:I:3206:U:H2'	9:I:3207:A:C8	2.56	0.41
9:I:3216:A:C8	9:I:3232:G:N3	2.88	0.41
9:I:3285:A:N3	9:I:3285:A:H2'	2.34	0.41
9:I:3299:A:C2'	9:I:3300:C:O5'	2.69	0.41
9:I:3308:G:O5'	9:I:3309:A:C2'	2.68	0.41
9:I:3312:U:C4	11:K:152:GLN:NE2	2.89	0.41
9:I:3324:C:H2'	9:I:3325:G:H5'	2.01	0.41
9:I:3338:C:H2'	9:I:3339:G:H8	1.86	0.41
9:I:3348:A:P	9:I:3349:U:H5	2.43	0.41
9:I:3350:U:O2	9:I:3350:U:H2'	2.21	0.41
9:I:3364:C:H2'	9:I:3365:A:C5	2.56	0.41
9:I:3377:U:H2'	9:I:3377:U:O2	2.19	0.41
9:I:3390:G:N2	9:I:3391:G:H1'	2.36	0.41
9:I:3439:G:C2	9:I:3457:U:O4	2.74	0.41
9:I:3522:U:H2'	9:I:3523:G:C8	2.56	0.41
9:I:3544:C:H1'	12:L:161:MET:CE	2.51	0.41
9:I:3554:A:O2'	9:I:3555:G:OP2	2.38	0.41
9:I:3576:A:H2'	9:I:3577:G:C5'	2.51	0.41
9:I:3594:G:O2'	9:I:3595:A:C5'	2.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3604:G:P	9:I:3612:U:H3	2.44	0.41
9:I:3656:G:H4'	9:I:3657:A:OP1	2.18	0.41
9:I:3696:U:O2	9:I:3715:G:C2	2.73	0.41
9:I:3715:G:C6	9:I:3716:C:C4	3.09	0.41
9:I:3772:A:P	19:U:10:ARG:CZ	3.09	0.41
9:I:3783:G:C4	9:I:3784:G:H1'	2.52	0.41
9:I:3850:U:H5''	46:v:10:ARG:CZ	2.50	0.41
9:I:3859:G:O2'	46:v:50:PHE:HZ	2.03	0.41
9:I:3869:G:C3'	9:I:3871:A:OP2	2.68	0.41
9:I:3871:A:N3	9:I:3872:A:H1'	2.34	0.41
9:I:3964:G:C5	9:I:3965:A:C8	3.09	0.41
9:I:3969:C:H5''	9:I:3970:A:OP1	2.21	0.41
9:I:3976:A:H2'	9:I:3977:C:O4'	2.21	0.41
9:I:4020:G:C6	9:I:4031:U:N3	2.78	0.41
9:I:4021:C:C2	9:I:4022:U:C5	3.09	0.41
9:I:4024:A:N6	15:O:155:PRO:HB3	2.36	0.41
9:I:4024:A:H5'	15:O:174:LYS:HG2	2.02	0.41
9:I:4063:G:N2	9:I:4064:G:N2	2.68	0.41
9:I:4076:G:OP2	9:I:4077:G:OP2	2.38	0.41
9:I:4151:A:OP1	9:I:4153:G:O6	2.39	0.41
9:I:4162:G:C1'	15:O:110:HIS:HD2	2.34	0.41
9:I:4176:A:H5''	39:o:55:HIS:CD2	2.56	0.41
9:I:4191:G:H2'	9:I:4192:U:N1	2.35	0.41
9:I:4203:G:H2'	9:I:4204:C:O4'	2.20	0.41
9:I:4203:G:C5	9:I:4204:C:C4	3.08	0.41
9:I:4240:U:OP1	15:O:141:GLY:HA3	2.20	0.41
9:I:4321:C:N3	9:I:4322:G:C8	2.89	0.41
9:I:4422:MA6:H103	9:I:4423:MA6:H102	2.03	0.41
10:J:21:U:H3'	10:J:21:U:C6	2.56	0.41
10:J:29:C:H3'	10:J:30:C:H5	1.86	0.41
10:J:41:C:C1'	14:N:63:LYS:O	2.63	0.41
10:J:46:C:OP2	10:J:46:C:C6	2.74	0.41
10:J:56:A:O3'	10:J:57:A:H8	2.04	0.41
10:J:108:A:C5	10:J:109:C:C4	3.09	0.41
10:J:112:C:H2'	10:J:113:C:C5	2.56	0.41
11:K:61:TYR:CG	11:K:62:ARG:N	2.88	0.41
11:K:75:ALA:HB1	11:K:94:LEU:O	2.21	0.41
11:K:138:SER:OG	11:K:191:LEU:HD12	2.21	0.41
11:K:146:LYS:HB2	11:K:149:LYS:HD2	2.03	0.41
11:K:194:VAL:HG13	11:K:194:VAL:O	2.21	0.41
11:K:249:VAL:HG13	11:K:254:LYS:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:84:LEU:HA	12:L:88:GLU:CG	2.51	0.41
13:M:37:ALA:C	13:M:39:ALA:H	2.28	0.41
14:N:55:ASP:HA	14:N:140:ILE:CD1	2.51	0.41
14:N:56:LEU:CD2	14:N:151:LEU:HD13	2.49	0.41
14:N:90:LEU:HD12	14:N:98:PHE:CG	2.56	0.41
14:N:107:VAL:CB	14:N:110:ILE:HD12	2.50	0.41
14:N:109:ARG:NE	14:N:136:ILE:O	2.54	0.41
14:N:166:ARG:O	14:N:170:ALA:N	2.54	0.41
15:O:40:VAL:C	15:O:54:ARG:HE	2.28	0.41
16:R:7:LYS:C	16:R:11:VAL:HG23	2.45	0.41
16:R:60:ASP:OD2	16:R:61:LYS:CD	2.68	0.41
16:R:134:ALA:C	16:R:136:GLN:H	2.29	0.41
17:S:25:LEU:HD12	17:S:38:ILE:CG2	2.51	0.41
17:S:68:GLY:CA	17:S:79:PHE:N	2.82	0.41
18:T:79:LEU:O	18:T:82:LEU:HG	2.21	0.41
19:U:44:ARG:CA	19:U:47:GLU:CD	2.93	0.41
19:U:112:LEU:HA	19:U:115:GLU:OE1	2.21	0.41
20:V:3:HIS:O	20:V:5:LYS:HD3	2.20	0.41
20:V:59:SER:CA	20:V:63:ARG:CZ	2.98	0.41
23:Y:149:LYS:HA	23:Y:177:MET:CE	2.47	0.41
24:Z:60:ARG:HH21	24:Z:62:MET:H	1.69	0.41
24:Z:60:ARG:CG	24:Z:61:ASN:H	2.29	0.41
25:a:2:ARG:HD2	25:a:4:TYR:OH	2.19	0.41
25:a:8:PHE:HB2	25:a:84:VAL:HG23	2.02	0.41
25:a:90:MET:O	25:a:91:ARG:CG	2.69	0.41
27:c:15:ASN:C	27:c:21:LYS:HZ1	2.29	0.41
28:d:27:ILE:O	28:d:27:ILE:HG23	2.21	0.41
28:d:122:PRO:O	28:d:123:GLN:C	2.64	0.41
29:e:48:LEU:HD22	29:e:55:LYS:HD3	2.03	0.41
30:f:10:HIS:CD2	30:f:23:THR:CG2	3.04	0.41
30:f:11:ILE:CD1	30:f:72:VAL:CG1	2.98	0.41
30:f:23:THR:OG1	30:f:29:ALA:HA	2.21	0.41
31:g:34:THR:H	31:g:54:VAL:HA	1.85	0.41
31:g:75:GLU:O	31:g:76:HIS:HB2	2.20	0.41
32:h:7:ASN:OD1	32:h:20:SER:HB2	2.20	0.41
32:h:26:LYS:O	32:h:30:LYS:N	2.45	0.41
34:j:23:ASN:O	34:j:27:LYS:CA	2.69	0.41
35:k:25:LYS:HD2	35:k:25:LYS:C	2.46	0.41
36:l:24:LYS:CB	36:l:46:LYS:NZ	2.83	0.41
37:m:4:ARG:NH2	37:m:6:SER:OG	2.54	0.41
37:m:7:VAL:HG21	37:m:23:ILE:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:m:22:VAL:HG13	37:m:37:GLN:HB3	1.90	0.41
39:o:25:VAL:CG2	39:o:60:VAL:CA	2.80	0.41
39:o:45:VAL:CG2	39:o:99:LEU:HD13	2.50	0.41
39:o:48:ALA:CB	39:o:95:LYS:HD2	2.50	0.41
40:p:20:ALA:O	40:p:23:TYR:HD2	2.04	0.41
40:p:30:VAL:O	40:p:33:VAL:HG12	2.21	0.41
40:p:33:VAL:O	40:p:36:GLN:HB2	2.21	0.41
40:p:57:ARG:HG2	40:p:57:ARG:HH11	1.85	0.41
40:p:93:ILE:HG21	41:q:4:VAL:HG11	2.02	0.41
41:q:62:GLU:CD	41:q:63:VAL:N	2.79	0.41
41:q:89:HIS:HE2	41:q:91:GLN:HA	1.84	0.41
42:r:41:LYS:O	42:r:44:ALA:N	2.51	0.41
42:r:73:LYS:HG2	42:r:75:PHE:CD1	2.55	0.41
43:s:31:VAL:O	43:s:32:LEU:HD23	2.21	0.41
43:s:55:VAL:HG22	43:s:87:LEU:HA	2.03	0.41
43:s:86:THR:CG2	43:s:87:LEU:N	2.81	0.41
45:u:51:GLN:HA	45:u:56:PHE:CD2	2.56	0.41
47:w:3:VAL:O	47:w:32:LEU:HD21	2.21	0.41
47:w:17:ARG:CZ	47:w:21:LEU:HB2	2.46	0.41
47:w:38:TRP:HE3	47:w:45:PHE:CZ	2.38	0.41
49:y:50:VAL:O	49:y:54:VAL:HG13	2.20	0.41
1:A:79:SER:OG	1:A:80:ARG:N	2.53	0.41
1:A:91:GLU:O	22:X:36:PHE:HZ	2.04	0.41
7:G:27:ARG:NH1	9:I:1437:G:O5'	2.52	0.41
7:G:43:ALA:CA	7:G:46:GLN:HB2	2.51	0.41
8:H:5:VAL:CA	30:f:96:THR:H	2.34	0.41
9:I:237:A:O2'	9:I:238:U:H5'	2.20	0.41
9:I:252:A:P	9:I:252:A:H8	2.43	0.41
9:I:276:C:OP2	9:I:276:C:H6	2.04	0.41
9:I:428:U:H4'	9:I:429:A:C5'	2.50	0.41
9:I:540:G:O2'	23:Y:39:GLN:N	2.50	0.41
9:I:562:A:C2'	9:I:566:G:C8	3.00	0.41
9:I:594:A:H8	9:I:594:A:O5'	2.04	0.41
9:I:607:A:H2'	9:I:608:A:H5'	2.03	0.41
9:I:645:G:C2	9:I:646:C:C5	3.09	0.41
9:I:685:U:O4	9:I:703:A:C8	2.74	0.41
9:I:694:A:H2	9:I:786:A:O4'	2.04	0.41
9:I:715:A:N3	30:f:107:ASN:O	2.54	0.41
9:I:797:U:C2'	9:I:798:G:O5'	2.69	0.41
9:I:819:U:C4'	9:I:820:G:OP2	2.67	0.41
9:I:825:C:O2'	9:I:826:U:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:857:G:N1	9:I:868:G:H3'	2.36	0.41
9:I:989:C:H2'	9:I:990:U:C6	2.56	0.41
9:I:1025:G:N2	9:I:1034:A:C2	2.89	0.41
9:I:1041:A:H2'	9:I:1042:G:N9	2.36	0.41
9:I:1050:C:H42	9:I:1206:2MG:HN1	1.67	0.41
9:I:1073:G:C6	9:I:1074:U:C4	3.09	0.41
9:I:1096:C:O2'	9:I:1168:A:H1'	2.21	0.41
9:I:1279:A:C8	29:e:39:PRO:HD3	2.55	0.41
9:I:1296:G:O3'	9:I:1297:U:O2	2.38	0.41
9:I:1345:A:C2	9:I:1373:A:O5'	2.74	0.41
9:I:1428:A:H2'	9:I:1429:A:O4'	2.22	0.41
9:I:1439:U:O2'	9:I:1440:A:C8	2.70	0.41
9:I:1475:A:C6	9:I:4328:G:C8	3.09	0.41
9:I:1483:A:C5	9:I:1484:C:C5	3.09	0.41
9:I:1505:A:N1	9:I:1506:A:C5	2.89	0.41
9:I:1640:C:OP1	9:I:1641:G:C6	2.74	0.41
9:I:1646:A:C6	9:I:1647:C:C4	3.09	0.41
9:I:1778:A:N9	9:I:1862:A:H1'	2.35	0.41
9:I:1905:U:OP2	9:I:1906:G:C8	2.74	0.41
9:I:1989:G:O4'	9:I:2778:A:C5	2.73	0.41
9:I:2087:C:H2'	18:T:19:LEU:HD12	2.02	0.41
9:I:2137:A:P	18:T:128:THR:OG1	2.79	0.41
9:I:2152:U:C5'	9:I:2153:U:OP2	2.69	0.41
9:I:2263:G:C6	9:I:2265:C:C4	3.09	0.41
9:I:2268:G:C4	9:I:2269:U:C5	3.09	0.41
9:I:2284:G:C4'	9:I:2285:G:OP1	2.68	0.41
9:I:2441:A:C2	9:I:2442:C:C2	3.09	0.41
9:I:2471:G:N1	9:I:2472:G:C5	2.89	0.41
9:I:2481:C:C2'	9:I:2482:A:O5'	2.68	0.41
9:I:2515:A:H5'	9:I:2516:G:P	2.61	0.41
9:I:2614:G:H2'	9:I:2615:C:C1'	2.50	0.41
9:I:2625:G:H4'	9:I:2626:U:OP1	2.21	0.41
9:I:2645:A:O5'	40:p:80:ASN:OD1	2.39	0.41
9:I:2772:C:O2	9:I:2772:C:H2'	2.20	0.41
9:I:2772:C:O4'	20:V:24:MET:HE1	2.21	0.41
9:I:2816:A:C4	9:I:2817:C:C6	3.08	0.41
9:I:2835:G:C2	43:s:84:TYR:HB2	2.56	0.41
9:I:2894:U:C2'	9:I:2895:G:O5'	2.69	0.41
9:I:2905:U:C2	9:I:3086:C:C2	3.09	0.41
9:I:2930:G:H1'	9:I:3009:A:C2	2.56	0.41
9:I:2991:U:H1'	9:I:3072:U:OP1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2999:A:C2	9:I:3000:U:C6	3.09	0.41
9:I:3009:A:O4'	9:I:3051:C:O4'	2.39	0.41
9:I:3022:A:H2'	9:I:3023:G:C5'	2.50	0.41
9:I:3060:A:C5	11:K:212:TRP:CE2	3.09	0.41
9:I:3082:G:C2'	9:I:3083:U:H5'	2.51	0.41
9:I:3084:A:H2'	9:I:3084:A:N3	2.36	0.41
9:I:3178:G:C6	9:I:3179:C:C5	3.09	0.41
9:I:3201:G:OP1	9:I:3202:C:OP1	2.39	0.41
9:I:3236:U:C4	9:I:3237:G:O6	2.74	0.41
9:I:3283:A:C8	9:I:3283:A:OP2	2.74	0.41
9:I:3351:G:N3	9:I:3379:A:N7	2.69	0.41
9:I:3355:G:H8	9:I:3355:G:OP2	2.04	0.41
9:I:3356:G:N1	9:I:3374:U:N3	2.39	0.41
9:I:3358:U:C2'	9:I:3359:U:C4	2.90	0.41
9:I:3442:G:C2'	9:I:3443:G:H5'	2.51	0.41
9:I:3443:G:C5	9:I:3444:G:C5	3.09	0.41
9:I:3577:G:C5	9:I:3578:C:C5	3.09	0.41
9:I:3592:U:C2	9:I:3686:U:N3	2.85	0.41
9:I:3593:U:H6	9:I:3593:U:O5'	2.04	0.41
9:I:3696:U:O2	9:I:3696:U:H2'	2.20	0.41
9:I:3741:A:H2'	9:I:3742:C:H6	1.86	0.41
9:I:3745:OMG:C4	9:I:3746:G:C8	3.09	0.41
9:I:3773:G:N2	9:I:3821:A:C4	2.83	0.41
9:I:3797:G:C5	9:I:3798:G:C8	3.09	0.41
9:I:3803:A:O2'	9:I:3804:C:H5'	2.20	0.41
9:I:3807:C:H4'	14:N:87:LYS:CE	2.51	0.41
9:I:3810:G:C5'	14:N:124:ARG:HH12	2.33	0.41
9:I:3827:A:C5	9:I:3829:A:C2	3.09	0.41
9:I:3910:C:O2	9:I:3910:C:C2'	2.69	0.41
9:I:4013:U:H2'	9:I:4035:A:N6	2.36	0.41
9:I:4037:G:C6	9:I:4259:A:N7	2.89	0.41
9:I:4055:U:N3	9:I:4056:U:C5	2.88	0.41
9:I:4140:C:N4	9:I:4167:G:O6	2.52	0.41
9:I:4205:A:N7	9:I:4208:G:C8	2.89	0.41
9:I:4209:C:C2	9:I:4210:C:C6	3.09	0.41
9:I:4233:U:N3	9:I:4234:A:C8	2.88	0.41
9:I:4313:G:H2'	9:I:4314:A:H5''	2.02	0.41
9:I:4315:A:O2'	9:I:4316:G:H5'	2.21	0.41
9:I:4369:A:C2'	9:I:4370:C:H5'	2.51	0.41
10:J:7:C:H5''	38:n:37:GLN:HE22	1.86	0.41
10:J:23:G:C6	10:J:55:G:H2'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:79:U:O2	10:J:79:U:H2'	2.20	0.41
11:K:163:ILE:HG12	11:K:173:LEU:HD13	2.03	0.41
12:L:9:VAL:CG1	12:L:26:VAL:CG1	2.98	0.41
12:L:39:ASP:O	12:L:44:GLY:CA	2.68	0.41
12:L:48:ILE:HD11	12:L:82:PHE:CD2	2.56	0.41
13:M:19:PHE:HD1	13:M:109:LEU:HG	1.84	0.41
13:M:59:PRO:HB2	13:M:60:TRP:CE3	2.56	0.41
13:M:121:VAL:HG11	13:M:187:VAL:CG1	2.51	0.41
13:M:196:VAL:C	13:M:198:GLU:N	2.79	0.41
14:N:66:ILE:HA	14:N:86:CYS:HA	2.03	0.41
14:N:124:ARG:HD3	14:N:160:LYS:CA	2.51	0.41
15:O:82:PHE:CZ	15:O:137:LYS:HB2	2.56	0.41
16:R:115:GLY:O	16:R:119:PHE:N	2.53	0.41
19:U:42:THR:HG22	19:U:93:VAL:HG12	2.03	0.41
19:U:56:ALA:HB1	19:U:116:ALA:HB2	2.03	0.41
19:U:74:THR:HB	19:U:87:GLY:CA	2.51	0.41
20:V:13:ASN:OD1	20:V:14:SER:N	2.54	0.41
20:V:28:LEU:HD11	20:V:33:ILE:CA	2.51	0.41
20:V:43:GLU:OE1	20:V:46:ARG:NH2	2.54	0.41
20:V:81:ASN:HB2	20:V:82:GLU:HG3	2.03	0.41
22:X:113:LYS:HB2	22:X:184:ASN:CG	2.45	0.41
23:Y:72:ARG:HD2	23:Y:72:ARG:C	2.46	0.41
25:a:70:VAL:HA	25:a:73:GLU:OE1	2.21	0.41
26:b:90:VAL:HG13	26:b:95:ARG:HE	1.86	0.41
26:b:126:ALA:C	26:b:129:ASN:H	2.29	0.41
31:g:5:GLN:HG3	31:g:8:ARG:NH2	2.36	0.41
31:g:80:LEU:O	31:g:97:VAL:HG23	2.21	0.41
32:h:67:ASP:O	32:h:71:GLU:HB2	2.21	0.41
33:i:2:VAL:HG12	33:i:3:GLN:N	2.36	0.41
35:k:8:SER:OG	35:k:11:LYS:HG3	2.21	0.41
39:o:13:LYS:HZ1	39:o:80:VAL:HG23	1.86	0.41
39:o:44:GLY:CA	39:o:61:ARG:C	2.93	0.41
40:p:81:GLY:N	40:p:116:LEU:HD13	2.31	0.41
40:p:90:ASP:C	40:p:94:LEU:CG	2.94	0.41
40:p:103:VAL:O	40:p:103:VAL:HG12	2.21	0.41
41:q:49:ILE:CG2	41:q:53:PHE:CA	2.96	0.41
42:r:6:LYS:HD2	42:r:8:ARG:CZ	2.51	0.41
42:r:6:LYS:HD2	42:r:8:ARG:NH2	2.36	0.41
44:t:72:PHE:CE2	44:t:74:ALA:HB2	2.55	0.41
44:t:93:ARG:O	44:t:101:THR:HA	2.21	0.41
45:u:55:GLU:HB3	45:u:59:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:v:21:VAL:H	46:v:55:GLY:C	2.14	0.41
47:w:71:ARG:HG3	47:w:72:ALA:N	2.36	0.41
49:y:5:LYS:HD2	49:y:34:THR:HG23	2.02	0.41
49:y:7:THR:HG21	49:y:32:GLY:HA2	2.01	0.41
49:y:22:THR:O	49:y:46:MET:CG	2.69	0.41
49:y:26:LEU:CD2	49:y:43:ILE:HG23	2.48	0.41
49:y:43:ILE:HA	49:y:46:MET:CB	2.50	0.41
3:C:9:HIS:CG	9:I:308:A:H5''	2.53	0.40
3:C:21:VAL:HB	3:C:60:TRP:CH2	2.56	0.40
3:C:39:PHE:CD1	3:C:50:THR:HG23	2.56	0.40
3:C:63:GLN:HB3	9:I:227:A:C6	2.56	0.40
4:D:14:MET:CA	9:I:272:U:H2'	2.50	0.40
6:F:12:HIS:CE1	6:F:33:SER:HB2	2.56	0.40
9:I:6:A:C8	24:Z:115:LEU:HD21	2.55	0.40
9:I:48:U:C5	9:I:364:U:O4	2.73	0.40
9:I:100:A:H2	9:I:151:A:HO2'	1.67	0.40
9:I:150:A:OP2	9:I:168:C:N3	2.54	0.40
9:I:161:A:OP2	9:I:162:C:C4	2.74	0.40
9:I:195:A:H2	9:I:221:C:O2	2.04	0.40
9:I:251:U:C2'	9:I:252:A:N7	2.83	0.40
9:I:317:G:H2'	9:I:318:G:H8	1.85	0.40
9:I:319:A:C2	9:I:320:A:C4	3.08	0.40
9:I:424:G:H3'	9:I:425:U:C6	2.57	0.40
9:I:733:G:N2	9:I:734:C:O4'	2.54	0.40
9:I:766:A:HO2'	9:I:4429:G:C4'	2.31	0.40
9:I:848:G:H2'	9:I:849:U:H6	1.85	0.40
9:I:852:C:H2'	9:I:853:U:H6	1.86	0.40
9:I:881:C:HO2'	9:I:882:C:C5'	2.34	0.40
9:I:1339:A:H2'	9:I:1340:U:C6	2.55	0.40
9:I:1483:A:C2	9:I:1484:C:C6	3.09	0.40
9:I:1502:G:N3	9:I:1502:G:H2'	2.37	0.40
9:I:1577:G:C2'	9:I:1578:U:H5'	2.51	0.40
9:I:1642:A:C4	9:I:1643:C:C4	3.09	0.40
9:I:1792:U:C2'	9:I:1793:U:H5'	2.51	0.40
9:I:1819:G:H5''	9:I:1820:A:OP2	2.21	0.40
9:I:1832:A:H1'	9:I:1834:C:OP2	2.21	0.40
9:I:1964:U:O4	9:I:2288:A:C5	2.73	0.40
9:I:1982:A:O3'	44:t:44:HIS:ND1	2.54	0.40
9:I:2002:A:N6	9:I:2005:A:C6	2.89	0.40
9:I:2116:A:H2'	9:I:2117:G:H8	1.86	0.40
9:I:2145:C:N4	9:I:3843:G:C2	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2309:G:C5	9:I:2310:U:C4	3.09	0.40
9:I:2402:C:C4	9:I:2403:A:N6	2.90	0.40
9:I:2503:A:HO2'	9:I:2504:A:C4'	2.34	0.40
9:I:2518:G:C8	9:I:2519:G:H2'	2.57	0.40
9:I:2562:G:H1	9:I:2563:A:H62	1.67	0.40
9:I:2637:A:C8	16:R:27:ARG:NH1	2.90	0.40
9:I:2653:U:H2'	9:I:2654:G:O5'	2.21	0.40
9:I:2771:G:H2'	9:I:2772:C:C6	2.56	0.40
9:I:2830:A:C4	9:I:2831:G:C8	3.10	0.40
9:I:2855:G:C5	9:I:2865:G:N2	2.89	0.40
9:I:2893:C:O2	9:I:2893:C:H2'	2.21	0.40
9:I:2903:U:O2	9:I:3087:A:C2	2.74	0.40
9:I:2910:G:C6	9:I:3077:A:C8	3.09	0.40
9:I:2962:U:C2'	9:I:3016:A:N6	2.84	0.40
9:I:3059:C:N4	11:K:25:LYS:HB3	2.37	0.40
9:I:3212:G:H2'	9:I:3213:G:N9	2.36	0.40
9:I:3253:A:P	9:I:3254:C:OP2	2.79	0.40
9:I:3264:G:C6	9:I:3477:G:C6	3.09	0.40
9:I:3267:A:C2	9:I:3268:C:C1'	3.04	0.40
9:I:3291:G:P	11:K:270:ARG:HH22	2.39	0.40
9:I:3299:A:C6	9:I:3307:G:O6	2.73	0.40
9:I:3311:G:N3	9:I:3311:G:C2'	2.83	0.40
9:I:3317:G:N1	9:I:3318:G:C5	2.89	0.40
9:I:3319:U:O2'	9:I:3320:G:C5'	2.68	0.40
9:I:3337:C:C2	9:I:3338:C:C6	3.09	0.40
9:I:3353:U:O2	9:I:3377:U:C2	2.74	0.40
9:I:3364:C:H3'	9:I:3365:A:C4	2.56	0.40
9:I:3368:C:O5'	9:I:3368:C:H6	2.04	0.40
9:I:3379:A:C6	9:I:3380:U:C6	3.09	0.40
9:I:3446:A:H8	17:S:42:THR:HG1	1.65	0.40
9:I:3448:G:H1'	9:I:3450:U:O4	2.21	0.40
9:I:3459:C:C5'	9:I:3460:A:H2'	2.47	0.40
9:I:3467:G:C4	9:I:3468:C:C5	3.08	0.40
9:I:3474:G:C4	9:I:3476:U:C5	3.10	0.40
9:I:3480:C:O2	9:I:3481:A:C8	2.75	0.40
9:I:3544:C:C1'	12:L:161:MET:HE1	2.51	0.40
9:I:3673:C:O2'	9:I:3674:U:H5'	2.21	0.40
9:I:3730:U:C4	9:I:3731:G:C5	3.09	0.40
9:I:3741:A:C5	9:I:3742:C:C5	3.09	0.40
9:I:3856:C:O2'	9:I:3857:G:O4'	2.38	0.40
9:I:3860:A:C2	9:I:3861:G:O4'	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3860:A:C4	9:I:3861:G:C8	3.09	0.40
9:I:3891:G:O2'	9:I:3892:U:H5'	2.22	0.40
9:I:3908:G:N1	9:I:3909:G:C5	2.89	0.40
9:I:3973:U:OP1	9:I:4031:U:H1'	2.21	0.40
9:I:3990:C:HO2'	9:I:3991:A:C4'	2.32	0.40
9:I:4020:G:O2'	37:m:34:LYS:NZ	2.54	0.40
9:I:4037:G:O4'	9:I:4260:A:H5''	2.20	0.40
9:I:4099:PSU:O4	9:I:4099:PSU:C2'	2.68	0.40
9:I:4151:A:N6	9:I:4158:G:H2'	2.33	0.40
9:I:4174:U:OP1	12:L:194:PRO:HA	2.21	0.40
9:I:4178:U:OP2	39:o:73:PHE:O	2.39	0.40
9:I:4183:U:H6	9:I:4207:U:H5	1.69	0.40
9:I:4215:A:C2'	9:I:4216:G:O5'	2.69	0.40
9:I:4241:G:H1'	9:I:4251:A:H62	1.81	0.40
9:I:4241:G:O6	9:I:4248:U:C2'	2.68	0.40
9:I:4276:G:C2	9:I:4277:U:C5	3.09	0.40
9:I:4405:C:H3'	9:I:4408:G:C8	2.55	0.40
9:I:4405:C:OP2	9:I:4408:G:C2'	2.69	0.40
10:J:21:U:O2	10:J:60:G:O6	2.39	0.40
10:J:39:U:H1'	10:J:42:C:H5	1.84	0.40
10:J:67:C:H6	10:J:67:C:P	2.43	0.40
10:J:114:A:C2	10:J:115:G:C8	3.09	0.40
11:K:70:LYS:HE3	11:K:95:TYR:CE2	2.56	0.40
11:K:93:VAL:HG13	11:K:103:ILE:HD11	2.03	0.40
11:K:93:VAL:CG2	11:K:95:TYR:HE1	2.34	0.40
11:K:129:LEU:HD11	11:K:134:ILE:HG13	2.04	0.40
11:K:163:ILE:HA	11:K:173:LEU:HD12	2.01	0.40
12:L:49:GLN:HA	12:L:80:TRP:O	2.21	0.40
12:L:51:THR:CA	12:L:79:LEU:HD23	2.50	0.40
13:M:23:PHE:CE2	13:M:25:GLU:CB	3.04	0.40
13:M:101:TYR:CE2	13:M:200:LEU:HD21	2.56	0.40
13:M:124:PHE:CE1	13:M:148:ILE:HG21	2.56	0.40
14:N:95:MET:HA	14:N:98:PHE:CB	2.36	0.40
14:N:122:ASP:OD1	14:N:124:ARG:N	2.53	0.40
14:N:147:ARG:HH11	14:N:149:ARG:CG	2.22	0.40
15:O:40:VAL:O	15:O:54:ARG:CZ	2.69	0.40
15:O:98:LYS:HB2	15:O:101:VAL:O	2.20	0.40
15:O:159:LYS:HA	15:O:162:ARG:NH1	2.37	0.40
16:R:45:THR:O	16:R:48:VAL:N	2.54	0.40
17:S:22:ILE:HG13	17:S:40:LYS:O	2.21	0.40
17:S:30:ARG:NH2	17:S:37:ASP:OD1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:S:69:VAL:HG13	17:S:79:PHE:CE2	2.56	0.40
18:T:30:THR:O	18:T:31:GLY:C	2.64	0.40
18:T:75:ALA:CA	18:T:108:ALA:HA	2.51	0.40
18:T:77:ILE:O	18:T:77:ILE:HG13	2.21	0.40
18:T:122:VAL:HG12	18:T:123:ARG:N	2.35	0.40
19:U:11:LYS:HE3	19:U:86:LYS:HB3	2.03	0.40
19:U:12:MET:CG	19:U:71:LYS:HD3	2.51	0.40
19:U:113:ALA:O	19:U:117:PHE:CG	2.73	0.40
20:V:8:ARG:HE	20:V:43:GLU:HG2	1.84	0.40
20:V:26:GLY:CA	20:V:75:ILE:HG21	2.51	0.40
20:V:54:LEU:C	20:V:56:LYS:H	2.29	0.40
20:V:94:TYR:C	20:V:116:VAL:HB	2.46	0.40
20:V:95:THR:O	20:V:116:VAL:CG2	2.69	0.40
20:V:115:LEU:HB3	20:V:118:ARG:N	2.36	0.40
21:W:38:ILE:HD11	21:W:185:ASP:OD1	2.21	0.40
22:X:4:VAL:HG21	22:X:9:ILE:HB	2.02	0.40
22:X:176:THR:OG1	22:X:179:ALA:HB2	2.21	0.40
23:Y:105:GLY:HA2	23:Y:164:ARG:HH21	1.86	0.40
24:Z:142:GLU:OE2	24:Z:143:MET:HG2	2.21	0.40
31:g:7:VAL:CG1	31:g:7:VAL:O	2.69	0.40
34:j:24:LYS:CE	34:j:50:LYS:O	2.69	0.40
34:j:31:LEU:HD11	34:j:33:LEU:HD12	2.03	0.40
37:m:5:ALA:HB2	37:m:38:GLY:O	2.22	0.40
39:o:20:ARG:N	39:o:23:ASP:HB2	2.23	0.40
41:q:11:GLN:HG3	41:q:39:LEU:HD13	1.99	0.40
43:s:47:VAL:C	43:s:49:LYS:H	2.29	0.40
44:t:22:GLY:CA	44:t:35:VAL:HG12	2.46	0.40
46:v:62:LYS:HE2	46:v:69:PHE:O	2.21	0.40
47:w:33:HIS:O	47:w:55:MET:SD	2.80	0.40
49:y:5:LYS:NZ	49:y:36:GLU:HB2	2.32	0.40
2:B:57:ARG:CB	2:B:58:MET:HE2	2.51	0.40
3:C:51:ARG:C	3:C:52:LEU:HD22	2.46	0.40
4:D:2:ILE:HD12	4:D:59:ARG:CZ	2.50	0.40
4:D:8:ARG:HB2	4:D:54:ASP:O	2.20	0.40
4:D:40:LYS:HD2	9:I:275:G:H5"	2.03	0.40
5:E:5:LYS:HB3	25:a:42:TRP:CZ3	2.56	0.40
5:E:7:ILE:HG12	25:a:45:ARG:CZ	2.51	0.40
5:E:13:TYR:HA	5:E:21:VAL:HG22	2.03	0.40
8:H:40:PRO:O	8:H:44:ARG:HD3	2.21	0.40
9:I:4:U:H6	9:I:4:U:P	2.43	0.40
9:I:68:G:N3	9:I:99:G:O6	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:103:G:C2'	9:I:104:G:O5'	2.69	0.40
9:I:106:G:H5'	9:I:133:G:N2	2.36	0.40
9:I:110:G:O6	9:I:329:C:N4	2.55	0.40
9:I:156:U:O2'	9:I:157:G:C5'	2.70	0.40
9:I:175:C:C6	9:I:176:G:N2	2.89	0.40
9:I:214:C:C4	9:I:215:U:C4	3.09	0.40
9:I:255:U:O5'	9:I:255:U:H6	2.04	0.40
9:I:370:A:C2	9:I:390:G:N1	2.89	0.40
9:I:373:A:C2	9:I:389:U:O2'	2.69	0.40
9:I:503:C:O2	9:I:509:A:C2'	2.69	0.40
9:I:800:U:C2'	9:I:801:A:H8	2.33	0.40
9:I:992:G:H21	9:I:994:C:H42	1.68	0.40
9:I:996:U:N3	9:I:997:C:C5	2.89	0.40
9:I:1150:A:H4'	29:e:40:THR:OG1	2.20	0.40
9:I:1175:A:C2	9:I:1176:G:H1'	2.56	0.40
9:I:1347:U:H2'	9:I:1348:A:O4'	2.21	0.40
9:I:1389:U:C2	9:I:1390:U:C5	3.09	0.40
9:I:1393:A:N6	9:I:4405:C:H4'	2.36	0.40
9:I:1584:A:C2	9:I:1603:A:C8	3.09	0.40
9:I:1636:G:C2	9:I:1644:A:C8	3.09	0.40
9:I:1706:U:O2	9:I:1706:U:H2'	2.20	0.40
9:I:1707:A:C8	9:I:1708:C:C5	3.09	0.40
9:I:1726:A:H1'	9:I:1729:C:H42	1.86	0.40
9:I:1766:G:C2	9:I:1927:U:H1'	2.56	0.40
9:I:1790:U:H3	9:I:1850:G:H1	1.68	0.40
9:I:1798:G:OP1	44:t:94:PHE:CZ	2.73	0.40
9:I:1832:A:C8	9:I:1835:C:N4	2.88	0.40
9:I:1894:C:O2'	9:I:1895:U:H5'	2.21	0.40
9:I:1905:U:OP2	9:I:1906:G:N7	2.54	0.40
9:I:1980:A:O2'	44:t:42:LYS:C	2.60	0.40
9:I:2011:U:C5	9:I:2012:G:C4	3.04	0.40
9:I:2033:G:C2	9:I:2061:G:N2	2.90	0.40
9:I:2103:A:C6	9:I:2155:A:C4	3.09	0.40
9:I:2115:U:C2	13:M:35:TYR:CE2	3.09	0.40
9:I:2136:G:OP2	18:T:109:LYS:CE	2.66	0.40
9:I:2136:G:H5''	18:T:129:LYS:CA	2.51	0.40
9:I:2160:C:C2	9:I:2161:A:N7	2.90	0.40
9:I:2211:G:C6	9:I:2212:G:C5	3.09	0.40
9:I:2220:U:C6	9:I:2220:U:O5'	2.74	0.40
9:I:2341:G:C5	9:I:2342:U:C5	3.09	0.40
9:I:2375:G:C2	9:I:2397:C:C2	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2386:A:H3'	9:I:2387:C:C5	2.56	0.40
9:I:2394:A:C4	9:I:2395:C:C6	3.09	0.40
9:I:2494:A:C5	9:I:2649:A:C6	3.09	0.40
9:I:2525:G:N2	37:m:23:ILE:CG1	2.76	0.40
9:I:2617:C:O2'	37:m:21:GLY:CA	2.69	0.40
9:I:2840:G:C2	9:I:3095:G:C5	3.09	0.40
9:I:2892:C:C2'	9:I:2893:C:H6	2.34	0.40
9:I:2941:C:C2	9:I:2959:G:C2	3.09	0.40
9:I:2944:G:C6	9:I:2953:G:O6	2.74	0.40
9:I:3065:A:C3'	9:I:3066:A:H8	2.32	0.40
9:I:3145:G:C6	9:I:3146:A:C6	3.10	0.40
9:I:3160:G:C5'	17:S:7:MET:SD	3.02	0.40
9:I:3235:C:O2'	9:I:3236:U:O4'	2.36	0.40
9:I:3337:C:N3	9:I:3338:C:C5	2.89	0.40
9:I:3343:G:C2'	9:I:3344:G:O5'	2.69	0.40
9:I:3349:U:H2'	9:I:3350:U:C6	2.57	0.40
9:I:3527:A:C5	9:I:3530:C:C4	3.09	0.40
9:I:3571:A:C4	9:I:3929:A:C8	3.09	0.40
9:I:3575:U:C2	9:I:3731:G:N2	2.89	0.40
9:I:3604:G:HO2'	9:I:3605:U:P	2.42	0.40
9:I:3729:G:N3	9:I:3730:U:C6	2.89	0.40
9:I:3756:U:O2'	9:I:3823:U:C1'	2.69	0.40
9:I:3773:G:O6	46:v:4:ARG:CD	2.70	0.40
9:I:3773:G:N7	46:v:4:ARG:NH2	2.69	0.40
9:I:3791:A:C5	9:I:3814:U:O4'	2.74	0.40
9:I:3866:U:N3	9:I:3867:G:C6	2.89	0.40
9:I:3893:G:N1	9:I:3894:G:C5	2.89	0.40
9:I:3922:G:H5''	9:I:3923:G:OP1	2.21	0.40
9:I:3961:C:OP1	37:m:8:LYS:CE	2.69	0.40
9:I:4005:U:C2'	9:I:4006:C:H5'	2.51	0.40
9:I:4025:A:N3	9:I:4153:G:C5'	2.85	0.40
9:I:4044:G:H2'	9:I:4045:C:H6	1.86	0.40
9:I:4058:A:N1	9:I:4141:U:O2'	2.54	0.40
9:I:4099:PSU:C4	9:I:4100:C:H5	2.39	0.40
9:I:4131:U:C5'	12:L:45:TYR:CD2	3.04	0.40
9:I:4133:A:C6	9:I:4134:G:C4	3.09	0.40
9:I:4141:U:O2	9:I:4142:G:N7	2.54	0.40
9:I:4179:G:C2	9:I:4180:G:C5	3.09	0.40
10:J:38:A:O2'	10:J:39:U:C5'	2.69	0.40
10:J:54:U:H4'	14:N:25:MET:HE1	2.03	0.40
10:J:63:G:C4	10:J:64:U:C6	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:73:U:H2'	10:J:74:G:O5'	2.22	0.40
11:K:86:ARG:HG3	11:K:88:ALA:O	2.21	0.40
11:K:123:ILE:C	11:K:124:LYS:HG3	2.46	0.40
11:K:245:THR:HG23	11:K:249:VAL:C	2.46	0.40
12:L:172:VAL:O	12:L:175:LEU:CD1	2.69	0.40
13:M:1:MET:HE3	13:M:14:VAL:CG2	2.16	0.40
13:M:97:ASN:HB2	13:M:100:MET:HG2	2.03	0.40
13:M:134:LEU:HD23	13:M:164:LEU:HD22	2.02	0.40
14:N:30:VAL:HG23	14:N:30:VAL:O	2.21	0.40
14:N:42:ALA:HB3	14:N:84:ILE:HA	2.04	0.40
14:N:43:ILE:HD11	14:N:77:LYS:HZ2	1.85	0.40
15:O:103:ASN:OD1	15:O:104:LEU:N	2.53	0.40
15:O:104:LEU:O	15:O:111:PRO:HA	2.21	0.40
17:S:61:VAL:CG1	17:S:61:VAL:O	2.63	0.40
17:S:68:GLY:HA2	17:S:79:PHE:H	1.87	0.40
17:S:78:ARG:CB	39:o:70:GLU:O	2.70	0.40
18:T:101:ILE:HD12	18:T:105:ILE:HG21	2.03	0.40
19:U:28:PHE:CE1	19:U:66:ARG:HD2	2.57	0.40
19:U:34:LYS:CE	19:U:99:GLY:O	2.69	0.40
19:U:50:ARG:HG2	19:U:50:ARG:NH1	2.35	0.40
19:U:96:ILE:HG13	19:U:102:LEU:CD2	2.50	0.40
21:W:67:VAL:N	21:W:159:PHE:O	2.43	0.40
21:W:144:SER:O	21:W:145:LEU:HD23	2.21	0.40
22:X:70:ALA:HA	22:X:105:VAL:H	1.87	0.40
22:X:133:MET:SD	22:X:165:GLU:OE2	2.80	0.40
24:Z:3:GLN:OE1	24:Z:108:VAL:HA	2.20	0.40
24:Z:21:ILE:HG12	24:Z:45:ARG:CZ	2.50	0.40
29:e:49:ILE:HB	29:e:58:ARG:C	2.46	0.40
30:f:24:ASP:OD1	30:f:28:ASN:HB2	2.21	0.40
32:h:32:ILE:HD12	32:h:59:VAL:CA	2.50	0.40
33:i:31:LYS:NZ	33:i:50:GLY:HA3	2.36	0.40
34:j:7:LYS:NZ	34:j:50:LYS:CB	2.84	0.40
38:n:23:THR:HG23	38:n:41:PRO:HD3	2.02	0.40
38:n:31:PRO:HA	38:n:65:GLY:O	2.20	0.40
39:o:19:PHE:HE2	39:o:49:ILE:HG12	1.87	0.40
39:o:42:PHE:HE1	39:o:60:VAL:HB	1.86	0.40
39:o:90:ALA:HA	39:o:112:ARG:NE	2.36	0.40
40:p:81:GLY:HA3	40:p:112:ALA:O	2.21	0.40
40:p:89:ILE:O	40:p:94:LEU:HG	2.22	0.40
41:q:28:ALA:HB3	41:q:31:GLU:OE2	2.21	0.40
43:s:4:GLU:HA	43:s:7:LEU:CG	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:s:12:ARG:HE	43:s:12:ARG:C	2.29	0.40
44:t:23:LYS:N	44:t:35:VAL:CG1	2.84	0.40
45:u:11:GLU:HB2	45:u:20:LEU:HD11	2.02	0.40
49:y:5:LYS:HE3	49:y:34:THR:HG23	2.03	0.40
1:A:6:LYS:HG3	9:I:1215:A:C5'	2.49	0.40
1:A:60:ARG:CB	9:I:980:U:H5'	2.50	0.40
2:B:38:LEU:O	2:B:42:PHE:CD2	2.74	0.40
3:C:43:ALA:O	3:C:44:SER:CB	2.69	0.40
7:G:2:ILE:HD12	9:I:348:A:H4'	2.02	0.40
9:I:108:A:C6	9:I:325:G:C2	3.10	0.40
9:I:270:C:H6	9:I:270:C:O5'	2.04	0.40
9:I:293:U:C2	9:I:294:C:C5	3.10	0.40
9:I:310:C:O2	9:I:310:C:C2'	2.65	0.40
9:I:380:C:C4	9:I:381:A:C4	3.09	0.40
9:I:486:A:C2	9:I:487:C:H1'	2.57	0.40
9:I:500:C:H2'	9:I:501:A:O4'	2.22	0.40
9:I:520:G:O5'	31:g:69:GLU:HG2	2.21	0.40
9:I:521:C:OP1	31:g:68:GLY:N	2.54	0.40
9:I:541:G:O2'	9:I:542:U:H5'	2.21	0.40
9:I:545:A:OP1	23:Y:67:LEU:HB3	2.21	0.40
9:I:654:A:N6	9:I:751:G:N2	2.69	0.40
9:I:694:A:OP2	30:f:42:GLY:HA2	2.21	0.40
9:I:786:A:C2	9:I:794:C:N4	2.89	0.40
9:I:825:C:O2'	27:c:12:ARG:NH2	2.55	0.40
9:I:981:U:O4'	9:I:982:A:C4	2.75	0.40
9:I:1159:G:N2	9:I:1175:A:C2	2.88	0.40
9:I:1206:2MG:C2	9:I:1207:C:C4	3.10	0.40
9:I:1260:A:H4'	9:I:1282:U:C5'	2.42	0.40
9:I:1347:U:C5	9:I:1372:G:N2	2.90	0.40
9:I:1372:G:O2'	26:b:30:MET:HE1	2.21	0.40
9:I:1373:A:H2'	9:I:1374:A:O5'	2.21	0.40
9:I:1457:A:H61	9:I:4350:G:H1	1.68	0.40
9:I:1468:A:C2	9:I:4214:U:C6	3.09	0.40
9:I:1499:U:C1'	9:I:1500:U:OP1	2.69	0.40
9:I:1514:A:H3'	9:I:1514:A:H8	1.86	0.40
9:I:1546:G:H2'	9:I:1547:C:O4'	2.22	0.40
9:I:1565:U:C2	9:I:1566:C:C5	3.09	0.40
9:I:1567:U:C1'	9:I:1588:G:N2	2.85	0.40
9:I:1604:A:C6	9:I:1605:C:C4	3.10	0.40
9:I:1702:U:C2'	9:I:1703:A:C1'	2.99	0.40
9:I:1721:A:N6	9:I:1733:A:C4	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:1802:C:OP1	44:t:78:LYS:NZ	2.54	0.40
9:I:1838:G:C3'	9:I:1839:U:C6	3.03	0.40
9:I:1859:G:O2'	9:I:1860:U:H5'	2.21	0.40
9:I:1941:U:H2'	9:I:1942:G:C8	2.55	0.40
9:I:1978:A:C6	9:I:1980:A:C6	3.09	0.40
9:I:1984:C:N3	9:I:1985:C:C5	2.89	0.40
9:I:2043:G:N1	9:I:2051:G:C5	2.88	0.40
9:I:2043:G:C6	9:I:2044:C:C4	3.09	0.40
9:I:2079:G:C4	9:I:2756:A:C6	3.09	0.40
9:I:2137:A:OP1	18:T:130:GLY:CA	2.69	0.40
9:I:2155:A:O4'	9:I:2156:G:H5'	2.21	0.40
9:I:2163:G:C2	9:I:2164:G:C8	3.09	0.40
9:I:2214:U:C4	9:I:2216:A:P	3.15	0.40
9:I:2252:A:O2'	9:I:2253:A:P	2.78	0.40
9:I:2316:C:C2'	9:I:2317:C:H5'	2.51	0.40
9:I:2361:A:C8	9:I:2362:G:C8	3.10	0.40
9:I:2514:A:N1	9:I:2635:U:C2	2.89	0.40
9:I:2528:G:C2'	9:I:2529:U:C5'	2.99	0.40
9:I:2684:G:C2	9:I:2685:G:C8	3.09	0.40
9:I:2858:G:OP1	47:w:49:ARG:NH2	2.54	0.40
9:I:2900:U:C2	9:I:2901:G:C8	3.09	0.40
9:I:2914:A:H2	9:I:3705:A:HO2'	1.64	0.40
9:I:2954:U:H6	9:I:2954:U:OP1	2.03	0.40
9:I:3006:C:H2'	9:I:3007:U:H1'	2.01	0.40
9:I:3011:G:C8	9:I:3226:C:N3	2.89	0.40
9:I:3045:A:C6	9:I:3046:A:C6	3.10	0.40
9:I:3060:A:C4'	11:K:82:TYR:OH	2.69	0.40
9:I:3202:C:H6	9:I:3202:C:P	2.45	0.40
9:I:3205:A:N1	9:I:3242:C:C4	2.90	0.40
9:I:3258:C:C2'	9:I:3259:U:H5'	2.52	0.40
9:I:3348:A:N6	9:I:3382:G:C1'	2.84	0.40
9:I:3397:G:N3	9:I:3398:G:C8	2.89	0.40
9:I:3451:C:N3	9:I:3452:C:C5	2.89	0.40
9:I:3458:G:P	9:I:3458:G:H8	2.45	0.40
9:I:3474:G:C4	9:I:3476:U:C4	3.09	0.40
9:I:3527:A:C6	9:I:3530:C:C4	3.09	0.40
9:I:3537:C:H1'	9:I:4273:U:O4	2.21	0.40
9:I:3590:C:O2'	9:I:3591:A:O5'	2.30	0.40
9:I:3591:A:C5	9:I:3687:G:C2	3.09	0.40
9:I:3593:U:C6	9:I:3593:U:O5'	2.74	0.40
9:I:3594:G:O6	9:I:3683:U:C4	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3658:C:H3'	9:I:3659:C:C6	2.56	0.40
9:I:3672:C:O2'	9:I:3673:C:O5'	2.40	0.40
9:I:3676:U:H6	9:I:3676:U:O5'	2.03	0.40
9:I:3677:A:C6	9:I:3678:A:N6	2.89	0.40
9:I:3750:G:C6	9:I:3751:U:C4	3.09	0.40
9:I:3796:U:N3	9:I:3809:G:O6	2.53	0.40
9:I:3839:G:H21	9:I:3876:G:P	2.44	0.40
9:I:3849:G:C2'	9:I:3850:U:H5'	2.51	0.40
9:I:3869:G:C8	9:I:3871:A:OP2	2.74	0.40
9:I:3904:G:C6	9:I:3905:A:C4	3.10	0.40
9:I:3963:A:C2	9:I:3976:A:O4'	2.74	0.40
9:I:4026:G:C6	9:I:4027:U:H1'	2.56	0.40
9:I:4033:C:C1'	37:m:1:MET:CE	2.99	0.40
9:I:4055:U:H4'	17:S:40:LYS:NZ	2.36	0.40
9:I:4121:G:N2	9:I:4271:G:C2	2.90	0.40
9:I:4162:G:C4	15:O:109:SER:HB2	2.57	0.40
9:I:4229:G:N7	9:I:4264:G:N2	2.69	0.40
9:I:4230:A:C2	9:I:4263:U:C2	3.09	0.40
9:I:4239:C:C4	9:I:4254:C:C4	3.10	0.40
9:I:4288:C:H3'	9:I:4289:C:C5	2.56	0.40
10:J:11:C:H5''	46:v:66:ASN:OD1	2.21	0.40
10:J:93:A:C2'	10:J:94:U:C6	3.02	0.40
11:K:174:ARG:HG3	11:K:178:GLY:CA	2.50	0.40
12:L:21:SER:C	12:L:22:ILE:HG13	2.46	0.40
12:L:46:ARG:HB3	12:L:84:LEU:CB	2.51	0.40
13:M:130:LYS:O	13:M:160:ALA:HA	2.21	0.40
13:M:183:PHE:HB3	13:M:185:LYS:O	2.22	0.40
14:N:48:LEU:HD12	14:N:48:LEU:HA	1.86	0.40
15:O:28:LYS:HE3	15:O:79:THR:O	2.21	0.40
16:R:16:TYR:O	16:R:55:ILE:HB	2.20	0.40
16:R:17:VAL:CG2	16:R:55:ILE:HB	2.45	0.40
17:S:78:ARG:O	39:o:69:VAL:CA	2.66	0.40
18:T:77:ILE:HD11	18:T:110:VAL:HG22	2.02	0.40
18:T:111:ILE:CG1	18:T:128:THR:CG2	2.96	0.40
20:V:26:GLY:O	20:V:75:ILE:HG13	2.21	0.40
21:W:97:MET:C	21:W:104:VAL:HG21	2.46	0.40
22:X:35:ASP:O	22:X:38:VAL:HG23	2.22	0.40
22:X:38:VAL:HG12	22:X:90:VAL:HG23	2.00	0.40
23:Y:73:ASN:C	23:Y:76:LYS:HZ2	2.26	0.40
26:b:126:ALA:HA	26:b:129:ASN:HA	2.04	0.40
26:b:129:ASN:HB2	26:b:134:VAL:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:b:133:ALA:O	26:b:136:LYS:HB2	2.21	0.40
27:c:17:GLN:HE22	27:c:71:VAL:HG11	1.85	0.40
27:c:45:ILE:HA	27:c:63:LYS:CD	2.52	0.40
28:d:35:TYR:CE2	28:d:36:PHE:CZ	3.09	0.40
29:e:49:ILE:CG2	29:e:57:ALA:CB	2.93	0.40
29:e:61:TYR:CG	29:e:62:GLU:N	2.89	0.40
31:g:22:ALA:HA	31:g:60:PHE:CD2	2.57	0.40
35:k:42:LEU:HD13	35:k:42:LEU:HA	1.91	0.40
38:n:17:LEU:HD13	38:n:41:PRO:HB2	1.94	0.40
40:p:42:GLY:O	40:p:45:ALA:HB3	2.21	0.40
41:q:4:VAL:HG11	41:q:39:LEU:HB2	1.97	0.40
41:q:29:THR:HG22	41:q:66:HIS:HB2	2.01	0.40
41:q:45:GLU:CG	41:q:46:GLU:N	2.84	0.40
42:r:8:ARG:HG3	42:r:9:HIS:CE1	2.57	0.40
42:r:8:ARG:CD	42:r:102:HIS:ND1	2.84	0.40
43:s:58:VAL:HG12	43:s:60:THR:HG23	2.03	0.40
44:t:10:VAL:CG1	44:t:71:ILE:HA	2.47	0.40
46:v:20:SER:H	46:v:56:LYS:HG2	1.77	0.40
47:w:30:PRO:C	47:w:32:LEU:H	2.28	0.40
49:y:26:LEU:HB3	49:y:28:LEU:CD1	2.52	0.40
49:y:26:LEU:CB	49:y:28:LEU:HD13	2.51	0.40
3:C:1:MET:HG3	3:C:64:GLY:CA	2.51	0.40
3:C:8:ARG:HA	3:C:17:TYR:HA	2.04	0.40
4:D:30:ILE:CG2	31:g:10:PRO:HG3	2.52	0.40
6:F:33:SER:HG	6:F:36:SER:HG	1.58	0.40
7:G:73:HIS:NE2	9:I:258:G:H4'	2.36	0.40
9:I:7:A:H1'	24:Z:98:ALA:O	2.22	0.40
9:I:141:G:N2	9:I:221:C:C6	2.89	0.40
9:I:180:A:N3	9:I:181:A:N7	2.69	0.40
9:I:254:G:H2'	9:I:255:U:O5'	2.21	0.40
9:I:265:G:P	9:I:266:C:N4	2.94	0.40
9:I:281:A:H2'	9:I:281:A:N3	2.37	0.40
9:I:397:U:H2'	9:I:398:G:H8	1.85	0.40
9:I:420:U:C5	9:I:422:G:N7	2.90	0.40
9:I:443:G:N1	9:I:490:G:C6	2.89	0.40
9:I:486:A:H2'	9:I:487:C:C5'	2.48	0.40
9:I:598:C:O2'	27:c:120:LEU:HA	2.21	0.40
9:I:675:A:C2	9:I:676:U:C5	3.09	0.40
9:I:705:A:O2'	30:f:21:THR:CB	2.69	0.40
9:I:914:A:C2	9:I:915:U:H1'	2.56	0.40
9:I:954:U:H2'	9:I:955:U:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:960:U:H2'	9:I:961:C:C6	2.56	0.40
9:I:1025:G:N3	9:I:1025:G:H2'	2.37	0.40
9:I:1100:A:H1'	9:I:1101:A:O4'	2.21	0.40
9:I:1117:U:H1'	9:I:1178:A:C8	2.55	0.40
9:I:1303:G:C1'	9:I:1332:A:N6	2.78	0.40
9:I:1463:G:O6	39:o:20:ARG:NH2	2.54	0.40
9:I:1469:A:C8	9:I:4214:U:C2	3.09	0.40
9:I:1472:G:C4	9:I:4336:G:C2	3.10	0.40
9:I:1494:U:O2	9:I:1495:A:C8	2.74	0.40
9:I:1530:G:H2'	9:I:1531:C:O4'	2.22	0.40
9:I:1551:G:N2	9:I:1619:A:N3	2.70	0.40
9:I:1554:G:C2	9:I:1555:G:C4	3.10	0.40
9:I:1642:A:C2'	9:I:1643:C:O4'	2.68	0.40
9:I:1657:C:O2	9:I:1657:C:H2'	2.21	0.40
9:I:1758:G:C2'	9:I:1759:G:O5'	2.69	0.40
9:I:1772:A:O5'	9:I:1772:A:H8	2.04	0.40
9:I:1782:A:C2	9:I:1783:G:C5	3.09	0.40
9:I:1785:G:O6	9:I:1855:U:C2	2.74	0.40
9:I:1806:U:H6	9:I:1806:U:O5'	2.05	0.40
9:I:1854:A:H3'	9:I:1854:A:C8	2.55	0.40
9:I:1872:G:H5''	47:w:60:LYS:CD	2.49	0.40
9:I:1893:C:O2	9:I:1894:C:C5	2.74	0.40
9:I:1982:A:C5	9:I:2006:G:C4	3.09	0.40
9:I:2002:A:C6	9:I:2005:A:C6	3.09	0.40
9:I:2022:A:C6	9:I:2023:C:N4	2.90	0.40
9:I:2135:C:OP2	18:T:126:ARG:NH2	2.54	0.40
9:I:2141:U:C5'	9:I:2142:U:OP2	2.69	0.40
9:I:2199:A:H2'	9:I:2199:A:N3	2.35	0.40
9:I:2218:A:C8	9:I:2219:C:C6	3.09	0.40
9:I:2223:C:O2'	9:I:2224:U:C5'	2.67	0.40
9:I:2225:G:O2'	9:I:2226:G:O4'	2.36	0.40
9:I:2317:C:H2'	9:I:2318:G:H8	1.87	0.40
9:I:2320:A:C2'	9:I:2321:A:O5'	2.70	0.40
9:I:2320:A:H2'	9:I:2321:A:O4'	2.22	0.40
9:I:2465:G:H2'	9:I:2466:A:O4'	2.21	0.40
9:I:2520:G:C5	9:I:2628:A:C5	3.09	0.40
9:I:2534:A:N3	9:I:2535:G:C8	2.90	0.40
9:I:2536:G:C2'	9:I:2537:C:H5'	2.52	0.40
9:I:2538:C:H4'	9:I:2605:A:C6	2.55	0.40
9:I:2556:G:C2'	9:I:2557:G:H8	2.29	0.40
9:I:2718:U:C4'	9:I:2719:G:OP1	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2757:U:H2'	9:I:2758:A:C2	2.56	0.40
9:I:2766:A:C6	9:I:3112:6MZ:C4	3.04	0.40
9:I:2781:A:OP1	20:V:103:ARG:HD2	2.21	0.40
9:I:2842:C:C4	9:I:2843:C:C6	3.09	0.40
9:I:2902:G:N1	9:I:3088:U:C2	2.78	0.40
9:I:2913:A:O4'	9:I:3073:A:C6	2.75	0.40
9:I:2920:G:H3'	9:I:2921:A:H8	1.85	0.40
9:I:2939:G:H2'	9:I:2940:C:C5'	2.51	0.40
9:I:2965:G:O6	9:I:3014:U:O2	2.39	0.40
9:I:3061:G:C2	11:K:82:TYR:HB3	2.56	0.40
9:I:3067:G:C4	9:I:3068:C:C5	3.10	0.40
9:I:3081:G:C2'	9:I:3082:G:N7	2.83	0.40
9:I:3291:G:C6	9:I:3292:U:N3	2.89	0.40
9:I:3308:G:H3'	9:I:3309:A:C8	2.57	0.40
9:I:3323:A:C5	9:I:3324:C:C6	3.10	0.40
9:I:3336:G:C8	9:I:3337:C:C5	3.10	0.40
9:I:3340:G:C2	9:I:3389:C:N1	2.89	0.40
9:I:3445:U:C2	9:I:3447:A:OP2	2.75	0.40
9:I:3490:C:OP2	17:S:31:ARG:CZ	2.70	0.40
9:I:3507:A:H2'	9:I:3508:A:O5'	2.22	0.40
9:I:3584:A:C2'	9:I:3585:C:O4'	2.66	0.40
9:I:3693:A:H2	9:I:3720:C:N4	2.19	0.40
9:I:3698:G:H2'	9:I:3698:G:N3	2.36	0.40
9:I:3744:G:H5''	19:U:84:LYS:HZ1	1.86	0.40
9:I:3801:G:O6	14:N:39:VAL:C	2.64	0.40
9:I:3812:G:OP2	9:I:3812:G:C3'	2.68	0.40
9:I:3814:U:O2	9:I:3816:A:C5	2.74	0.40
9:I:3826:C:H4'	9:I:3830:A:H62	1.87	0.40
9:I:3830:A:C2	9:I:3879:C:O2	2.74	0.40
9:I:3953:A:C8	9:I:3954:U:C6	3.09	0.40
9:I:3974:C:O2	9:I:3974:C:C2'	2.63	0.40
9:I:4013:U:C5	9:I:4036:A:C6	3.10	0.40
9:I:4054:A:C5	9:I:4055:U:C5	3.09	0.40
9:I:4136:G:N3	9:I:4137:G:N7	2.70	0.40
9:I:4246:C:P	15:O:3:VAL:HG21	2.61	0.40
9:I:4256:C:C4	9:I:4257:G:C6	3.09	0.40
9:I:4267:C:H5''	12:L:169:ARG:HH21	1.85	0.40
9:I:4267:C:O3'	12:L:169:ARG:NE	2.55	0.40
9:I:4331:A:C4	9:I:4332:G:C8	3.10	0.40
9:I:4339:U:O2'	39:o:52:ARG:CZ	2.69	0.40
9:I:4339:U:OP1	39:o:51:ASN:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:85:G:C2	10:J:90:C:C2	3.09	0.40
11:K:5:CYS:CB	11:K:12:ARG:O	2.69	0.40
11:K:92:LEU:CD1	11:K:102:TYR:HA	2.49	0.40
11:K:97:ASP:CG	11:K:99:GLU:OE1	2.65	0.40
12:L:9:VAL:HG11	39:o:3:ILE:CG1	2.52	0.40
12:L:26:VAL:HG13	12:L:186:LEU:HD22	2.02	0.40
12:L:40:LEU:CG	12:L:41:ALA:N	2.83	0.40
14:N:32:LYS:O	14:N:155:ILE:HG23	2.22	0.40
14:N:45:ASP:O	14:N:48:LEU:HB3	2.22	0.40
14:N:111:ARG:NH1	14:N:131:VAL:HB	2.34	0.40
18:T:10:GLU:CD	18:T:10:GLU:N	2.80	0.40
19:U:38:ARG:HG3	19:U:97:GLN:HG2	2.03	0.40
20:V:8:ARG:HE	20:V:43:GLU:HG3	1.85	0.40
21:W:108:ILE:HG13	21:W:151:MET:HE2	2.01	0.40
21:W:167:HIS:NE2	21:W:168:ILE:HG12	2.37	0.40
22:X:54:ILE:HD11	22:X:65:VAL:HG12	2.02	0.40
22:X:151:GLU:N	22:X:198:LYS:O	2.45	0.40
24:Z:72:LEU:O	24:Z:89:PRO:HB3	2.21	0.40
27:c:8:ASP:HB3	27:c:26:MET:HE3	2.00	0.40
28:d:28:ASN:O	28:d:29:GLN:HB2	2.21	0.40
28:d:32:LEU:HD21	28:d:42:ARG:CA	2.52	0.40
28:d:78:HIS:CE1	28:d:103:ARG:HB2	2.57	0.40
28:d:121:ARG:HD2	28:d:122:PRO:N	2.37	0.40
33:i:48:TYR:CE2	33:i:49:ARG:HG3	2.54	0.40
36:l:11:LYS:HA	36:l:11:LYS:CE	2.50	0.40
39:o:91:VAL:C	39:o:112:ARG:NH2	2.79	0.40
41:q:35:PHE:CB	41:q:59:ILE:HB	2.37	0.40
41:q:92:TRP:CD1	41:q:93:PHE:N	2.89	0.40
44:t:35:VAL:CG2	44:t:64:ILE:CG2	2.99	0.40
44:t:37:GLY:CA	44:t:61:GLU:HG2	2.51	0.40
45:u:62:THR:HG1	45:u:69:GLU:HA	1.86	0.40
1:A:27:LYS:HG3	1:A:28:ALA:N	2.36	0.40
2:B:10:ILE:HG22	2:B:26:VAL:HA	2.03	0.40
4:D:28:HIS:HB3	4:D:32:GLY:N	2.37	0.40
5:E:4:TYR:CE1	25:a:7:VAL:HG11	2.56	0.40
7:G:72:ARG:HH21	9:I:258:G:H5''	1.87	0.40
8:H:47:ALA:O	8:H:51:ALA:CB	2.70	0.40
9:I:115:A:OP2	9:I:115:A:H3'	2.21	0.40
9:I:117:U:H2'	9:I:118:A:H5''	2.04	0.40
9:I:126:G:C2	9:I:127:G:C8	3.09	0.40
9:I:355:A:C2'	9:I:367:U:O2'	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:391:C:H2'	9:I:392:A:H8	1.86	0.40
9:I:439:C:H2'	9:I:440:A:C5'	2.48	0.40
9:I:453:G:N2	9:I:477:A:C2	2.84	0.40
9:I:540:G:O2'	23:Y:38:GLY:CA	2.69	0.40
9:I:585:C:H2'	9:I:586:G:O4'	2.22	0.40
9:I:608:A:H2'	9:I:609:U:H6	1.86	0.40
9:I:634:A:N3	9:I:635:U:C5	2.90	0.40
9:I:800:U:C2'	9:I:801:A:C8	3.04	0.40
9:I:825:C:H4'	27:c:12:ARG:NH1	2.36	0.40
9:I:834:U:C2	9:I:851:G:N1	2.89	0.40
9:I:992:G:H21	9:I:994:C:N4	2.20	0.40
9:I:998:C:O2'	9:I:999:A:H5'	2.22	0.40
9:I:1039:U:C6	9:I:1039:U:C3'	3.04	0.40
9:I:1088:G:H21	9:I:1169:A:H2'	1.86	0.40
9:I:1197:G:N2	29:e:51:PRO:HG3	2.36	0.40
9:I:1287:A:H61	9:I:1370:G:C1'	2.24	0.40
9:I:1302:C:H2'	9:I:1303:G:O4'	2.22	0.40
9:I:1370:G:N3	9:I:1370:G:H2'	2.36	0.40
9:I:1533:C:C6	9:I:1946:G:N2	2.89	0.40
9:I:1606:C:C6	9:I:1606:C:O5'	2.74	0.40
9:I:1626:A:C8	35:k:18:PHE:CE1	3.10	0.40
9:I:1726:A:C2	9:I:1730:G:C6	3.10	0.40
9:I:1733:A:C6	9:I:1734:U:C2	3.10	0.40
9:I:1769:C:C4	9:I:1924:G:O6	2.75	0.40
9:I:1822:A:C2	9:I:1840:A:C6	3.10	0.40
9:I:1832:A:H3'	9:I:1833:G:H5''	2.04	0.40
9:I:1894:C:C2'	9:I:1895:U:O5'	2.69	0.40
9:I:1916:U:O2	9:I:1916:U:H2'	2.21	0.40
9:I:1932:A:C2	9:I:1933:C:C6	3.09	0.40
9:I:2004:A:O2'	9:I:2005:A:P	2.80	0.40
9:I:2010:C:H3'	9:I:2010:C:OP1	2.22	0.40
9:I:2020:G:P	42:r:25:ARG:HH22	2.45	0.40
9:I:2102:A:C2	9:I:2156:G:C5	3.09	0.40
9:I:2121:A:OP2	18:T:99:ASN:OD1	2.39	0.40
9:I:2152:U:H5''	9:I:2153:U:OP2	2.22	0.40
9:I:2248:G:C4	9:I:2250:A:N7	2.89	0.40
9:I:2296:C:H2'	9:I:2297:G:C8	2.53	0.40
9:I:2318:G:H21	9:I:2683:A:H62	1.70	0.40
9:I:2325:A:O2'	9:I:2326:U:O5'	2.39	0.40
9:I:2337:C:O2	9:I:2337:C:H2'	2.21	0.40
9:I:2442:C:H2'	9:I:2443:G:C8	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:2494:A:N7	9:I:2649:A:C6	2.90	0.40
9:I:2603:C:H6	9:I:2603:C:O5'	2.04	0.40
9:I:2632:G:C5	9:I:2633:G:C1'	3.03	0.40
9:I:2732:G:C2	9:I:2733:G:C5	3.10	0.40
9:I:2815:A:C4	9:I:2816:A:C8	3.09	0.40
9:I:2866:U:C2'	9:I:2867:A:O5'	2.69	0.40
9:I:2890:U:H5'	9:I:2890:U:H6	1.87	0.40
9:I:2973:G:H2'	9:I:2974:C:N1	2.31	0.40
9:I:2992:C:C2'	9:I:2993:C:H5'	2.51	0.40
9:I:3000:U:C2	9:I:3001:C:C6	3.09	0.40
9:I:3079:C:C5	9:I:3080:A:C5	3.09	0.40
9:I:3205:A:C2'	9:I:3206:U:C5'	2.94	0.40
9:I:3236:U:O2	9:I:3236:U:H2'	2.21	0.40
9:I:3384:A:C4	9:I:3385:G:C8	3.10	0.40
9:I:3419:C:H2'	9:I:3420:U:C5	2.56	0.40
9:I:3501:U:C2'	9:I:3502:C:O5'	2.70	0.40
9:I:3588:A:N6	9:I:3690:C:C4	2.89	0.40
9:I:3591:A:C4	9:I:3687:G:C2	3.09	0.40
9:I:3707:U:O2'	9:I:3708:C:C5'	2.69	0.40
9:I:3725:U:N3	9:I:3726:C:C5	2.90	0.40
9:I:3786:U:N1	9:I:3835:G:C2	2.89	0.40
9:I:3792:A:P	9:I:3793:U:OP2	2.79	0.40
9:I:3793:U:H2'	9:I:3794:C:N1	2.36	0.40
9:I:3816:A:C6	9:I:3817:G:C4	3.09	0.40
9:I:4007:A:C4	9:I:4068:G:N2	2.89	0.40
9:I:4010:A:C5	9:I:4011:C:C4	3.09	0.40
9:I:4019:G:C6	9:I:4020:G:C5	3.10	0.40
9:I:4022:U:H2'	9:I:4024:A:C8	2.56	0.40
9:I:4026:G:N2	9:I:4158:G:O4'	2.52	0.40
9:I:4026:G:C4	9:I:4027:U:O4'	2.74	0.40
9:I:4043:G:C6	9:I:4054:A:C6	3.10	0.40
9:I:4129:A:H5''	12:L:79:LEU:CB	2.32	0.40
9:I:4194:A:C2	9:I:4195:U:C5	3.09	0.40
9:I:4241:G:O6	9:I:4248:U:C3'	2.69	0.40
9:I:4267:C:O5'	12:L:169:ARG:NH2	2.51	0.40
9:I:4301:U:C2	9:I:4302:G:N7	2.89	0.40
9:I:4314:A:OP1	20:V:4:ARG:HD2	2.21	0.40
10:J:8:G:O2'	10:J:9:G:H5'	2.21	0.40
10:J:77:A:C5	10:J:78:G:C4	3.10	0.40
10:J:96:C:O2	10:J:96:C:H2'	2.21	0.40
11:K:182:LYS:HD2	11:K:265:PHE:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:56:LYS:O	12:L:57:ALA:C	2.65	0.40
12:L:108:ASP:CG	12:L:109:VAL:N	2.75	0.40
12:L:111:GLY:C	12:L:201:LEU:CD2	2.95	0.40
13:M:5:LEU:HD23	13:M:7:ASP:N	2.28	0.40
13:M:19:PHE:CE1	13:M:109:LEU:CD2	2.94	0.40
13:M:112:LEU:HA	13:M:115:GLN:HB2	2.04	0.40
13:M:113:VAL:HA	13:M:118:LEU:HD12	2.01	0.40
13:M:194:LYS:HE2	13:M:194:LYS:HB2	1.80	0.40
14:N:31:GLU:CG	14:N:156:THR:O	2.69	0.40
14:N:36:ASN:CA	14:N:87:LYS:HB3	2.48	0.40
14:N:59:ILE:CG1	14:N:140:ILE:HG12	2.43	0.40
14:N:145:VAL:HG23	14:N:145:VAL:O	2.21	0.40
15:O:41:GLU:CG	15:O:54:ARG:HG3	2.51	0.40
15:O:92:GLY:O	15:O:93:TYR:HD1	2.05	0.40
16:R:92:MET:HE3	16:R:96:ARG:N	2.36	0.40
17:S:61:VAL:HG12	17:S:87:LEU:HD21	1.92	0.40
19:U:97:GLN:N	19:U:100:LYS:CD	2.70	0.40
20:V:67:PHE:CA	20:V:72:ASP:O	2.59	0.40
21:W:123:PHE:CD2	21:W:126:LEU:HD11	2.56	0.40
23:Y:66:VAL:HG12	23:Y:71:PHE:N	2.37	0.40
24:Z:24:PHE:O	24:Z:44:ALA:O	2.38	0.40
24:Z:72:LEU:HD22	24:Z:87:MET:CE	2.51	0.40
24:Z:142:GLU:HA	24:Z:145:ALA:HB2	2.03	0.40
26:b:59:GLU:O	26:b:63:VAL:HG23	2.21	0.40
28:d:36:PHE:CE1	28:d:69:ILE:CD1	3.05	0.40
29:e:76:THR:O	29:e:80:VAL:HB	2.22	0.40
30:f:2:LYS:O	30:f:3:GLN:O	2.39	0.40
30:f:41:ARG:HG3	30:f:42:GLY:N	2.37	0.40
30:f:47:THR:OG1	30:f:50:ALA:CB	2.69	0.40
31:g:100:ALA:N	31:g:103:CYS:O	2.55	0.40
31:g:119:LYS:O	31:g:121:PRO:HD3	2.21	0.40
32:h:63:VAL:CG1	32:h:68:LEU:HA	2.52	0.40
33:i:13:GLY:O	33:i:16:ARG:N	2.52	0.40
36:l:3:ILE:HB	36:l:63:TYR:HE2	1.81	0.40
36:l:33:THR:CG2	36:l:34:LYS:N	2.83	0.40
36:l:37:THR:O	36:l:40:LYS:HB2	2.21	0.40
36:l:61:LEU:N	36:l:62:PRO:CD	2.84	0.40
38:n:35:TYR:N	38:n:35:TYR:CD1	2.90	0.40
39:o:36:LYS:HZ3	39:o:37:LYS:HE3	1.86	0.40
39:o:52:ARG:CA	39:o:56:SER:OG	2.69	0.40
39:o:98:TYR:CZ	39:o:99:LEU:HD21	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:q:71:LYS:HG2	41:q:90:ARG:CD	2.52	0.40
42:r:51:LEU:HD12	42:r:55:ILE:HG13	2.03	0.40
43:s:10:VAL:O	43:s:34:VAL:HA	2.22	0.40
43:s:68:LYS:O	43:s:75:GLY:N	2.55	0.40
45:u:7:GLU:C	45:u:65:VAL:HG13	2.47	0.40
45:u:56:PHE:C	45:u:58:SER:H	2.29	0.40
45:u:64:VAL:O	45:u:64:VAL:HG12	2.20	0.40
46:v:15:ARG:HD3	46:v:26:ILE:O	2.21	0.40
46:v:43:CYS:HB2	46:v:49:LEU:CD2	2.49	0.40
47:w:26:ARG:CZ	47:w:28:PHE:CE1	3.02	0.40
48:x:19:ASN:O	48:x:22:ARG:CG	2.69	0.40
48:x:27:LEU:HA	48:x:30:GLN:CB	2.49	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	A	98/100 (98%)	90 (92%)	8 (8%)	0	100	100
2	B	86/88 (98%)	78 (91%)	6 (7%)	2 (2%)	5	29
3	C	80/82 (98%)	68 (85%)	10 (12%)	2 (2%)	4	27
4	D	78/80 (98%)	66 (85%)	10 (13%)	2 (3%)	4	26
5	E	53/55 (96%)	47 (89%)	5 (9%)	1 (2%)	6	33
6	F	77/79 (98%)	74 (96%)	2 (3%)	1 (1%)	9	41
7	G	83/85 (98%)	77 (93%)	6 (7%)	0	100	100
8	H	54/56 (96%)	51 (94%)	3 (6%)	0	100	100
11	K	269/271 (99%)	216 (80%)	52 (19%)	1 (0%)	30	66
12	L	207/209 (99%)	171 (83%)	30 (14%)	6 (3%)	3	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	M	199/201 (99%)	172 (86%)	25 (13%)	2 (1%)	12	47
14	N	175/177 (99%)	147 (84%)	27 (15%)	1 (1%)	21	58
15	O	174/176 (99%)	133 (76%)	38 (22%)	3 (2%)	7	35
16	R	140/142 (99%)	113 (81%)	24 (17%)	3 (2%)	5	30
17	S	120/122 (98%)	97 (81%)	20 (17%)	3 (2%)	4	27
18	T	142/144 (99%)	118 (83%)	23 (16%)	1 (1%)	18	55
19	U	133/136 (98%)	119 (90%)	14 (10%)	0	100	100
20	V	118/120 (98%)	100 (85%)	18 (15%)	0	100	100
21	W	222/224 (99%)	211 (95%)	10 (4%)	1 (0%)	24	62
22	X	204/206 (99%)	190 (93%)	12 (6%)	2 (1%)	12	47
23	Y	203/205 (99%)	200 (98%)	3 (2%)	0	100	100
24	Z	148/150 (99%)	127 (86%)	19 (13%)	2 (1%)	9	39
25	a	98/100 (98%)	85 (87%)	11 (11%)	2 (2%)	6	32
26	b	149/151 (99%)	143 (96%)	5 (3%)	1 (1%)	18	55
27	c	127/129 (98%)	116 (91%)	10 (8%)	1 (1%)	16	52
28	d	125/127 (98%)	118 (94%)	6 (5%)	1 (1%)	16	52
29	e	96/98 (98%)	81 (84%)	13 (14%)	2 (2%)	5	30
30	f	115/117 (98%)	94 (82%)	20 (17%)	1 (1%)	14	49
31	g	120/123 (98%)	107 (89%)	13 (11%)	0	100	100
32	h	112/114 (98%)	105 (94%)	6 (5%)	1 (1%)	14	49
33	i	54/56 (96%)	45 (83%)	7 (13%)	2 (4%)	2	20
34	j	48/50 (96%)	41 (85%)	6 (12%)	1 (2%)	5	30
35	k	44/46 (96%)	36 (82%)	7 (16%)	1 (2%)	5	29
36	l	62/64 (97%)	53 (86%)	9 (14%)	0	100	100
37	m	36/38 (95%)	31 (86%)	5 (14%)	0	100	100
38	n	114/116 (98%)	96 (84%)	18 (16%)	0	100	100
39	o	112/114 (98%)	93 (83%)	18 (16%)	1 (1%)	14	49
40	p	115/117 (98%)	97 (84%)	18 (16%)	0	100	100
41	q	101/103 (98%)	79 (78%)	22 (22%)	0	100	100
42	r	108/110 (98%)	94 (87%)	13 (12%)	1 (1%)	14	49
43	s	91/93 (98%)	71 (78%)	19 (21%)	1 (1%)	11	45

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	t	100/102 (98%)	72 (72%)	27 (27%)	1 (1%)	12	47
45	u	92/94 (98%)	80 (87%)	11 (12%)	1 (1%)	11	45
46	v	73/75 (97%)	65 (89%)	8 (11%)	0	100	100
47	w	75/77 (97%)	63 (84%)	12 (16%)	0	100	100
48	x	60/62 (97%)	49 (82%)	10 (17%)	1 (2%)	7	35
49	y	56/58 (97%)	46 (82%)	9 (16%)	1 (2%)	6	34
All	All	5346/5442 (98%)	4625 (86%)	668 (12%)	53 (1%)	15	47

All (53) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	C	43	ALA
11	K	101	ARG
12	L	104	VAL
15	O	91	VAL
16	R	81	ILE
18	T	111	ILE
22	X	65	VAL
24	Z	94	THR
27	c	88	LYS
32	h	3	ILE
33	i	55	ALA
35	k	44	VAL
42	r	62	ASP
43	s	38	ALA
44	t	6	ARG
3	C	79	ASN
4	D	16	LYS
6	F	4	LYS
12	L	150	GLN
12	L	151	THR
17	S	35	VAL
21	W	123	PHE
24	Z	15	THR
25	a	56	LYS
26	b	145	GLU
28	d	22	ASN
29	e	53	VAL
30	f	3	GLN
2	B	45	HIS

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Mol	Chain	Res	Type
14	N	175	PRO
25	a	54	LEU
33	i	54	ILE
39	o	56	SER
2	B	87	ARG
5	E	51	TYR
12	L	194	PRO
16	R	85	LYS
17	S	66	LYS
29	e	32	VAL
45	u	23	ALA
48	x	57	ASN
4	D	77	GLU
12	L	89	GLU
13	M	195	GLN
16	R	39	LYS
17	S	93	GLN
22	X	79	LYS
34	j	48	GLU
49	y	20	LYS
13	M	83	VAL
12	L	152	PRO
15	O	11	PRO
15	O	125	PRO

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	A	83/83 (100%)	83 (100%)	0	100	100
2	B	76/76 (100%)	76 (100%)	0	100	100
3	C	65/65 (100%)	65 (100%)	0	100	100
4	D	74/74 (100%)	74 (100%)	0	100	100
5	E	48/48 (100%)	48 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	F	70/70 (100%)	70 (100%)	0	100	100
7	G	65/65 (100%)	65 (100%)	0	100	100
8	H	48/48 (100%)	48 (100%)	0	100	100
11	K	216/216 (100%)	216 (100%)	0	100	100
12	L	164/164 (100%)	164 (100%)	0	100	100
13	M	165/165 (100%)	165 (100%)	0	100	100
14	N	148/148 (100%)	148 (100%)	0	100	100
15	O	137/137 (100%)	137 (100%)	0	100	100
16	R	116/116 (100%)	116 (100%)	0	100	100
17	S	103/103 (100%)	103 (100%)	0	100	100
18	T	103/103 (100%)	103 (100%)	0	100	100
19	U	108/108 (100%)	107 (99%)	1 (1%)	70	75
20	V	100/100 (100%)	100 (100%)	0	100	100
21	W	186/186 (100%)	186 (100%)	0	100	100
22	X	170/170 (100%)	170 (100%)	0	100	100
23	Y	172/172 (100%)	172 (100%)	0	100	100
24	Z	113/113 (100%)	113 (100%)	0	100	100
25	a	87/87 (100%)	87 (100%)	0	100	100
26	b	124/124 (100%)	124 (100%)	0	100	100
27	c	104/104 (100%)	104 (100%)	0	100	100
28	d	105/105 (100%)	105 (100%)	0	100	100
29	e	86/86 (100%)	86 (100%)	0	100	100
30	f	90/90 (100%)	90 (100%)	0	100	100
31	g	102/102 (100%)	102 (100%)	0	100	100
32	h	92/92 (100%)	92 (100%)	0	100	100
33	i	47/47 (100%)	47 (100%)	0	100	100
34	j	45/45 (100%)	45 (100%)	0	100	100
35	k	38/38 (100%)	38 (100%)	0	100	100
36	l	51/51 (100%)	51 (100%)	0	100	100
37	m	34/34 (100%)	34 (100%)	0	100	100
38	n	86/86 (100%)	86 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	o	99/99 (100%)	99 (100%)	0	100	100
40	p	89/89 (100%)	89 (100%)	0	100	100
41	q	84/84 (100%)	84 (100%)	0	100	100
42	r	93/93 (100%)	93 (100%)	0	100	100
43	s	80/80 (100%)	80 (100%)	0	100	100
44	t	83/83 (100%)	83 (100%)	0	100	100
45	u	78/78 (100%)	78 (100%)	0	100	100
46	v	56/57 (98%)	56 (100%)	0	100	100
47	w	67/67 (100%)	67 (100%)	0	100	100
48	x	54/54 (100%)	54 (100%)	0	100	100
49	y	48/48 (100%)	48 (100%)	0	100	100
All	All	4452/4453 (100%)	4451 (100%)	1 (0%)	100	100

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
19	U	13	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (80) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	GLN
2	B	27	GLN
2	B	34	GLN
3	C	26	ASN
3	C	29	ASN
6	F	50	HIS
11	K	36	ASN
11	K	69	ASN
11	K	162	GLN
11	K	199	HIS
11	K	231	HIS
11	K	242	HIS
11	K	250	GLN
12	L	42	ASN
12	L	58	ASN
12	L	167	ASN

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Mol	Chain	Res	Type
12	L	173	GLN
13	M	62	GLN
15	O	44	HIS
15	O	63	GLN
15	O	110	HIS
15	O	114	HIS
15	O	115	GLN
15	O	138	GLN
16	R	76	HIS
16	R	86	GLN
17	S	3	GLN
17	S	29	HIS
18	T	99	ASN
19	U	45	GLN
20	V	9	GLN
20	V	11	ASN
20	V	23	ASN
20	V	81	ASN
21	W	48	ASN
21	W	117	GLN
21	W	174	ASN
22	X	2	GLN
22	X	139	ASN
23	Y	119	HIS
24	Z	68	ASN
24	Z	69	ASN
24	Z	126	ASN
24	Z	139	ASN
25	a	3	HIS
25	a	11	HIS
25	a	68	GLN
27	c	17	GLN
28	d	72	GLN
28	d	78	HIS
28	d	107	GLN
29	e	31	GLN
29	e	54	ASN
30	f	3	GLN
30	f	26	GLN
31	g	71	HIS
32	h	51	GLN
32	h	90	HIS

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Mol	Chain	Res	Type
33	i	37	HIS
33	i	41	HIS
34	j	43	HIS
35	k	29	GLN
37	m	35	GLN
39	o	9	GLN
39	o	76	HIS
40	p	58	GLN
41	q	66	HIS
42	r	9	HIS
42	r	57	ASN
42	r	60	HIS
43	s	48	GLN
44	t	44	HIS
44	t	68	ASN
45	u	5	ASN
45	u	51	GLN
45	u	78	GLN
46	v	66	ASN
48	x	24	GLN
48	x	26	ASN
48	x	57	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
10	J	117/118 (99%)	54 (46%)	2 (1%)
9	I	4435/4438 (99%)	1494 (33%)	119 (2%)
All	All	4552/4556 (99%)	1548 (34%)	121 (2%)

All (1548) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
9	I	3	U
9	I	4	U
9	I	8	G
9	I	27	A
9	I	31	A
9	I	38	G
9	I	46	C
9	I	47	C

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Mol	Chain	Res	Type
9	I	50	A
9	I	51	C
9	I	58	A
9	I	59	A
9	I	60	G
9	I	69	U
9	I	70	A
9	I	73	A
9	I	74	G
9	I	82	C
9	I	83	U
9	I	86	C
9	I	87	U
9	I	92	U
9	I	93	G
9	I	94	C
9	I	104	G
9	I	107	G
9	I	109	C
9	I	110	G
9	I	115	A
9	I	127	G
9	I	128	A
9	I	129	A
9	I	130	A
9	I	133	G
9	I	134	C
9	I	137	G
9	I	140	G
9	I	141	G
9	I	153	U
9	I	157	G
9	I	159	A
9	I	163	G
9	I	172	U
9	I	177	C
9	I	180	A
9	I	181	A
9	I	182	C
9	I	188	A
9	I	190	G
9	I	197	G

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Mol	Chain	Res	Type
9	I	205	C
9	I	207	U
9	I	208	U
9	I	209	C
9	I	210	G
9	I	211	G
9	I	225	G
9	I	227	A
9	I	228	U
9	I	229	G
9	I	235	A
9	I	239	G
9	I	244	U
9	I	246	G
9	I	249	A
9	I	250	G
9	I	252	A
9	I	253	G
9	I	259	G
9	I	260	U
9	I	265	G
9	I	273	A
9	I	274	G
9	I	275	G
9	I	276	C
9	I	279	C
9	I	281	A
9	I	288	G
9	I	289	C
9	I	292	G
9	I	300	G
9	I	305	A
9	I	307	C
9	I	315	C
9	I	324	A
9	I	327	C
9	I	328	A
9	I	331	G
9	I	338	C
9	I	339	U
9	I	340	C
9	I	346	G

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Mol	Chain	Res	Type
9	I	348	A
9	I	351	C
9	I	353	G
9	I	362	A
9	I	366	U
9	I	367	U
9	I	368	G
9	I	371	C
9	I	376	G
9	I	380	C
9	I	389	U
9	I	390	G
9	I	391	C
9	I	396	A
9	I	397	U
9	I	405	G
9	I	410	A
9	I	411	A
9	I	412	G
9	I	420	U
9	I	421	C
9	I	423	G
9	I	425	U
9	I	428	U
9	I	455	A
9	I	456	G
9	I	457	U
9	I	462	U
9	I	466	U
9	I	467	A
9	I	468	C
9	I	477	A
9	I	478	U
9	I	480	G
9	I	483	G
9	I	484	U
9	I	491	C
9	I	493	G
9	I	494	A
9	I	495	A
9	I	496	G
9	I	510	C

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Mol	Chain	Res	Type
9	I	511	U
9	I	523	G
9	I	526	G7M
9	I	530	U
9	I	531	A
9	I	532	A
9	I	546	A
9	I	557	G
9	I	561	U
9	I	563	C
9	I	567	G
9	I	571	A
9	I	572	A
9	I	574	G
9	I	575	C
9	I	587	G
9	I	595	A
9	I	596	G
9	I	614	G
9	I	619	C
9	I	632	G
9	I	639	A
9	I	641	A
9	I	649	G
9	I	653	G
9	I	664	A
9	I	667	G
9	I	674	A
9	I	675	A
9	I	686	A
9	I	690	G
9	I	700	U
9	I	702	G
9	I	718	C
9	I	720	G
9	I	722	U
9	I	723	G
9	I	735	C
9	I	738	C
9	I	739	U
9	I	740	G
9	I	754	G

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Mol	Chain	Res	Type
9	I	758	A
9	I	762	G
9	I	765	A
9	I	776	A
9	I	778	C
9	I	782	C
9	I	789	A
9	I	792	U
9	I	793	A
9	I	803	U
9	I	814	A
9	I	816	C
9	I	820	G
9	I	827	U
9	I	828	G
9	I	840	C
9	I	841	U
9	I	842	U
9	I	843	G
9	I	844	A
9	I	845	G
9	I	863	A
9	I	872	A
9	I	873	G
9	I	882	C
9	I	901	G
9	I	913	A
9	I	933	C
9	I	934	A
9	I	957	A
9	I	959	U
9	I	968	A
9	I	971	C
9	I	974	A
9	I	975	G
9	I	976	A
9	I	979	C
9	I	980	U
9	I	981	U
9	I	983	C
9	I	986	G
9	I	987	G

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Mol	Chain	Res	Type
9	I	991	U
9	I	992	G
9	I	1007	U
9	I	1008	U
9	I	1014	G
9	I	1016	U
9	I	1020	A
9	I	1025	G
9	I	1027	C
9	I	1029	U
9	I	1030	C
9	I	1032	G
9	I	1035	A
9	I	1036	C
9	I	1040	G
9	I	1042	G
9	I	1044	C
9	I	1045	A
9	I	1046	G
9	I	1049	G
9	I	1053	C
9	I	1055	U
9	I	1059	U
9	I	1061	U
9	I	1062	C
9	I	1063	G
9	I	1064	U
9	I	1065	C
9	I	1077	U
9	I	1078	G
9	I	1080	A
9	I	1093	G
9	I	1094	U
9	I	1097	C
9	I	1100	A
9	I	1123	G
9	I	1132	G
9	I	1134	U
9	I	1135	C
9	I	1136	C
9	I	1138	G
9	I	1139	C

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Mol	Chain	Res	Type
9	I	1140	C
9	I	1141	G
9	I	1144	A
9	I	1145	A
9	I	1150	A
9	I	1151	A
9	I	1157	C
9	I	1158	U
9	I	1159	G
9	I	1160	C
9	I	1166	A
9	I	1167	U
9	I	1183	G
9	I	1188	U
9	I	1191	C
9	I	1195	A
9	I	1196	A
9	I	1200	A
9	I	1201	U
9	I	1202	C
9	I	1203	A
9	I	1211	U
9	I	1212	A
9	I	1216	C
9	I	1217	C
9	I	1223	U
9	I	1224	A
9	I	1225	C
9	I	1226	A
9	I	1237	A
9	I	1239	U
9	I	1255	A
9	I	1260	A
9	I	1263	U
9	I	1267	G
9	I	1274	A
9	I	1279	A
9	I	1285	U
9	I	1286	A
9	I	1293	G
9	I	1298	A
9	I	1301	C

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Mol	Chain	Res	Type
9	I	1304	G
9	I	1316	C
9	I	1319	C
9	I	1330	G
9	I	1337	G
9	I	1345	A
9	I	1352	G
9	I	1358	C
9	I	1361	A
9	I	1362	A
9	I	1363	U
9	I	1367	A
9	I	1373	A
9	I	1374	A
9	I	1377	C
9	I	1378	G
9	I	1398	C
9	I	1399	C
9	I	1404	G
9	I	1406	5MC
9	I	1421	G
9	I	1428	A
9	I	1430	A
9	I	1431	G
9	I	1432	A
9	I	1440	A
9	I	1441	G
9	I	1446	A
9	I	1450	G
9	I	1451	U
9	I	1452	C
9	I	1461	U
9	I	1463	G
9	I	1467	U
9	I	1468	A
9	I	1471	C
9	I	1472	G
9	I	1475	A
9	I	1476	C
9	I	1477	U
9	I	1478	A
9	I	1479	A

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Mol	Chain	Res	Type
9	I	1482	A
9	I	1487	U
9	I	1489	A
9	I	1492	C
9	I	1494	U
9	I	1499	U
9	I	1500	U
9	I	1502	G
9	I	1503	U
9	I	1504	U
9	I	1510	A
9	I	1512	U
9	I	1514	A
9	I	1515	G
9	I	1525	U
9	I	1529	U
9	I	1534	U
9	I	1535	G
9	I	1538	A
9	I	1541	C
9	I	1543	G
9	I	1544	A
9	I	1546	G
9	I	1551	G
9	I	1558	G
9	I	1559	U
9	I	1560	G
9	I	1562	U
9	I	1563	A
9	I	1569	C
9	I	1571	A
9	I	1574	A
9	I	1575	G
9	I	1577	G
9	I	1580	G
9	I	1581	G
9	I	1583	A
9	I	1584	A
9	I	1585	G
9	I	1587	U
9	I	1588	G
9	I	1591	A

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Mol	Chain	Res	Type
9	I	1593	G
9	I	1596	C
9	I	1598	G
9	I	1600	U
9	I	1601	A
9	I	1603	A
9	I	1613	U
9	I	1614	U
9	I	1618	A
9	I	1620	U
9	I	1621	G
9	I	1622	G
9	I	1628	C
9	I	1629	C
9	I	1631	A
9	I	1632	G
9	I	1634	G
9	I	1635	U
9	I	1636	G
9	I	1638	U
9	I	1639	U
9	I	1640	C
9	I	1641	G
9	I	1642	A
9	I	1652	A
9	I	1663	C
9	I	1665	A
9	I	1666	U
9	I	1667	A
9	I	1672	A
9	I	1676	A
9	I	1677	G
9	I	1691	A
9	I	1692	C
9	I	1696	A
9	I	1699	A
9	I	1701	C
9	I	1702	U
9	I	1704	A
9	I	1715	G
9	I	1716	A
9	I	1721	A

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Mol	Chain	Res	Type
9	I	1722	A
9	I	1723	A
9	I	1724	U
9	I	1725	C
9	I	1728	C
9	I	1730	G
9	I	1731	A
9	I	1732	G
9	I	1733	A
9	I	1747	G
9	I	1748	G
9	I	1749	C
9	I	1750	G
9	I	1762	A
9	I	1765	A
9	I	1766	G
9	I	1767	C
9	I	1770	A
9	I	1771	G
9	I	1772	A
9	I	1776	U
9	I	1777	G
9	I	1778	A
9	I	1779	A
9	I	1780	U
9	I	1788	U
9	I	1789	G
9	I	1792	U
9	I	1793	U
9	I	1794	A
9	I	1797	G
9	I	1799	A
9	I	1801	G
9	I	1802	C
9	I	1804	U
9	I	1805	C
9	I	1808	G
9	I	1810	A
9	I	1811	A
9	I	1816	C
9	I	1818	C
9	I	1821	U

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Mol	Chain	Res	Type
9	I	1822	A
9	I	1823	C
9	I	1829	G
9	I	1830	A
9	I	1833	G
9	I	1835	C
9	I	1836	C
9	I	1838	G
9	I	1845	A
9	I	1847	A
9	I	1848	A
9	I	1850	G
9	I	1852	A
9	I	1853	C
9	I	1854	A
9	I	1855	U
9	I	1856	G
9	I	1858	U
9	I	1860	U
9	I	1861	G
9	I	1862	A
9	I	1863	G
9	I	1864	C
9	I	1866	C
9	I	1867	G
9	I	1868	A
9	I	1870	G
9	I	1871	A
9	I	1872	G
9	I	1873	U
9	I	1874	A
9	I	1875	G
9	I	1881	G
9	I	1886	G
9	I	1887	U
9	I	1894	C
9	I	1895	U
9	I	1896	G
9	I	1899	U
9	I	1901	A
9	I	1902	A
9	I	1903	U

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Mol	Chain	Res	Type
9	I	1904	A
9	I	1905	U
9	I	1906	G
9	I	1907	G
9	I	1908	G
9	I	1910	G
9	I	1911	G
9	I	1912	A
9	I	1914	C
9	I	1915	A
9	I	1916	U
9	I	1917	C
9	I	1919	U
9	I	1920	C
9	I	1921	C
9	I	1922	A
9	I	1924	G
9	I	1925	G
9	I	1928	A
9	I	1929	A
9	I	1930	A
9	I	1951	U
9	I	1955	C
9	I	1956	C
9	I	1962	C
9	I	1963	G
9	I	1965	G
9	I	1967	G
9	I	1970	A
9	I	1972	A
9	I	1979	A
9	I	1980	A
9	I	1981	G
9	I	1983	A
9	I	1988	G
9	I	1989	G
9	I	1990	C
9	I	1991	G
9	I	2004	A
9	I	2005	A
9	I	2008	A
9	I	2009	C

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Mol	Chain	Res	Type
9	I	2010	C
9	I	2021	U
9	I	2025	U
9	I	2027	C
9	I	2028	A
9	I	2030	G
9	I	2031	C
9	I	2032	A
9	I	2033	G
9	I	2040	C
9	I	2043	G
9	I	2045	U
9	I	2046	U
9	I	2047	A
9	I	2048	G
9	I	2049	G
9	I	2051	G
9	I	2059	G
9	I	2060	C
9	I	2061	G
9	I	2062	U
9	I	2063	A
9	I	2066	U
9	I	2070	G
9	I	2071	U
9	I	2072	A
9	I	2073	U
9	I	2075	A
9	I	2077	G
9	I	2079	G
9	I	2083	G
9	I	2086	A
9	I	2087	C
9	I	2102	A
9	I	2104	G
9	I	2105	G
9	I	2114	A
9	I	2115	U
9	I	2120	G
9	I	2121	A
9	I	2127	A
9	I	2128	G

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Mol	Chain	Res	Type
9	I	2135	C
9	I	2137	A
9	I	2138	G
9	I	2139	U
9	I	2145	C
9	I	2146	U
9	I	2147	G
9	I	2148	G
9	I	2151	G
9	I	2153	U
9	I	2154	A
9	I	2155	A
9	I	2156	G
9	I	2170	A
9	I	2176	A
9	I	2177	A
9	I	2186	U
9	I	2193	A
9	I	2194	U
9	I	2197	G
9	I	2199	A
9	I	2200	G
9	I	2202	U
9	I	2204	G
9	I	2205	A
9	I	2215	A
9	I	2221	A
9	I	2222	A
9	I	2226	G
9	I	2229	G
9	I	2230	A
9	I	2232	C
9	I	2233	G
9	I	2235	A
9	I	2236	C
9	I	2245	1MG
9	I	2246	PSU
9	I	2247	5MU
9	I	2248	G
9	I	2250	A
9	I	2252	A
9	I	2253	A

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Mol	Chain	Res	Type
9	I	2257	G
9	I	2258	C
9	I	2259	G
9	I	2260	G
9	I	2264	A
9	I	2266	U
9	I	2270	G
9	I	2275	G
9	I	2276	G
9	I	2278	G
9	I	2279	U
9	I	2280	G
9	I	2281	A
9	I	2282	A
9	I	2283	A
9	I	2284	G
9	I	2285	G
9	I	2288	A
9	I	2290	U
9	I	2292	A
9	I	2297	G
9	I	2303	U
9	I	2305	G
9	I	2306	C
9	I	2310	U
9	I	2311	U
9	I	2312	C
9	I	2315	C
9	I	2319	A
9	I	2321	A
9	I	2324	U
9	I	2326	U
9	I	2327	U
9	I	2329	A
9	I	2332	U
9	I	2345	A
9	I	2346	U
9	I	2347	U
9	I	2352	U
9	I	2357	G
9	I	2358	G
9	I	2359	G

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Mol	Chain	Res	Type
9	I	2360	U
9	I	2364	G
9	I	2365	C
9	I	2366	A
9	I	2367	C
9	I	2369	G
9	I	2370	U
9	I	2371	U
9	I	2374	G
9	I	2375	G
9	I	2376	C
9	I	2378	A
9	I	2385	C
9	I	2387	C
9	I	2390	A
9	I	2391	C
9	I	2398	G
9	I	2399	A
9	I	2401	G
9	I	2402	C
9	I	2403	A
9	I	2404	A
9	I	2406	C
9	I	2407	U
9	I	2408	G
9	I	2409	C
9	I	2410	G
9	I	2411	A
9	I	2412	A
9	I	2414	A
9	I	2417	G
9	I	2420	G
9	I	2422	A
9	I	2427	A
9	I	2428	U
9	I	2435	A
9	I	2439	A
9	I	2440	C
9	I	2447	G
9	I	2448	G
9	I	2453	A
9	I	2455	C

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Mol	Chain	Res	Type
9	I	2458	C
9	I	2466	A
9	I	2468	G
9	I	2469	A
9	I	2471	G
9	I	2475	A
9	I	2477	A
9	I	2482	A
9	I	2485	C
9	I	2489	C
9	I	2490	A
9	I	2491	G
9	I	2493	U
9	I	2494	A
9	I	2499	C
9	I	2500	C
9	I	2502	A
9	I	2503	A
9	I	2506	U
9	I	2507	C
9	I	2509	U
9	I	2511	G
9	I	2513	U
9	I	2514	A
9	I	2516	G
9	I	2517	U
9	I	2519	G
9	I	2520	G
9	I	2521	A
9	I	2522	A
9	I	2523	A
9	I	2524	C
9	I	2527	U
9	I	2533	A
9	I	2537	C
9	I	2539	C
9	I	2540	A
9	I	2541	G
9	I	2543	C
9	I	2547	C
9	I	2551	A
9	I	2557	G

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Mol	Chain	Res	Type
9	I	2563	A
9	I	2564	A
9	I	2565	G
9	I	2576	U
9	I	2578	A
9	I	2579	A
9	I	2581	G
9	I	2582	A
9	I	2584	A
9	I	2591	U
9	I	2605	A
9	I	2606	G
9	I	2607	U
9	I	2610	G
9	I	2613	U
9	I	2618	G
9	I	2620	A
9	I	2622	G
9	I	2624	U
9	I	2626	U
9	I	2627	A
9	I	2628	A
9	I	2629	C
9	I	2630	G
9	I	2633	G
9	I	2634	C
9	I	2636	A
9	I	2638	A
9	I	2645	A
9	I	2646	C
9	I	2649	A
9	I	2664	C
9	I	2665	G
9	I	2666	C
9	I	2667	U
9	I	2668	U
9	I	2669	A
9	I	2670	U
9	I	2671	G
9	I	2672	C
9	I	2673	G
9	I	2674	U

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Mol	Chain	Res	Type
9	I	2676	G
9	I	2680	G
9	I	2685	G
9	I	2691	G
9	I	2699	A
9	I	2700	G
9	I	2702	C
9	I	2704	G
9	I	2705	C
9	I	2706	G
9	I	2707	A
9	I	2717	G
9	I	2718	U
9	I	2719	G
9	I	2721	G
9	I	2725	U
9	I	2730	G
9	I	2731	A
9	I	2732	G
9	I	2735	A
9	I	2742	G
9	I	2744	G
9	I	2746	G
9	I	2747	A
9	I	2749	U
9	I	2750	G
9	I	2752	U
9	I	2758	A
9	I	2760	G
9	I	2761	U
9	I	2762	A
9	I	2764	C
9	I	2765	G
9	I	2766	A
9	I	2767	U
9	I	2768	A
9	I	2770	A
9	I	2772	C
9	I	2778	A
9	I	2780	A
9	I	2781	A
9	I	2789	C

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Mol	Chain	Res	Type
9	I	2791	C
9	I	2794	G
9	I	2795	A
9	I	2796	A
9	I	2806	U
9	I	2808	C
9	I	2817	C
9	I	2822	A
9	I	2823	U
9	I	2824	C
9	I	2833	G
9	I	2835	G
9	I	2836	A
9	I	2839	C
9	I	2841	A
9	I	2843	C
9	I	2846	U
9	I	2848	A
9	I	2855	G
9	I	2857	C
9	I	2858	G
9	I	2859	A
9	I	2864	C
9	I	2872	A
9	I	2873	U
9	I	2874	G
9	I	2875	G
9	I	2877	A
9	I	2878	A
9	I	2879	A
9	I	2881	A
9	I	2885	U
9	I	2887	A
9	I	2889	A
9	I	2890	U
9	I	2894	U
9	I	2895	G
9	I	2897	A
9	I	2901	G
9	I	2910	G
9	I	2911	C
9	I	2913	A

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Mol	Chain	Res	Type
9	I	2914	A
9	I	2915	G
9	I	2916	G
9	I	2917	G
9	I	2918	G
9	I	2919	G
9	I	2921	A
9	I	2922	C
9	I	2927	A
9	I	2929	G
9	I	2930	G
9	I	2936	U
9	I	2944	G
9	I	2946	G
9	I	2947	A
9	I	2948	C
9	I	2952	U
9	I	2955	C
9	I	2963	A
9	I	2964	A
9	I	2967	G
9	I	2970	U
9	I	2976	G
9	I	2978	U
9	I	2979	U
9	I	2981	U
9	I	2984	A
9	I	2985	G
9	I	2987	C
9	I	2988	A
9	I	2989	A
9	I	2990	A
9	I	2991	U
9	I	2992	C
9	I	2993	C
9	I	2997	A
9	I	3002	A
9	I	3004	G
9	I	3007	U
9	I	3008	G
9	I	3009	A
9	I	3010	G

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Mol	Chain	Res	Type
9	I	3012	C
9	I	3013	G
9	I	3016	A
9	I	3017	U
9	I	3018	G
9	I	3019	A
9	I	3022	A
9	I	3028	U
9	I	3029	A
9	I	3030	C
9	I	3031	G
9	I	3032	G
9	I	3035	C
9	I	3038	A
9	I	3041	C
9	I	3042	A
9	I	3043	A
9	I	3044	C
9	I	3048	U
9	I	3049	G
9	I	3051	C
9	I	3056	U
9	I	3057	U
9	I	3058	C
9	I	3059	C
9	I	3060	A
9	I	3061	G
9	I	3063	A
9	I	3067	G
9	I	3072	U
9	I	3077	A
9	I	3078	U
9	I	3079	C
9	I	3081	G
9	I	3087	A
9	I	3090	A
9	I	3091	A
9	I	3092	A
9	I	3096	U
9	I	3099	C
9	I	3100	C
9	I	3101	C

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Mol	Chain	Res	Type
9	I	3102	A
9	I	3104	A
9	I	3110	A
9	I	3111	C
9	I	3112	6MZ
9	I	3113	G
9	I	3116	G
9	I	3121	G
9	I	3124	A
9	I	3125	G
9	I	3128	A
9	I	3140	C
9	I	3141	U
9	I	3142	U
9	I	3143	G
9	I	3146	A
9	I	3147	G
9	I	3148	A
9	I	3158	A
9	I	3161	G
9	I	3162	A
9	I	3164	C
9	I	3165	U
9	I	3168	G
9	I	3171	A
9	I	3174	U
9	I	3176	G
9	I	3178	G
9	I	3179	C
9	I	3180	C
9	I	3181	G
9	I	3182	U
9	I	3187	U
9	I	3189	G
9	I	3190	G
9	I	3193	G
9	I	3198	C
9	I	3199	A
9	I	3201	G
9	I	3204	G
9	I	3208	U
9	I	3209	G

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Mol	Chain	Res	Type
9	I	3210	U
9	I	3214	U
9	I	3216	A
9	I	3218	G
9	I	3223	U
9	I	3224	C
9	I	3225	G
9	I	3226	C
9	I	3227	G
9	I	3232	G
9	I	3233	A
9	I	3236	U
9	I	3242	C
9	I	3244	G
9	I	3246	C
9	I	3247	G
9	I	3248	A
9	I	3249	A
9	I	3250	G
9	I	3251	A
9	I	3253	A
9	I	3256	A
9	I	3258	C
9	I	3263	U
9	I	3264	G
9	I	3267	A
9	I	3269	U
9	I	3270	G
9	I	3272	U
9	I	3273	U
9	I	3283	A
9	I	3286	G
9	I	3287	C
9	I	3291	G
9	I	3293	G
9	I	3294	C
9	I	3295	A
9	I	3296	A
9	I	3297	A
9	I	3302	A
9	I	3303	A
9	I	3304	A

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Mol	Chain	Res	Type
9	I	3306	U
9	I	3307	G
9	I	3310	C
9	I	3311	G
9	I	3312	U
9	I	3314	U
9	I	3315	A
9	I	3323	A
9	I	3328	U
9	I	3329	2MG
9	I	3330	C
9	I	3331	C
9	I	3332	C
9	I	3333	G
9	I	3338	C
9	I	3340	G
9	I	3341	A
9	I	3344	G
9	I	3350	U
9	I	3353	U
9	I	3354	G
9	I	3356	G
9	I	3357	G
9	I	3358	U
9	I	3359	U
9	I	3360	A
9	I	3361	G
9	I	3363	G
9	I	3364	C
9	I	3365	A
9	I	3369	G
9	I	3370	A
9	I	3371	A
9	I	3372	G
9	I	3379	A
9	I	3380	U
9	I	3382	G
9	I	3383	A
9	I	3388	C
9	I	3391	G
9	I	3393	A
9	I	3394	A

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Mol	Chain	Res	Type
9	I	3395	A
9	I	3400	G
9	I	3408	C
9	I	3415	G
9	I	3420	U
9	I	3421	A
9	I	3423	G
9	I	3424	G
9	I	3427	G
9	I	3429	G
9	I	3430	A
9	I	3431	A
9	I	3432	A
9	I	3433	5MU
9	I	3434	U
9	I	3435	C
9	I	3437	U
9	I	3439	G
9	I	3444	G
9	I	3445	U
9	I	3449	U
9	I	3453	G
9	I	3457	U
9	I	3458	G
9	I	3461	C
9	I	3464	A
9	I	3465	U
9	I	3466	G
9	I	3467	G
9	I	3471	A
9	I	3485	U
9	I	3486	G
9	I	3488	C
9	I	3489	U
9	I	3490	C
9	I	3491	C
9	I	3499	A
9	I	3508	A
9	I	3509	A
9	I	3511	U
9	I	3512	G
9	I	3516	U

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Mol	Chain	Res	Type
9	I	3517	C
9	I	3522	U
9	I	3523	G
9	I	3524	6MZ
9	I	3525	A
9	I	3526	G
9	I	3527	A
9	I	3528	U
9	I	3533	U
9	I	3535	U
9	I	3536	A
9	I	3537	C
9	I	3549	C
9	I	3550	G
9	I	3554	A
9	I	3555	G
9	I	3562	U
9	I	3563	G7M
9	I	3574	A
9	I	3583	C
9	I	3585	C
9	I	3586	U
9	I	3587	G
9	I	3588	A
9	I	3590	C
9	I	3591	A
9	I	3594	G
9	I	3595	A
9	I	3598	C
9	I	3605	U
9	I	3606	G
9	I	3607	U
9	I	3609	G
9	I	3610	G
9	I	3611	A
9	I	3612	U
9	I	3614	G
9	I	3615	G
9	I	3618	G
9	I	3620	A
9	I	3622	G
9	I	3625	U

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Mol	Chain	Res	Type
9	I	3626	U
9	I	3627	G
9	I	3633	U
9	I	3634	G
9	I	3640	C
9	I	3641	A
9	I	3643	U
9	I	3652	A
9	I	3653	G
9	I	3657	A
9	I	3658	C
9	I	3659	C
9	I	3663	A
9	I	3665	A
9	I	3666	U
9	I	3667	A
9	I	3676	U
9	I	3680	G
9	I	3683	U
9	I	3684	G
9	I	3688	U
9	I	3690	C
9	I	3691	U
9	I	3692	A
9	I	3693	A
9	I	3695	G
9	I	3697	U
9	I	3698	G
9	I	3704	U
9	I	3705	A
9	I	3706	A
9	I	3707	U
9	I	3708	C
9	I	3714	U
9	I	3719	A
9	I	3720	C
9	I	3727	U
9	I	3729	G
9	I	3732	G
9	I	3734	U
9	I	3740	G
9	I	3743	U

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Mol	Chain	Res	Type
9	I	3757	C
9	I	3761	A
9	I	3762	A
9	I	3769	C
9	I	3772	A
9	I	3774	G
9	I	3776	G
9	I	3777	C
9	I	3781	A
9	I	3782	A
9	I	3784	G
9	I	3785	U
9	I	3786	U
9	I	3787	G
9	I	3788	G
9	I	3789	C
9	I	3790	U
9	I	3791	A
9	I	3792	A
9	I	3793	U
9	I	3794	C
9	I	3796	U
9	I	3799	U
9	I	3802	G
9	I	3803	A
9	I	3805	A
9	I	3809	G
9	I	3811	A
9	I	3812	G
9	I	3813	G
9	I	3816	A
9	I	3819	G
9	I	3820	C
9	I	3821	A
9	I	3822	A
9	I	3825	G
9	I	3826	C
9	I	3827	A
9	I	3828	U
9	I	3829	A
9	I	3831	G
9	I	3833	C

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Mol	Chain	Res	Type
9	I	3837	U
9	I	3839	G
9	I	3840	A
9	I	3841	C
9	I	3849	G
9	I	3851	G
9	I	3852	A
9	I	3856	C
9	I	3857	G
9	I	3858	C
9	I	3859	G
9	I	3861	G
9	I	3862	C
9	I	3863	A
9	I	3866	U
9	I	3867	G
9	I	3868	C
9	I	3870	A
9	I	3871	A
9	I	3873	G
9	I	3877	G
9	I	3879	C
9	I	3881	U
9	I	3882	A
9	I	3883	G
9	I	3884	U
9	I	3885	G
9	I	3888	C
9	I	3894	G
9	I	3896	U
9	I	3897	C
9	I	3899	G
9	I	3900	A
9	I	3902	U
9	I	3911	C
9	I	3912	A
9	I	3916	C
9	I	3917	U
9	I	3918	C
9	I	3919	A
9	I	3920	A
9	I	3922	G

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Mol	Chain	Res	Type
9	I	3923	G
9	I	3924	A
9	I	3925	U
9	I	3928	A
9	I	3935	U
9	I	3939	2MG
9	I	3941	G
9	I	3942	A
9	I	3960	C
9	I	3961	C
9	I	3962	A
9	I	3963	A
9	I	3966	G
9	I	3967	U
9	I	3970	A
9	I	3971	U
9	I	3976	A
9	I	3981	G
9	I	3985	U
9	I	3986	U
9	I	3988	G
9	I	3990	C
9	I	3991	A
9	I	3992	OMC
9	I	3994	U
9	I	3996	G
9	I	3997	2MA
9	I	3998	PSU
9	I	3999	G
9	I	4003	G
9	I	4005	U
9	I	4007	A
9	I	4012	A
9	I	4013	U
9	I	4017	G
9	I	4021	C
9	I	4024	A
9	I	4027	U
9	I	4041	A
9	I	4044	G
9	I	4046	OMU
9	I	4048	U

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Mol	Chain	Res	Type
9	I	4058	A
9	I	4059	A
9	I	4060	A
9	I	4061	G
9	I	4065	U
9	I	4066	A
9	I	4067	C
9	I	4068	G
9	I	4072	G
9	I	4076	G
9	I	4079	U
9	I	4080	U
9	I	4081	A
9	I	4084	A
9	I	4089	G
9	I	4091	G
9	I	4097	G
9	I	4099	PSU
9	I	4103	U
9	I	4106	C
9	I	4107	U
9	I	4120	C
9	I	4123	U
9	I	4124	G
9	I	4132	G
9	I	4135	G
9	I	4138	G
9	I	4140	C
9	I	4143	C
9	I	4145	C
9	I	4149	G
9	I	4150	U
9	I	4153	G
9	I	4154	A
9	I	4155	G
9	I	4162	G
9	I	4163	G
9	I	4165	G
9	I	4168	G
9	I	4175	C
9	I	4176	A
9	I	4177	C

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Mol	Chain	Res	Type
9	I	4178	U
9	I	4179	G
9	I	4183	U
9	I	4184	U
9	I	4185	C
9	I	4186	G
9	I	4187	G
9	I	4190	U
9	I	4191	G
9	I	4192	U
9	I	4193	C
9	I	4194	A
9	I	4195	U
9	I	4197	C
9	I	4198	C
9	I	4199	A
9	I	4200	A
9	I	4202	G
9	I	4204	C
9	I	4208	G
9	I	4212	G
9	I	4213	G
9	I	4215	A
9	I	4216	G
9	I	4218	U
9	I	4219	A
9	I	4220	A
9	I	4223	G
9	I	4227	A
9	I	4229	G
9	I	4232	A
9	I	4233	U
9	I	4236	G
9	I	4237	U
9	I	4240	U
9	I	4241	G
9	I	4242	A
9	I	4244	A
9	I	4245	G
9	I	4248	U
9	I	4249	C
9	I	4250	U

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Mol	Chain	Res	Type
9	I	4251	A
9	I	4252	A
9	I	4253	G
9	I	4257	G
9	I	4258	A
9	I	4259	A
9	I	4260	A
9	I	4262	U
9	I	4265	C
9	I	4269	G
9	I	4272	A
9	I	4273	U
9	I	4274	G
9	I	4275	A
9	I	4276	G
9	I	4279	C
9	I	4280	U
9	I	4282	C
9	I	4283	C
9	I	4285	G
9	I	4286	A
9	I	4287	C
9	I	4288	C
9	I	4291	U
9	I	4292	U
9	I	4293	A
9	I	4299	C
9	I	4301	U
9	I	4305	G
9	I	4311	U
9	I	4312	U
9	I	4314	A
9	I	4315	A
9	I	4319	G
9	I	4326	U
9	I	4327	U
9	I	4328	G
9	I	4329	A
9	I	4331	A
9	I	4335	C
9	I	4343	U
9	I	4344	A

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Mol	Chain	Res	Type
9	I	4353	C
9	I	4354	U
9	I	4355	U
9	I	4364	C
9	I	4367	U
9	I	4375	U
9	I	4407	A
9	I	4409	G
9	I	4410	U
9	I	4416	U
9	I	4421	G
9	I	4429	G
9	I	4433	G
9	I	4434	G
9	I	4437	C
9	I	4438	A
10	J	8	G
10	J	11	C
10	J	12	G
10	J	14	A
10	J	15	G
10	J	16	C
10	J	22	G
10	J	24	U
10	J	27	C
10	J	30	C
10	J	31	U
10	J	32	G
10	J	33	A
10	J	34	C
10	J	36	C
10	J	40	G
10	J	41	C
10	J	43	G
10	J	44	A
10	J	46	C
10	J	48	C
10	J	49	A
10	J	50	G
10	J	51	A
10	J	55	G
10	J	56	A

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Mol	Chain	Res	Type
10	J	61	C
10	J	64	U
10	J	65	A
10	J	66	G
10	J	72	A
10	J	74	G
10	J	75	G
10	J	76	U
10	J	82	G
10	J	86	U
10	J	87	C
10	J	88	U
10	J	89	C
10	J	95	G
10	J	97	G
10	J	98	A
10	J	100	A
10	J	104	G
10	J	105	G
10	J	107	A
10	J	108	A
10	J	109	C
10	J	111	G
10	J	112	C
10	J	113	C
10	J	114	A
10	J	116	G
10	J	118	A

All (121) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
9	I	3	U
9	I	132	U
9	I	196	A
9	I	208	U
9	I	227	A
9	I	228	U
9	I	249	A
9	I	252	A
9	I	273	A
9	I	390	G

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Mol	Chain	Res	Type
9	I	410	A
9	I	427	G
9	I	571	A
9	I	673	G
9	I	719	C
9	I	757	C
9	I	819	U
9	I	990	U
9	I	1077	U
9	I	1138	G
9	I	1156	A
9	I	1210	U
9	I	1215	A
9	I	1259	G
9	I	1266	C
9	I	1445	A
9	I	1475	A
9	I	1476	C
9	I	1486	G
9	I	1499	U
9	I	1584	A
9	I	1600	U
9	I	1690	A
9	I	1723	A
9	I	1770	A
9	I	1771	G
9	I	1777	G
9	I	1820	A
9	I	1829	G
9	I	1835	C
9	I	1846	A
9	I	1904	A
9	I	1928	A
9	I	1964	U
9	I	1969	G
9	I	1979	A
9	I	2007	A
9	I	2042	C
9	I	2085	G
9	I	2104	G
9	I	2127	A
9	I	2138	G

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Mol	Chain	Res	Type
9	I	2147	G
9	I	2247	5MU
9	I	2280	G
9	I	2284	G
9	I	2357	G
9	I	2363	A
9	I	2403	A
9	I	2438	C
9	I	2484	A
9	I	2505	G
9	I	2578	A
9	I	2590	A
9	I	2718	U
9	I	2734	U
9	I	2743	U
9	I	2757	U
9	I	2769	A
9	I	2807	U
9	I	2822	A
9	I	2832	G
9	I	2873	U
9	I	2877	A
9	I	3058	C
9	I	3060	A
9	I	3163	A
9	I	3175	G
9	I	3181	G
9	I	3225	G
9	I	3250	G
9	I	3310	C
9	I	3327	C
9	I	3360	A
9	I	3407	A
9	I	3488	C
9	I	3594	G
9	I	3621	G
9	I	3640	C
9	I	3656	G
9	I	3679	U
9	I	3692	A
9	I	3705	A
9	I	3719	A

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Mol	Chain	Res	Type
9	I	3761	A
9	I	3768	A
9	I	3780	G
9	I	3808	A
9	I	3815	U
9	I	3820	C
9	I	3840	A
9	I	3883	G
9	I	3919	A
9	I	3921	C
9	I	3975	G
9	I	3989	G
9	I	4040	U
9	I	4058	A
9	I	4071	A
9	I	4096	A
9	I	4174	U
9	I	4177	C
9	I	4214	U
9	I	4244	A
9	I	4249	C
9	I	4250	U
9	I	4291	U
9	I	4314	A
9	I	4325	G
10	J	71	G
10	J	94	U

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

35 non-standard protein/DNA/RNA residues are 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	$\# Z > 2$
9	PSU	I	3411	9	18,21,22	4.61	8 (44%)	21,30,33	1.94	6 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
9	2MG	I	4420	9	23,26,27	2.98	9 (39%)	33,38,41	2.18	10 (30%)
9	2MG	I	3329	9	23,26,27	2.94	9 (39%)	33,38,41	2.27	9 (27%)
9	5MC	I	1406	9	19,22,23	3.99	9 (47%)	26,32,35	1.00	1 (3%)
9	MA6	I	4422	9	23,26,27	1.35	4 (17%)	33,38,41	4.72	13 (39%)
9	PSU	I	3951	9	18,21,22	4.33	8 (44%)	21,30,33	2.54	7 (33%)
9	6MZ	I	3524	9	22,25,26	2.51	5 (22%)	29,36,39	2.45	12 (41%)
9	5MC	I	966	9	19,22,23	4.12	9 (47%)	26,32,35	1.02	1 (3%)
19	4D4	U	81	19	9,11,12	2.74	3 (33%)	7,13,15	0.82	0
9	2MG	I	965	9	23,26,27	3.01	9 (39%)	33,38,41	2.15	10 (30%)
9	PSU	I	4099	9	18,21,22	4.39	9 (50%)	21,30,33	2.07	7 (33%)
9	2MG	I	1206	9	23,26,27	3.01	8 (34%)	33,38,41	2.16	10 (30%)
31	D2T	g	88	31	8,9,10	2.93	1 (12%)	6,11,13	2.42	2 (33%)
9	2MA	I	3997	9	22,25,26	3.78	7 (31%)	32,37,40	3.23	11 (34%)
9	3TD	I	3409	9	19,22,23	4.14	6 (31%)	23,32,35	1.74	3 (13%)
9	4OC	I	1401	9	20,23,24	3.16	8 (40%)	25,32,35	0.84	0
9	MA6	I	4423	9	23,26,27	1.35	4 (17%)	33,38,41	4.77	13 (39%)
9	PSU	I	3998	9	18,21,22	4.50	9 (50%)	21,30,33	2.19	5 (23%)
9	G7M	I	3563	9	23,26,27	2.78	8 (34%)	34,39,42	1.89	8 (23%)
9	OMC	I	3992	9	19,22,23	3.34	8 (42%)	25,31,34	0.81	0
9	5MC	I	3456	9	19,22,23	3.89	9 (47%)	26,32,35	1.11	1 (3%)
9	6MZ	I	3112	9	22,25,26	2.59	4 (18%)	29,36,39	2.30	9 (31%)
9	PSU	I	3405	9	18,21,22	4.57	8 (44%)	21,30,33	2.12	5 (23%)
9	PSU	I	2246	9	18,21,22	4.61	8 (44%)	21,30,33	2.51	6 (28%)
9	PSU	I	2449	9	18,21,22	4.36	8 (44%)	21,30,33	2.23	5 (23%)
9	PSU	I	515	9	18,21,22	4.58	8 (44%)	21,30,33	2.18	6 (28%)
9	2MG	I	3939	9	23,26,27	2.81	9 (39%)	33,38,41	2.35	9 (27%)
9	OMG	I	3745	9	23,26,27	2.58	9 (39%)	32,38,41	1.97	9 (28%)
9	1MG	I	2245	9	23,26,27	2.77	8 (34%)	33,39,42	1.53	5 (15%)
9	5MU	I	3433	9	19,22,23	4.60	6 (31%)	27,32,35	3.84	10 (37%)
9	G7M	I	526	9	23,26,27	2.85	9 (39%)	34,39,42	1.74	8 (23%)
9	5MU	I	2247	9	19,22,23	4.64	6 (31%)	27,32,35	3.79	10 (37%)
9	OMU	I	4046	9	19,22,23	2.86	6 (31%)	25,31,34	1.83	4 (16%)
9	UR3	I	4402	9	19,22,23	2.86	8 (42%)	26,32,35	1.61	4 (15%)
9	PSU	I	4074	9	18,21,22	4.37	9 (50%)	21,30,33	2.18	5 (23%)

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
9	PSU	I	3411	9	-	1/7/25/26	0/2/2/2
9	2MG	I	4420	9	-	1/9/27/28	0/3/3/3
9	2MG	I	3329	9	-	1/9/27/28	0/3/3/3
9	5MC	I	1406	9	-	4/7/25/26	0/2/2/2
9	MA6	I	4422	9	-	4/11/29/30	0/3/3/3
9	PSU	I	3951	9	-	2/7/25/26	0/2/2/2
9	6MZ	I	3524	9	-	4/9/27/28	0/3/3/3
9	5MC	I	966	9	-	1/7/25/26	0/2/2/2
19	4D4	U	81	19	-	5/11/12/14	-
9	2MG	I	965	9	-	2/9/27/28	0/3/3/3
9	PSU	I	4099	9	-	5/7/25/26	0/2/2/2
9	2MG	I	1206	9	-	1/9/27/28	0/3/3/3
31	D2T	g	88	31	-	3/7/12/14	-
9	2MA	I	3997	9	-	4/7/25/26	0/3/3/3
9	3TD	I	3409	9	-	1/7/25/26	0/2/2/2
9	4OC	I	1401	9	-	1/9/29/30	0/2/2/2
9	MA6	I	4423	9	-	1/11/29/30	0/3/3/3
9	PSU	I	3998	9	-	2/7/25/26	0/2/2/2
9	G7M	I	3563	9	-	1/7/25/26	0/3/3/3
9	OMC	I	3992	9	-	4/9/27/28	0/2/2/2
9	5MC	I	3456	9	-	4/7/25/26	0/2/2/2
9	6MZ	I	3112	9	-	6/9/27/28	0/3/3/3
9	PSU	I	3405	9	-	0/7/25/26	0/2/2/2
9	PSU	I	2246	9	-	3/7/25/26	0/2/2/2
9	PSU	I	2449	9	-	2/7/25/26	0/2/2/2
9	PSU	I	515	9	-	0/7/25/26	0/2/2/2
9	2MG	I	3939	9	-	2/9/27/28	0/3/3/3
9	OMG	I	3745	9	-	0/9/27/28	0/3/3/3
9	1MG	I	2245	9	-	2/7/25/26	0/3/3/3
9	5MU	I	3433	9	-	1/7/25/26	0/2/2/2
9	G7M	I	526	9	-	3/7/25/26	0/3/3/3
9	5MU	I	2247	9	-	2/7/25/26	0/2/2/2
9	OMU	I	4046	9	-	4/9/27/28	0/2/2/2
9	UR3	I	4402	9	-	4/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
9	PSU	I	4074	9	-	2/7/25/26	0/2/2/2

All (256) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	3409	3TD	C6-C5	12.54	1.49	1.35
9	I	3411	PSU	C6-C5	12.31	1.48	1.35
9	I	2246	PSU	C6-C5	12.21	1.48	1.35
9	I	515	PSU	C6-C5	11.97	1.48	1.35
9	I	3405	PSU	C6-C5	11.97	1.48	1.35
9	I	3998	PSU	C6-C5	11.60	1.48	1.35
9	I	4074	PSU	C6-C5	11.43	1.47	1.35
9	I	3951	PSU	C6-C5	11.21	1.47	1.35
9	I	4099	PSU	C6-C5	11.21	1.47	1.35
9	I	2449	PSU	C6-C5	11.18	1.47	1.35
9	I	3112	6MZ	C6-N6	10.63	1.46	1.34
9	I	2247	5MU	C2-N1	10.48	1.54	1.38
9	I	2247	5MU	C6-N1	10.39	1.55	1.38
9	I	3997	2MA	C4-N3	10.28	1.47	1.34
9	I	3433	5MU	C2-N1	10.21	1.54	1.38
9	I	3433	5MU	C6-N1	10.18	1.55	1.38
9	I	2246	PSU	C2-N1	10.11	1.49	1.36
9	I	3405	PSU	C2-N1	10.05	1.49	1.36
9	I	3411	PSU	C2-N1	9.94	1.49	1.36
9	I	3998	PSU	C2-N1	9.92	1.49	1.36
9	I	3524	6MZ	C6-N6	9.90	1.45	1.34
9	I	515	PSU	C2-N1	9.90	1.49	1.36
9	I	966	5MC	C6-C5	9.87	1.50	1.34
9	I	2449	PSU	C2-N1	9.79	1.49	1.36
9	I	4099	PSU	C2-N1	9.65	1.49	1.36
9	I	3951	PSU	C2-N1	9.54	1.49	1.36
9	I	1406	5MC	C6-C5	9.42	1.49	1.34
9	I	4074	PSU	C2-N1	9.40	1.48	1.36
9	I	3409	3TD	C2-N1	9.38	1.48	1.37
9	I	3433	5MU	C4-C5	9.29	1.59	1.44
9	I	3456	5MC	C6-C5	9.26	1.49	1.34
9	I	2247	5MU	C4-C5	9.13	1.59	1.44
9	I	3997	2MA	C2-N3	8.40	1.48	1.34
9	I	2246	PSU	C2-N3	8.13	1.50	1.37
9	I	515	PSU	C2-N3	8.10	1.50	1.37
9	I	3405	PSU	C2-N3	8.02	1.50	1.37
9	I	3998	PSU	C2-N3	8.01	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	3411	PSU	C2-N3	7.88	1.50	1.37
9	I	1206	2MG	C2-N3	7.86	1.47	1.32
9	I	966	5MC	C4-N3	7.81	1.46	1.34
9	I	4420	2MG	C2-N3	7.73	1.46	1.32
31	g	88	D2T	CB-CA	-7.71	1.52	1.54
9	I	965	2MG	C2-N3	7.70	1.46	1.32
9	I	4099	PSU	C2-N3	7.67	1.50	1.37
9	I	2449	PSU	C2-N3	7.67	1.50	1.37
9	I	4074	PSU	C2-N3	7.65	1.50	1.37
9	I	4402	UR3	C2-N1	7.63	1.49	1.38
9	I	1406	5MC	C4-N3	7.61	1.46	1.34
9	I	3329	2MG	C2-N3	7.60	1.46	1.32
9	I	3951	PSU	C2-N3	7.58	1.50	1.37
9	I	3433	5MU	C4-N3	-7.56	1.24	1.38
9	I	2247	5MU	C4-N3	-7.49	1.24	1.38
9	I	3456	5MC	C4-N3	7.45	1.46	1.34
9	I	1401	4OC	C4-N3	7.35	1.45	1.32
9	I	3745	OMG	C4-N3	7.19	1.50	1.34
9	I	2245	1MG	C2-N3	7.13	1.44	1.33
9	I	3939	2MG	C2-N3	7.13	1.45	1.32
9	I	1206	2MG	C4-N3	6.89	1.50	1.34
9	I	4420	2MG	C4-N3	6.83	1.49	1.34
9	I	965	2MG	C4-N3	6.77	1.49	1.34
9	I	4046	OMU	C2-N1	6.76	1.49	1.38
9	I	966	5MC	C2-N3	6.73	1.49	1.36
9	I	526	G7M	C4-N3	6.73	1.49	1.34
9	I	526	G7M	C2-N2	6.55	1.49	1.34
9	I	3329	2MG	C4-N3	6.51	1.49	1.34
19	U	81	4D4	CZ-NE	6.50	1.45	1.33
9	I	3992	OMC	C6-C5	6.49	1.50	1.35
9	I	4046	OMU	C2-N3	6.46	1.49	1.38
9	I	3992	OMC	C2-N3	6.45	1.49	1.36
9	I	1406	5MC	C2-N3	6.44	1.49	1.36
9	I	2247	5MU	C6-C5	6.44	1.45	1.34
9	I	3456	5MC	C2-N3	6.44	1.49	1.36
9	I	1406	5MC	C5-C4	6.41	1.49	1.44
9	I	3563	G7M	C4-N3	6.40	1.48	1.34
9	I	3997	2MA	C2-N1	6.32	1.44	1.34
9	I	1206	2MG	C2-N2	6.31	1.46	1.33
9	I	965	2MG	C2-N2	6.31	1.46	1.33
9	I	3433	5MU	C6-C5	6.30	1.44	1.34
9	I	3997	2MA	C6-N1	6.27	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	4420	2MG	C2-N2	6.26	1.46	1.33
9	I	1401	4OC	C2-N3	6.25	1.48	1.36
9	I	966	5MC	C5-C4	6.24	1.48	1.44
9	I	4402	UR3	C6-C5	6.23	1.49	1.35
9	I	3563	G7M	C2-N2	6.22	1.48	1.34
9	I	1401	4OC	C6-C5	6.20	1.49	1.35
9	I	3456	5MC	C5-C4	6.18	1.48	1.44
9	I	3939	2MG	C4-N3	6.18	1.48	1.34
9	I	3329	2MG	C2-N2	6.16	1.46	1.33
9	I	2245	1MG	C4-N3	6.10	1.48	1.34
9	I	2245	1MG	C2-N2	6.07	1.44	1.34
9	I	3992	OMC	C4-N3	6.00	1.46	1.34
9	I	3409	3TD	C6-N1	5.98	1.46	1.36
9	I	3992	OMC	C4-N4	5.80	1.48	1.33
9	I	3405	PSU	C6-N1	5.77	1.45	1.36
9	I	3411	PSU	C6-N1	5.75	1.45	1.36
9	I	3939	2MG	C2-N2	5.73	1.45	1.33
9	I	3563	G7M	C2-N3	5.71	1.47	1.33
9	I	526	G7M	C2-N3	5.69	1.47	1.33
9	I	4046	OMU	C6-C5	5.67	1.48	1.35
9	I	966	5MC	C6-N1	5.63	1.47	1.38
9	I	3998	PSU	C6-N1	5.60	1.45	1.36
9	I	4099	PSU	C6-N1	5.55	1.45	1.36
9	I	515	PSU	C6-N1	5.48	1.45	1.36
9	I	965	2MG	C2-N1	5.45	1.45	1.36
9	I	3745	OMG	C2-N3	5.38	1.46	1.33
9	I	4074	PSU	C6-N1	5.37	1.45	1.36
9	I	2246	PSU	C6-N1	5.36	1.45	1.36
9	I	1206	2MG	C2-N1	5.30	1.45	1.36
9	I	3951	PSU	C6-N1	5.25	1.44	1.36
9	I	2449	PSU	C6-N1	5.22	1.44	1.36
9	I	1406	5MC	C6-N1	5.22	1.46	1.38
9	I	4402	UR3	C2-N3	5.13	1.49	1.39
9	I	3745	OMG	C2-N2	5.12	1.46	1.34
9	I	3329	2MG	C2-N1	5.03	1.44	1.36
9	I	4420	2MG	C2-N1	5.02	1.44	1.36
9	I	3997	2MA	C5-C6	4.97	1.54	1.41
9	I	3992	OMC	C2-N1	4.96	1.50	1.40
9	I	3456	5MC	C6-N1	4.80	1.46	1.38
9	I	3563	G7M	C5-N7	-4.78	1.33	1.39
9	I	3939	2MG	C2-N1	4.70	1.44	1.36
9	I	3409	3TD	C2-N3	4.68	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	966	5MC	C2-N1	4.45	1.49	1.40
9	I	1401	4OC	C4-N4	4.42	1.45	1.36
9	I	966	5MC	C4-N4	4.29	1.45	1.34
9	I	1401	4OC	C2-N1	4.23	1.48	1.40
9	I	1406	5MC	C2-N1	4.22	1.48	1.40
9	I	1406	5MC	C4-N4	4.21	1.44	1.34
9	I	526	G7M	C5-N7	-4.14	1.34	1.39
9	I	3456	5MC	C4-N4	4.13	1.44	1.34
9	I	515	PSU	C4-N3	4.06	1.46	1.38
9	I	3456	5MC	C2-N1	3.86	1.48	1.40
9	I	526	G7M	C5-C6	3.86	1.54	1.43
9	I	3997	2MA	C6-N6	-3.81	1.24	1.34
9	I	3405	PSU	C4-N3	3.79	1.46	1.38
9	I	3998	PSU	C4-N3	3.79	1.46	1.38
9	I	3992	OMC	C6-N1	3.78	1.47	1.38
9	I	4099	PSU	C4-N3	3.74	1.45	1.38
19	U	81	4D4	CZ-NH2	3.73	1.45	1.32
9	I	3411	PSU	C4-N3	3.73	1.45	1.38
9	I	2245	1MG	C2-N1	3.64	1.43	1.37
9	I	1401	4OC	C5-C4	3.62	1.49	1.41
9	I	2449	PSU	C4-N3	3.62	1.45	1.38
9	I	4074	PSU	C4-N3	3.60	1.45	1.38
9	I	3563	G7M	C5-C6	3.57	1.53	1.43
9	I	2246	PSU	C4-N3	3.54	1.45	1.38
9	I	4046	OMU	C4-N3	3.48	1.44	1.38
9	I	3951	PSU	C4-N3	3.39	1.45	1.38
9	I	3524	6MZ	C5-C4	-3.33	1.33	1.39
9	I	3992	OMC	O2-C2	-3.28	1.17	1.23
9	I	3329	2MG	C5-N7	-3.17	1.32	1.39
9	I	526	G7M	C2-N1	3.15	1.45	1.37
9	I	2245	1MG	C5-N7	-3.15	1.32	1.39
9	I	3939	2MG	C5-N7	-3.14	1.32	1.39
9	I	1401	4OC	C6-N1	3.14	1.45	1.38
9	I	4423	MA6	C5-C4	-3.11	1.33	1.39
9	I	3997	2MA	C8-N7	3.09	1.37	1.31
9	I	4423	MA6	C6-N6	3.06	1.45	1.36
9	I	4402	UR3	C6-N1	3.05	1.45	1.38
9	I	3745	OMG	C5-N7	-3.04	1.33	1.39
9	I	4422	MA6	C6-N6	3.02	1.45	1.36
9	I	4422	MA6	C5-C4	-3.02	1.33	1.39
9	I	526	G7M	C6-N1	2.98	1.44	1.38
9	I	3112	6MZ	C5-C4	-2.98	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	3409	3TD	C4-N3	2.97	1.46	1.40
9	I	3745	OMG	O6-C6	-2.96	1.18	1.23
9	I	3563	G7M	O6-C6	-2.85	1.18	1.23
9	I	2245	1MG	C4-N9	-2.85	1.30	1.38
9	I	3951	PSU	O4'-C1'	-2.80	1.40	1.43
9	I	4046	OMU	O2-C2	-2.80	1.18	1.23
9	I	1206	2MG	C5-N7	-2.75	1.33	1.39
9	I	4420	2MG	C5-N7	-2.75	1.33	1.39
9	I	4046	OMU	O4-C4	-2.71	1.19	1.24
9	I	3563	G7M	C2-N1	2.70	1.44	1.37
9	I	3992	OMC	C5-C4	2.70	1.49	1.42
9	I	965	2MG	C5-N7	-2.69	1.33	1.39
9	I	3745	OMG	C5-C6	2.66	1.54	1.44
9	I	1206	2MG	C5-C6	2.65	1.54	1.44
9	I	3939	2MG	O6-C6	-2.65	1.18	1.23
9	I	4422	MA6	C5-N7	-2.65	1.34	1.39
9	I	3524	6MZ	C5-N7	-2.64	1.34	1.39
9	I	965	2MG	C5-C6	2.64	1.54	1.44
9	I	1401	4OC	O2-C2	-2.61	1.18	1.23
9	I	4423	MA6	C5-N7	-2.61	1.34	1.39
9	I	3411	PSU	C1'-C5	2.57	1.56	1.50
9	I	2245	1MG	O6-C6	-2.56	1.17	1.23
9	I	515	PSU	C1'-C5	2.54	1.56	1.50
9	I	965	2MG	C6-N1	2.52	1.43	1.38
9	I	3563	G7M	C6-N1	2.52	1.43	1.38
9	I	3112	6MZ	C5-N7	-2.51	1.34	1.39
9	I	4420	2MG	C5-C6	2.51	1.53	1.44
9	I	3456	5MC	O2-C2	-2.50	1.19	1.23
9	I	3524	6MZ	C8-N9	-2.47	1.33	1.37
9	I	3939	2MG	C4-N9	-2.46	1.31	1.38
9	I	1206	2MG	C6-N1	2.46	1.43	1.38
9	I	526	G7M	O6-C6	-2.45	1.18	1.23
9	I	3329	2MG	C5-C6	2.45	1.53	1.44
9	I	4420	2MG	C6-N1	2.44	1.43	1.38
9	I	2246	PSU	O4'-C1'	-2.44	1.40	1.43
9	I	4099	PSU	O4-C4	-2.43	1.19	1.23
9	I	4402	UR3	C4-N3	2.42	1.45	1.40
9	I	3329	2MG	O6-C6	-2.41	1.19	1.23
9	I	3745	OMG	C2-N1	2.41	1.43	1.37
9	I	2245	1MG	C5-C6	2.40	1.51	1.45
9	I	4074	PSU	O4-C4	-2.38	1.19	1.23
9	I	4074	PSU	O2-C2	-2.37	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	4099	PSU	C1'-C5	2.36	1.55	1.50
9	I	3951	PSU	O2-C2	-2.34	1.18	1.23
9	I	3951	PSU	O4-C4	-2.34	1.19	1.23
9	I	4423	MA6	C8-N9	-2.34	1.33	1.37
9	I	4099	PSU	O2-C2	-2.33	1.18	1.23
9	I	4422	MA6	C8-N9	-2.33	1.33	1.37
19	U	81	4D4	CZ-NH1	-2.32	1.25	1.34
9	I	4420	2MG	O6-C6	-2.30	1.19	1.23
9	I	4402	UR3	C5-C4	2.30	1.49	1.43
9	I	2449	PSU	O2-C2	-2.30	1.18	1.23
9	I	2449	PSU	O4-C4	-2.30	1.19	1.23
9	I	1406	5MC	CM5-C5	2.29	1.56	1.50
9	I	526	G7M	C8-N7	2.29	1.37	1.33
9	I	3405	PSU	O4-C4	-2.29	1.19	1.23
9	I	2246	PSU	O2-C2	-2.27	1.18	1.23
9	I	3112	6MZ	C8-N9	-2.26	1.33	1.37
9	I	4402	UR3	O4-C4	-2.25	1.18	1.23
9	I	966	5MC	CM5-C5	2.25	1.56	1.50
9	I	3998	PSU	C1'-C5	2.22	1.55	1.50
9	I	3433	5MU	O2-C2	-2.21	1.19	1.23
9	I	3998	PSU	O4'-C1'	-2.21	1.40	1.43
9	I	3745	OMG	C4-N9	-2.20	1.32	1.38
9	I	3998	PSU	O4-C4	-2.19	1.19	1.23
9	I	3456	5MC	CM5-C5	2.19	1.56	1.50
9	I	1406	5MC	O2-C2	-2.18	1.19	1.23
9	I	3939	2MG	C5-C6	2.18	1.52	1.44
9	I	3409	3TD	O4-C4	-2.18	1.18	1.23
9	I	2247	5MU	O2-C2	-2.18	1.19	1.23
9	I	1206	2MG	O6-C6	-2.17	1.19	1.23
9	I	3411	PSU	O4-C4	-2.17	1.19	1.23
9	I	966	5MC	O2-C2	-2.14	1.19	1.23
9	I	3745	OMG	C6-N1	2.13	1.42	1.38
9	I	3329	2MG	C4-N9	-2.13	1.32	1.38
9	I	515	PSU	O4-C4	-2.13	1.19	1.23
9	I	515	PSU	O2-C2	-2.13	1.18	1.23
9	I	4074	PSU	O4'-C1'	-2.12	1.40	1.43
9	I	3405	PSU	C1'-C5	2.12	1.55	1.50
9	I	965	2MG	O6-C6	-2.12	1.19	1.23
9	I	3524	6MZ	C5-C6	-2.11	1.36	1.41
9	I	4402	UR3	O2-C2	-2.11	1.18	1.22
9	I	4074	PSU	C1'-C5	2.11	1.55	1.50
9	I	3939	2MG	C6-N1	2.11	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	3329	2MG	C6-N1	2.09	1.42	1.38
9	I	3998	PSU	O2-C2	-2.09	1.18	1.23
9	I	4099	PSU	O4'-C1'	-2.08	1.41	1.43
9	I	2246	PSU	C1'-C5	2.07	1.54	1.50
9	I	4420	2MG	C4-N9	-2.05	1.32	1.38
9	I	3405	PSU	O2-C2	-2.03	1.19	1.23
9	I	965	2MG	C4-N9	-2.03	1.32	1.38
9	I	2449	PSU	C1'-C5	2.02	1.54	1.50
9	I	3411	PSU	O2-C2	-2.01	1.19	1.23

All (224) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	4422	MA6	N1-C6-N6	-17.74	95.25	116.86
9	I	4423	MA6	N1-C6-N6	-17.65	95.36	116.86
9	I	3433	5MU	C5-C4-N3	12.34	126.05	115.32
9	I	4422	MA6	C5-C6-N6	12.20	144.65	125.33
9	I	2247	5MU	C5-C4-N3	12.12	125.86	115.32
9	I	4423	MA6	C5-C6-N6	12.07	144.44	125.33
9	I	3997	2MA	C1'-N9-C8	-11.06	102.54	127.09
9	I	3433	5MU	C5-C6-N1	-10.89	111.48	123.31
9	I	2247	5MU	C5-C6-N1	-10.38	112.04	123.31
9	I	3997	2MA	C4-N9-C1'	8.84	147.31	126.63
9	I	4423	MA6	C4-N9-C1'	-8.48	106.80	126.63
9	I	4422	MA6	C4-N9-C1'	-8.15	107.56	126.63
9	I	4423	MA6	C1'-N9-C8	7.66	144.09	127.09
9	I	4422	MA6	C1'-N9-C8	7.35	143.40	127.09
9	I	4420	2MG	C2-N3-C4	6.54	120.18	112.00
9	I	3329	2MG	C2-N3-C4	6.54	120.18	112.00
9	I	1206	2MG	C2-N3-C4	6.48	120.10	112.00
9	I	965	2MG	C2-N3-C4	6.32	119.90	112.00
9	I	3939	2MG	C2-N3-C4	6.31	119.90	112.00
9	I	3951	PSU	C6-C5-C4	5.86	122.13	118.17
9	I	2246	PSU	N1-C2-N3	5.82	121.31	115.17
9	I	4046	OMU	C4-N3-C2	-5.79	119.42	126.61
9	I	3524	6MZ	N1-C2-N3	-5.76	119.86	128.58
9	I	2246	PSU	C6-C5-C4	5.65	121.99	118.17
9	I	4423	MA6	N1-C2-N3	-5.64	120.05	128.58
9	I	2246	PSU	C4-N3-C2	-5.63	118.61	126.37
9	I	3951	PSU	C4-N3-C2	-5.53	118.75	126.37
9	I	3951	PSU	N1-C2-N3	5.52	120.99	115.17
9	I	4422	MA6	N1-C2-N3	-5.52	120.22	128.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	3524	6MZ	C9-N6-C6	-5.52	117.73	122.85
9	I	3329	2MG	C5-C4-N3	-5.51	119.62	128.39
9	I	3112	6MZ	N1-C2-N3	-5.45	120.34	128.58
9	I	3997	2MA	C5-C4-N3	-5.41	121.48	127.18
9	I	3409	3TD	N1-C2-N3	5.41	120.07	116.13
9	I	4402	UR3	C4-N3-C2	-5.39	120.24	124.58
9	I	4099	PSU	C4-N3-C2	-5.36	118.98	126.37
9	I	3939	2MG	C2-N1-C6	-5.34	118.09	124.55
9	I	1206	2MG	C5-C4-N3	-5.34	119.89	128.39
9	I	3745	OMG	C5-C4-N3	-5.24	120.05	128.39
9	I	2247	5MU	C4-N3-C2	-5.21	120.51	127.34
9	I	3433	5MU	C4-N3-C2	-5.18	120.54	127.34
9	I	3997	2MA	N9-C8-N7	-5.14	106.64	113.94
9	I	4074	PSU	C4-N3-C2	-5.13	119.30	126.37
9	I	3998	PSU	C4-N3-C2	-5.13	119.31	126.37
9	I	3112	6MZ	C5-C4-N3	-5.12	119.67	126.72
9	I	3939	2MG	C5-C4-N3	-5.07	120.32	128.39
9	I	4423	MA6	C5-C4-N3	-5.06	119.75	126.72
9	I	2449	PSU	C4-N3-C2	-5.01	119.47	126.37
9	I	4420	2MG	C5-C4-N3	-4.99	120.45	128.39
9	I	4074	PSU	N1-C2-N3	4.98	120.42	115.17
9	I	2449	PSU	N1-C2-N3	4.97	120.41	115.17
9	I	515	PSU	C4-N3-C2	-4.97	119.53	126.37
9	I	3524	6MZ	C5-C4-N3	-4.96	119.88	126.72
9	I	2247	5MU	O4-C4-C5	-4.94	119.26	124.92
9	I	3405	PSU	C4-N3-C2	-4.88	119.65	126.37
9	I	515	PSU	N1-C2-N3	4.88	120.31	115.17
9	I	3998	PSU	N1-C2-N3	4.86	120.29	115.17
9	I	4422	MA6	C5-C4-N3	-4.85	120.03	126.72
9	I	3329	2MG	C2-N1-C6	-4.82	118.72	124.55
9	I	965	2MG	C5-C4-N3	-4.82	120.71	128.39
9	I	2449	PSU	C6-C5-C4	4.80	121.42	118.17
9	I	4423	MA6	N9-C8-N7	-4.70	107.27	113.94
9	I	3433	5MU	O4-C4-C5	-4.69	119.55	124.92
9	I	2247	5MU	N3-C2-N1	4.62	120.90	114.89
9	I	3405	PSU	N1-C2-N3	4.52	119.93	115.17
9	I	4422	MA6	N9-C8-N7	-4.51	107.54	113.94
9	I	4099	PSU	N1-C2-N3	4.49	119.90	115.17
9	I	3939	2MG	N1-C2-N2	4.40	121.06	116.56
9	I	3563	G7M	C5-C6-N1	4.40	120.94	111.84
9	I	3524	6MZ	N9-C8-N7	-4.38	107.73	113.94
9	I	3411	PSU	C4-N3-C2	-4.36	120.37	126.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	3411	PSU	N1-C2-N3	4.32	119.72	115.17
9	I	3563	G7M	C5-C4-N3	-4.31	120.00	128.15
9	I	3405	PSU	C6-C5-C4	4.26	121.05	118.17
9	I	3433	5MU	C5M-C5-C6	-4.22	117.14	122.85
9	I	1206	2MG	C2-N1-C6	-4.21	119.46	124.55
9	I	3998	PSU	C6-C5-C4	4.20	121.01	118.17
9	I	3112	6MZ	C4-C5-C6	4.20	120.27	116.78
9	I	3563	G7M	C2-N3-C4	4.19	119.52	112.30
31	g	88	D2T	CB1-SB-CB	4.19	109.90	102.36
9	I	3433	5MU	N3-C2-N1	4.19	120.34	114.89
9	I	3112	6MZ	N9-C8-N7	-4.18	108.00	113.94
9	I	526	G7M	C2-N3-C4	4.17	119.49	112.30
9	I	3997	2MA	C4-N9-C8	4.17	110.12	105.74
9	I	2247	5MU	C5M-C5-C6	-4.16	117.23	122.85
9	I	3745	OMG	C2-N3-C4	4.12	119.39	112.30
9	I	4420	2MG	C2-N1-C6	-4.09	119.61	124.55
9	I	3409	3TD	C4-N3-C2	-4.07	120.30	124.61
9	I	3563	G7M	O6-C6-C5	-4.05	118.97	128.01
9	I	3456	5MC	C5-C6-N1	-4.05	118.92	123.31
9	I	4046	OMU	C5-C4-N3	4.01	120.42	114.80
9	I	3563	G7M	C2-N1-C6	-4.00	117.85	125.11
9	I	4422	MA6	C4-C5-C6	3.97	120.02	115.91
9	I	4423	MA6	C4-C5-C6	3.96	120.00	115.91
9	I	526	G7M	C5-C6-N1	3.93	119.96	111.84
9	I	3433	5MU	C5M-C5-C4	3.92	122.97	118.78
9	I	965	2MG	C2-N1-C6	-3.91	119.82	124.55
9	I	2245	1MG	C5-C4-N3	-3.83	122.29	128.39
9	I	2247	5MU	C5M-C5-C4	3.74	122.78	118.78
9	I	526	G7M	C5-C4-N3	-3.69	121.18	128.15
9	I	2245	1MG	N2-C2-N1	3.68	121.75	118.79
9	I	3329	2MG	N9-C4-N3	3.68	133.31	125.95
9	I	515	PSU	C6-C5-C4	3.65	120.64	118.17
9	I	3112	6MZ	C9-N6-C6	-3.65	119.47	122.85
9	I	4074	PSU	C6-C5-C4	3.62	120.62	118.17
9	I	3997	2MA	N3-C4-N9	3.61	131.57	126.99
9	I	965	2MG	N1-C2-N2	3.57	120.20	116.56
9	I	4420	2MG	N9-C8-N7	-3.55	106.82	113.40
9	I	3411	PSU	C6-N1-C2	-3.54	119.41	122.69
9	I	3329	2MG	N9-C8-N7	-3.52	106.88	113.40
9	I	3939	2MG	N9-C4-N3	3.51	132.97	125.95
9	I	3745	OMG	N9-C4-N3	3.51	132.97	125.95
9	I	526	G7M	O6-C6-C5	-3.50	120.19	128.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	4402	UR3	C5-C4-N3	3.50	119.65	115.04
9	I	4423	MA6	N3-C4-N9	3.50	133.12	127.17
9	I	3745	OMG	N9-C8-N7	-3.50	106.92	113.40
9	I	2449	PSU	C6-N1-C2	-3.47	119.47	122.69
9	I	1206	2MG	N9-C4-N3	3.46	132.87	125.95
9	I	3524	6MZ	C2-N3-C4	3.46	120.27	111.83
9	I	3998	PSU	C6-N1-C2	-3.45	119.49	122.69
9	I	4046	OMU	N3-C2-N1	3.43	119.36	114.89
9	I	3563	G7M	N9-C4-N3	3.43	132.81	125.95
9	I	4422	MA6	N3-C4-N9	3.42	132.99	127.17
9	I	3951	PSU	C6-N1-C2	-3.42	119.52	122.69
9	I	3524	6MZ	C4-C5-C6	3.42	119.62	116.78
9	I	4423	MA6	C2-N3-C4	3.41	120.17	111.83
9	I	965	2MG	N9-C8-N7	-3.41	107.08	113.40
9	I	2246	PSU	C6-N1-C2	-3.40	119.53	122.69
9	I	515	PSU	C6-N1-C2	-3.40	119.54	122.69
9	I	3939	2MG	N9-C8-N7	-3.35	107.18	113.40
9	I	4074	PSU	C6-N1-C2	-3.34	119.59	122.69
9	I	4420	2MG	N9-C4-N3	3.34	132.64	125.95
9	I	3745	OMG	C2-N1-C6	-3.31	119.10	125.11
9	I	515	PSU	O2-C2-N1	-3.30	119.39	122.79
9	I	3329	2MG	N1-C2-N2	3.28	119.91	116.56
9	I	4422	MA6	C2-N1-C6	3.28	119.84	111.83
9	I	966	5MC	C5-C6-N1	-3.27	119.76	123.31
9	I	4423	MA6	C2-N1-C6	3.27	119.82	111.83
9	I	3112	6MZ	C2-N3-C4	3.27	119.81	111.83
9	I	4422	MA6	C2-N3-C4	3.25	119.77	111.83
31	g	88	D2T	OD2-CG-CB	3.20	120.07	113.15
9	I	4423	MA6	C4-N9-C8	3.20	109.10	105.74
9	I	3112	6MZ	N3-C4-N9	3.18	132.58	127.17
9	I	3939	2MG	O6-C6-C5	-3.15	118.21	126.53
9	I	3405	PSU	C6-N1-C2	-3.15	119.77	122.69
9	I	4422	MA6	C4-N9-C8	3.14	109.04	105.74
9	I	1206	2MG	N9-C8-N7	-3.11	107.64	113.40
9	I	1406	5MC	C5-C6-N1	-3.07	119.98	123.31
9	I	1206	2MG	N1-C2-N2	3.07	119.69	116.56
9	I	3939	2MG	C5-C6-N1	3.06	121.05	113.25
9	I	3433	5MU	O2-C2-N1	-3.05	118.83	122.80
9	I	526	G7M	C2-N1-C6	-3.04	119.59	125.11
9	I	3433	5MU	O4-C4-N3	-3.04	114.40	120.11
9	I	4074	PSU	O2-C2-N1	-3.03	119.66	122.79
9	I	3997	2MA	N3-C2-N1	-3.02	120.44	125.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	965	2MG	N9-C4-N3	3.00	131.95	125.95
9	I	4402	UR3	C6-N1-C2	-2.98	119.36	121.80
9	I	4046	OMU	O4-C4-C5	-2.98	120.02	125.16
9	I	3411	PSU	C6-C5-C4	2.98	120.19	118.17
9	I	4423	MA6	C5-N7-C8	2.98	108.13	103.45
9	I	2246	PSU	O2-C2-N1	-2.96	119.74	122.79
9	I	2245	1MG	C2-N3-C4	2.94	118.59	111.98
9	I	3524	6MZ	N3-C4-N9	2.90	132.10	127.17
9	I	3997	2MA	C5-N7-C8	2.89	107.99	103.45
9	I	4099	PSU	C6-C5-C4	2.86	120.11	118.17
9	I	4099	PSU	C6-N1-C2	-2.85	120.05	122.69
9	I	4420	2MG	C5-C6-N1	2.83	120.46	113.25
9	I	3329	2MG	C5-C6-N1	2.81	120.40	113.25
9	I	4422	MA6	C5-N7-C8	2.80	107.86	103.45
9	I	526	G7M	N9-C4-N3	2.80	131.55	125.95
9	I	2247	5MU	O4-C4-N3	-2.79	114.88	120.11
9	I	3951	PSU	O2-C2-N1	-2.76	119.94	122.79
9	I	2247	5MU	O2-C2-N1	-2.74	119.23	122.80
9	I	3524	6MZ	C5-N7-C8	2.73	107.75	103.45
9	I	4420	2MG	N1-C2-N2	2.73	119.35	116.56
9	I	3112	6MZ	C5-N7-C8	2.70	107.69	103.45
9	I	1206	2MG	C5-C6-N1	2.68	120.08	113.25
9	I	3745	OMG	C1'-N9-C4	-2.68	118.58	126.49
9	I	3745	OMG	C5-C6-N1	2.68	120.06	113.25
9	I	4420	2MG	O6-C6-C5	-2.65	119.54	126.53
9	I	3563	G7M	CN7-N7-C5	2.64	130.09	126.80
9	I	965	2MG	C5-C6-N1	2.62	119.93	113.25
9	I	3409	3TD	C1'-C5-C4	2.61	121.56	117.61
9	I	3997	2MA	N6-C6-N1	2.59	120.53	117.03
9	I	2245	1MG	C5-C6-N1	2.57	119.76	115.02
9	I	3329	2MG	O6-C6-C5	-2.55	119.81	126.53
9	I	1206	2MG	O6-C6-C5	-2.52	119.89	126.53
9	I	2245	1MG	N9-C8-N7	-2.52	108.73	113.40
9	I	3524	6MZ	C5-C6-N1	2.51	120.84	118.15
9	I	4099	PSU	O2-C2-N1	-2.48	120.23	122.79
9	I	526	G7M	CN7-N7-C5	2.48	129.89	126.80
9	I	3998	PSU	O2-C2-N1	-2.48	120.23	122.79
9	I	3939	2MG	CM2-N2-C2	-2.46	118.35	123.65
9	I	3405	PSU	O2-C2-N1	-2.44	120.27	122.79
9	I	965	2MG	O6-C6-C5	-2.44	120.09	126.53
9	I	515	PSU	O4'-C1'-C2'	2.40	108.47	105.15
9	I	3524	6MZ	C4-N9-C8	2.40	108.26	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	2247	5MU	C6-C5-C4	2.40	120.00	118.02
9	I	3329	2MG	C8-N7-C5	2.39	108.51	104.26
9	I	3745	OMG	O6-C6-C5	-2.37	120.27	126.53
9	I	4420	2MG	N1-C2-N3	-2.35	119.71	123.68
9	I	3411	PSU	O4'-C1'-C2'	2.35	108.40	105.15
9	I	3112	6MZ	C4-N9-C8	2.30	108.15	105.74
9	I	965	2MG	C8-N7-C5	2.29	108.34	104.26
9	I	3433	5MU	C6-C5-C4	2.27	119.89	118.02
9	I	2449	PSU	O2-C2-N1	-2.25	120.46	122.79
9	I	965	2MG	N1-C2-N3	-2.25	119.89	123.68
9	I	526	G7M	N9-C8-N7	-2.24	107.04	112.48
9	I	4420	2MG	C8-N7-C5	2.24	108.25	104.26
9	I	3951	PSU	C5-C6-N1	-2.22	119.06	122.14
9	I	2246	PSU	C5-C6-N1	-2.21	119.07	122.14
9	I	1206	2MG	C8-N7-C5	2.21	108.19	104.26
9	I	3745	OMG	C8-N7-C5	2.20	108.19	104.26
9	I	3411	PSU	O2-C2-N1	-2.16	120.56	122.79
9	I	4402	UR3	C1'-N1-C2	2.12	120.52	117.04
9	I	3563	G7M	N9-C8-N7	-2.11	107.35	112.48
9	I	4099	PSU	O4'-C1'-C2'	2.05	107.99	105.15
9	I	3997	2MA	CM2-C2-N1	2.05	120.19	117.13
9	I	1206	2MG	N1-C2-N3	-2.04	120.24	123.68
9	I	3524	6MZ	C4-C5-N7	-2.03	108.26	110.58
9	I	3524	6MZ	C5-C4-N9	2.02	108.01	105.81
9	I	3951	PSU	O4'-C1'-C2'	2.01	107.93	105.15
9	I	4099	PSU	O4-C4-C5	-2.01	119.02	124.01
9	I	3997	2MA	C4-C5-N7	-2.00	108.29	110.58

There are no chirality outliers.

All (83) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
19	U	81	4D4	O-C-CA-CB
19	U	81	4D4	N-CA-CB-CG
19	U	81	4D4	NE-CD-CG-CB
31	g	88	D2T	CA-CB-SB-CB1
31	g	88	D2T	CG-CB-SB-CB1
9	I	1401	4OC	C1'-C2'-O2'-CM2
9	I	1406	5MC	O4'-C4'-C5'-O5'
9	I	3112	6MZ	C5-C6-N6-C9
9	I	3112	6MZ	N1-C6-N6-C9
9	I	3524	6MZ	N1-C6-N6-C9

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Mol	Chain	Res	Type	Atoms
9	I	3524	6MZ	O4'-C4'-C5'-O5'
9	I	3524	6MZ	C3'-C4'-C5'-O5'
9	I	3997	2MA	O4'-C1'-N9-C8
9	I	3997	2MA	O4'-C1'-N9-C4
9	I	3998	PSU	O4'-C4'-C5'-O5'
9	I	4046	OMU	O4'-C4'-C5'-O5'
9	I	4074	PSU	C2'-C1'-C5-C4
9	I	4099	PSU	C2'-C1'-C5-C4
9	I	4099	PSU	C2'-C1'-C5-C6
9	I	2246	PSU	O4'-C4'-C5'-O5'
9	I	2247	5MU	C3'-C4'-C5'-O5'
9	I	3112	6MZ	C3'-C4'-C5'-O5'
9	I	3939	2MG	O4'-C4'-C5'-O5'
9	I	3939	2MG	C3'-C4'-C5'-O5'
9	I	3951	PSU	O4'-C4'-C5'-O5'
9	I	3998	PSU	C3'-C4'-C5'-O5'
9	I	4099	PSU	C3'-C4'-C5'-O5'
9	I	4099	PSU	O4'-C4'-C5'-O5'
9	I	3112	6MZ	O4'-C4'-C5'-O5'
9	I	4402	UR3	C2'-C1'-N1-C6
9	I	1406	5MC	C3'-C4'-C5'-O5'
9	I	2247	5MU	O4'-C4'-C5'-O5'
9	I	3456	5MC	O4'-C4'-C5'-O5'
9	I	4046	OMU	C3'-C4'-C5'-O5'
9	I	4402	UR3	C2'-C1'-N1-C2
9	I	2246	PSU	C3'-C4'-C5'-O5'
9	I	3951	PSU	C3'-C4'-C5'-O5'
9	I	4422	MA6	C5-C6-N6-C10
9	I	3992	OMC	C2'-C1'-N1-C2
9	I	526	G7M	C3'-C4'-C5'-O5'
9	I	965	2MG	O4'-C4'-C5'-O5'
9	I	2449	PSU	O4'-C4'-C5'-O5'
9	I	3997	2MA	O4'-C4'-C5'-O5'
9	I	3112	6MZ	C2'-C1'-N9-C4
9	I	965	2MG	C3'-C4'-C5'-O5'
9	I	3456	5MC	C3'-C4'-C5'-O5'
19	U	81	4D4	C-CA-CB-CG
9	I	3992	OMC	C2'-C1'-N1-C6
9	I	3112	6MZ	C2'-C1'-N9-C8
9	I	4402	UR3	O4'-C1'-N1-C2
9	I	526	G7M	O4'-C4'-C5'-O5'
9	I	4420	2MG	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
9	I	4402	UR3	O4'-C1'-N1-C6
9	I	2245	1MG	O4'-C4'-C5'-O5'
9	I	3563	G7M	C4'-C5'-O5'-P
9	I	3992	OMC	C4'-C5'-O5'-P
9	I	3409	3TD	O4'-C1'-C5-C4
9	I	3411	PSU	O4'-C1'-C5-C4
9	I	4074	PSU	O4'-C1'-C5-C4
9	I	526	G7M	C4'-C5'-O5'-P
9	I	4099	PSU	C4'-C5'-O5'-P
9	I	4423	MA6	C4'-C5'-O5'-P
9	I	1206	2MG	O4'-C4'-C5'-O5'
9	I	1406	5MC	C2'-C1'-N1-C2
31	g	88	D2T	SB-CB-CG-OD2
9	I	1406	5MC	C2'-C1'-N1-C6
9	I	966	5MC	C4'-C5'-O5'-P
9	I	2245	1MG	C3'-C4'-C5'-O5'
9	I	3997	2MA	C3'-C4'-C5'-O5'
9	I	2449	PSU	C3'-C4'-C5'-O5'
9	I	4046	OMU	C2'-C1'-N1-C6
9	I	3992	OMC	O4'-C4'-C5'-O5'
9	I	4422	MA6	N1-C6-N6-C10
9	I	3456	5MC	C2'-C1'-N1-C6
9	I	4046	OMU	C2'-C1'-N1-C2
9	I	2246	PSU	C2'-C1'-C5-C6
9	I	3329	2MG	O4'-C4'-C5'-O5'
9	I	4422	MA6	C3'-C4'-C5'-O5'
9	I	3456	5MC	O4'-C1'-N1-C6
9	I	4422	MA6	O4'-C4'-C5'-O5'
9	I	3433	5MU	C2'-C1'-N1-C2
9	I	3524	6MZ	C5-C6-N6-C9
19	U	81	4D4	C-CA-CB-OB

There are no ring outliers.

34 monomers are involved in 182 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	I	3411	PSU	7	0
9	I	4420	2MG	7	0
9	I	3329	2MG	3	0
9	I	1406	5MC	6	0
9	I	4422	MA6	8	0
9	I	3951	PSU	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	I	3524	6MZ	4	0
9	I	966	5MC	9	0
9	I	965	2MG	1	0
9	I	4099	PSU	6	0
9	I	1206	2MG	5	0
31	g	88	D2T	6	0
9	I	3997	2MA	5	0
9	I	3409	3TD	7	0
9	I	1401	4OC	7	0
9	I	4423	MA6	8	0
9	I	3998	PSU	3	0
9	I	3563	G7M	1	0
9	I	3992	OMC	7	0
9	I	3456	5MC	6	0
9	I	3112	6MZ	5	0
9	I	3405	PSU	6	0
9	I	2246	PSU	3	0
9	I	2449	PSU	9	0
9	I	515	PSU	3	0
9	I	3939	2MG	8	0
9	I	3745	OMG	6	0
9	I	2245	1MG	12	0
9	I	3433	5MU	4	0
9	I	526	G7M	6	0
9	I	2247	5MU	1	0
9	I	4046	OMU	6	0
9	I	4402	UR3	3	0
9	I	4074	PSU	5	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
9	I	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	1500:U	O3'	1501:G	P	17.28
1	I	2385:C	O3'	2386:A	P	15.64

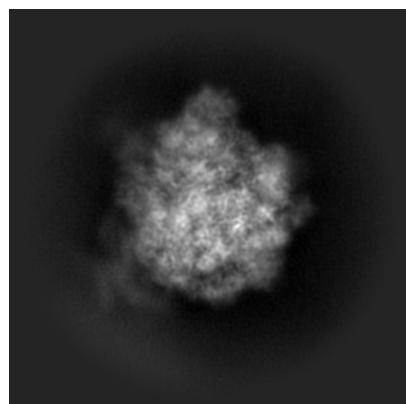
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-26666. These allow visual inspection of the internal detail of the map and identification of artifacts.

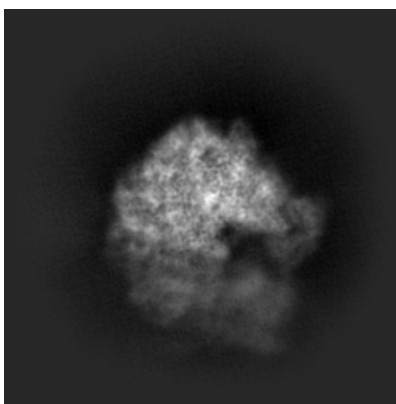
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

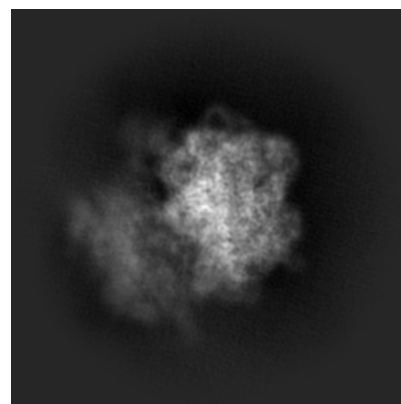
6.1.1 Primary map



X

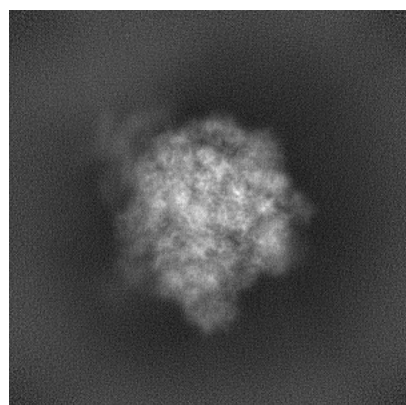


Y

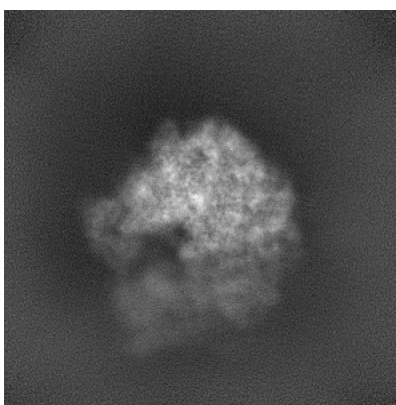


Z

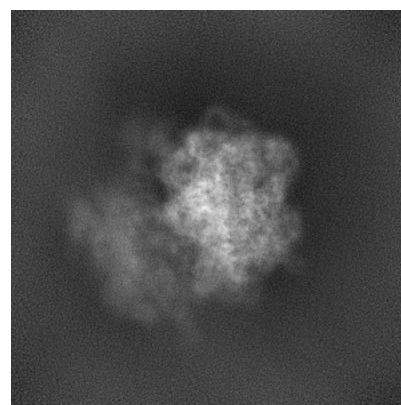
6.1.2 Raw map



X



Y

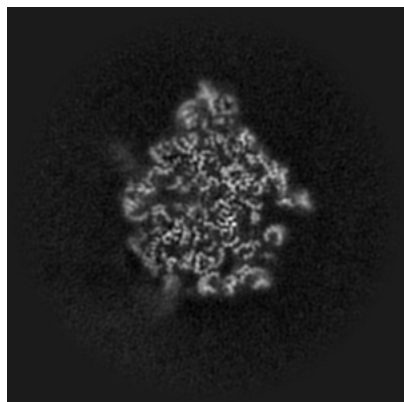


Z

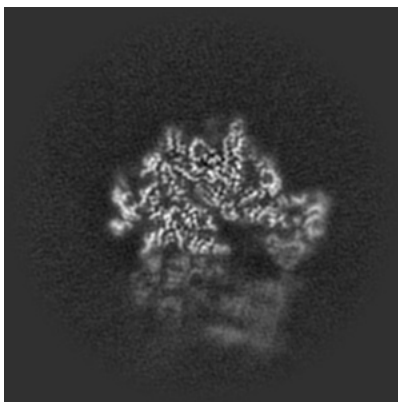
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

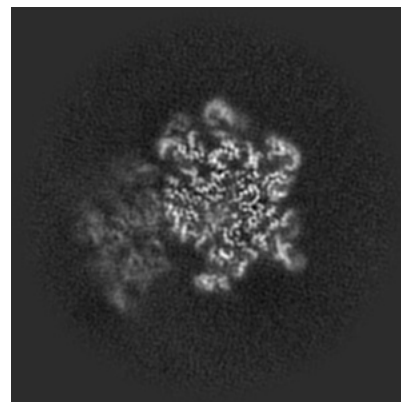
6.2.1 Primary map



X Index: 250

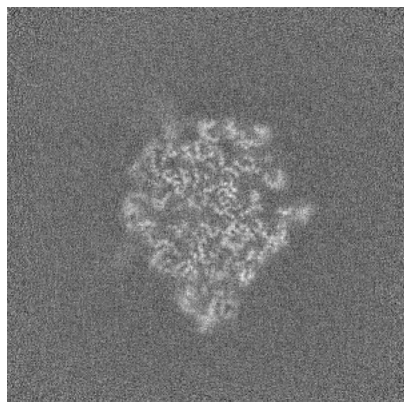


Y Index: 250

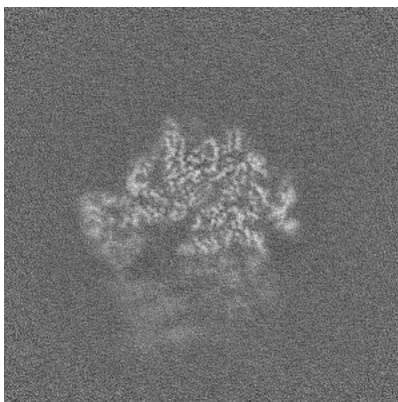


Z Index: 250

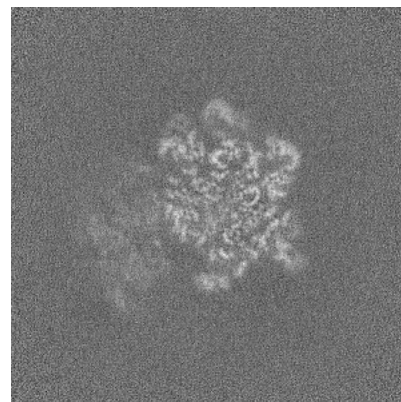
6.2.2 Raw map



X Index: 250



Y Index: 250

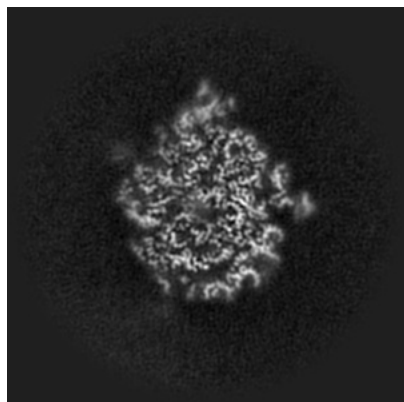


Z Index: 250

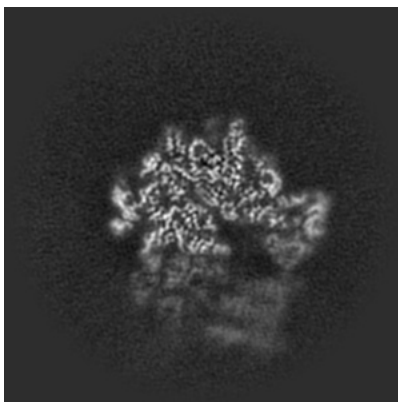
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

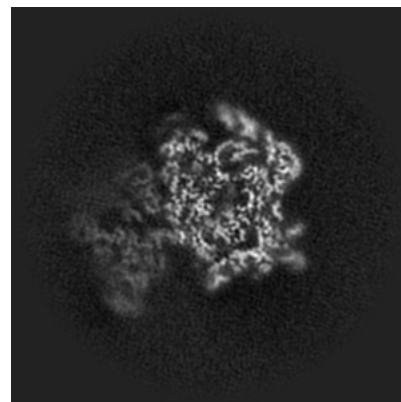
6.3.1 Primary map



X Index: 259

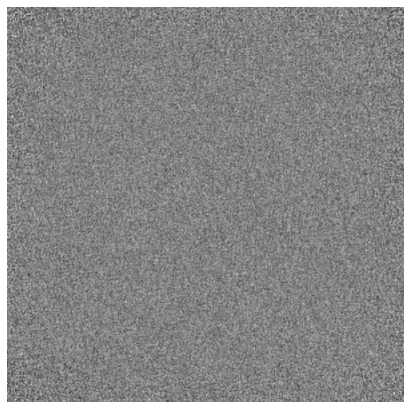


Y Index: 249

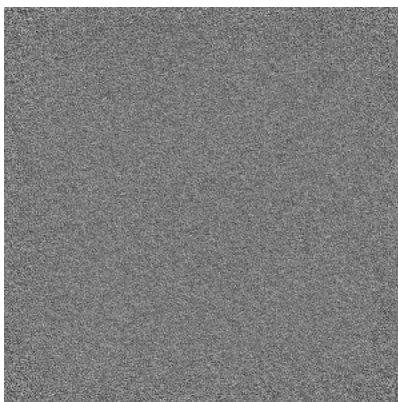


Z Index: 239

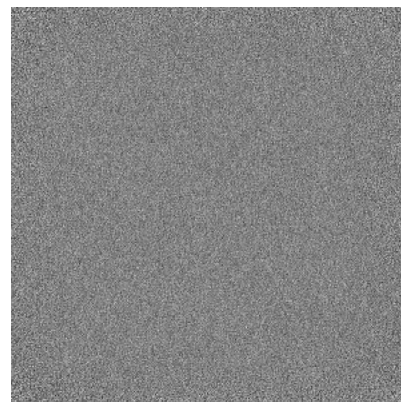
6.3.2 Raw map



X Index: 0



Y Index: 0

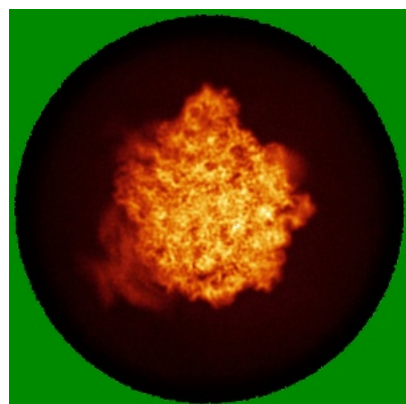


Z Index: 0

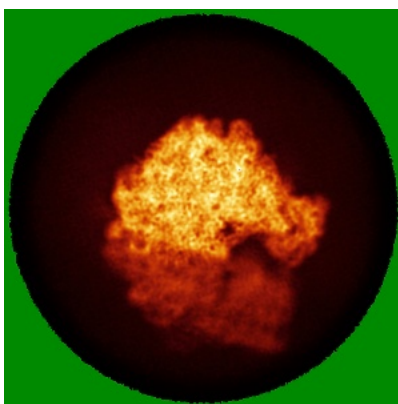
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

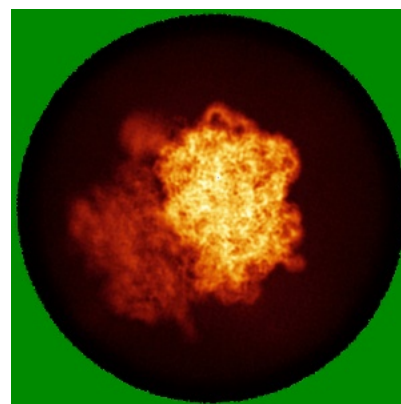
6.4.1 Primary map



X

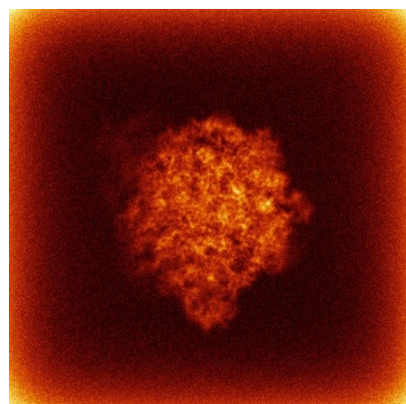


Y

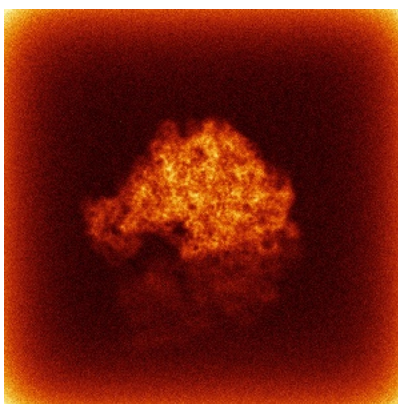


Z

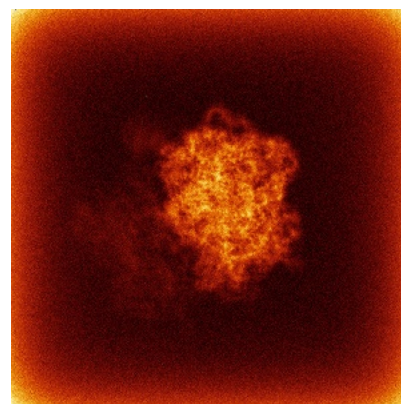
6.4.2 Raw map



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



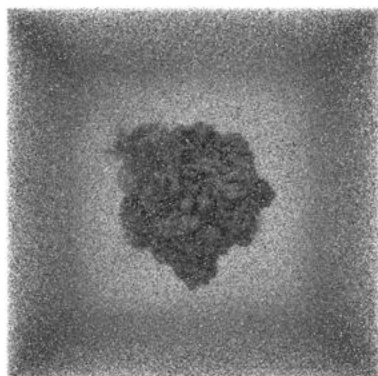
Y



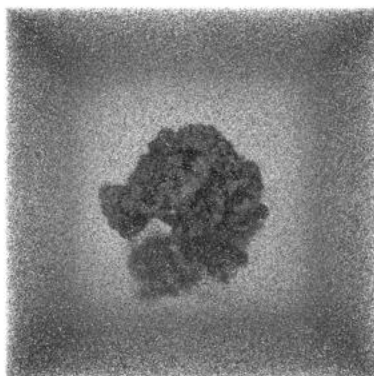
Z

The images above show the 3D surface view of the map at the recommended contour level 0.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

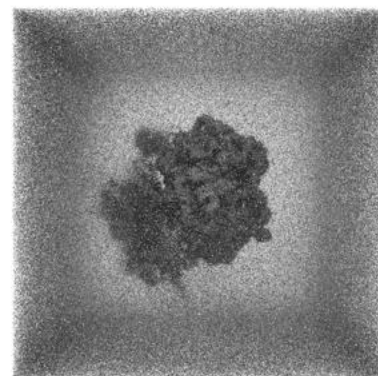
6.5.2 Raw map



X



Y



Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

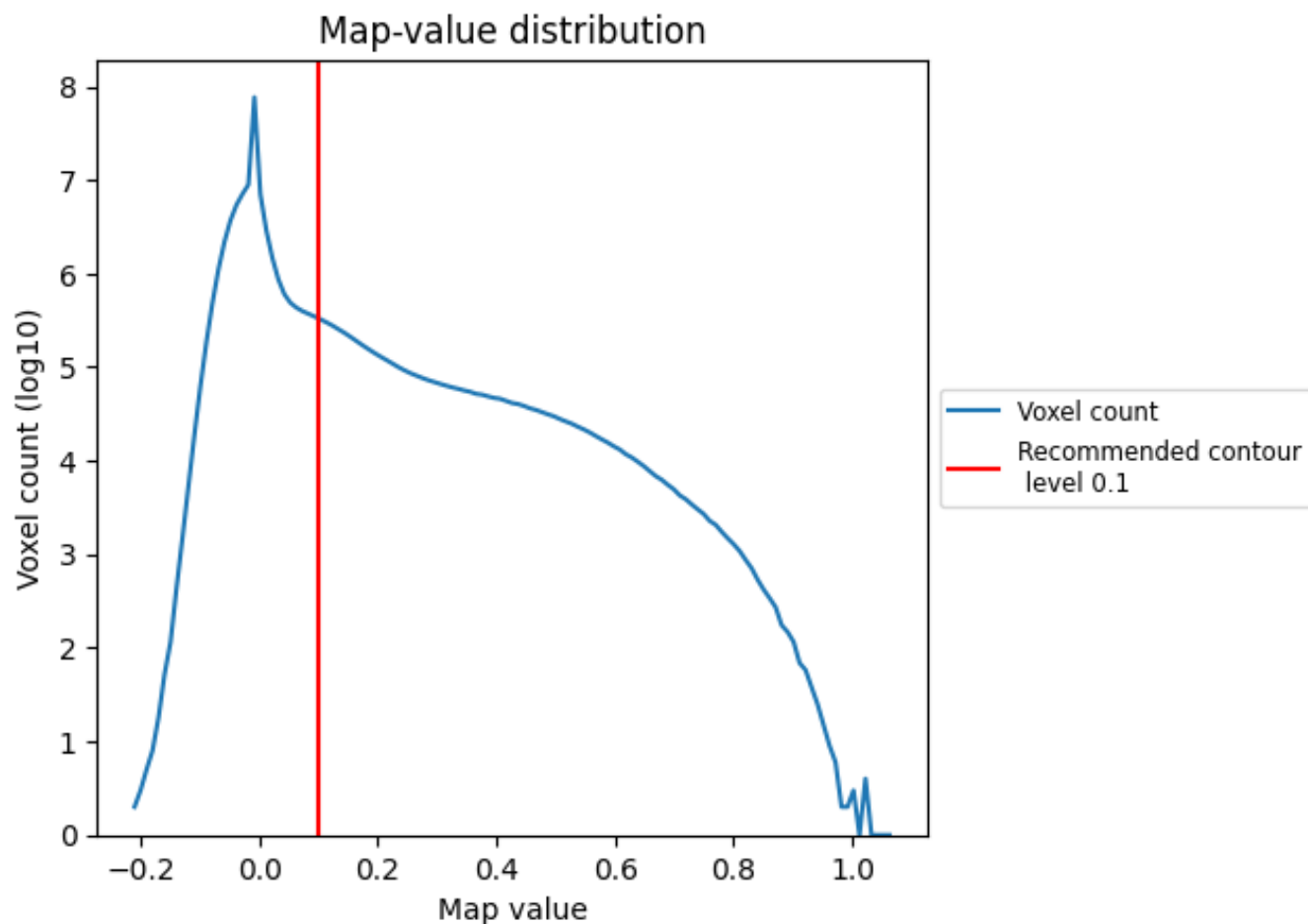
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

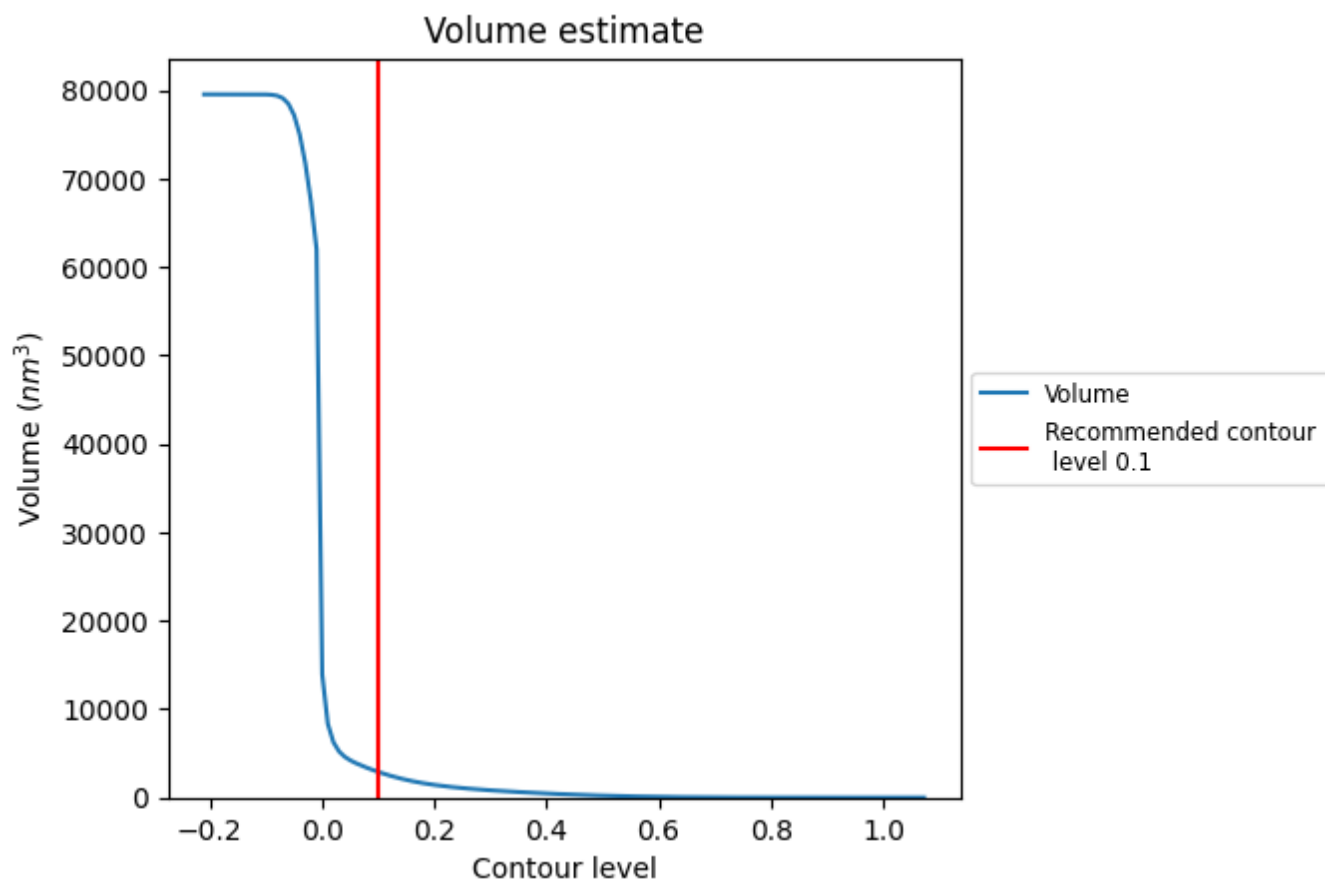
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

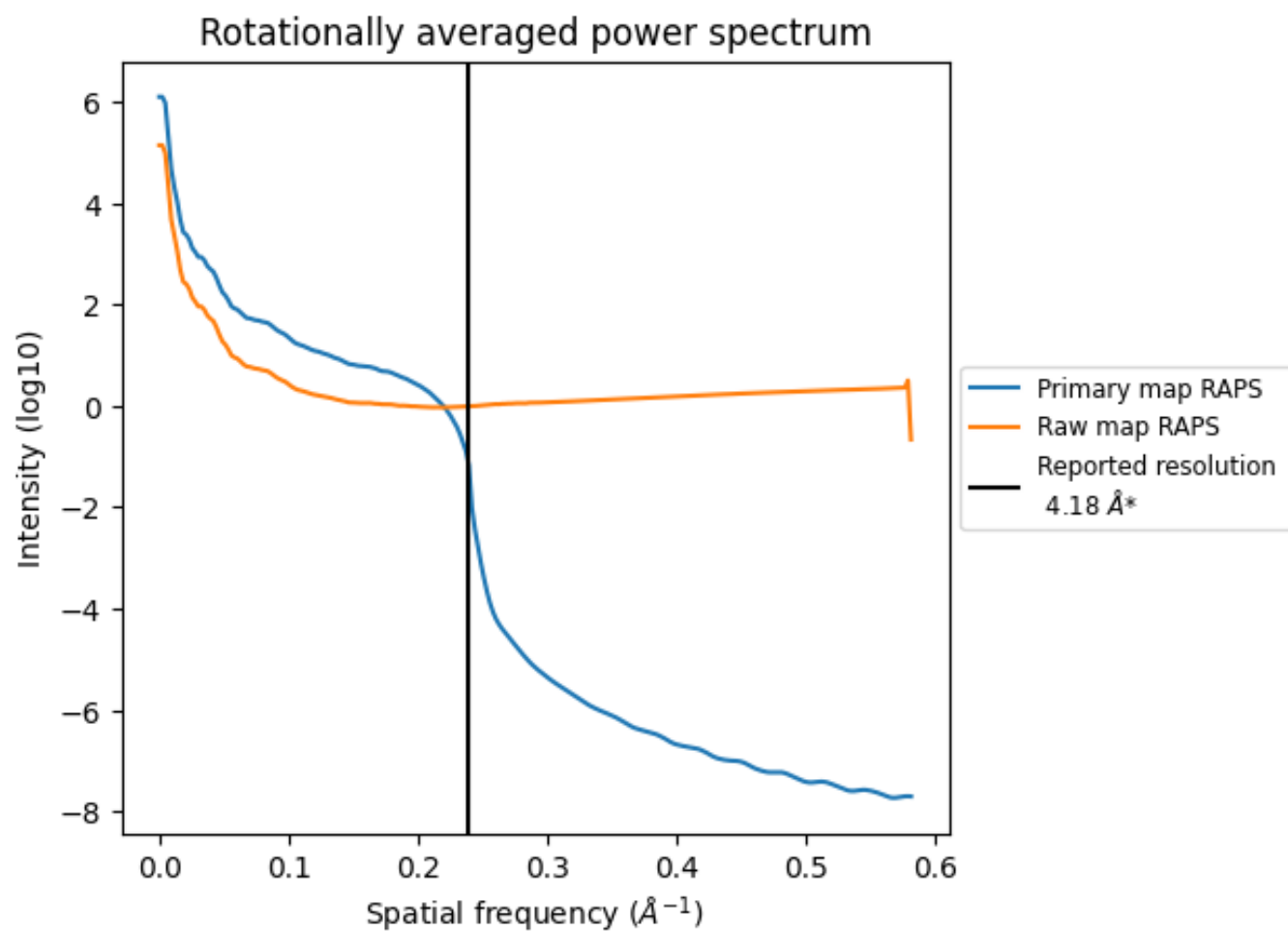
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2909 nm³; this corresponds to an approximate mass of 2628 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 ⓘ

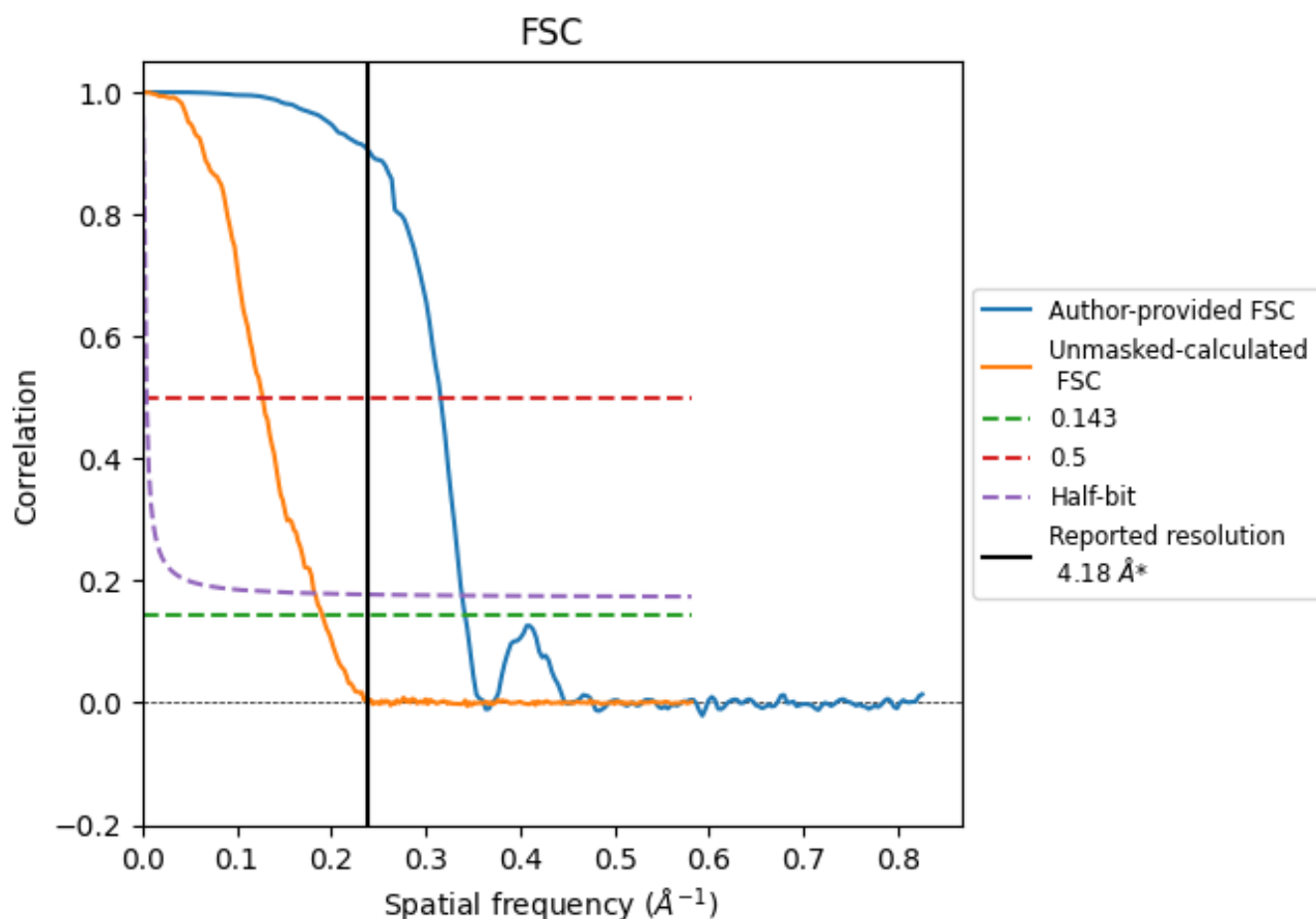


*Reported resolution corresponds to spatial frequency of 0.239 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of $0.239 \text{ \AA}^{-1}$

8.2 Resolution estimates

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.18	-	-
Author-provided FSC curve	2.93	3.17	2.96
Unmasked-calculated*	5.24	7.85	5.47

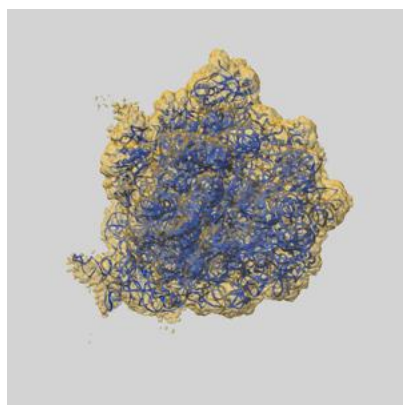
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 2.93 differs from the reported value 4.18 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 5.24 differs from the reported value 4.18 by more than 10 %

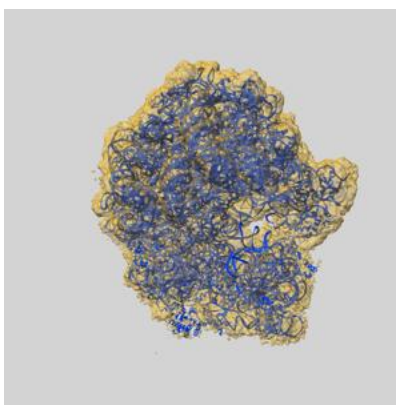
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-26666 and PDB model 7UPH. Per-residue inclusion information can be found in section 3 on page 14.

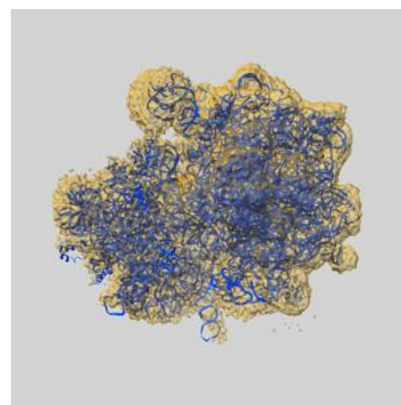
9.1 Map-model overlay [i](#)



X



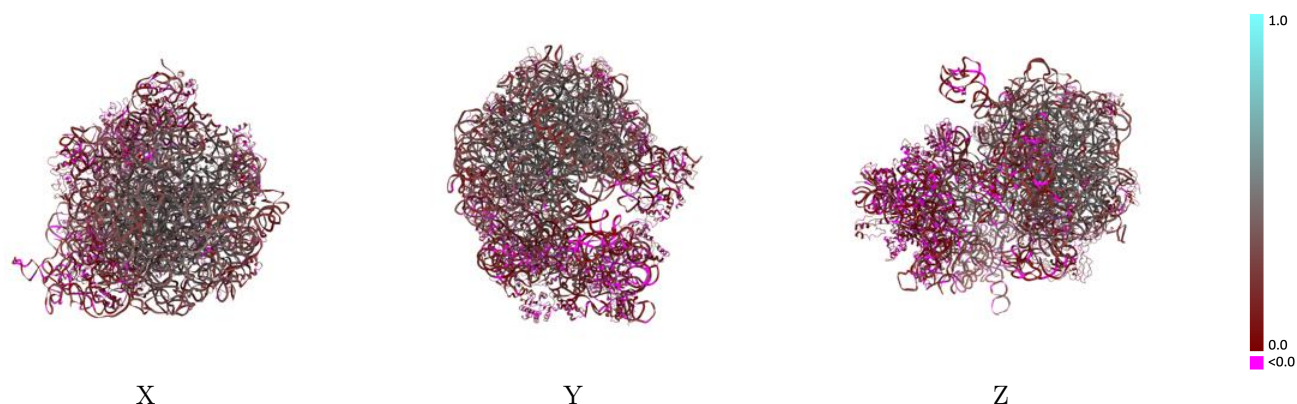
Y



Z

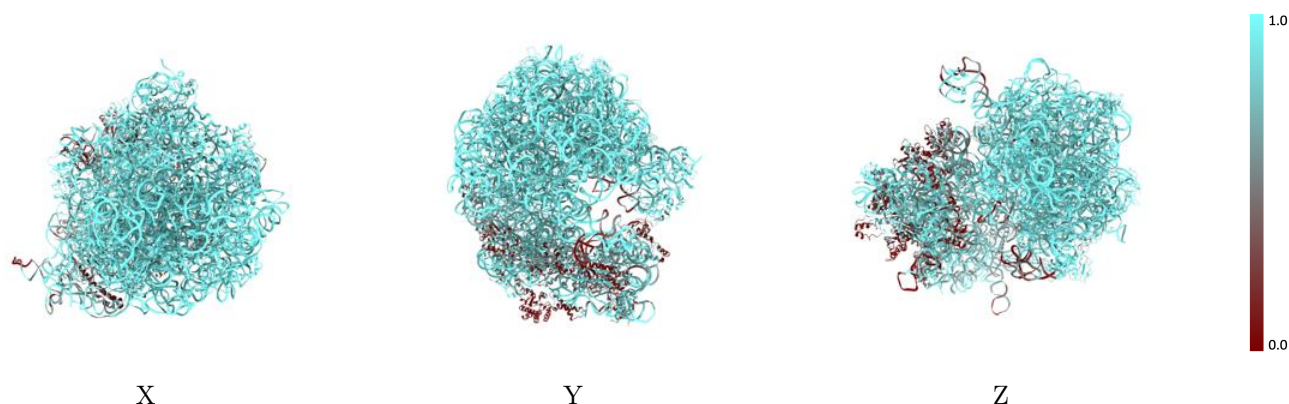
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



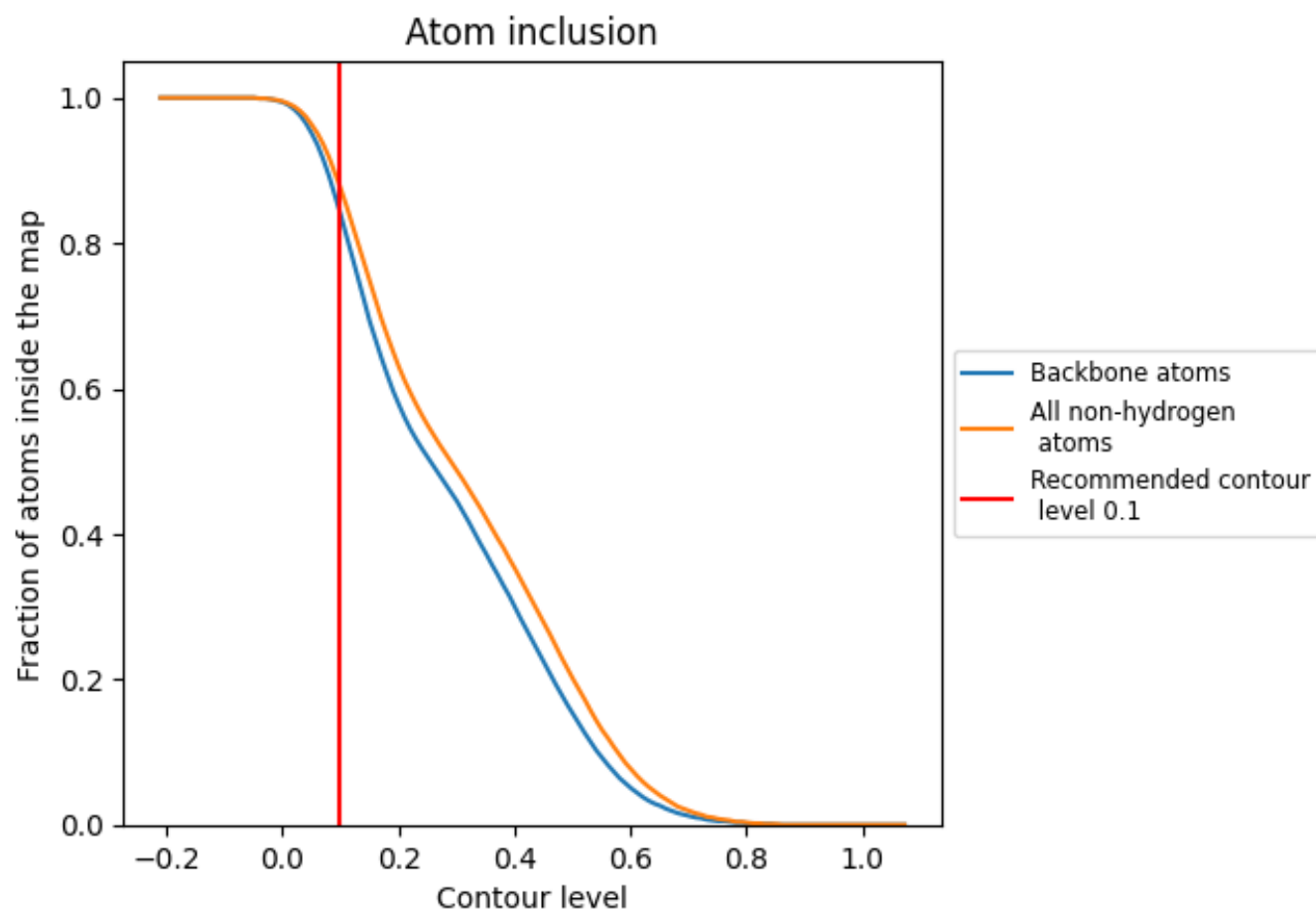
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.1).

9.4 Atom inclusion ⓘ



At the recommended contour level, 84% of all backbone atoms, 88% 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 (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8770	 0.2400
A	 0.7610	 0.0710
B	 0.4930	 0.1220
C	 0.7030	 0.1010
D	 0.4990	 0.1100
E	 0.5420	 0.1030
F	 0.2240	 0.0820
G	 0.2720	 0.0490
H	 0.2070	 0.0660
I	 0.9290	 0.2690
J	 0.9840	 0.1870
K	 0.9670	 0.2620
L	 0.9720	 0.2320
M	 0.9860	 0.2770
N	 0.9030	 0.1100
O	 0.9240	 0.1440
R	 0.9800	 0.2660
S	 0.9100	 0.1770
T	 0.9770	 0.2820
U	 0.9750	 0.2430
V	 0.9650	 0.2620
W	 0.1530	 0.0940
X	 0.4000	 0.0950
Y	 0.4910	 0.0880
Z	 0.7220	 0.1790
a	 0.3730	 0.1020
b	 0.3680	 0.1200
c	 0.6360	 0.1640
d	 0.7370	 0.0920
e	 0.4960	 0.1210
f	 0.4700	 0.0950
g	 0.7480	 0.2300
h	 0.5410	 0.1190
i	 0.9860	 0.3590
j	 0.8650	 0.1050



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Chain	Atom inclusion	Q-score
k	 0.9920	 0.4020
l	 0.9880	 0.3730
m	 0.9110	 0.1150
n	 0.9290	 0.1460
o	 0.8480	 0.1160
p	 0.9780	 0.2860
q	 0.9770	 0.2520
r	 0.9900	 0.3640
s	 0.9500	 0.2180
t	 0.9600	 0.1780
u	 0.9380	 0.1380
v	 0.9300	 0.1640
w	 0.9770	 0.2910
x	 0.9960	 0.2010
y	 0.9950	 0.2680